A Adoption Model 76, 81 adoption of the Internet 323 A real time decision engine 121 adoption process 81, 83, 84, 85 ABAP (Advanced Business Application Pro-Advance Planning & Scheduling (APS) 315 gramming) 30 advanced analytics solutions 137 ABAP programmers 26 Advanced Manufacturing Research (AMR) 40 ABC Company 45 advanced terminal emulation 171 absolute consistency 92 advances in Internet technology 340 absolute scale numbers 264 advantages 83, 85 abstract activity 155 advantages of scale 262 abstraction 144, 154, 156 advantages of simplicity 264 academia 231, 267 advantages of technology 196 academic literature 77 advertising 239, 252 academic press 76 advertising expenditures 239 Accelerated SAP (ASAP) 7, 65, 69 advocates 308 Accelerated SAP (ASAP) methodology 65 aerial photography 162 Accenture 262 aerospace 42 acceptance tests 24 affected populations 160 Access Market International (AMI) 197 affinity partnering 123 accounting 62, 63, 64, 66, 68 aforementioned element 95 accurate information 195 Age of Closed Problems (ACP) 53, 56, 57 ACP (average collection period) 98 Age of Open Problems (AOP) 53, 56, 57 acquiring (gaining) knowledge 92 agent-based solutions 335 acquiring customers 120 agents 323, 330, 333, 334, 335, 338, 339, acquisitions 141 340 action language 140, 144, 145 aggregate functionality 43 actionable information 119 aggregation of approaches 308 action-reward learning 240, 241 agile approach 20, 22 actual data 93 agile development 22, 24, 27, 31, 37 actual implementation 41 Agile Manifesto 22 adaptability 164 Agile Manifesto values 22 adaptive methods 22 Agile methods additional data 114 20, 21, 23, 26, 27, 28, 30, 35 adequate project resources 79 agile philosophy 26, 27 administrative overheads 329 agile point of view 22

adopting organization 21, 22

agile practices 20, 22, 23, 27	analyzing inefficiencies 62
agile principles 26, 27	Anderson Consulting 262
Agile software development methods 21	Andhra Pradesh 330
Agile techniques 28, 31	anomaly 105, 106, 107
agile view 22	anticorruption layer 31
Agile Zone 27	anti-HIV drugs 335
agile-based methods 23	anti-pattern 24
agile-style lifecycle 25	APO modules 340
agri-business division 330	apparel manufacturer 233
agricultural 229, 241	appealing characteristics 211
agricultural clients 106	appearance 229
agricultural society 305	application 20, 25, 26, 53, 58
agriculture sector 330	application designers 128
Air Liquide America LP 335	Application Development 145, 147
algorithmic advances 231	application integration 172, 177, 178
algorithmic based systems 232	Application Interface 171, 174
allocated costs 27	application interfaces 335
allocating limited resources 212	Application Management 196
allocation of resources 346	application modules 205
allocation or recording 329	application of interface testing 175
all-time peer review 23	application of knowledge 16
alphanumeric information 110	Application Programming Interface 178
alternative energy, fuel source 305	application size 205
alternative sources 262	application specific knowledge 202, 335
alternatives 261, 264, 266, 270, 271, 273	application systems 167, 169
Amazon 336, 337	application test tools 175
American market 1	application-level integration 171
American-On-Line 337	applications 41, 42, 43, 46, 47, 48, 49, 50,
analysed data	167, 168, 169, 171, 174, 175, 176,
91, 92, 93, 94, 96, 97, 99, 101	178
analysed economic data 94, 96	applications of data mining 122
analysed ratios 101	applying improvements 26
analysis 262, 264, 265, 266, 270, 271,	appropriate business 79
275, 276, 277, 345, 348, 349	appropriate customer programs 120
analysis of clients 116	appropriate database 165
analysis of information 92	appropriate sample 201
analysis of productivity 44	appropriate techniques 354
analysis technologies 310	approximate information 264, 265
analytic functions 310	arbitrary function 362, 367
analytic hierarchy process 264, 275, 276, 277	arbitrary real number 362
	architectural idiosyncrasies 31
analytical applications 128, 137	•
analytical capabilities 315	architectural layering 24
analytical consultant 128	architecture 172, 176, 177, 178
Analytical CRM 128	area of research 359
Analytical systems 315	area of sales 62
analyze disasters 159	arm's length relationship 309

arrival of a demand 362, 369 Arrival Rate of Problems (ARP) 53 Article of Trade Wastage (AOTW) 268 articulation optimization 231	available alternatives 264 average skills 205 avoid the risks 175 awareness 197
artificial disasters 160 artificial intelligence	В
104, 105, 109, 112, 115, 117, 305 artificial intelligence application 305 artificial intelligence processes 109 artificial neural networks 281 ASAP tools 65 Ashok Leyland 337 Asia 160, 161 asphalt-based roofing materials 335 Assembler 140, 141	B2B (Business-to-Business) 336 B2C (Business to Consumer) 336 Baan 171 Baan Enterprise Decision Manager 335 backbone of a language 24 back-end system 332 backhaul 215, 216, 217, 218, 221 backhaul customers 215, 216, 217, 218 backlog 23, 242
Asset Accounting 64, 68 asset free environments 261	bad design decisions 26
association rules 125	bandwagon of adopting ERP 197
Assurance processes 27	banking and financial services 212
asynchronous messages 174	Bar code scanners 328
asynchronous system 174	bar codes 328, 340 Base Categories 39
ATM networks 134	Base Category objects 38
attitudinal approach 262	Base lining 176
attributes of the process 58	base map 164
augmentation of relevance 221	BASIS experts 69
automated acceptance tests 24	batch processes 107
automated customer relationship management	batch sizes 352, 353
309	BEA Weblogic Integrator 154
automated guided vehicles 329	behavioral aspects 312
automated storage 329	behavioral specification 144
automatic procedures 92	benchmark data 216, 221
automatic process 92	Bender's decomposition 281
automatic treatment 103	benefits 7, 8, 9, 15, 16, 18, 61, 62, 64,
automatically assessed 92	67, 71, 72, 73, 74
automatically-generated set 93	best-fit process 77
automating all activities 328	better collaboration 157
automating tasks 160	better production system 22
automation 309, 311	better standards 157
automation of business systems 172	BFSI (banking, financial services and insur-
automobile industry 20, 325	ance) 130
autonomously 335	BI application 138
autonomy 335	BI system 138
Auxiliary tools 112	BI vendors 138
availability checks 66	BICC manager 128
availability of tools 173	bid/contract development 29
available actors 79	bi-directional 324, 325

D: D 005	1 111
Big Bazaar 337	building management-support systems 92
big challenge 167, 168	building necessary interfaces 169
bigger inventories 262	building software 58
biggest driver 348	Build-to-Order (BTO 337
biggest technology headache 52	built-in integrity check 63
bill of materials 352	Bull Whip Effect 234
billing system 131	bull whip effect 234, 238, 300, 354
bills of lading 328	bureaucratic environment 21
binary vector 291	burgeoning population 122
biochemistry of proteins 307	business 1, 2, 3, 5, 6, 7, 8, 9, 10, 12, 13,
biotechnology 305	14, 15, 16, 17, 18
Blood Bank Logistic 210	business analyst 21, 128
blood bank logistics 211, 215	business and information technology worlds
Blood bank management 211	195
blood bank supply 211, 212	business applications 141
blood bank supply chain 211, 212	business case 78
blood banks 212, 222	business challenges 169
blood camps 212, 213	business computing 169
blood distribution 211, 212, 213, 224	Business constructs 78
blood donation camps 211, 213	business consultants 205
blood group 213	business continuity 160
blood management problems 213	business data 91
blood procurement 211	business decisions 97, 99, 126, 168
Blue dart 340	business environment 141, 231, 335
body of contributions 4	business environments 167
Boehm's cost of change curve 24	business goals 197
book processes 308	business inferences 124
bottleneck 138, 228	Business information system 51
bottom-up parsers 95	business innovation 195
boxed products 334	business integration 78
BPIM solutions 154	Business Intelligence (BI) 119, 120, 124, 125,
BPR and ERP customization 79	126, 129, 135, 137
Branch Managers 67	Business Intelligence Competency Centre
brand awareness 312	(BICC) 128
brand loyalty 308	business knowledge 141
branded staples 332	business logic 171, 176
break down 79	business managers' expectations 137
bringing multiple systems together 196	business method 172
British Columbia 11	business model 140, 141, 154, 156, 307
British Petroleum 9	business modeling 153, 154, 157
broad spectrum 101	business modeling standards 153
broadband 197	business needs 23, 31, 131
broken dependencies 25	business network 1, 3, 6
budget 43, 76, 77, 78, 79	business organizations 262, 304
budget cuts 172	business partner 195, 317
building block 361	business people 21
ounding block 501	ousiness people 21

business problems 128	carry and forward agents (CFA) 330
business process 63	case study 261, 263, 264
business process activities 172	cash cost levels 62
business process automation (BPA) 137	Cash Flow 324
business process design 199, 203	cash management 310
Business process integration and management	cash ratio 98
(BPIM) 154	Catastrophic Failures 159, 161
business process management suites 172	categories of customers 129
Business Process Reengineering (BPR) 44, 328	category 149, 150
business process reference models 77	category management 314
Business Process Streamlining Stage 83	CBSE based development 43
business processes 141, 153, 167, 168, 169,	Celestica 326
170, 171, 195, 196, 197, 198, 199,	cellular phone companies 333
200, 202, 203, 205	Central Blood Bank (CBB) 211, 213
business processes dynamic 41	centralized IT department 328
business requirements 20, 21, 37	centralized system 240
business sectors 40	Chain efficiency 344
Business Simulation 121	chain management technologies 340
business software system 41	chain members 240
Business Templates 37	chain model 281, 296, 298, 299
business transformation 262	chain network architecture
business value 22, 35	278, 284, 287, 301
business world 167	chain partners 226, 227
Business-2-Business (B2B) 172	chain-wide confidence 263
buyer 313, 316	challenges in EAI 172
buyer demand 354	Change Control Board 70
buyer-supplier relationship 354	Change History Analysis 69
buying side 5	change management 78, 79, 80, 81, 82, 83
	changing rapidly 160
C	changing trends 126
C++ 140, 144	channel delivery 121
CAD/CAM workstation 48	channel members 360
calculations 64	channel of distribution 274
Campaign Management software 121	channel partners 324
Campbell soup 229	channel power shift 227, 230, 241, 242
Canada 267	channel profit 230, 234, 242
Canadian provinces 11	chaotic behaviors 26
candid interchanges 11	chief data steward 128
candidate factors 80	Chief of Marketing 64
canonical representation 364	Chief Performance Officer 127
Capability Maturity Model (CMM) 44, 54	China 264, 277, 338
capital expenditure 134	chronological order 233
captured requirements 44	churn management application (CMA) 131
capturing methods 44	churn model 131
career management portal 134	Churn stage 122
career site hosting 134	CI environment 25, 30

cigarette producer 330	Collaborative CRM 128
cigarette producer 330	collaborative efforts 313
circumstances 239, 308	
clarify findings 10	collaborative filtering 310
class/methods 156	Collaborative Forecasting and Replenishment
classic BI 136	(CFAR) 335
classic work 361	Collaborative Forecasting, Planning and Re-
classical VRP 213, 217	plenishment (CFPR) 229
classical VRPB 215, 216, 217, 218	collaborative initiatives 239
classification model 123	collaborative Internet business model 70
classification of data 125	Collaborative Planning, Forecasting and Re-
classification of losses 107	plenishment (CPFR) 337
classification schema 226, 228, 241	collaborative processes 39
classification systems 116	Collaborative Product Commerce (CPC) 337
client 104, 105, 106, 107, 109, 111, 112,	collect the blood 213
113, 114, 115, 116, 117	collected data 201
client base 333	collecting knowledge 92
client consumption control 105	Collection and Distribution 213, 214
Client facilities 104, 117	collection of data 123
Client facilities technical specifications 104	combinations of modes 348
Client information 104	commentaries 104, 110, 112
clients 20	commercial customers 155
climatic parameters 106	commercial source (COTS) 42
close communication 20	Commercial Supply chains 345
closed-loop marketing strategy 129	common carrier 324
closing of accounts 71	common issues 40
Closure Rate of Problems (CRP) 53, 55	common messaging middleware 170
Cloud computing 134, 135	common risk factors 205
cloud providers 134	communicate between branches 325
clustering of data 125	communication 20, 21, 24, 29, 30, 31, 38,
code - polluting 26	226, 227, 228, 230, 231, 241
code commit 25	communication and interaction 126
code expressiveness 26	communication between partners 325
code expressivity 26	communication bottlenecks 20
Coding relationship logic 38	communication chain 24
cognitive 92, 93, 94, 95, 96, 97	communication mechanism 331
cognitive analysis 91, 94, 95, 96, 97, 98, 99	communication network 331
cognitive data 92, 94	communication parameters 333
cognitive data analysis 91, 92, 93, 94, 101	communication protocols 333
cognitive economic information systems 91	communication style 174
cognitive processes 92	communication switches 164
cognitive systems 91	communication technology 304, 305, 306,
COGS (cost of goods sold) 98	307, 308, 309, 310, 311, 314, 315,
cohesive whole 22, 25	316, 318, 319
collaboration 22, 24, 27, 35	communication technology enabled services
collaboration 324, 326, 331, 333, 340	308
collaboration/coordination 316	

communication-oriented 3, 9, 10 Company Background 62 company commercial system 105, 106, 117 company infrastructure 110 company infrastructure 110 company personnel 107 company indyments 264, 265, 266, 270 comparison matrices 270, 271 comparison of the AHP 264 competitive advantage 85, 167, 305, 306, 313 competitive battleground 313 competitive dimensions 227 competitive intelligence 305 competitive performance 304 competitive performance 304 competitive positioning 325 competitive strategy, change 305 completitive process 78 competitive strategy, change 305 completitive process 78 competitive strategy, change 305 completitive strategy, change 305 completitor supply chains 85 competitive strategy, change 305 complete business processes 169 complete workedge 174 complete product 176 complex human factors 172 complex human factors 172 complex interfaces 62, 70 complex human factors 172 complex interfaces 62, 70 complex interfaces 62, 70 complex interfaces 62, 70 component based development 43 Component based Software Engineering (CBSE) 4 Component characteristics 40, 42 component based software Engineering (CBSE) 4 Component based Software Engineering (CBSE) 4 Component based Software Engineering (Case) 4 Component based	communication technology infrastructure	component architectures 43
communication-oriented 3, 9, 10 Company Background 62 company commercial system 105, 106, 117 company database 107 company functions 77 company functions 77 company infrastructure 110 company inspectors 104 company personnel 107 comparison judgments 264, 265, 266, 270 comparison of the AHP 264 competitive advantage 85, 167, 305, 306, 313 competitive advantage 88, 167, 305, 306, 313 competitive battleground 313 competitive battleground 313 competitive intelligence 305 competitive performance 304 competitive positioning 325 competitive process 78 competitive process 78 competitive strategy, change 305 competitive strategy, change management 305 competitive strategy, change management 305 completine havior 309 complementary skills 312 complete business processes 169 complete understanding 176 complex human factors 172 complex performance 301 complex performance 302 complement based offware Engineering (CBSE) 40 component based-based ERP design 41 Component based chased ERP design 41 component based offware Engineering (CBSE) 40 component based information systems 41, 42, 43 component-based information systems 41 component-based information systems 41 component-based information systems 41 component-based information system 41 component-based information systems 41, 42, 43 component-based information systems 41, 42, 43 component-based information systems 41 component-based info	0.	*
Company Background 62 company commercial system 105, 106, 117 company database 107 company functions 77 company infrastructure 110 company personnel 107 company personnel 107 company infrastructure 110 company personnel 107 company infrastructure 110 company infrastructure 110 company infrastructure 110 company personnel 107 company infrastructure 110 company ing ments 264, 265, 266, 270 component based Software Engineering (CBSE) 40 component based-based ERP design 41 Component based-based ERP design 41 Component based cent pase (ER) design 41 Component based cent pase (ER) design 41 Component based cent pase (ER) design 41 Component based centarities 40, 42 component based centary 41 component based centary 41 component based centary 42 component based sent ER design 47 component based centary 42 component based		
company commercial system 105, 106, 117 company database 107 company functions 77 company infrastructure 110 company inspectors 104 company personnel 107 company inspectors 104 company indements 264, 265, 266, 270 comparison matrices 270, 271 comparison of the AHP 264 competitive advantage 85, 167, 305, 306, 313 competitive battleground 313 competitive battleground 313 competitive intelligence 305 competitive level 325 competitive level 325 competitive prosess 78 competitive prosess 78 competitive strategy, change 305 competitive strategy, change management 305 competitive strategy, change management 305 complete business processes 169 complete knowledge 174 complete product 176 complex human factors 172 complex interfaces 62, 70 compens based design 41 component based-based ERP design 41 component based-based ERP design 41 component characteristics 40, 42 component based-based information system 41 component-based information system 41 component-based systems 41, 42, 43 component-based design 47 component based-based ERP design 41 component based changes 41 component-based information system 41 component-based technology 49 component-based technology 49 component-based design 47 component based design 47 component-based technology 49 component-based design 47 component based design 47 component based design 47 component-based technology 49 component-based technology 49 component-based design 47 component-based design 47 components integrated 167, 188 Component based design 47 component based design 47 component-based design 47 component-based design 47 component based design 47 component-		*
company database 107 company functions 77 company finrastructure 110 company infrastructure 110 company inspectors 104 company personnel 107 company personnel 107 company personnel 107 comparison judgments 264, 265, 266, 270 comparison of the AHP 264 competitive 323, 325, 335 competitive davantage 85, 167, 305, 306, 313 competitive battleground 313 competitive dimensions 227 competitive irreligence 305 competitive logistics markets 261 competitive proscuss 78 competitive proscuss 78 competitive strategy, change 305 competitive strategy, change management 305 competitive strategy, change management 305 completitor's behavior 195 complaint behavior 309 complementary skills 312 complete business processes 169 complete knowledge 174 complex product 176 complex numbar factors 172 complex interfaces 62, 70 compens based design 41 component based information system 41 component-based information system 41 component-based design 47 component based information system 41 component-based information system 41 component-based information system 41 component-based design 47 component based design 47 component-based technology 49 Components based design 47 component based information system 41 component-based information system 41 component based design 47 component based technology 49 Component based technology 49 Component based technology 49 Component based design 47 component based design 47 component based technology 49 Component based technology 49 Component based technology 49 Component based design 47 component based technology 49 Component based technology 49 Component based technology 49 Component based technology 49 Component based design 47 component based technology 49 Component based technology 49 Component based technol	^ · ·	•
company functions 77 company infrastructure 110 company infrastructure 110 company inspectors 104 company personnel 107 comparison judgments 264, 265, 266, 270 comparison of the AHP 264 competitive 323, 325, 335 competitive advantage 85, 167, 305, 306, 313 competitive dimensions 227 competitive intelligence 305 competitive level 325 competitive performance 304 competitive process 78 competitive strategy, change 305 competitive strategy, change management 305 competitive strategy, change management 305 competitive strategy, change management 305 competitor supply chains 85 competitor supply chains 85 competitor supply chains 85 compete metary skills 312 complete business processes 169 complete knowledge 174 complex computer networks 335 complex neuronment 167 complex technology 76, 233 compet design 41 Component based design 41 component based information system 41 component-based design 41 component-based information system 41 component-based design 41 component facilities 360 component based information system 41 component-based design 47 Computer data analysis 92 computer resources 231 computer resources 231 computer resources		
company infrastructure 110 company inspectors 104 company personnel 107 comparison judgments 264, 265, 266, 270 comparison matrices 270, 271 comparison of the AHP 264 competitive advantage 85, 167, 305, 306, 313 competitive dimensions 227 competitive battleground 313 competitive dimensions 227 competitive intelligence 305 competitive level 325 competitive logistics markets 261 competitive performance 304 competitive process 78 competitive strategy, change 305 competitivels strategy, change management 305 competitivels will 312 complete business processes 169 complete knowledge 174 complex numan factors 172 complex numan factors 172 complex numan factors 172 complex personnel 107 component facilities 360 component pased information system 41 component-based information system 41 components based design 47 Components integrated 167, 168 Components integrated 167, 168 Components bared design 47 components based design 47 components based design 47 components integrated 167, 168 Components based design 47 components based design 47 computer integrated 167 296, 297 computer data analy		
company inspectors 104 company personnel 107 comparison judgments 264, 265, 266, 270 comparison matrices 270, 271 comparison of the AHP 264 competitive 323, 325, 335 competitive advantage 85, 167, 305, 306, 313 competitive dimensions 227 competitive era 120 competitive level 325 competitive level 325 competitive persormene 304 competitive process 78 competitive process 78 competitive strategy, change and sometitive strategy, change management 50cmpetitive strategy, change management 50cmpetitive strategy, change 174 complete business processes 169 complete business processes 169 complete understanding 176 complex numan factors 172 complex numan factors 172 complex technology 76, 233 component based design 47 components based design 47 comp	* *	
company personnel 107 comparison judgments 264, 265, 266, 270 comparison matrices 270, 271 comparison of the AHP 264 competitive 323, 325, 335 competitive davantage 85, 167, 305, 306, 313 competitive battleground 313 competitive battleground 313 competitive intelligence 305 competitive era 120 competitive level 325 competitive level 325 competitive performance 304 competitive process 78 competitive process 78 competitive strategy, change management 305 competitive strategy, change management 305 completitive strategy, change management 305 completitive supply chains 85 competitor's behavior 309 complementary skills 312 complete business processes 169 complete workledge 174 complete understanding 176 complex numan factors 172 complex numan factors 172 complex numan factors 172 complex technology 76, 233 component-based information system 41 component-based design 47 component-based design 47 Components based design 47 Compone	1 2	*
comparison judgments 264, 265, 266, 270 comparison matrices 270, 271 comparison of the AHP 264 competitive 323, 325, 335 competitive advantage 85, 167, 305, 306, 313 competitive battleground 313 competitive teat 120 competitive intelligence 305 competitive logistics markets 261 competitive performance 304 competitive process 78 competitive strategy, change management 305 competitive strategy, change management 305 completitive strategy, change management 305 completitive strategy, change management 305 completitive bavior 309 complete understanding 176 complete understanding 176 complex even real logistics problems 231 complex technology 49 component-based information system 41 component-based information system 41 component-based information system 41 component-based information system 41 component-based systems 41, 42, 43 component-based technology 49 components based design 47 Components based design 47 Components based design 47 Component-based information system 41 component-based information system 41 component-based information system 41 component-based information system 41 component-based technology 49 Components based design 47 Components based design 47 Components based design 47 Component-based technology 49 Component-based information system 41 component-based technology 49 Component-based technology 49 Components based design 47 Component-based technology 49 Component-based information system 41 component-based technology 49 Components based design 47 Component-based designed 47 Components integrated 167, 168 Component-based information system 41 component-based logistic spread to component-based lechnology 49 Components integrated 167, 168 Components integrated	2 7 2	
comparison matrices 270, 271 comparison of the AHP 264 competitive 323, 325, 335 competitive advantage 85, 167, 305, 306, 313 competitive battleground 313 competitive era 120 competitive era 120 competitive level 325 competitive logistics markets 261 competitive prossure 197 competitive strategy, change 305 competitive strategy, change management 305 complaint behavior 309 complete business processes 169 complete understanding 176 complex normal afactors 172 complex normal afactors 172 complex technology 76, 233 component-based technology 49 Components based design 47 Components integrated 167, 168 Components integrated 167, 168 Components integrated 167, 168 Components based design 47 Components integrated 167, 168 Components based design 47 Components based design 47 Components based design 47 Components integrated 167, 168 Components integrated	2 7 2	
comparison of the AHP 264 competitive 323, 325, 335 competitive advantage 85, 167, 305, 306, 313 competitive battleground 313 competitive dimensions 227 competitive intelligence 305 competitive level 325 competitive performance 304 competitive performance 304 competitive process 78 competitive strategy, change annagement 305 competitive strategy, change management 305 competitive strategy, change management 305 competitive strategy, change management 305 complementary skills 312 complete knowledge 174 complex environment 167 complex environment 167 complex numan factors 172 complex numan factors 172 complex numan factors 172 complex numan factors 172 complex environment 167 complex numan factors 172 complex environment 233 compet defenction Algorithm 217, 221 components based design 47 Components integrated 167, 168 Computer Application Software 155 computer analysis 92 computer data analysis 92 computer lata recognition equipment 325 Computer lata recognition equipment 325 computer systems 161, 335 computer systems 161, 335 computer-based logistics systems 231 computer-based logistics systems 231 computer-to-computer exchange 327 computerive dode 230 computer-to-computer exchange 327 computer systems 161, 335 computer-based logistics systems 231 computer-based logistics systems 231 computer-based logistics systems 231 computer-based logistics systems 231 computer systems 161, 335 comp	, · · · ·	- · · · · · · · · · · · · · · · · · · ·
competitive 323, 325, 335 competitive advantage 85, 167, 305, 306, 313 competitive battleground 313 competitive dimensions 227 competitive era 120 competitive intelligence 305 competitive logistics markets 261 competitive performance 304 competitive preformance 304 competitive strategy, change 305 competitive strategy bid 29 competitor supply chains 85 competitor's behavior 195 complaint behavior 309 complete business processes 169 complete business processes 169 complete understanding 176 complex computer networks 335 complex environment 167 complex numan factors 172 complex numan factors 172 complex elonology 76, 233 Components based design 47 Components integrated 167, 168 Competitive proces of computational lidependent Model (CIM) 141 computational Independent Model (CIM) 141 computational Independent Model (CIM) 141 computational results 211 compute 207 Computer Application Software 155 computer staregy, chade are surfactor Software 155 computer staregy, chade	*	
competitive advantage 85, 167, 305, 306, 313 competitive battleground 313 competitive dimensions 227 competitive era 120 competitive intelligence 305 competitive level 325 competitive logistics markets 261 competitive performance 304 competitive process 78 competitive strategy, change 305 competitive strategy, change amanagement 305 competitive strategy, change 305 competitive strategy, change 305 competitive strategy, change 305 competitive beavior 195 complaint behavior 309 complete business processes 169 complete understanding 176 complex complex environment 167 complex product 172 complex interfaces 62, 70 complex product real polistics problems 231 competitive admensions 227 competitive dimensions 227 compete deficit Algorithm 217, 221 composite Genetic Algorithm 217, 221 composite Genetic Algorithm 217, 221 competensive inventory visibility 64 computational leffort 296, 297 Computational Independent Model (CIM) 141 computational results 211 computer data analysis 92 computer largustics 92 computer resources 231 computer resources 231 computer systems 161, 335 computer-aided software engineering (CASE) 43 computer-based logistics systems 231 computerization 159 computerization 159 computerization 159 computer resources 231 computer-aided software engineering (CASE) computer application Software 155 computer accognition equipment 325 computer resources 231 computer systems 161, 335 computer-aided software engineering (CASE) computer-aided software e	<u>^</u>	· · · · · · · · · · · · · · · · · · ·
competitive battleground 313 competitive dimensions 227 competitive dimensions 227 competitive intelligence 305 competitive level 325 competitive level 325 competitive performance 304 competitive performance 304 competitive process 78 competitive strategy, change anangement 305 competitive strategy, change management 305 competitive's behavior 195 completitor's behavior 195 complete knowledge 174 complete product 176 complex eventuals 315 complex environment 167 complex eventuals 211 computational Independent Model (CIM) 141 computational Imit 297 Computational time 297 Computer Application Software 155 computer code 230 computer data analysis 92 computer hardware 41 computer linguistics 92 computer resources 231 computer systems 161, 335 computer systems 161, 335 computer based logistics systems 231 computer product 176 complex environment 167 complex environment 167 complex product 172 complex interfaces 62, 70 complex linguistics problems 231 complex technology 76, 233 Composite Genetic Algorithm 217, 221 comprehensive inventory visibility 64 computational leffort 296, 297 Computational Independent Model (CIM) 141 computational results 211 computer Application Software 155 computer data analysis 92 computer linguistics 92 computer linguistics 92 computer systems 161, 335 computer-saded software engineering (CASE) 43 computer-based logistics systems 231 computer data analysis 92 computer systems 161, 335 computer-saded software engineering (CASE) computer-saded software engi	<u>^</u>	÷
competitive dimensions 227 competitive era 120 competitive intelligence 305 competitive logistics markets 261 competitive performance 304 competitive proformance 304 competitive prositioning 325 competitive process 78 competitive strategy, change 305 competitively bid 29 competitively bid 29 competitive's behavior 195 completions behavior 309 complete business processes 169 complete understanding 176 complex computer networks 335 complex real logistics problems 231 complex technology 76, 233 competitive dimensions 227 competitive inventory visibility 64 computational effort 296, 297 Computational Independent Model (CIM) 141 computational results 211 computational Independent Model (CIM) 141 computational results 211 computer again and results 211 computer data analysis 92 computer hardware 41 computer hardware 41 computer hardware 41 computer resources 231 computer systems 161, 335 computer-saled software engineering (CASE) 43 computer-based logistics systems 231 computer-to-computer exchange 327 computer gradied software engineering (CASE) computer-to-computer exchange 327 computer product 176 competitive strategy, change management 305 computer hardware 41 computer data analysis 92 computer lata analysis 92 computer lata analysis 92 computer sevence 231 computer hardware 41 computer sevences 231 computer hardware 41 computer sevences 231 computer hardware 41 computer sevences 231 computer seve	· -	÷
competitive era 120 competitive intelligence 305 competitive intelligence 305 competitive level 325 competitive logistics markets 261 competitive performance 304 competitive performance 304 competitive performance 304 competitive positioning 325 competitive pressure 197 Competitive process 78 competitive strategy, change 305 competitive strategy, change management 305 competitive strategy, change 305 competitive strategy, change management 305 competitive strategy, change and 305 competitive strategy, change management 305 competitive strategy, change and 305 competitive strategy, change 305 computer linguistics 92 computer linguistics 92 computer resources 231 computer systems 161, 335 computer-aided software engineering (CASE) 43 computer-based logistics systems 231 computer-based logistics systems 231 computerized model 232 computerized model 232 computerized model 232 computer and analysis 92 computer linguistics 92 computer resources 231 computer systems 161, 335 computer and analysis 92 computer linguistics 92 computer linguistics 92 computer linguistics 92 computer linguistics 92 computer systems 161, 335 computer and analysis 92 computer data recognition equipment 325 computer systems 161, 335 computer systems 161, 335 computer and analysis 92 computer data recognition equipment 325 computer data recognition equipment 325 computer data recognition software engineering (CASE) computer analysis 92 compu	÷	· ·
competitive intelligence 305 competitive level 325 competitive logistics markets 261 competitive performance 304 competitive performance 304 competitive pressure 197 Competitive process 78 competitive strategy, change 305 competitive strategy, change management 305 competitive strategy, change 305 competitive strategy, change management 305 competitive strategy, change and 305 competitive strategy, change 305 computer linguistics 92 computer resources 231 computer systems 161, 335 computer-aided software engineering (CASE) 43 computer-based logistics systems 231 computer-isade model 232 computerized model 232 computerized model 232 computerized model 232 computer systems 231 computer-aided software engineering (CASE) complete understanding 176 computer-to-computer exchange 327 computer jarded software engineering (CASE) computer jarded	*	1
competitive level 325 competitive logistics markets 261 competitive performance 304 competitive performance 304 competitive positioning 325 competitive pressure 197 Competitive process 78 competitive strategy, change 305 competitive strategy, change management 305 competitively bid 29 competitive supply chains 85 competitor's behavior 195 complementary skills 312 complete business processes 169 complete knowledge 174 complete understanding 176 complete understanding 176 complex computer networks 335 complex interfaces 62, 70 complex complex technology 76, 233 competational results 211 computational results 211 computational results 211 computational results 211 computational results 211 computer 297 Computer Application Software 155 computer data analysis 92 computer hardware 41 computer linguistics 92 computer resources 231 computer systems 161, 335 computer-aided software engineering (CASE) 43 computer-based logistics systems 231 computerized model 232 computerized model 232 computer networks 335 computer networks 335 computing platform 141, 142, 145, 156 concept of marketing 120 concept of marketing 120 conceptual changes 168 conceptual model 144, 156 Conceptualizing 1	*	
competitive logistics markets 261 competitive performance 304 competitive performance 304 competitive positioning 325 competitive pressure 197 Competitive process 78 competitive strategy, change 305 competitive strategy, change management 305 competitive strategy, change 305 computer hardware 41 computer systems 161, 335 computer systems 161, 335 computer-aided software engineering (CASE) 43 computer-based logistics systems 231 computer and logistics systems 231 computerization 159 computer and analysis 92 computer lata analysis 92 computer systems 41 computer systems 161, 335 computer systems 161, 335 computer-aided software engineering (CASE) 43 computer-based logistics systems 231 computerization 159 computer systems 161, 335 computer-based logistics systems 231 computer systems 161, 335 computer-based logistics systems 231 computer systems 161, 335 computer-based logistics systems 231 computer systems 161, 325 computer-aided software engineering (CASE) 43 computer-based logistics systems 231 computer systems 161, 335 computer-based logistics systems 231 computer systems 161, 335 computer-aided software engineering (CASE) 43 computer-based logistics systems 231 computer-based logistics systems 231 computer-based logistics systems 231 computer such analysis 92 computer such analysis 92 computer such analysis 92 computer such analysis 92 computer s	· •	
competitive performance 304	<u>^</u>	•
competitive positioning 325 competitive pressure 197 Competitive process 78 competitive strategy, change 305 competitive strategy, change annagement 305 competitive strategy, change management 305 competitive strategy, change annagement 305 competitive strategy, change 305 computer larguagition equipment 325 computer linguistics 92 computer resources 231 computer systems 161, 335 computer-aided software engineering (CASE) 43 computer-based logistics systems 231 computer systems 161, 325 computer-aided software engineering (CASE) computer-based logistics systems 231 computerization 159 computer recomputer exchange 327 computer ata analysis 92 computer data analysis 92 computer systems 41 computer systems 161, 335 computer-aided software engineering (CASE) computer-based logistics systems 231 computerization 159 computerization 159 computer resources 231 computer systems 161, 325 computer-aided software engineering (CASE) computer-based logistics systems 231 computer-based logistics systems 231 computer-based logistics systems 231 computer-aided software engineering (CASE) computer-aided software engin	· ·	<u>^</u>
competitive pressure 197 Competitive process 78 competitive strategy, change 305 competitive strategy, change management 305 competitive strategy, change management 305 competitively bid 29 competitor's behavior 195 complaint behavior 309 complete business processes 169 complete knowledge 174 complete product 176 complete understanding 176 complete understanding 176 complex computer networks 335 complex environment 167 complex human factors 172 complex real logistics problems 231 complex technology 76, 233 computer data analysis 92 computer hardware 41 computer linguistics 92 computer resources 231 computer systems 161, 335 computer-aided software engineering (CASE) 43 computer-based logistics systems 231 computerization 159 computer exchange 327 computer atta analysis 92 computer hardware 41 computer linguistics 92 computer resources 231 computer systems 161, 335 computer-aided software engineering (CASE) 43 computer-based logistics systems 231 computer-based logistics systems 231 computer-to-computer exchange 327 computer aided software engineering (CASE) computer-aided softwa	* *	
Competitive process 78 competitive strategy, change 305 competitive strategy, change management 305 competitive strategy, change management 305 competitively bid 29 competitor's behavior 195 complaint behavior 309 complete business processes 169 complete knowledge 174 complete product 176 complete understanding 176 complex computer networks 335 complex environment 167 complex human factors 172 complex real logistics problems 231 complex technology 76, 233 computer data recognition equipment 325 Computer hardware 41 computer linguistics 92 computer resources 231 computer systems 161, 335 computer-aided software engineering (CASE) 43 computer-based logistics systems 231 computerized model 232 computerization 159 computer data recognition equipment 325 computer linguistics 92 computer systems 161, 335 computer-aided software engineering (CASE) computer-aided software engineering (CASE) computer-based logistics systems 231 computer-based logistics systems 231 computer-to-computer exchange 327 computer garchitecture 126 computer garchitecture 126 concept of marketing 120 concept pushes 359 conceptual changes 168 conceptual model 144, 156 Conceptualizing 1	· · ·	<u>^</u>
competitive strategy, change 305 competitive strategy, change management 305 competitively bid 29 competitor supply chains 85 competitor's behavior 195 complaint behavior 309 complete business processes 169 complete knowledge 174 complete understanding 176 complete understanding 176 complex computer networks 335 complex environment 167 complex human factors 172 complex real logistics problems 231 complex technology 76, 233 Computer hardware 41 computer linguistics 92 computer resources 231 computer systems 161, 335 computer-aided software engineering (CASE) 43 computer-based logistics systems 231 computerization 159 computerization 159 computer exchange 327 computing architecture 126 concept of marketing 120 concept pushes 359 conceptual changes 168 conceptual model 144, 156 Conceptualizing 1	•	- · · · · · · · · · · · · · · · · · · ·
competitive strategy, change management 305 competitively bid 29 competitor supply chains 85 competitor's behavior 195 complementary skills 312 complete business processes 169 complete knowledge 174 complete understanding 176 complex computer networks 335 complex environment 167 complex human factors 172 complex real logistics problems 231 complex technology 76, 233 computer linguistics 92 computer resources 231 computer resources 231 computer-aided software engineering (CASE) 43 computer-based logistics systems 231 computerized model 232 computerized model 232 computer-to-computer exchange 327 computing architecture 126 concept of marketing 120 concept pushes 359 conceptual changes 168 conceptual model 144, 156 Conceptualizing 1		· · · · · · · · · · · · · · · · · · ·
competitively bid 29 competitor supply chains 85 competitor's behavior 195 complaint behavior 309 complete business processes 169 complete knowledge 174 complete product 176 complete understanding 176 complex computer networks 335 complex environment 167 complex environment 167 complex interfaces 62, 70 complex real logistics problems 231 conceptual model 144, 156 complex technology 76, 233 computer resources 231 computer resources 231 computer resources 231 computer systems 161, 335 computer-aided software engineering (CASE) 43 computer-based logistics systems 231 computerized model 232 computerization 159 computer exchange 327 computing architecture 126 computing platform 141, 142, 145, 156 concept gushes 359 conceptual changes 168 conceptual model 144, 156 Conceptualizing 1	ž – – – – – – – – – – – – – – – – – – –	•
competitor supply chains 85 competitor's behavior 195 complaint behavior 309 complementary skills 312 complete business processes 169 complete knowledge 174 complete product 176 complete understanding 176 complex computer networks 335 complex environment 167 complex interfaces 62, 70 complex real logistics problems 231 complex etchnology 76, 233 computer systems 161, 335 computer-aided software engineering (CASE) 43 computer-based logistics systems 231 computerised model 232 computerization 159 computer-to-computer exchange 327 computing architecture 126 concept of marketing 120 concept pushes 359 concept pushes 359 conceptual changes 168 conceptual model 144, 156 Conceptualizing 1		· -
completitor's behavior 195 complaint behavior 309 complementary skills 312 complete business processes 169 complete knowledge 174 complete product 176 complete understanding 176 complex computer networks 335 complex environment 167 complex human factors 172 complex interfaces 62, 70 complex technology 76, 233 computer-aided software engineering (CASE) 43 computer-based logistics systems 231 computerised model 232 computerization 159 computer-to-computer exchange 327 computing architecture 126 concept of marketing 120 concept pushes 359 concept pushes 359 conceptual changes 168 conceptual model 144, 156 Conceptualizing 1		<u>^</u>
complaint behavior 309 complementary skills 312 complete business processes 169 complete knowledge 174 complete product 176 complete understanding 176 complex computer networks 335 complex environment 167 complex human factors 172 complex interfaces 62, 70 complex real logistics problems 231 complex diagrams 43 computer-based logistics systems 231 computerized model 232 computerization 159 computer exchange 327 computing architecture 126 concept of marketing 120 concept of marketing 120 concept pushes 359 conceptual changes 168 conceptual model 144, 156 Conceptualizing 1	2 2 7	* *
complementary skills 312 computer-based logistics systems 231 complete business processes 169 computerised model 232 computer knowledge 174 computer product 176 computer vechange 327 complete understanding 176 computer networks 335 computer networks 335 computer networks 335 complex environment 167 concept of marketing 120 complex human factors 172 concept pushes 359 complex interfaces 62, 70 conceptual changes 168 complex real logistics problems 231 conceptual model 144, 156 conceptual model 144, 156 conceptualizing 1	<u>^</u>	
complete business processes 169 complete knowledge 174 complete product 176 complete understanding 176 complex computer networks 335 complex environment 167 complex human factors 172 complex interfaces 62, 70 complex real logistics problems 231 complex technology 76, 233 computerised model 232 computerization 159 computer exchange 327 computing architecture 126 computing platform 141, 142, 145, 156 concept of marketing 120 concept pushes 359 conceptual changes 168 conceptual model 144, 156 Conceptualizing 1	<u>^</u>	computer-based logistics systems 231
complete knowledge 174 complete product 176 complete understanding 176 complex computer networks 335 complex environment 167 complex human factors 172 complex interfaces 62, 70 complex real logistics problems 231 complex technology 76, 233 computer interfaces 62, 70 complex technology 76, 233 computer interfaces 62, 70 computer exchange 327 computing architecture 126 computing platform 141, 142, 145, 156 concept of marketing 120 concept pushes 359 conceptual changes 168 conceptual model 144, 156 Conceptualizing 1	*	1
complete product 176 computer exchange 327 complete understanding 176 computing architecture 126 computer networks 335 computing platform 141, 142, 145, 156 complex environment 167 concept of marketing 120 concept pushes 359 complex interfaces 62, 70 conceptual changes 168 complex real logistics problems 231 conceptual model 144, 156 complex technology 76, 233 Conceptualizing 1		<u>^</u>
complete understanding 176 complex computer networks 335 complex environment 167 complex human factors 172 complex interfaces 62, 70 complex real logistics problems 231 complex technology 76, 233 complex interfaces 62, 70 conceptual model 144, 156 Conceptualizing 1	1	1
complex computer networks 335 complex environment 167 complex human factors 172 complex interfaces 62, 70 complex real logistics problems 231 complex technology 76, 233 computing platform 141, 142, 145, 156 concept of marketing 120 concept pushes 359 conceptual changes 168 conceptual model 144, 156 Conceptualizing 1		· · · · · · · · · · · · · · · · · · ·
complex environment 167 concept of marketing 120 complex human factors 172 concept pushes 359 complex interfaces 62, 70 conceptual changes 168 complex real logistics problems 231 conceptual model 144, 156 complex technology 76, 233 Conceptualizing 1		1 0
complex human factors 172 concept pushes 359 complex interfaces 62, 70 conceptual changes 168 complex real logistics problems 231 conceptual model 144, 156 complex technology 76, 233 Conceptualizing 1		
complex interfaces 62, 70 conceptual changes 168 complex real logistics problems 231 conceptual model 144, 156 complex technology 76, 233 Conceptualizing 1	*	
complex real logistics problems 231 conceptual model 144, 156 complex technology 76, 233 Conceptualizing 1		
complex technology 76, 233 Conceptualizing 1	•	· ·
		•
complexity level 2, 6, 7, 8, 9, 12, 14 concern's operations 126	complexity level 2, 6, 7, 8, 9, 12, 14	concern's operations 126
complexity model 1, 5, 6, 7, 15, 16 concerned module 69		
compliant without full integration 196 concession force 264		
	component 170, 172, 173, 174, 176	concrete feedback 23, 31
, 170 170 171 171 171	component 1/0, 1/2, 1/3, 1/4, 1/6	concrete feedback 23, 31

conditional probability 362	continuous replenishment program (CRP)
conditions 229, 238, 239, 240, 241, 242,	233, 240
346, 354	continuous stream of changes 204
conduct analysis 101	contract carrier 324
conducted properly 57	contract data 110
·	
configuration management 56, 57, 337	contract development 29
configuration optimization 280, 282	Contract information 104
configuration parameters 172	control investigation 108
configuration screens 77	controversial activity 14
confirmation of dispatch 328	convenient time 11
conflicting criteria 263	conventional BI market 137
conflicting goals 312	cooperating components 41
conflicts are identified 43	cooperation 1, 2, 3, 4, 10, 19
Connected Enterprise Architecture (CEA) 121	cooperation 227, 230, 246
Connectivity / Networks 176	cooperative agreements 226, 228, 229
consensus 3, 11, 14, 15	coordinating the computer applications 169
consequent rework 28	coordination 1, 2, 3, 4, 5, 6, 7, 8, 9, 10,
consignment agents 66	11, 12, 13, 14, 15, 16, 17, 18, 19
consistency of learning 92	coordination complexity
consolidation of producers 309	1, 2, 5, 6, 7, 8, 9, 14, 15
constant change 141	coordination mechanism 3, 7, 10, 16
constraining the domain 150	coordination of decisions 172
constraint 142, 143, 158	coordination results 274
constructed infrastructure 160	core business 305
construction and engineering resources 165	core competency 305, 306
consultants 81, 83, 85	core team 65, 68, 69, 70
consultation partner 65	corporate 305, 307
Consulting vendors 83	corporate entities 172
consumer 358	corporate mainframe 47
	*
consumer professors 210	Corporate Manufacturing (CorpMan) 48
consumer preferences 310	Corporate Manufacturing Centre 48
consumer value 313	corporate marvel 195
consumption 103, 104, 105, 106, 111, 112,	corporate obsession 325
113, 114, 115, 116, 117	corporate website 329
Consumption information 110	CorporateDatabase 48
consumption patterns 105, 112, 113	CorporateDesignDatabase (CorpDB) 48
contact for data 325	CorporateGateway 48
context attributes 16	corporates 119, 120, 123, 128, 138
continuous basis 57	corporation 345, 348, 358, 359
continuous changes 140	correct solution 24
continuous improvement 23, 43	corrective actions 318
continuous innovation 307	corrective maintenance costs 268
Continuous Integration	correlation 55, 56, 57
25, 27, 30, 32, 33, 34	corresponding criterion 272
continuous replenishment 122	cost based competition 308
Continuous Replenishment (CR) 228	cost based sub models 352
1 - (- 9	

cost data 352, 353	critical parts 270
cost effectiveness 211	critical success 76, 77, 78, 79, 80, 81, 85,
cost feasibility 199	87, 89
cost minimization 230, 241, 310	Critical Success Factor (CSF) 79
cost of change curve 24, 25	critical task 169
cost parameters 361, 365, 366	CRM users 44, 46
cost rate 365, 366, 372	CRM-based business strategies 120
cost reduction 262, 310, 318	CRM-IS (Cold Rolling Mill -Information Sys
cost saving practices 308	tem) 70
cost savings 239, 240, 243	cross matching 211
cost structure 358, 365, 366, 372	cross-docks 324
Cost visibility 71	Cross-enterprise process level 172, 176
Cost-conscious decision making 71	Cross-enterprise process level EAI 172
cost-effective 329, 332	cross-functional 63
Costing 64, 68	cross-functional processes 325
costly business inefficiencies 327	cross-functional projects 308
COTs (commercial-off-the-shelf components)	cross-industry effort 336
43	cross-institutional knowledge 306
counterpart 1, 2	cross-organization ERP implementation 1
country 159, 161	cross-organizational 1, 2, 3, 4, 5, 6, 7, 8,
course of execution 231	9, 10, 11, 12, 14, 15, 16, 17
CPC capabilities 337	Cross-organizational Coordination 1
CPC solution 337, 339	cross-platform compatibility 155
CPC tools 337	Cross-sell 122, 131
CR (current ratio) 98	crucial facilities 164
craft-based production 306	crucial issues 53
create knowledge 307	CRUD (create, read, write, delete) 144
creative forgetting 306	culinary products 332
creative technologies 42	cultural changes 27
creativity 305, 307	cultural problems 27
credibility 63	cultural resources 161
credit balance 131	cumulative benefit 72
credit card 135	cumulative contribution 308
credit notes 70	Custom Application Development & Mainte-
credit status 70	nance (CADM) 196
CRISP, the CRoss Industry Standard Process	custom-build systems 70
123	Customer 346, 347
criteria 261, 262, 263, 264, 266, 267, 268,	customer accounts 309
269, 270, 271, 272, 274, 275, 277	Customer acquisition 131
criterion 262, 263, 264, 265, 266, 267, 270	Customer Analytical Software 121
, 271, 272	customer buying behavior 331
criterion levels 94	customer centric process 312
criterions 267	customer complain data 309
critical factors 79, 80, 86, 87	customer demands 317
critical financial and operating category 313	customer end 238
critical impact 211	

customer intelligence 121, 122, 131, 132, 133, 134 Customer life cycle (CLC) 122 Customer loyalty 129 customer management 66 Customer Management System (CMS) 168 customer needs 41, 347 Customer order cycle 346 customer orders 346, 347 customer outstanding and realizations 66 customer personalization 309 customer preferences 314	customer-satisfying behaviors 312 customization 20, 21, 22, 26, 27, 28, 29, 30, 31, 34, 35, 36, 37, 39, 58 customization 328, 340 customized code 29 Customizing an ERP 28 customizing screens 77 custom-made ERP systems 49 cycle time 58 Cycle View 346 cycle-time reduction 325
customer relationship 304, 305, 306, 307,	D
309, 310, 312, 313, 314, 317, 318, 319 customer relationship building 305 customer relationship management (CRM) 40, 43, 119, 120, 130, 304, 305, 307, 309, 316, 331 Customer Relationship Marketing 120 customer requirement through retailers 228 customer requirement through retailers 228 customer requirements 270, 276 Customer retention 131 customer satisfaction 309, 310, 312, 313, 316, 317 customer selectivity 120 customer service 211, 221, 306, 312, 313, 314, 316, 345, 353, 355 Customer service and support (CSS) 128 Customer service helpdesk 121 customer service level 233, 229 customer services 305 Customer touch points 121 customer-centric 63 customer-centric knowledge 310 customer-desired reports 70 customer-distribution center assignment 352	daily project builds 25 Daimler-Chrysler 155 damage in transit 308 dams 161, 162 Danish companies 4 data 325, 327, 328, 330, 331, 334, 335, 336, 337, 340, 342 data analysed 97 data base management 215 data capture 53, 55 data centers 134 data collection 262 data cube 124, 125, 130 data –driven approach 119 data exploitation stage 76, 82, 85 data hub 169 data infrastructure 137 data loading 173 data mart system 179 data migration 82, 172 data mining 103, 106, 123, 125, 111, 112 113, 133, 119, 121, 122, 170, 122, 123, 125, 178, 116, 133, 117, 119, 121 data mining principles 121 Data mining software 121 data mining tools 331
customers 210, 211, 212, 215, 216, 217, 218, 220, 221, 227, 229, 230, 248,	data possessed (analysed) 96 data redundancy 327
305, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 358,	data rich 119
359, 360	data schemas 128 data sets 216, 217, 221
customers' sales 328	data storage 119

data stores 128	deliver products 279
data visualization techniques 137	delivery 210, 211, 212, 213, 216, 217,
Data warehouse 119, 124	218, 221, 222, 223, 224, 263, 267
data warehouse 123, 124, 127, 128, 179, 344	delivery instructions 339
data warehouse administrator 124	delivery lead times 312
data warehouses 124, 128	delivery scheme 324
data warehousing 103, 11, 112, 117, 310	delivery system 212
database server 47	Dell computers 228, 345
database systems 309	demand constraints 285, 300
Data-level EAI 171	demand data 353
Datamart 107, 117	demand fluctuations 20, 355
Datamarts creation 107	demand forecasting 169
datawarehousing 119	demand forecasts 317
date modules 25	demand led management 314
date of purchase 334	Demand Management System (DMS) 315
day care facilities 164	demand scenarios 292, 295
day-to-day centralized operations 326	demand signal processing 238
day-to-day transactions 325	demand signals 324
decentralized decisions 240	demand variations 354
decision alternatives 270, 271	demands 360, 367, 369, 373
decision criteria 263, 266, 270, 312	demand-supply 332
decision maker 's assessment 265	Deming award 331
decision makers (DM) 2, 7, 26, 53, 63, 76, 85,	demonstrates 233, 240
261, 263, 264, 265, 266, 267, 270, 2	Deputy Managing Director 65, 68
75, 310	derivation rules 143
decision problem 266	describing enterprise activity 79
decision rights 229	design 78, 195, 197, 198, 199, 200, 201,
decision rules 354, 355	203, 204, 205, 206
decision support application 335	design and development 173
Decision Support System (DSS) 104, 116,	design phase 24
233, 305	design specific modules 109
decision support tool 210, 221	design technique 24
decision trees 125, 131, 133	designated purpose 173
decision variables 262, 264, 270	designing product 279
decision-centric process 137	destination account 37
decision-makers 96, 230	destructive phenomena 159
decision-making 325, 327, 330, 335	detailed identification 99
decision-making issues 283	detailed semantic analysis 92
decision-making process 97, 100, 123	detect similarities 114
declining stage 122	Deterministic analytical models 351, 360
dedicated training server 65, 69	deterministic demand 351, 360
defensive relationship marketing 309	deterministic mathematical programming ap-
defining dimensions 94	proach 353
degree of membership 265	deterministic mixed integer 281
degrees of possibility 266, 267, 270, 271	develop components 43, 49
delay processes 319	develop the tools 164

developed countries 161	directed association 146
developed country 161	directions 261
developed software product 59	Disaster Classification system 159, 161
developers 21, 22, 23, 24, 25, 27, 29, 31,	Disaster forecast 162
140, 144, 152, 155, 156, 170, 171,	Disaster management 160, 161
174	disasters 159, 160, 161, 162, 163, 164,
developing body 77	165, 166
developing enterprise systems 36	Disconnected enterprise systems 327
Developing quality 167	discount rate 98, 99
developing wrong functions 204	discounted ordering 234
development 304, 305, 306, 307, 308, 309,	discourse transformation 4
310, 315, 316, 317, 318	discrete-time representation 240
development cycle 176	Discretized values 113
development environment 27	disruptive creativity 307
development of standardized tools 278	distinct categories 332
development strategy 337	distinct eigen values 363
development tasks 31	distinction of techniques 23
development team 22, 23, 24, 27, 30	distribute blood 213
developmental and marketing activities 309	distributed manufacturing system 47
Device Oriented 176	distributed real-time planning 40
DHL services 120	distributed systems 42
diagonal elements 363	distribution 211, 212, 213, 214, 215, 217,
diagonal matrix 363	221, 222, 224, 345, 348, 350, 351,
dialectic perspective 4, 19	352, 353, 354, 355, 356, 359, 360,
dicretized information 106	361, 362, 363, 364, 366, 367, 368,
dictaphone facilities 121	369, 370, 372, 373
different business processes 202	distribution branches 66
different choices 263	distribution centers 324, 325
different information types 116	distribution cost 229, 242
different levels of testing 176	Distribution facility blemishes 104
different mode of operation 228	distribution lead-time 333
different organization 160, 161	distribution network 332
different parameters 372	Distribution Network Configuration 324
different programming environments 156	Distribution Strategy 324
Different Teams 66	distribution technology 305
difficulties 20, 26	distributor nodes 365
digital age 305	distributor of the ERP 28
digital arena 305	diverse stakeholders 327
Digital Equipment Corporation 281, 301	diversified conglomerates 330
digital imagery 162	dividing potential factors 79
dimensions and scope 278	docking personnel 340
direct access 1	document driven process 27
direct communication 29	document interchange assistance 333
direct relation 29	domain 24, 26, 31, 35, 41, 43
Direct selling 317	domain application components 41
Direct Store Delivery (DSD) 324	domain knowledge 43

domain problem 156	e-business initiatives 331
domestic services 262	e-business leaders 336
dominant company 41	EC(Evolutionary Computation) 282
dormant data 124	e-Chaupal 330, 331
Dow Brands Inc 281	echelon 278, 281, 282, 283, 284, 287,
down-stream oriented 317	291, 294, 300, 301, 344, 345, 348,
down-stream stages 228	349, 350, 351, 354, 355, 356
dramatic improvements 57	echelon removal strategy 354
drivers- facilities 347	echelons 345, 348, 349, 352, 359
DSS generic methodology 104	e-Choupal 330, 331, 341
DSS module 111	ecological 161
DSS systems (Decision Support Systems) 91	e-commerce 169
duplication 307	E-commerce environment 238
duplicity of languages 31	economic data 91, 94, 96, 97, 99, 101
dynamic economies of scale 307	economic development of the nation 212
dynamic organizational change 40	economic indicators 77
dynamic system of distribution 332	economic information 96
dynamic VMI system 240	economic loss 104, 107
Dynamics products 29	Economic models 351, 354, 360
dysfunctional sets of policies 279	Economic order size 353
	economic ratios 97, 99, 100, 101
E	economic return 306
EAI applications 167, 168, 169	economic sector 104, 106
EAI architecture 172	economic situation 94
EAI development scenario 168	economic systems 94, 95
EAI example scenarios 169	economic/financial ratios 99
EAI methodologies 173	economies of scale 306, 307
EAI paradigm 169	economies of scope 306
EAI project 172, 174	economy 160
EAI project development 172	eCRM Assessment 121
EAI projects 167, 168, 170, 172, 174, 175,	eCRM capabilities 121
176, 177, 178	ECRM environment 120
EAI Seebeyond eGate software 169	eCRM practices 120
EAI solutions 169, 174	eCRM solution 121
EAI systems 167, 168, 170, 172, 174, 177	eCRM tools 134
EAI testing 173, 176	EDI network 333
Early adapters 172	EDI technology 316
early validation assessment 1	EDI transaction services 333
earnings 66	EDI users 333
earthquakes 161	EDP departments 201
ease of use 264, 270	educational facilities 337
e-Auctions 336	effective alternatives 264
e-bay 336, 338	effective criteria 263
EBIT (earnings before deducting interest and	effective decisions 266
taxes) 98	effective leadership 307
e-business 309	effective management 58, 350, 360
o outilieds 507	-

effective bolicies 160 effective tool 261 effective sa 330, 331 efficiency 229, 344, 347, 348, 352 efficient communication 21, 31 Efficient Customer Response (ECR) 337 efficient maintenance 360 efficient material handling 339 efficient solution 233 e-fulfillment 340 EIS development 104 EIS process 114 EIB (Enterprise lava Beans) 145 Elaborate error-prone traces 176 elaborationist 142 e-learning 308 electrical 331 Electrolux Italia 239 electronic bulletin boards 336 electronic communication 316 electronic communication 316 electronic commerce 323, 325, 337, 340 electronic customer relationship management 119 Electronic Data Interchange (EDI)	effective manner 325, 332	emergency management 159, 160, 161, 162,
effective tool 261 effective tool 261 effective tool 261 effectiveness 330, 331 efficienes 330, 331 efficienes 330, 331 efficient gefficiency improvements 313 efficient communication 21, 31 efficient Customer Response (ECR) 337 efficient material handling 339 efficient material handling 349 emerging 17 treds 322 emerging 17 treds 323 emerging to st	•	
effectiveness 330, 331 efficiency 229, 344, 347, 348, 352 efficient mymprovements 313 efficient communication 21, 31 Efficient Customer Response (ECR) 337 efficient maintenance 360 efficient maintenance 360 efficient maintenance 360 efficient solution 233 e-fulfillment 340 EIS development 104 EIS process 114 EIB (Enterprise Java Beans) 145 Elaborate error-prone traces 176 elaborationist 142 e-learning 308 electrical 331 Electrolux Italia 239 electronic communication 316 electronic pata Interchange (EDI) 306, 316, 325, 327 electronic fund transfers 336 electronic fund transfers 336 electronic point of sale (EPOS) 121, 327 electronic fund transfers 336 electronic point of sale (EPOS) 121, 327 electronic point of sale (EPO	*	
efficiency 229, 344, 347, 348, 352 efficient communication 21, 31 Efficient Customer Response (ECR) 337 efficient information management 94 efficient material handling 339 efficient solution 233 e-fulfillment 340 EIS development 104 EIS process 114 EIB (Enterprise Java Beans) 145 Elaborate error-prone traces 176 elaborationist 142 e-learning 308 electrical 331 Electrolux Italia 239 electronic channel 121 electronic communication 316 electronic customer relationship management 119 Electronic Data Interchange (EDI) 306, 316, 325, 327 electronic fund transfers 336 electronic fund transfers 336 electronic publishing 336 Electronic Supply Chains (ESC) 337 elements 232 elicitation 23, 28 elicitation process 23 e-logistics 340 e-mail 336, 340 e-mail 336, 340 e-mail 336, 340 e-mergency dhasaster situation 161 Emergency dy disaster situation 161 Emergency dy disaster situation 161 Emergency management staff 162 emergency management saff 162 emergency management staff 162 emergency management saff 162 emergency management staff 162 emergency management staff 162 emergency management saff 162 emergency management saff 162 emergency management saff 162 emergency management saff 162 emerging 25, 30, 31, 32 emerging economics 338 emerging economics 338 emerging lots 323 Emotional Quotient (EQ) 305 emplasis on time 308 emprical assessment 79 empirical assessment 79 empirical assessment 79 empirical data 1, 2 endible profitability analysis 64 enabler of change 83 enabling collaboration 326 encapsulation 170, 178 end applications 176 end user actions 171, 176 End Users training 65 end-customer 228 end-to-end supply chain 332 end-user enabled Bl 137 engineering Database 48 Engineering Database 48 Engineering Endoucted and or results for outcomer 229, 241		
efficiency improvements 313 efficient communication 21, 31 Efficient Customer Response (ECR) 337 efficient information management 94 efficient maintenance 360 efficient maintenance 360 efficient solution 233 e-fulfillment 340 EIS development 104 EIS process 114 EIB (Enterprise Java Beans) 145 Elaborate error-prone traces 176 elaborationist 142 e-learning 308 electrical 331 Electrolux Italia 239 electronic commerce 323, 325, 337, 340 electronic customer relationship management 119 Electronic Data Interchange (EDI) 306, 316, 325, 327 electronic publishing 336 electronic publishing 336 Electronic fund transfers 336 electronic fund transfers 336 electronic publishing 336 Electronic point of sale (EPOS) 121, 327 electronic publishing 336 Electronic possin Supply Chains (ESC) 337 elements 232 electiation process 23 e-logistics 340 e-mail 336, 340 e-meal 336, 340 e-meal 336, 340 e-mergency help 159 emerging economies 338 emerging IT trends 323 emerging rechnologies 159 emerging tools 323 emerging tools 323 emerging tools 323 emerging tools 323 Emotional Quotient (EQ) 305 emphasis on time 308 empirical assessment 79 emphrical data 1, 2 empirical research 92 emerging lools 323 Emotional Quotient (EQ) 305 emphasis on time 308 empirical assessment 79 empirical ata 1, 2 empirical research 92 endaplication 170, 178 electronic valuation 170, 178 electronic customer relationship management 119 Electronic data interfaces 268 electronic fund transfers 336 electronic point of sale (EPOS) 121, 327 electronic point of sale (EPOS) 337 engineering posign Centre component 47 engineering besign Centre component 47 engineering besign Centre component 47 engineering besign Centre (EngDB) 48 Engineering basian damanufacturing (CAD/ CAM) 43 Engineering basian centre component 47 engineering basian centre component 47 engineering basian centre component 47 engineering basian centre component 4	· · · · · · · · · · · · · · · · · · ·	
efficient communication 21, 31 Efficient Customer Response (ECR) 337 efficient maintenance 360 efficient solution 233 e-fulfillment 340 EIS development 104 EIS process 114 EIB (Enterprise Java Beans) 145 Elaborate error-prone traces 176 elaborationist 142 e-learning 308 electronia 331 Electrolux Italia 239 electronic bulletin boards 336 electronic commerce 323, 325, 337, 340 electronic commerce 323, 325, 337, 340 electronic commerce 323, 325, 337, 340 electronic publishing 336 electronic publishing 336 Electronic publishing 336 Electronic publishing 336 Electronic Supply Chains (ESC) 337 elements 232 electronic publishing 336 Electron	· · · · · · · · · · · · · · · · · · ·	
Efficient Customer Response (ECR) 337 efficient information management 94 efficient maintenance 360 efficient maintenance 360 efficient maintenance 360 efficient material handling 339 efficient solution 233 e-fulfillment 340 EIS development 104 EIB (Enterprise Java Beans) 145 EIB (Enterprise Java Beans) 145 Elaborate error-prone traces 176 elaborationist 142 e-learning 308 electrical 331 electronic access 160 electronic bulletin boards 336 electronic commerce 323, 325, 337, 340 electronic commerce 323, 325, 337, 340 electronic Data Interchange (EDI) 306, 316, 325, 327 electronic point of sale (EPOS) 121, 327 electronic publishing 336 electronic publishing 336 electronic point of sale (EPOS) 121, 327 electronic point of sale	T T	
efficient information management 94 efficient maintenance 360 efficient material handling 339 efficient solution 233 e-fulfillment 340 EIS development 104 EIS process 114 EJB (Enterprise Java Beans) 145 Elaborate error-prone traces 176 elaborationist 142 e-learning 308 electrical 331 Electrolus Italia 239 electronic access 160 electronic bulletin boards 336 electronic commerce 323, 325, 337, 340 electronic commerce 323, 325, 337, 340 electronic Data Interchange (EDI) 306, 316, 325, 327 electronic data interfaces 268 electronic publishing 336 Electronic possiblishing 336 Electronic publishing 336 Electronic possiblishing 336 Electron		-
efficient maintenance 360 efficient material handling 339 efficient solution 233 e-fulfillment 340 EIS development 104 EIS process 114 EIB (Enterprise Java Beans) 145 Elaborate error-prone traces 176 elaborationist 142 e-learning 308 electrical 331 Electrolux Italia 239 electronic access 160 electronic bulletin boards 336 electronic commerce 323, 325, 337, 340 electronic customer relationship management 119 Electronic Data Interchange (EDI) 306, 316, 325, 327 electronic publishing 336 Electronic 232 elecitation process 23 e-logistics 340 e-mail 336, 340 emergency disaster situation 161 Emergency database 163 emergency help 159 emerging need 262 emerging technologies 159 emerging technologies 123 emerging technologies 123 emerging technologies 129 emptical assessment 79 empirical research 92 Enable profitability analysis 64 enabler of change 83 enabling collaboration 326 encapsulation 170, 178 end applications 176 end results (products and/or services) 261 end user actions 171, 176 end results (products and/or services) 261 end user actions 171, 176 end results (products and/or services) 261 end user actions 171, 176 end results (products and/or services) 261 end user actions 171, 176 end products and/or services) 261 end user actions 171, 176 end products and/or services) 261 end user actions 172, 178 engineering companies 331 engineering design and manufacturing (CAD/ CAM) 43 engineering beadage encapsula	- · · · · · · · · · · · · · · · · · · ·	
efficient material handling 339 efficient solution 233 e-fulfillment 340 EIS development 104 EIS process 114 EJB (Enterprise Java Beans) 145 Elaborate error-prone traces 176 elaborationist 142 e-learning 308 electrical 331 Electrolux Italia 239 electronic bulletin boards 336 electronic commerce 323, 325, 337, 340 electronic commerce 323, 325, 337, 340 electronic Data Interchange (EDI) 306, 316, 325, 327 electronic fund transfers 336 electronic fund transfers 336 electronic point of sale (EPOS) 121, 327 electronic point of sale (EPOS) 121, 327 electronic 23, 28 elicitation process 23 e-logistics 340 e-mail 336, 340 emergency disaster situation 161 Emergency disaster situation 161 Emergency database 163 emergency help 159 Emerging technologies 159 emerging tools 323 empirical research 92 empirical data 1, 2 empirical research 92 enabler of change 83 enabling collaboration 326 enabler of change 83 enabling collaboration 47 empirical tata 1, 2 empirical tata 1		
efficient solution 233 e-fulfillment 340 EIS development 104 EIS development 104 EIS process 114 EJB (Enterprise Java Beans) 145 Elaborate error-prone traces 176 elaborationist 142 elaborationist 142 elearning 308 electrical 331 Electrolux Italia 239 electronic access 160 electronic bulletin boards 336 electronic commerce 323, 325, 337, 340 electronic commerce 323, 325, 337, 340 electronic customer relationship management 119 Electronic Data Interchange (EDI) 306, 316, 325, 327 electronic data interfaces 268 electronic fund transfers 336 electronic point of sale (EPOS) 121, 327 electronic point of sale (EPOS) 121, 327 electronic 23, 28 elicitation process 23 e-logistics 340 e-mail 336, 340 embedded systems 42 emergency / disaster situation 161 Emergency database 163 emergency help 159 emerging tools 323 Emotional Quotient (EQ) 305 Emphasis on time 308 empirical research 92 empirical research 92 Emable profitability analysis 64 enabler of change 83 enabling collaboration 326 enabler of change 83 enabler of change 84 end applications 170, 178 end appl		
e-fulfillment 340 EIS development 104 EIS process 114 EIS process 114 EIB (Enterprise Java Beans) 145 Elaborate error-prone traces 176 elaborationist 142 elearning 308 electrical 331 Electrolux Italia 239 electronic access 160 electronic bulletin boards 336 electronic commerce 323, 325, 337, 340 electronic commerce 323, 325, 337, 340 electronic customer relationship management 119 Electronic Data Interchange (EDI) 306, 316, 325, 327 electronic data interfaces 268 electronic data interfaces 268 electronic point of sale (EPOS) 121, 327 electronic Supply Chains (ESC) 337 elements 232 elicitation 23, 28 elicitation process 23 eloigitation 23, 28 elicitation process 23 eloigitation 23, 28 elicitation 23, 28 elicitation process 23 elogistics 340 e-mail 336, 340 emergency disaster situation 161 Emergency disaster situation 161 Emergency disaster situation 161 Emergency disaster situation 161 Emergency database 163 emphasis on time 308 empirical assessment 79 empirical assessment 79 empirical assessment 79 empirical assessment 79 empirical research 92 Enable profitability analysis 64 enabler of change 83 enabling collaboration 326 enabler of change 83 enabling collaboration 326 enabler of change 83 enabler of change 83 enabler of change 83 enable profitability analysis 64 enabler of change 83 enabling collaboration 326 enabler of change 83 enabler of hange 84 enabler of hange 83 enabler of hange 84 enabler of hange 84 end user stribility anal	<u> </u>	
EIS development 104 EIS process 114 EJB (Enterprise Java Beans) 145 Elaborate error-prone traces 176 elaborationist 142 e-learning 308 electrical 331 Electrolux Italia 239 electronic access 160 electronic bulletin boards 336 electronic commerce 323, 325, 337, 340 electronic commerce 323, 325, 337, 340 electronic Data Interchange (EDI) 306, 316, 325, 327 electronic Data Interchange (EDI) 306, 316, 325, 327 electronic publishing 336 electronic publishing 336 Electronic publishing 336 Electronic Supply Chains (ESC) 337 elemators 232 electronic 232, 28 elicitation 23, 28 elogistics 340 e-mail 336, 340 embasis on time 308 empirical assessment 79 empirical research 92 Enable profitability analysis 64 enabler of change 83 enabling collaboration 326 encapsulation 170, 178 end applications 171, 176 End Users training 65 end-customer 228 end-to-end supply chain 332 end-user enabled BI 137 engineering companies 331 engineering design and manufacturing (CAD/ CAM) 43 Engineering basign Centre component 47 engineering services 229, 241 EngineeringDatabase 48 EngineeringDatabase 48 EngineeringNowledgeBase 48 enhance competitiveness 195 enhance ERP 221 enhance profitability 310 enhancement 77, 78 enigmatic question Integration (EAI)		
EIS process 114 EJB (Enterprise Java Beans) 145 Elaborate error-prone traces 176 elaborationist 142 e-learning 308 electrical 331 Electrolux Italia 239 electronic bulletin boards 336 electronic channel 121 electronic bulletin boards 336 electronic commerce 323, 325, 337, 340 electronic communication 316 electronic Data Interchange (EDI) 306, 316, 325, 327 electronic data interfaces 268 electronic publishing 336 electronic publishing 336 Electronic publishing 336 Electronic Supply Chains (ESC) 337 electronic publishing 336 Electronic Supply Chains (ESC) 337 elemins 232 elicitation 23, 28 elicitation process 23 e-logistics 340 e-mail 336, 340 emergency disaster situation 161 Emergency disaster situation 161 Emergency disaster situation 161 Emergency disaster situation 161 Emergency database 163 empirical assessment 79 empirical data 1, 2 empirical research 92 Enable profitability analysis 64 enabler of change 83 enabling collaboration 326 encapsulation 170, 178 end applications 176 end results (products and/or services) 261 end user actions 171 end user actions 176 end results (products and/or services) 261 end user actions 171 end user actions 176 end results (products and/or services) 261 end user actions 176 end results (products and/or services) 261 end user actions 171 end user actions 172 end-user enabled BI 137 engineer		- · · · · · · · · · · · · · · · · · · ·
EJB (Enterprise Java Beans) 145 Elaborate error-prone traces 176 elaborationist 142 e-learning 308 electrical 331 Electrolux Italia 239 electronic access 160 electronic bulletin boards 336 electronic channel 121 electronic commerce 323, 325, 337, 340 electronic communication 316 electronic customer relationship management 119 Electronic Data Interchange (EDI) 306, 316, 325, 327 electronic data interfaces 268 electronic fund transfers 336 electronic point of sale (EPOS) 121, 327 electronic Supply Chains (ESC) 337 elements 232 elements 232 elements 232 elements 236 elements 236 elements 237 elements 237 elements 238 elements 239 elogistics 340 e-mail 336, 340 emergency / disaster situation 161 Emergency / disaster situation 161 Emergency / database 163 emilier and transfers (EAI) empirical research 92 Enable profitability analysis 64 enaber of change 83 enabler of change 83 endersults (products and/or services) 261 end user actions 171, 176 end results (products and/or services) 261 end user actions 172, 176 end results (products and/or services) 261 end user actions 172, 176 end application 170, 178 end application 170, 178 end application 170, 17		•
Elaborate error-prone traces 176 elaborationist 142 e-learning 308 electrical 331 Electrolux Italia 239 electronic access 160 electronic bulletin boards 336 electronic channel 121 electronic commerce 323, 325, 337, 340 electronic commerce 323, 325, 337, 340 electronic customer relationship management 119 Electronic Data Interchange (EDI) 306, 316, 325, 327 electronic data interfaces 268 electronic point of sale (EPOS) 121, 327 electronic Supply Chains (ESC) 337 elements 232 elements 234 elements 236 elements 236 elements 237 elements 238 elements 239 elements 240 emerged supporting software quality 41 emergency / disaster situation 161 Emergency database 163 emergency help 159 emble profitability analysis 64 enable profitability analysis 64 enabler of change 83 enabler of change 83 enabler of change 83 enabler of change 83 enabling collaboration 326 encapsulation 170, 178 end applications 176 end user actions 171, 176 end versults (products and/or services) 261 end user actions 171, 176 end results (products and/or services) 261 end user actions 171, 176 end results (products and/or services) 261 end user actions 171, 176 end results (products and/or services) 261 end user actions 171, 176 end results (products and/or services) 261 end user actions 171, 176 end results (products and/or services) 261 end user actions 171, 176 end results (products and/or services) 261 end user actions 171, 176 end results (products and/or services) 261 end user actions 171, 176 end results (products and/or services) 261 end user actions 171, 176 end results (products and/or services) 261 end user actions 171, 176 end results (products and/or services) 261 end user actions 171, 176 end results (products and/or services) 261 end user actions 171, 176 end results (products and/or services		*
elaborationist 142 e-learning 308 electrical 331 Electrolux Italia 239 electronic access 160 electronic bulletin boards 336 electronic commerce 323, 325, 337, 340 electronic commerce 323, 325, 337, 340 electronic bulletin boards 36 electronic communication 316 electronic communication 316 electronic Data Interchange (EDI) 306, 316, 325, 327 electronic data interfaces 268 electronic fund transfers 336 electronic publishing 336 Electronic publishing 336 Electronic Supply Chains (ESC) 337 elements 232 elements 232 electronic 33, 28 elicitation process 23 e-logistics 340 e-mail 336, 340 emergency / disaster situation 161 Emergency database 163 enable profitability analysis 64 enabler of change 83 enabling collaboration 326 enabling collaboration 326 enabler of change 83 enabling collaboration 326 endaplications 170, 178 end applications 176 end results (products and/or services) 261 end results (products and/or services) 261 end repulstions 176		•
e-learning 308 electrical 331 Electrolux Italia 239 electronic access 160 electronic bulletin boards 336 electronic communication 316 electronic communication 316 electronic customer relationship management 119 Electronic Data Interchange (EDI) 306, 316, 325, 327 electronic data interfaces 268 electronic point of sale (EPOS) 121, 327 electronic publishing 336 Electronic Supply Chains (ESC) 337 electronic Supply Chains (ESC) 337 elements 232 elicitation 23, 28 eloigistics 340 e-mail 336, 340 emergency / disaster situation 161 Emergency database 163 enabling collaboration 326 encapsulation 170, 178 end applications 176 end results (products and/or services) 261 end user actions 171, 176 end user actions 171, 176 end user actions 171, 176 end user actions 170, 178 end applications 176 end results (products and/or services) 261 end user actions 171, 176 end user actions 171, 176 end user actions 170, 178 end applications 176 end results (products and/or services) 261 end user actions 171, 176 end user actions 171, 176 end user actions 170, 178 end applications 176 end results (products and/or services) 261 end user actions 171, 176 end user actions 171, 176 end user actions 170, 178 end applications 176 end results (products and/or services) 261 end user actions 171, 176 end user actions 171, 176 end user actions 172, 176 end results (products and/or services) 261 end user actions 171, 176 end user actions 172, 176 end user actions 172, 176 end user actions 172, 176 end user actions 172 end user actions 172, 176 engineering Design Centre component 47 engineering Design Centre component 47 engineering Design Centre component 47 engineering Sasta 48 Engineering Database DesignCenter (EngDB) endineering Sasta 48 enhance competitiveness 195 enhance profitability 310 enhance profitability 310 enhance profitability 310 enhance profitability 310 enhance profitability 3	*	*
electroical 331 Electrolux Italia 239 electronic access 160 electronic bulletin boards 336 electronic channel 121 electronic commerce 323, 325, 337, 340 electronic commerce 323, 325, 337, 340 electronic customer relationship management 119 Electronic Data Interchange (EDI) 306, 316, 325, 327 electronic data interfaces 268 electronic point of sale (EPOS) 121, 327 electronic publishing 336 Electronic Supply Chains (ESC) 337 electronic Supply Chains (ESC) 337 electronic Supply Chains (ESC) 337 elements 232 elicitation 23, 28 elicitation process 23 elengineering 23 elengineering Data base 48 elengistics 340 elendedd systems 42 emerged supporting software quality 41 emergency / disaster situation 161 Emergency database 163 end applications 176 end results (products and/or services) 261 end user actions 171, 176 end user actions 172, 176 englusering Database 48 Engineering Database 48 enjancering Database 48 enjancering		
electrolux Italia 239 electronic access 160 electronic bulletin boards 336 electronic channel 121 electronic commerce 323, 325, 337, 340 electronic commerce 323, 325, 337, 340 electronic customer relationship management 119 Electronic Data Interchange (EDI) 306, 316, 325, 327 electronic data interfaces 268 electronic point of sale (EPOS) 121, 327 electronic Supply Chains (ESC) 337 elements 232 elicitation 23, 28 elicitation process 23 eloigistics 340 e-mail 336, 340 emerged supporting software quality 41 emergency / disaster situation 161 Emergency database 163 end results (products and/or services) 261 end user actions 171, 176 End Users training 65 end results (products and/or services) 261 end user actions 171, 176 End Users training 65 end-customer 228 end user actions 171, 176 End Users training 65 end-customer 228 end user actions 171, 176 End Users training 65 end-customer 228 end user actions 171, 176 End Users training 65 end-customer 228 end user actions 171, 176 End Users training 65 end-customer 228 end-results (products and/or services) 261 end user actions 171, 176 End Users training 65 end-customer 228 end-user actions 171, 176 end-customer 228 end-customer 228 end-customer 228 end-customer 228 end-customer 228 end-user actions 1	e e	
electronic access 160 electronic bulletin boards 336 electronic channel 121 electronic commerce 323, 325, 337, 340 electronic communication 316 electronic customer relationship management 119 Electronic Data Interchange (EDI) 306, 316, 325, 327 electronic data interfaces 268 electronic fund transfers 336 electronic point of sale (EPOS) 121, 327 electronic Dublishing 336 Electronic Supply Chains (ESC) 337 electronic Supply Chains (ESC) 337 electronic Supply Chains (ESC) 337 elements 232 elicitation 23, 28 elicitation process 23 e-logistics 340 e-mail 336, 340 emergency / disaster situation 161 Emergency database 163 end applications 176 end applications 176 end applications 176 end results (products and/or services) 261 end user actions 171, 176 End Users training 65 end-customer 228 end-user enabled BI 137 end-user enabled BI 137 engineering companies 331 engineering design and manufacturing (CAD/ CAM) 43 Engineering Design Centre component 47 engineering services 229, 241 EngineeringDatabase 48 EngineeringDatabase 48 EngineeringKnowledgeBase 48 EngineeringKnowledgeBase 48 enhance competitiveness 195 enhance ERP 221 enhancement 77, 78 enigneering of tware quality 41 enhancement 77, 78 enigneering of tware quality 41 enhancement 77, 78 enigneering companies 331 engineering design and manufacturing (CAD/ CAM) 43 Engineering Design Centre component 47 engineering services 229, 241 EngineeringDatabase 48 EngineeringKnowledgeBase 48 enhance competitiveness 195 enhance ERP 221 enhancement 77, 78 enigneering vertical vertic		
electronic bulletin boards 336 electronic channel 121 electronic commerce 323, 325, 337, 340 electronic commerce 323, 325, 337, 340 electronic communication 316 electronic customer relationship management 119 Electronic Data Interchange (EDI) 306, 316, 325, 327 electronic data interfaces 268 electronic fund transfers 336 electronic point of sale (EPOS) 121, 327 electronic Supply Chains (ESC) 337 elements 232 elements 232 electronic 340 electronic 336, 340 embedded systems 42 emergency / disaster situation 161 Emergency database 163 emd results (products and/or services) 261 end user actions 171, 176 End Users training 65 end-customer 228 end-to-end supply chain 332 end-user enabled BI 137 engineering companies 331 engineering Design Centre component 47 engineering Design Centre component 47 engineering services 229, 241 EngineeringDatabase 48 EngineeringDatabase 48 EngineeringDatabase 48 EngineeringKnowledgeBase 48 enhance competitiveness 195 enhance ERP 221 enhance ERP 221 enhance end results (products and/or services) 261 end user actions 171, 176 End Users training 65 end-customer 228 end-user enabled BI 137 engineering companies 331 engineering Design Centre component 47 engineering Database 48 EngineeringDatabase 48 EngineeringDatabase 48 EngineeringEntoatabase 48 end-customer 228 end-user enabled BI 137 engineering companies 331 engineering Design Centre component 47 engineering Services 229, 241 EngineeringDatabase 48 EngineeringDatabase 48 EngineeringDatabase 48 end-customer 228 end-customer 228 end-user enabled BI 137 engineering companies 331 engineering companies 49 engineering services 229, 241 Engineering Database 48 engineering base 48 engineering base 48 engineering services 229, 241 Engineering Database 48 engineering base 48 engi		•
electronic channel 121 electronic commerce 323, 325, 337, 340 electronic communication 316 electronic customer relationship management 119 Electronic Data Interchange (EDI) 306, 316, 325, 327 electronic data interfaces 268 electronic fund transfers 336 electronic point of sale (EPOS) 121, 327 electronic Supply Chains (ESC) 337 elements 232 elements 232 electronic 340 elements 232 elicitation process 23 elicitation process 23 electronic 340 e-mail 336, 340 emerged supporting software quality 41 emergency / disaster situation 161 Emergency database 163 emergency help 159 end Users training 65 end-customer 228 end-user enabled BI 137 engineering companies 331 engineering design and manufacturing (CAD/ CAM) 43 Engineering Design Centre component 47 engineering issues 23 engineering services 229, 241 EngineeringDatabase 48 EngineeringDatabase 48 enhance competitiveness 195 enhance ERP 221 enhance profitability 310 enhancement 77, 78 enigmatic question 119 enriched data 137 Enterprise Application Integration (EAI)		* *
electronic commerce 323, 325, 337, 340 electronic communication 316 electronic customer relationship management 119 Electronic Data Interchange (EDI) 306, 316, 325, 327 electronic data interfaces 268 electronic fund transfers 336 electronic point of sale (EPOS) 121, 327 electronic Supply Chains (ESC) 337 elements 232 elements 232 elicitation 23, 28 elicitation process 23 eloigistics 340 emerged supporting software quality 41 emergency / disaster situation 161 Emergency database 163 end-customer 228 end-customer 328 end-to-end supply chain 332 end-user enabled BI 137 engineering companies 331 engineering Design Centre component 47 engineering Design Centre component 47 engineering services 229, 241 EngineeringDatabase 48 EngineeringDatabase 48 EngineeringKnowledgeBase 48 enhance competitiveness 195 enhance ERP 221 enhance profitability 310 enhancement 77, 78 enigmatic question 119 enriched data 137 Enterprise Application Integration (EAI)		· · · · · · · · · · · · · · · · · · ·
electronic communication 316 electronic customer relationship management 119 Electronic Data Interchange (EDI) 306, 316, 325, 327 electronic data interfaces 268 electronic fund transfers 336 electronic point of sale (EPOS) 121, 327 electronic Supply Chains (ESC) 337 elements 232 elicitation 23, 28 elicitation process 23 elogistics 340 e-mail 336, 340 emerged supporting software quality 41 emergency / disaster situation 161 Emergency database 163 end-customer 228 end-to-end supply chain 332 end-user enabled BI 137 engineering companies 331 engineering design and manufacturing (CAD/ CAM) 43 Engineering Design Centre component 47 engineering issues 23 engineering services 229, 241 EngineeringDatabase 48 EngineeringDatabase 48 enhance competitiveness 195 enhance ERP 221 enhance ERP 221 enhance end-customer 228 end-to-end supply chain 332 end-user enabled BI 137 engineering companies 331 engineering design and manufacturing (CAD/ CAM) 43 Engineering Design Centre component 47 engineering services 229, 241 EngineeringDatabase 48 EngineeringNnowledgeBase 48 enhance competitiveness 195 enhance ERP 221 enhance profitability 310 enhancement 77, 78 enigmatic question 119 enigmatic question 119 enriched data 137 Enterprise Application Integration (EAI)		•
electronic customer relationship management 119 Electronic Data Interchange (EDI) 306, 316, 325, 327 electronic data interfaces 268 electronic fund transfers 336 electronic point of sale (EPOS) 121, 327 electronic publishing 336 Electronic Supply Chains (ESC) 337 elements 232 elicitation 23, 28 elicitation process 23 e-logistics 340 e-mail 336, 340 emerged supporting software quality 41 emergency / disaster situation 161 Emergency database 163 emergency help 159 end-to-end supply chain 332 end-user enabled BI 137 engineering companies 331 engineering design and manufacturing (CAD/ CAM) 43 Engineering Design Centre component 47 engineering issues 23 engineering services 229, 241 EngineeringDatabase 48 EngineeringDatabase 48 EngineeringMnowledgeBase 48 enhance competitiveness 195 enhance ERP 221 enhance profitability 310 enhancement 77, 78 enigmatic question 119 enriched data 137 Enterprise Application Integration (EAI)		<u> </u>
Electronic Data Interchange (EDI) 306, 316, 325, 327 electronic data interfaces 268 electronic fund transfers 336 electronic point of sale (EPOS) 121, 327 electronic publishing 336 electronic Supply Chains (ESC) 337 electronic Supply Chains (ESC) 337 elecitation 23, 28 elicitation process 23 eloistics 340 e-logistics 340 e-mail 336, 340 emerged supporting software quality 41 emergency / disaster situation 161 Emergency database 163 emergency help 159 emdatase 268 engineering design and manufacturing (CAD/ CAM) 43 Engineering Design Centre component 47 engineering issues 23 engineering services 229, 241 EngineeringDatabase 48 EngineeringDatabase 48 EngineeringMnowledgeBase 48 enhance competitiveness 195 enhance ERP 221 enhance profitability 310 enhancement 77, 78 enigmatic question 119 enriched data 137 Enterprise Application Integration (EAI)		
Electronic Data Interchange (EDI) 306, 316, 325, 327 electronic data interfaces 268 electronic fund transfers 336 electronic point of sale (EPOS) 121, 327 electronic Supply Chains (ESC) 337 elements 232 elicitation 23, 28 elicitation process 23 elicitation process 23 elogistics 340 e-mail 336, 340 emergency / disaster situation 161 emergency database 163 emergency help 159 engineering companies 331 engineering design and manufacturing (CAD/ CAM) 43 Engineering Design Centre component 47 engineering issues 23 engineering services 229, 241 EngineeringDatabase 48 EngineeringDatabase 48 EngineeringKnowledgeBase 48 enhance competitiveness 195 enhance ERP 221 enhance ERP 221 enhance profitability 310 enhancement 77, 78 enigmatic question 119 enriched data 137 Enterprise Application Integration (EAI)	-	2 2 2
electronic data interfaces 268 electronic fund transfers 336 electronic point of sale (EPOS) 121, 327 electronic publishing 336 electronic Supply Chains (ESC) 337 elements 232 elicitation 23, 28 elicitation process 23 elicitation process 23 electronic 340 emerged supporting software quality 41 emergency database 163 emergency help 159 engineering design and manufacturing (CAD/CAM) 43 Engineering Design Centre component 47 engineering issues 23 engineering services 229, 241 EngineeringDatabase 48 EngineeringDatabase 48 EngineeringDatabase DesignCenter (EngDB) 48 EngineeringKnowledgeBase 48 enhance competitiveness 195 enhance ERP 221 enhance profitability 310 enhancement 77, 78 enigmatic question 119 enriched data 137 Enterprise Application Integration (EAI)		
electronic data interfaces 268 electronic fund transfers 336 electronic point of sale (EPOS) 121, 327 electronic point of sale (EPOS) 121, 327 electronic publishing 336 Engineering Design Centre component 47 engineering issues 23 engineering services 229, 241 Electronic Supply Chains (ESC) 337 elements 232 elements 232 elicitation 23, 28 elicitation process 23 elicitation process 23 elicitation process 23 engineering Database 48 engineering Database 163 engineering Database 23 engineering Database 18 enginering Database 18 engineering Database 18 engineering Database 1		· · ·
electronic fund transfers 336 electronic point of sale (EPOS) 121, 327 electronic publishing 336 elements 232 elements 232 elicitation 23, 28 elicitation process 23 elicitation process 23 elicitation 336, 340 emerged supporting software quality 41 emergency / disaster situation 161 Emergency database 163 engineering Design Centre component 47 engineering issues 23 engineering services 229, 241 EngineeringDatabase 48 EngineeringDatabase DesignCenter (EngDB) 48 EngineeringKnowledgeBase 48 enhance competitiveness 195 enhance ERP 221 enhance profitability 310 enhancement 77, 78 enigmatic question 119 enriched data 137 enriched data 137 Enterprise Application Integration (EAI)		
electronic point of sale (EPOS) 121, 327 electronic publishing 336 Electronic Supply Chains (ESC) 337 elements 232 elements 232 elicitation 23, 28 elicitation process 23 elogistics 340 e-mail 336, 340 emerged supporting software quality 41 emergency / disaster situation 161 Emergency database 163 engineering issues 23 engineering batabase 28 EngineeringDatabase DesignCenter (EngDB) 48 EngineeringKnowledgeBase 48 enhance competitiveness 195 enhance ERP 221 enhance profitability 310 enhancement 77, 78 enigmatic question 119 enriched data 137 Enterprise Application Integration (EAI)		· · · · · · · · · · · · · · · · · · ·
electronic publishing 336 Electronic Supply Chains (ESC) 337 Electronic Supply Chains (ESC) 337 Elements 232 Elements 232 Engineering Database 48 Engineering Database Design Center (Eng DB) elicitation 23, 28 Elicitation process 23 Engineering Knowledge Base 48 e-logistics 340 enhance competitiveness 195 e-mail 336, 340 embedded systems 42 enhance ERP 221 embedded systems 42 enhance profitability 310 enhancement 77, 78 emergency / disaster situation 161 enigmatic question 119 Emergency database 163 enriched data 137 emergency help 159 Enterprise Application Integration (EAI)		
Electronic Supply Chains (ESC) 337 EngineeringDatabase 48 Electronic Supply Chains (ESC) 337 EngineeringDatabase 48 EngineeringDatabaseDesignCenter (EngDB) 48 EngineeringKnowledgeBase 48 e-logistics 340 e-mail 336, 340 embedded systems 42 embedded systems 42 embedded systems 42 emerged supporting software quality 41 emergency / disaster situation 161 Emergency database 163 emergency help 159 EngineeringDatabase 48 EngineeringDatabaseDesignCenter (EngDB) EngineeringDatabase 48 EngineeringDatabaseDesignCenter (EngDB) EngineeringDatabase 48 EngineeringDatabase 48 EngineeringDatabaseDesignCenter (EngDB)		
elements 232 EngineeringDatabaseDesignCenter (EngDB) elicitation 23, 28 elicitation process 23 EngineeringKnowledgeBase 48 e-logistics 340 e-mail 336, 340 embedded systems 42 embedded systems 42 emerged supporting software quality 41 emergency / disaster situation 161 Emergency database 163 emergency help 159 EngineeringDatabaseDesignCenter (EngDB) 48 EngineeringDatabaseDesignCenter (EngDB) 48 enhance competitiveness 195 enhance ERP 221 enhance profitability 310 enhancement 77, 78 enigmatic question 119 enriched data 137 Enterprise Application Integration (EAI)		-
elicitation 23, 28 elicitation process 23 EngineeringKnowledgeBase 48 e-logistics 340 e-mail 336, 340 embedded systems 42 embedded systems 42 emerged supporting software quality 41 emergency / disaster situation 161 emergency database 163 emergency help 159 48 EngineeringKnowledgeBase 48 enhance competitiveness 195 enhance ERP 221 enhance profitability 310 enhancement 77, 78 enigmatic question 119 enriched data 137 Enterprise Application Integration (EAI)		
e-logistics 340 enhance competitiveness 195 e-mail 336, 340 enhance ERP 221 embedded systems 42 enhance profitability 310 emerged supporting software quality 41 enhancement 77, 78 emergency / disaster situation 161 enigmatic question 119 Emergency database 163 enriched data 137 emergency help 159 Enterprise Application Integration (EAI)	elicitation 23, 28	
e-logistics 340 e-mail 336, 340 embedded systems 42 embedded systems 42 emerged supporting software quality 41 emergency / disaster situation 161 emergency database 163 emergency help 159 enhance competitiveness 195 enhance ERP 221 enhance profitability 310 enhancement 77, 78 enigmatic question 119 enriched data 137 Enterprise Application Integration (EAI)	elicitation process 23	EngineeringKnowledgeBase 48
embedded systems 42 enhance profitability 310 emerged supporting software quality 41 enhancement 77, 78 emergency / disaster situation 161 enigmatic question 119 Emergency database 163 enriched data 137 emergency help 159 Enterprise Application Integration (EAI)	e-logistics 340	
emerged supporting software quality 41 enhancement 77, 78 emergency / disaster situation 161 enigmatic question 119 Emergency database 163 enriched data 137 emergency help 159 Enterprise Application Integration (EAI)	e-mail 336, 340	enhance ERP 221
emergency / disaster situation 161 enigmatic question 119 Emergency database 163 enriched data 137 emergency help 159 Enterprise Application Integration (EAI)	embedded systems 42	enhance profitability 310
Emergency database 163 enriched data 137 emergency help 159 Enterprise Application Integration (EAI)	emerged supporting software quality 41	enhancement 77, 78
Emergency database 163 enriched data 137 emergency help 159 Enterprise Application Integration (EAI)	emergency / disaster situation 161	enigmatic question 119
		enriched data 137
13/1 In / Inx Inu	emergency help 159	

enterprise applications 197	environment, operational issues 226
enterprise applications market 40	environmental criteria 264, 275
Enterprise Information System	environmental factors 168, 172
103, 104, 110, 115, 116, 210	Environmental level 177
Enterprise Information System Implementation	Environments 232, 235
198	e-Procurement 336, 337
Enterprise marketing automation (EMA) 128	Equation 56, 57
enterprise processes 172, 176	ergodic process 362
enterprise profitability 77	ERP adopter 8, 15, 16
Enterprise Recourse Planning 1	ERP adoption 83, 85
Enterprise Resource	ERP applications 43, 46, 47, 49
76, 81, 82, 84, 86, 87, 88, 90	ERP approach 4
Enterprise Resource Planning (ERP)	ERP based system management 344
1, 40, 51, 63, 76, 152, 168, 210, 328,	ERP business 29
331, 344	ERP characteristics suitability 48
Enterprise Resource Solutions 195	ERP code 22
Enterprise Resource Systems 82	ERP community 26
Enterprise Solution 82, 83, 84, 85	ERP components 41
Enterprise Solution stories 82	ERP coordination technology 6, 10
enterprise system 167, 168, 170, 174	ERP customization 20, 22, 26, 27, 29, 30
Enterprise System 40, 81, 85, 87	31, 34, 36
Enterprise wide information system implemen-	ERP customization processes 20, 22
tation 195	ERP data 84
enterprise wide product 195	ERP database 84
enterprise wide software systems 195	ERP deployment 26, 31
Enterprise wide support 41	ERP designs 41
enterprise's applications 169	ERP development community 22, 31
enterprise's isolated business applications	ERP development environment 27
167, 169	ERP end users 44
enterprises 167, 168, 169, 172, 174, 176,	ERP environment 26
177, 178	ERP experience reports 7
enterprises borders 308	ERP framework 28
Enterprises Resource Planning (ERP)	ERP frameworks technologies 31
305, 309, 311, 315	ERP functionalities 20
enterprise-wide design 204	ERP global market 333
enterprise-wide level 204	ERP II solutions 85
enterprise-wide product 199	ERP implementation 1, 16, 17, 40, 41, 46
entertainment 42	50, 51, 52, 53, 54, 56, 57, 58, 59,
entire application 174	61, 62, 64, 65, 67, 68, 70, 73, 74,
entire semantic (meaning) analysis 95	76, 77, 78, 79, 80, 81, 85, 86, 87,
entire system 168, 174, 176	88, 89, 90
entities 168, 172, 174	ERP implementation consultant 76
Entity-Relationship (ER) model 147	ERP industry 21
environment 141, 145, 152, 153, 154, 155,	ERP Market 41, 333
156, 157, 159, 166, 174, 176, 178, 1	ERP maturity model 45
79, 197	ERP misalignment 3, 4

EDD modulos 154	EDD supported machanisms 1
ERP modules 154	ERP-supported mechanisms 1
ERP package 52, 57, 344	ERP-supported network 2
ERP product 172, 333	ERP-supported partnerships 3 error method 229
ERP professionals 2, 205	
ERP professionals 2, 205	error pricing mechanism 229
ERP project 2, 3, 10, 14, 15, 20, 26, 44,	errors 325, 327, 332, 339, 340
51, 52, 53, 54, 57, 58, 59	errors in data conversion 205
ERP providers 153	ES (Evolutionary Strategy) 282
ERP RE 1, 2, 3, 4, 5, 7, 9, 10, 11, 12,	ES adoption 83, 84
13, 15, 16	ES Vendor 84
ERP RE processes 1, 2, 3, 15	Essar 333
ERP requirements 43, 44, 45	essential customer attributes 227
ERP risks 195, 206	essential drugs 212
ERP software 41, 65	Establish objectives 173
ERP software development activities 52	Establish schedules 173
ERP solution 153, 333	Establish the standards 173
ERP solution architects 1, 11	Established customers 122
ERP stabilization 82	established processes 172
ERP stakeholders 21, 31	Establishing communication 164
ERP suites 172	estimated response times 352
ERP supplier 31	estimation 54, 57
ERP system 2, 10, 12, 13, 21, 22, 27, 28,	e-strategy 340
29, 31, 40, 41, 42, 47, 52, 54, 61,	e-training 308
77, 79, 80, 81, 82, 85, 87, 90, 153,	Euclidean distance 218
154, 168, 197, 198, 199, 200, 201,	EVA positive (Economic Value Addition) 62
202, 203, 204, 205, 206, 207	event based approach 144
ERP systems implementation 44, 197	ever-changing information 304
ERP systems integration 44	every iteration 24
ERP systems training 79	evolutionary algorithms 287, 292
ERP team 53, 57, 58, 59	evolutionary methodology 107
ERP transactions 3	evolutionary optimization research 300
ERP upgrades 14	exact situation 213
ERP vendor 15, 21, 29, 41, 52, 335, 344	Excellent fonts 26
ERP world 31	excessive delays 274
ERP's target platform 153	excessive duplication 204
ERP5 framework 36, 37, 39	exclusive categories 212
ERP5 project 22, 36	executable application 144
ERP5's framework 28	execute independently 43
ERP-adopters 3, 4	executing new processes 200, 202, 204
ERP-enabled 1, 3, 6	executing projects 58
ERP-enabled value web 1	execution 61, 62, 211
ERP-misfits 4	execution information 279
ERP-supported coordination	execution time 109
2, 4, 5, 6, 12, 13	executive team 313
ERP-supported coordination mechanisms	existing component library 43
2, 4, 5, 12, 13	existing components 43, 47

existing data 123	facilitate integrated 40
existing legacy system 203, 205	facilitate planning 325
existing model 123	facilitate transactions 327
existing processes 339	facilities 345, 347, 348, 350, 352, 355, 356
existing requirements 44	facilities database 164, 165
existing software components 47	facility design 335
existing systems 141	Facility information 110
existing technology platforms 79	facility locations 281
expectation document 83	factories 332, 333, 334
Expectation management 82	factors 261, 267, 270, 274, 276
Expectation Management Stage 83	factors for ERP systems 195
expected cost rate 365, 366, 372	factor-wise average scores 201
experience of the company 205	factory automation 325
expert knowledge 92, 93, 94, 97	factory supplies multiple warehouses 350
expert system 103, 112, 113, 115	FAHP approach 263
expertise 7, 81, 82, 85	FAHP based model 261, 267
explicit solution 364	failover mechanisms 175
explicitly specifies 176	failure of ERP system 197
exploit the internet 169	farm equipment sectors 331
exploitation 307	farmer needs 331
exploring possibilities 85	farmer's house 331
exponential increase 119	farm-gate price realization 330
exponential lead time 361, 362, 366	fast changing is achieved 28
exponential variation 242	Fast Moving Consumer Goods (FMCG) 332
exponentially distributed 366	fast pace 308
expression language 142	fast response 20, 21
expressive code 26, 30	feasibility 218
Extended Enterprise Solutions 85	feasibility boundary 299
extensive global study 313	feasible methodology 22
extensive reliance 205	feasible point 298, 299
external components 174	feasible region 300
external match 197	feasible solution 231, 296, 297
external partners 308	feature lists 23
external processing agents 66	Federal Emergency Management Agency
external systems 169	(FEMA) 161
extracting 92	Federal Express (FedEx) 340
extraction processes 112	feedback 15, 23, 24, 25, 30, 31, 35
extranets 176	feedback cycles 23
Extreme Programming (XP) 23, 32, 33	fertile ground 231
Exxon 227	fertilizer production industry 212
_	FI module 66
F	FIFO compliance 340
F-16 Modular Mission 155	fill orders 359
façades 31	fill rates 352
Facebook 268	filter characteristics 353
face-to-face dialogue 24	filter theory 353
1400 10 1400 41410540 21	

filtering 327 forecasting efficiency 106 forecasting load subject 106 final installation 349 Final integration tests 65 forecasts 324, 335 final product 345, 348 foreign trade 333 final products 270 forklift trucks 329 financial accounting 63, 66 formal requirement 83 Financial Accounting System (FAS) 168 formalism 154, 157 financial commitment 168 formalized tool 264 financial costing 62 formative years 305 financial figures 62 Formulae 54, 55, 56 financial indicators 98 formulation of strategies 307 financial institutions 338 forthcoming analysis 367 forward-thinking enterprises 335 financial position 267 financial ratios 99, 100 foundation stage 82, 83 financial service companies 11 Fourth Party service provider 262 financial service sectors 130 FPCIS (Flat Product Complex -Information financial-accounting systems 64 System) 70 finished good stockpile 355 framework 21, 28, 29, 30, 35, 36, 37, 39, 2 finished goods 278, 279, 306, 308 26, 230, 231, 232, 241, 243, 244 finished goods inventory 62, 64 Franchise organizations 229 Finished goods stock 353 frauds 103, 106 finished product 199, 359 freight charges 366, 372 finished-goods inventory 64, 66, 72 freight costs 66 fitness scaling function 291 freight-management 335 fitting phase 110 frequency 129, 130, 134 fixed value judgment 266 frequency of collection 53 fixed-order interval model 229 front office 310 Flat Product Complex 70 fruitful information 53 flexibility 167, 176 fulfill orders 335 Flexible resources 30 full functionality 76, 77 flight missing 161 full-featured release 23 flow enhancement 77 fully integrated corporation 358, 359 functional & technical knowledge 205 flow of goods 278, 358, 360, 361 flow of information 62, 172, 227 functional areas 227 flow of materials 360, 361 functional qualities 47 fluctuating load 218 functional system 43 fluctuations 20, 30 functionality 160 focal firms 314 functionally correct 173 foci 229 fund flow 324 focus group 1, 2, 9, 10, 11, 12, 14, 15 fundamental issue 199 following arguments 362, 368 future analysis elements 95 food distribution 211 future BI systems 138 future conversation 23 food grain procurement and distributions 212 food product application 307 Future enhancements 137 food storage facilities 335 future iterations 25 forecasting 211, 212, 215, 233, 234, 239, future organizational requirements 64 245, 308

future requirements 308	generate decisions 264, 265
Future research 300	generated expectations 93
future work 16	generic EIS 107
fuzziness of data 261, 270	generic label 22, 35
fuzzy AHP 263, 264, 275, 276	Genetic Algorithm 282, 283, 291, 292, 296
Fuzzy Analytic Hierarchy Process (FAHP)	genetic code structure 307
261, 263	genetic operators 291
fuzzy analytical modeling techniques 262	genomics 307
fuzzy arithmetic 265	geographic information system (GIS) 160, 161,
fuzzy comparison matrices 270, 271	162, 163
fuzzy comparison matrix 271	geographical 160
fuzzy data analysis 265	geographical limitations 336
fuzzy evaluation matrices 271	geographical region 217
fuzzy evaluations 265	geographically dispersed IT systems 63
fuzzy extended AHP approach 275	geophysical 160
fuzzy graph theory 265	Germany 196
fuzzy logic 264, 265, 268	GIS technology 159, 160, 161
fuzzy logic terminology 264, 268	GISEM model 163, 164
fuzzy mathematical programming 265	global competition 230, 262, 307
fuzzy modified AHP (fuzzy-AHP) 274	global distribution 327
fuzzy numbers 263, 266, 267, 270	global economy 344, 345, 358, 359
fuzzy set 264, 265	global emergency management information
Fuzzy set theory 263, 265	network 160
fuzzy set theory 264, 265	global environment 270
fuzzy synthetic extent value 270, 271	global ERP 1, 16
fuzzy techniques 114	global information 330
fuzzy-AHP 261, 263, 264, 265, 270, 272,	Global Information Systems (GIS) 159
274, 275	global knowledge based economies 304
fuzzy-AHP approach 264, 275	global knowledge economy 304, 306, 307, 3
	10, 312, 317, 318, 319
G	global LLP environments 267
GA (Genetic Algorithm) 282	global market intelligent firm 137
GAF Materials Corp 335	Global Market Ranking (GMR) 267
Gap Analysis 52, 56, 57	global markets 211
gap analysis phase 52, 57	global player 267
garbage in and garbage out process(GIGO) 123	global service providers 261
gas utility 104	global sourcing 308
gateway 47	global supplier 263, 271
general blood 211	global supply chains 261
general model 156	global support 159
	global village 308
General Motors 227, 281, 301	globalization 340
general rule 28	globalized business environment 21
general rule 28 generalist professionals 27	globally optimal solution 210
	glue-code 41
generality 361	goal 3, 5, 6
generalized assignment approach 215	-, ·, ·

	1 1 210
Godrej 333	hardware 310
going live with ERP 82	hazard database 165
Gold suppliers 228	headquarters 328
Go-Live 66, 70, 73	health care application 210
good coordination 274	health services 212
good modeling 228	healthcare 307
good practices 1, 7	hectic task 119, 137
good programming 24	heterogeneous 172, 174, 176
goods 344, 345, 348, 350, 351, 353	heterogeneous capacitated vehicles 221
goods and services 336	heuristic 210, 211, 215, 216, 217, 218,
Google Maps 268	219, 221, 222, 223, 224, 225, 231,
governing element 350	232
government / public sector enterprise 212	heuristic methods 231
government of India 212	heuristic search processes 109
government regulations 229	heuristic solution 215, 295
government sectors 212	heuristics packages 231
GPS enabled devices 268	Hewlett Packard 9, 281
grain suppliers 228	Hewlett-Packard 345, 353, 359
grassroots 196	hierarchy 264, 275, 276, 277
greater competitiveness 307	high customer satisfaction 261
greatest challenges 327	high customer service 312
Greedy Randomised Adaptive Memory Pro-	high expertise 231
gramming Search (GRAMPS) 217	high extent 21, 27, 28, 29
gross margin 97	high frequency of builds 25
gross margins 63, 64, 66, 71	high level languages 140, 141
gross profitability ratio 97	high level model 141, 153
group interaction 9, 11, 15	high level of service 309
Group Leader (IT) 68	high Net Realizable 66
groups facilitating 70	high quality 261
growth dominated by IT 196	high specialization 30
growth of enterprise wide information systems	high value 306
197	high-ceremony 26
growth strategies 196	higher degrees 30
guarantee delivery 174	higher dependency 176
guard conditions 143	higher level IT systems 327
GUI navigation 28	higher service levels 323
**	higher-priority projects 161
Н	highest level 172
hackers 161	highest priority 266, 271
Hand holding training 69	highest weight 266
Handheld devices 176	high-income countries 307
Handling timer events 176	high-level management perspective 14
handsets 164	highly flexible 28
hard evidence 15	highly fluctuating 360
hardening infrastructure 164	highly problem-dependent 231
harder constraints 218	highly recommended 175
naturi constiants 210	

high-market shares 317	human resources 148
high-stake constraints 24	Human sophistication 196
Hindustan Oil Corporation (HOC) 344	human's judgements 268
Hindustan Unilever 332, 333	human's judgments 264
Hindustan Unilever Limited (HUL) 332	human-computer interaction 3
historical data 123, 124, 136	hunger 159
historical sales pattern 328	Hurricane Hugo 161
holding cost 361, 365, 366, 367, 372	Hurricane Katrina 160
holding in real-time 329	hurricanes 161
holistic integrated business transactions 41	
Holland 40, 44, 50	I
home & personal care products 332	I/S 167
Home Depot 227	
homogeneous 212, 217, 218	IBM 9
homogeneous vehicles 212, 218	IBM Global Services 63
hood of decreased profit 278	IBM WebSphere Business Integration (WBI
horizontally asymptotic 25	154
horror stories 44	IbusinessIntegrationServices 46
hospital level 215	ice cream 332
host farmer 331	IdataShare 46
hosting 25, 27, 28, 31	Identification 107, 116
hosting status 25	identification 262
Hot Strip Mill 71, 72	identify challenges 197
hotels/motels 164	identify improvement 43
HTTP 134	ill structured problems 270
Hubs 66	illustrate 240, 358
HUL stockists 332	illustration 263, 270, 272, 329
	image processing 336
human (expert) knowledge 93 human brain 92	imaging technology 334
	Implantation 108
human capital 308	implementation 226, 227, 231, 232, 233,
human cognitive processes 92	238, 239, 240, 241, 245
human decision making process 266	implementation constraints 43, 84
human decision-making 232	implementation details 43
human economic activity 306	implementation process
human feelings 266	76, 77, 79, 80, 81, 85, 90
human genome 307	implementation projects 76, 77, 80
human information analysis processes 92	implementation risks 195
human interactions 316	Implementation stage 83
human intervention 327	implementation technicalities 141
human mind 92	implementation technologies 140, 156
human preference model 264, 270	implementation technology
human preferences 264	140, 141, 144, 145, 157
human reasoning 264, 265	implementation tools 43
human related issues 176	implemented functionality 49
human resource management 77, 308	implemented hardware 70
human resource requirement 325	implemented successfully 327

implementing 312, 314 in-depth understanding 94 implementing BI 135 Indian companies 323, 337, 339, 340 implementing EDI 333 Indian Enterprise Applications software license Market 197 implementing software components 43 Indian farmers 330 implications 3, 5, 14 import and export 212 Indian market 197 important critical success factors 85 Indian market 333 important risk factor 201, 204 Indian mid-market 196, 197 imprecise ranking 270 Indian petroleum industry 331 imprecision 264, 265, 266 Indian rupees 267 improper conversion 76 indicators 57, 58 improper management structure 204 indirect consequences 262 improve competitiveness 227 indirectly connect 305 improve effectiveness 230 individual 306, 308, 309, 313 improve performance 233 individual business performance 327 Improvement of Order Generation and Fulfillindividual customer orders 346 ment processes 64 individual development environments 27 Individual enterprise level 177 improving business processes 196 improving component robustness 164 individual interviewing 15 improving efficiency 196 individual preferences 266 improving network resilience 164 individual product 344 improving technologies 328 individual product tracking 334 in practice 231, 233, 242 individual similarities 94 inability 264 individual's preferences 121 inadequate internal expertise 205 industrial companies 20 inadequate training 201 industrial economy 305 inadvertently broken 25 industrial facilities 164 Incompatible systems 327 industrial transformation 305 incorporate other data 330 industry best practices 77 increase people competencies 307 industry consortium 144 increased growth 197 industry segments 20 increased sales 314 Industry trends 340 increases accuracy 195 ineffective communication 201 increasing complexities 197 inefficient producers 62 increasingly demanding global markets 211 infinitesimal generator incremental 23, 25, 26, 28, 29, 30, 39 362, 363, 364, 368, 369, 370 incremental lifecycles 23 influencing 335 incremental load 110 influential parameters 229 incremental periods 107 Information and Communication Technology incremental requirements elicitation 28 (ICT) 120, 304, 305, 310 incrementally evolved 25 information availability 325 independent variables 56 information exchange 274 independently deliverable set 42 information extraction 171 independently used 41 information flow 176, 325 in-depth analysis 92 information islands 169 in-depth study 64 information management 337

Information Modelling 108	initial point 299
information overload 21	initial state 362
information passing 28	initial values 143
information poor 119	innovation 305, 307
Information Preprocessing 107	insider trading 335
information retrieval 119	Inspector documentation 110
Information Review 107	instable requirements 23
information sensitive society 304	installation 349, 351, 355
information sharing 226, 227, 228, 230,	installation phase 78
232, 240, 241, 251, 252, 326, 332	installation policy 358
Information Sharing Programs (ISP) 229	instant access 330
Information System 103, 104, 105, 109,	instantaneous 361, 362, 366
110, 111, 112, 114, 115, 116, 141, 155	institutional 306
information technologies 160	instrumentation engineering 331
information technologies 305, 324, 326	intangible assets 305
information technologies manager 160	Integrate online sales 64
information technology (IT) 120, 226, 227,	integrate structure 38
228, 229, 241, 242, 305, 309, 313,	integrated applications 175
314, 316, 318, 323, 324, 325, 340	integrated back-office 310
Information Technology enabled	integrated knowledge 126
226, 229, 233	integrated management 345
Information Technology Enabled Vendor Man-	integrated planning 62, 72
aged Inventory 228	integrated process 361
Information Technology in the Supply Chain	integrated software package 40
333, 342	integrated solution 327
information technology systems 152	integrated supply chain 262
information treatment 104, 105, 110	Integrated Systems 104
information visibility 64, 71	integrated without testing 167, 168
information-asymmetric 239	Integrating new applications 327
informative purpose 123	integrating non-core processes 85
Infosys 337	integrating tasks 171
infrastructural topic 25	integration 128, 167, 120, 168, 169, 170,
infrastructure 141, 160, 162, 163, 164,	171, 172, 174, 126, 175, 176, 128,
169, 172, 177	177, 178, 179
infrastructure 239	integration approach 171
Infrastructure Management Services 196	integration hell 25
infrastructure projects 331	integration of activities 230
infrastructure-telephone lines 163	integration solutions 169, 176
inherent objective functions 281	integration strategies 41
inherent trade-offs 264	integration techniques 116
in-house development 28, 31	integration tests 24, 29
in-house Enterprise Solutions 85	integration-ware 176
in-house R&D 137	intellectual advantage 196
in-house systems 63	intellectual capital 305, 308
in-house team 63	intellectual investment 140, 156
initial condition 363, 370	intellectual property 141
	· · · · · · · · · · · · · · · · · · ·

intelligence 305, 314, 335, 342 inter-organizational knowledge sharing 306 Intelligence Quotient (IQ) 305 inter-organizational relationship 4 Intelligent Wireless Web services 241 inter-organizational relationships 3, 5, 6, 18 intense learning occurring 92 inter-organizational systems 4 intensity of transition 362, 369 interpretation 92, 93, 94, 95, 96, 97 inter process level 176 interpretation processes 101 interactive computer based system 230 interpretations 99, 101 interactive relationship 309 inter-relationship 56, 81, 359 interactive voice response (IVR) 128 inter-stockyard transfers 66 interchangeability 41, 48 in-transit material 268 inter-company coordination 4 intra-organizational context 4 intercompany level 313 Inventory 344, 348, 352, 353, 355, 356, inter-connection 174 357 interdepartmental communication 80 inventory control system 362, 366, 367 interface integration 175 inventory data 131 interfaces 168, 169, 171, 174, 176 inventory location 214 inter-firm relations 316 Inventory Management System (IMS) 168, inter-functional conflicts 227, 230, 241, 242 212, 215, 224, 310, 312, 344, 345, intermediate processes (middleware) 109 356, 357, 358, 359 intermediation 5, 12 inventory reduction 195 internal business functions 168 inventory speed 317 internal business users 339 inventory system 344, 345, 348, 349, 350, internal communicators 128 351, 355, 356 internal consistency 197 inventory turnover 98 Internal Contributing Team 84 inventory visibility 64, 67 internal culture 327 investment 161 internal IT Teams 85 investment 97, 99, 100, 101 Internal process level EAI 172 investment in IT 327 internal stakeholders 78 involuntary churn 122 Internal Supply chain Management(ISCM) 347 involving intranets 176 Internal Team 84 involving timers 176 International Strategy for Disaster Reduction IOS sophistication 5 160 IprocessIntegrationService 46 internet connection 121 iron and steel-making activities 66 internet connectivity 200, 202, 204, 205 IRR (internal rate of return) 98 Internet functions 310 ISM (Interpretive Structural Modeling) 267 Internet presence 309 IT architecture 62 IT based abilities 268 internet resources 10 Internet sales 70 IT based solution 63 Internet standards 335 IT Consulting 196 Internet/intranet 314 IT conversion process 78 Internet-based applications 337 IT demonstrations 323 Internet-based network 332 IT department 154 Internet-based supply chain 339 IT destination 196 Internet-oriented consumer demand 309 IT enabled networks 268 inter-organizational information systems 316 IT environment 177

IT hub 196	joint distribution 362
IT implementation 78	joint production planning 227, 230, 241
IT infrastructure 76, 325, 328	jointly managed 359
IT initiatives 325, 331	judgments 264, 265, 266, 270
IT innovations 312	junk data 123
IT Intellectual advantage chart 196	Just In Time (JIT) 263, 311, 325
IT knowledge 79	Just-in-time strategy 354
IT legacy systems 61	T 7
IT perspective 331	K
IT project 26, 78	Kabira Technologies 144
IT related projects 40	Karl Pearson's Coefficient 55
IT service companies 339	Karnataka 330
IT service provider 340	keeping knowledge confidential 306
IT strategy 340	Kennedy-Carter 144
IT supported method 263	key activities 65, 69
IT system 154, 325, 327	key element 345
IT technologies 221	key issues 206
IT tools 323, 326, 337, 340	key measures 313
IT Use process 78	key participation forms 5
IT-based integrated supply chain 331	key role 308
ITC lifestyle retailing 339	key strategic issue 307
ITC Limited 330	Key User Group 84
ITC's international business division 330	key users 30
iteration 23, 24, 25	killed 160
iteration periodic retrospectives 23	Kirloskar 333
iterative 23, 25, 26, 28	KM users 44, 46
Itime-constrained Services 46	knowledge 262, 267
IT-powered system 332	Knowledge about customers 121
Iwebservice 46	Knowledge Acquisiton 107
т	Knowledge ages 306
J	Knowledge Assimilation 108
Jamshedpur 62, 66, 68	knowledge collected 92, 93, 94, 97
Japan 314, 320	knowledge database 110
JasperSoft 138	Knowledge Discovery (KD) 120, 121, 123
Java 140, 141, 144, 145, 146, 155, 156	Knowledge Discovery in databases (KDD)
jeweler 330	123, 127
job 111	knowledge economy 304, 305, 306, 307,
job categories 149, 150	310, 312, 314, 317, 318, 319
job descriptions 145, 149	Knowledge extraction 107
job offers 148	Knowledge facilitates 317
job opening 149	Knowledge for customers 121
JobBoard 149	Knowledge Formalization 108
jobCategory 149, 150	Knowledge from customers 121
JobDescription 150	knowledge management (KM) 40, 43, 44,
JobOpening 149	305, 307, 309, 316, 317
jobs and responsibilities 201	knowledge possessed 92

knowledge utilization 307 legacy applications 169 knowledge worker 312 legacy code 26 knowledgeable leader 327 legacy data 77, 78 knowledge-based activities 307 legacy IT systems 196 knowledge-based customer 305 legacy SAP 340 knowledge-discovery technology 104 legacy systems 61, 62, 63, 66, 73, 79, 80, Kolmogorov- forward equation 363, 370 167, 169, 170, 172, 175, 178 KPIs (Key Performance Indicators) 65 legacy technologies 30 less damage 160 L less-than-state-of-the-art development tools 27 less-than-truckloads 329 labor planning 329 Level 1 6, 7, 8, 9, 14 lack of effective methodology 204 Level 2 6, 7, 8, 9, 11, 13, 14 lack of integration 213 Level 3 6, 7, 8, 9, 11, 13, 16 Lagrangian relaxation method 300 Level 4 6, 7, 8, 9, 11, 13, 14 LALR(1) grammars 95 level of performance 231 landslide 161 levels of integration 168 language structures 97 Lexicon 38 Laplace transform 362, 367 Libbey-Owens-Ford 281, 302 large implementation 62 license administrators 128 large numbers 197 life saving medical drugs 212 large scale information system project 57 life time value (LTV) 120, 131, 139 large scale manufacturing organizations 195 lifecycle 22, 23, 25, 28, 34, 122, 129, 148 large scale systems 42 life-cycle support 43, 49 large scale telecomm 42 life-saving activity 211 larger process 52 light globes 25 large-scale disaster response 161 light rework 28 large-scale systems 155 lightweight integration tasks 335 largest possible value 265 Likert rating 267 Larsen and Toubro 331 Likert scale 201, 267 last decade 20 limitations 20, 30, 31, 83 Late Integration Problem 28, 34, 38 limited 309, 313, 314 later phase 308 limited manpower resources 160 later stage 174 limited resources 270 Lead 261, 262 limiting distribution 362, 364, 370 Lead Logistics Provider (LLP) 261, 262 linear fashion 226, 227 lead times 351, 353, 360 linear relationship 242 Lean Development 20, 27, 35, 36 line-haul 215, 216, 217, 218 Lean Manufacturing 20, 21, 22, 33, 35 linguistic 92, 94, 97 Lean Manufacturing techniques 20, 21 linguistic assessment 266 lean philosophy 21 linguistic evaluations 264 Lean Software Development 22, 33 linguistic preferences 263, 270 lean techniques 20, 22 linking the enterprises 176 Lear Automotive 9 liquefied industrial gases 335 learning of new 306 liquidation 76 learning organization 62 list of savings 155 learning systems 92

literature 261, 263 low process 354 literature sources 4, 7 low product specificity 354 LLP scenario 267 Low tension 117 load feasibility 218 low tension client consumption 106 local database 47 low tension contracts 106 local LLP operators 267 low unit cost 312 Local Market ranking (LMR) 267 lower inventory 323 local optimal solutions 210 lower supply chain costs 323 location 229, 230, 243, 249, 250 lowest cost producers 62 location alternatives 352 loyal customers 122, 124, 125 location information 334 loyalty programmes 122, 130 location of inventory 324 LR(1) grammars 95 location-dependent costs 215 \mathbf{M} Lockheed Martin Aeronautics 155 logging facility 336 Madhya Pradesh 330 logical constructs 144 Madura Garments 337 logistic systems 268 Maharashtra 330 logistics 279, 281, 301, 302, 303 Mahindra 331, 333, 337, 339, 340, 341, Logistics apparatus (LAPP) 267 342 logistics characteristics 240 main activities 78 logistics decisions 231 main marketing office 65 logistics information sharing 5 main problems 165 Logistics integration 232 main stream market 173 logistics management 308 mainframe based 61, 63, 68, 70 logistics management activities 324 mainframe based technology 63 Logistics Management problems 211 mainstream technology 156 logistics of moving 333 maintaining this system 165 logistics problems 231, 239 maintenance cost 331 logistics process management 262 Maintenance Cost (MCOST) 267 logistics systems 325 Maintenance efforts (ME) 56, 57, 58 Logistics technology (LTEC) 267 Maintenance Management (Pilot Project) 68 long durations 172 maintenance projects 14 long term loval customers 122 major concern 53 long term relationship 122 major consumer businesses 313 long-term competitive advantages 308 major cost cutting 67 long-term customer value 122 major cultural 26 long-term perspective 119 major delays 62 long-term risk 161 major industrial houses 333 long-term trading 327 major multinationals 327 long-term value 120 major procedural 67 loosing lives 165 major producers 62 loss of flexibility 70 major role 306, 308 loss of material 268 major technologies 155 lost sales 344, 356 manage 195 low cost 28 manage project lifecycles 172 low inventory management 312 Management Consultants 83

management instruments 309	manufacturing plan 264
management levels 204	manufacturing process design 316
management of demand 308	manufacturing sector 141
management of the dependencies 172	manufacturing strategy 263
management philosophy 308	manufacturing system 47, 48
management practices 308, 314	ManufacturingKnowledgeBase 48
management software systems 310	mapping 22, 27, 30, 31, 35, 36, 37, 77,
management strategy 326, 332	79, 82
management support 79, 80	mapping 264
management tool 57	margin-based decision making 71
management-centered approach 23	Marico Industries 314
managerial concept, knowledge management	market conditions 229
305	market place 26
managerial judgment 230	market-based problem 129
managers 61, 67	marketing 279
managing processes 83	marketing 41, 53
managing relationship 308	marketing actors 309
managing the flow 308	marketing development 63
manifest 22	Marketing Development processes 63
manifold increase 131	marketing efficiency 134
man-made hazards 161	marketing efforts 120
manpower 160, 165	marketing function 64
manpower 78	Marketing Management System (MMS) 122,
manual labor 154	168
manual measuring 106	marketing programmes 330
manually 159, 160, 161	marketing strategies 122
manufactured parts 308	marketplace 310
manufacturer 233, 238, 239, 240, 328,	marketplace operators 336
335, 336, 338, 339, 342, 358	Markov Chain 362, 364
manufacturer's inventory 344, 358	Markov process 362, 368, 370
manufactures 345	mass change 70
manufacturing 229, 233, 245, 248, 249,	massive reviews 107
250, 252, 279, 280, 281, 284, 295,	Material control 352
298, 345, 350, 353, 354, 359, 360,	material flow 308, 350, 352
361, 362	material goods 159
manufacturing computer 47	material management 195
manufacturing computer control system 47	material ordering policy 353
manufacturing costs 66	Material ordering quantities 352
Manufacturing cycle 346	material requirement policy(MRP) 352
manufacturing database 47	material requirements planning 325
manufacturing divisions 330	Material response times 353
manufacturing enterprises 197	materials management 64, 68, 195, 308
Manufacturing Execution System (MES) 315	
	materials management era 308
• • • • • • • • • • • • • • • • • • • •	materials management era 308 mathematical articulation 231
manufacturing industries 211	mathematical articulation 231
• • • • • • • • • • • • • • • • • • • •	

mathematical model inputs 352	meticulous planning 206
mathematical modelling 241, 344	metrics 51, 52, 53, 54, 55, 56, 57, 58, 59
mathematical models 231, 344	metrics business 53
mathematical programming model 270	metrics program 52
mathematically represent uncertainty 264, 265	metrics questions 52
matrix 40, 44, 45	microprocessor 119
matrix driven model 44	Microsoft 29, 30, 33
matrix equation 364, 370	Microsoft COM/DCOM/.NET 43
matrix expansion 363, 370	Microsoft Dynamics Navision 30
maximization of profit 212	Microsoft technologies 332
maximum inventory capacity 372	Midas 314
maximum inventory levels 361, 362, 367	Middleware brokers 174
MDA approach 140, 141, 145, 148, 151,	mid-market 196, 197
152, 153, 154, 155, 156, 157	mid-term perspective 325
MDA principles 157	migration 65
MDA tools 151, 156	migration of customers 130
MDA-based tools 140, 156	mindset 81
MDA-compliant 155, 157	minimal conditions 109
MDA-compliant vendors 155	minimum concentration 241
meaning-based analyses 99	minimum in-transit loss 268
meaning-based description 100	minimum landed costs 332
meaning-based interpretation	minimum permissible values 100
91, 92, 93, 99, 101	minimum safety stock 352, 354
measurement process 53	mining 310
mechanisms 169, 174, 175	mining data 327
medical facilities 164	Ministry of Science 101
medical items 212	ministry of transport 333
medical supplies 212	mirror required processes
medicine distribution 211	198, 200, 203, 204, 205
mega projects 330	misalignment 21
membership function 265	misalignment discussion 4
Mentor Graphics 144	misalignments 4, 5, 10, 15
Merck and Co 335	misfit 4, 20, 21, 22, 30, 34
mergers 141	mismatches 43
Message-oriented middleware 179	missiles 42
Metadata 124, 179	missing 314
Metadata is Information 179	mission 120
meta-heuristic 211, 217, 221	mis-specification 76
meta-heuristics 210	mitigate 195
Metanodes 36	mitigate risks 308
Method level EAI 171	mitigating 205
methodological 79, 80	mitigation 160, 161, 162
methodological framework 197	mitigation efforts 162
methodologists 11, 14	mixed integer programming model 281
methodology 103, 104, 105, 107, 108	Mixed Vehicle Routing Problem with Back-
Methodology design 116	hauls 210, 211, 213, 214, 221, 222

Mixed Vehicle Routing Problem with Back-	motor carrier 324
hauls (MVRPB) 210, 211, 213, 216	mould business processes 40
mobile 42	MRO items (Maintenance, Repair and Opera-
mobile communication 128, 164	tional items) 67
mobile devices 164	MRP II success 80
mobile home parks 164	
	Multi Source Simple Objects (MSSO) 137
mobile phones 268	multi-attribute decision making tool 270
mobile systems 159, 161	multi-criteria decision making processes 264
Mobile Technology 85	multi-criterion decision making technique 264
Mobiles 176	multi-echelon 228, 250
mode 128, 133	multi-echelon inventory models
mode of transportation 324	345, 348, 349, 359, 361
model 195, 201	multi-echelon inventory system
model 261, 263, 264, 267, 270, 272, 274,	345, 348, 349, 350, 358, 359
275, 276, 277	multifaceted relationship 313
model construction 156	multi-module application packages 1
Model Driven approach 36	multi-national production 329
Model Driven Architecture (MDA) 140, 141,	multiple buyers 228, 241, 243, 251
155, 157, 158	multiple correlation 56, 57
model incorporating 78	multiple immediate successors 349
model transformation 140, 141, 145	multiple languages 174
model-centric approach 140, 141	multiple objectives 221
modelers 142, 144, 155, 156	multiple software components 42
models 344, 345, 348, 349, 351, 352, 353,	Multiple vendors 228
354, 355, 356	multiple warehouses 350
MODEM 117	multistage inventory system 345, 358
moderator's 15	multi-user perspective 44
modern business practice 304	music technologies 42
modern ERP systems 2, 3	Mutation functions 292
modern inventory management systems 329	mutual advantage 326
modern logistics business organizations 262	mutual benefits 240, 317
modern programming languages 140	mutually beneficial 348
Modern programming techniques 24	mySAP.com 70
modernizing 169	•
modification 104	N
modified form 364	NASA 335
Modifying the parameters 354	NASA's Jet Propulsion Laboratory 335
Module Leaders 68	National Association of Purchasing Managers
modules 79, 82	267
monetary factors 130	natural disasters 160, 165
money turnover 229	natural language processing (NLP) 118
monitoring 52, 58, 329, 332, 335	natural objective 359
monopoly 229	Natural reasons 104
Monster Canada 134	
Moore's law 119	natural situation 28, 34
most suitable solution 169	naturally 159
	Nature of Measurement 55

navigable 146	Nexedi 36
near-zero shrinkage 340	next generation integration system 169
necessary components/modules 154	nightly schedules 107
need 167, 168, 169, 172, 175, 176	no deviation 366
negative change 55	node 360, 361, 362, 363, 365, 366, 367,
negotiation 335	368, 369, 371, 372
negotiation process 264	node of origin 218
nested policy 351, 360	non involvement 201
net profitability ratio 97	non resolution of problems 204
Netherlands 14, 15	non technical losses 104
network 176, 178, 179,	non-core product categories 238
network architecture 278, 284, 287, 301	non-inferior purchasing options 264
network missions 324	Non-Linear Inertia 296
network model 325	nonlinear mathematical programming model
network of facilities 345, 359	281, 352
network of interconnected businesses 324	mon-MDA approach 155
network operation centers 164	non-mission enhancing activities 155
network optimization 278, 283, 300	non-nested policies 360
networked PCs 47	non-perishable 351, 360, 361
networking 159	non-programmers 156
networking, internet 42	non-saleable garments 339
neural network 305	non-technical loss 104, 105, 114, 115, 116
Neural Networks (NNs) 282	non-technical observers 165
new age technologies 85	non-terminal symbol 95
new application systems 169	non-U.S. companies 1
new challenges 312	normal OLAP operations 124
new channels 333	normal operations 78
new code 43	normal patterns of consumption 113
New Delhi 242, 249	Normalization 267
new delivery 38	normalizing condition 364, 370
new era of business computing 169	normative models 241
new generation of software 167	NPM (net profit margin) 97
new information 15	NPV (net present value) 98
new knowledge 306, 307	NULL value 147
new modules 22, 34	numeric predictions 125
new opportunities 25	numerical examples 361, 365, 366, 372
new products 313	numerical function 283
new requirements 24, 34	numerical search procedure 365, 372
new significance 95	numerical searching algorithms 361
new skills 307	numerical study 366
new system 200, 201, 202, 203, 204, 205	numerical values 264, 265, 270
new technologies 103, 141, 169, 172	nutritional supplements 334
newContent 37	
newer solutions 76	0
newly gained knowledge 125	Object Constraint Language 140, 142
newly-developed knowledge base 93	object level integration 175
newspaper article 53	

Object Management Group (OMG) 141,	operating margin 97
142, 155, 157, 158	operating system 24
objective evaluation 57	operational 211, 213, 221, 226, 228, 232,
objective function 352	241, 242, 252
objective value 221	Operational Boundaries (OPBR) 267
ocean freight 324	Operational CRM 128
OCL expression 143	operational CRM systems 126
offline delivery strategy 332	operational decisions 346, 350
off-the-shelf 137	operational excellence 62
off-the-shelf applications 76	operational issues 226, 228
off-the-shelf tools 27	operational level 121, 307
OG&F function 64	operational perspective 279
OG&F process 64	operational terms 308
oil overflow 161	operations 61, 62, 63, 66, 71, 72
Oklahoma City 161	operations synergy 5
OLAP operations 124, 125	operations texts 229
OLAP technology 137	opportunities 5
old knowledge 307	optimal channel mix 128
old presentations 172	optimal cost 366
old-fashioned strategies 307	optimal operational parameters 242
oligopoly 229	optimal policy 215
OMG principles 157	optimal solution 231, 241
OMG's CORBA 43	optimal total cost 215
one echelon 344	optimal values 365, 366, 372
one-for-one policy 360	Optimization 278, 280, 282, 284, 286,
one-system-fits-all 168	287, 289, 291, 296, 301, 302
ongoing operations 172	optimization algorithms 231, 280, 283
online analytical processing (OLAP) 119, 122	optimization criterion 358
on-line channel 121	optimization model 352, 353
On-line credit check 64	optimization packages 231
online information 339	optimization point 211
online interaction 332	optimization techniques 231
online order 332	optimizing recovery speed 164
online resume mining services 134	optimum inventory levels 332
On-line shopping 311	optimum paths 278
online tracking facilities 120	optimum ratio values 99
Online Training Material 65, 69	Oracle 132, 133, 137
online training material 69	Oracle Applications 333
Ontario 11	order batching 238
open source 28, 30, 31, 36	Order Generation and Fulfillment 63, 64, 67
open source ERPs 31	Order Generation and Fulfillment & Marketing
open-source architectures 138	development 63
operating control 324	order generation and fulfillment process 64
operating costs 334, 337, 338	order picking 329
operating efficiency 229	ordering 361, 367, 372
operating leverages 261	organic light-emitting diode 305

organisation 41	P
organisation willingness 80	
organisational transactions 40	P12 12, 13, 14
organization 305, 306, 307, 308, 309, 310,	PaaSi.e., Platform as a Service 134
311, 312, 313, 317, 318, 319	package applicant 149
organization in particular 206	package jobs 149
organization network 3	packaged products 308
organization network research 3	packages 149
organization under study 201	Packaging 41, 308
organization units 161	pairwise comparison scale 263
organizational aspects 226, 227	Pantaloon 333, 337
organizational boundaries 5	paper-based transaction 325
organizational change processes 137	paperless environment 336
organizational changes 52, 58	paradox 28, 31
organizational competencies 307	parallel stream 77
organizational decision-making activities 335	parameter determination 241
organizational learning 305	parameters 167, 172, 174,
organizational maturity 83	229, 231, 239, 242, 267
organizational performance management 305	parcel 324
organizational processes 26	parser algorithm 94, 95
organizational resistance 227, 230, 241, 242	parsing principle 95
organizational resistance or inertia 76	participant observation 15
Organizational risks 197	participating companies 2
organizational semiotics 3	Particle Position 287
organizational size 239	Particle swarm optimization (PSO) 278,
organizational structure 197, 328	280, 282, 284, 286, 287, 294, 296,
Organizations 119, 195, 198, 310, 311,	301, 302
312, 313, 314, 317, 318, 319	Particle Swarm Optimization algorithm
orientation 305, 309, 312	278, 280, 300
other applications 168, 171	particular implementation tools 43
Out-bound transportation costs 284	partner channel 28, 31
outdating 211	partner companies
outmoded technologies 161	2, 3, 5, 7, 10, 12, 13, 14, 15
out-of-box thinking 311	parts supplier 358
out-of-stock inventory, 332	payment dues 70
Output 352, 353	payment policies 240
output format 109	payment systems 311
output process 362, 368	Payroll, Finance 37
Outsourcing 238	PC assembly operations 328 PDAs 176
outsourcing 340	
overall software 25	penalty functions 299
overall success rate is low 76	Pentaho 138
overall system 195	people 168
overcapacity 62	people-oriented 22
overdue debt 62, 64	PeopleSoft 137, 169, 171
over-engineering 26	perceived market 267
owner-operated 324	perception 264, 335

positive change 327	price decrease 317
positive results 61	price of data 307
positive value 313	price realization 67
possible collapse 65	price variations 234, 238
possible risks 160	price-sales quantities 242
post sales services 129	pricing 229, 239, 241, 242, 243, 244, 248,
postal clearance 212	249, 250, 252
postcondition 143	pricing and conditions 66
postconditions 142, 143, 144	pricing details 169
posted job openings 134	Pricing mechanism 229
potential 122, 128, 131, 132, 135	pricing pressure 340
potential benefits 339	primary components 355
potential collaboration 324	Primary data 201
potential damage 160	primary tool for reengineering 196
potential suppliers 270	prime component 172
potential users 29	primitive form of EAI 171
poverty 159	principles 22, 23, 26, 27, 28, 30, 31, 35
power utilities 106, 108	priorities 263, 264, 266
power utility 104, 111	priority weights 266, 270, 271, 272
powerful computing 24	private attribute 146
powerful development tools 24	private carrier 324
powerful technology enablers 312	Private Limited 340
practical compromise 216	private sector enterprise 212
practical state of affairs 213	proactively 335
practices 330, 332, 340	probability distribution 364, 370
practitioners 40, 78, 79	problem-dependent 231
Precise Action Semantics 144	problems 263, 264, 265, 270, 275
precondition 142, 143	problem-solving techniques 335
pre-configured path 77	problem-specific 231
pre-configured standard processes 77	procedural challenges 205
predetermined market segment 226, 227	procedures 173, 174, 178
predict 141	Process and gap analysis 63
predictive analysis 132, 135	process based approach 78
predictive strategies 26	process control systems 327
pre-disaster planning 160	process database 44
preferred commodities 229	process integration identification 28
preparedness 160, 161	Process level EAI 172
Preparedness in the pre-disaster stage 161	process management 76, 80, 82
present day environments 262	Process manufacturers 327
Presentation level 172, 176	process mapping 79
Presentation level EAI 172	process model 78, 83
pre-tested & modified 201	process of globalization 197
Prevention/Mitigation 161	process performance data 44
preventive 268	process plan module 199
previewing 95	process plant maintenance 67
price band-wise 330	process reengineering 195, 197, 198, 199

process route 77	productivity 307, 310, 314, 318
process transactions 331	productivity assessment 57
processes 279, 281, 282, 283	product-line approach 42
processes efficiency 310	product-plant assignment 352
processing 211	products and receivables 64
processing times 353	products on display 334
process-oriented 3, 8, 10, 22	professional basis 11
Proctor & Gamble (P&G) 228, 326	profit 125, 129, 132
Proctor and Gamble 335	profit distribution 230
procurement 279, 280, 281, 283, 284, 298,	profit generation 229
300, 324, 332, 333, 345, 359	profit margin 97
Procurement cycle 346	profit maximization 230, 241
procurement of materials 359	profit ratios 230
procurement, processing 211	profit sharing 227, 230, 241
procuring materials 279	profitability 306, 310, 312, 317, 346, 347
product configuration 354	profitability 62, 64, 66, 72
product customization 30	profitability analysis 62, 64, 66, 72
product development 331, 333	profitability status 196
Product Development Management (PDM)	profitable customers 120, 124
305	profit-and-loss 1
product flow independent 316	profits 314, 318, 319
product improvement program 52	program 195, 196
product levels 353	Programmed Blood Distribution System
product life cycles 317	(PBDS) 215
product mangers 128	programmers 205
product marketing 239	programming environment 141
product mix 66, 67, 71, 72	programming language 24, 142, 145, 155
Product properties 232	programming units 22
product services 41	Project characteristics 44
product technology level 79	Project Charter 79
product/service 313, 318	project control 57
product's life cycle 310	Project effort 44
product-group level 71	project environment 176
product-group levels 62	project execution 44
Production control 352	project failures 76
production cycles 195	project management 61, 62, 78, 79, 80,
production facilities 324, 334	198, 200, 201, 203, 205, 206
Production lot sizes 353	project management aspects 203
production planning 37, 61, 77, 227, 230, 240,	project management issues 201, 202
241	project management method 26
production process 20, 70	project management toolset 37
Production Recording 68	project manager 57
production requirements 352	Project Manager (PWC) 68
production scheduling 279	Project Manager (TSC) 68
production similar environment 25	Project OG&F 64
production-quality 23, 35	project outcome 77
r	FJ 0 00000

project planning 44 Project Rollout 78	Push processes 347 Push/Pull View 346
Project SAP Extension 64, 71, 72 Project schedule 44	Q
project size & structure 205	QR (quick ratio) 98
project specificities 25	qualifications 307
project tracking 23	qualitative situations 265
Project Visioning 69	quality 261, 263, 267, 268, 276
project work structure 79	Quality Assurance 179
proliferation of products 329	quality control 57, 211
prominence 345	quality factors 58
promise 355	quantified 52
promoting simplicity 23	quantitative form 270
proper (content-related) classification 92	quantitative knowledge 44
proper APIs 29	quantity 268, 360, 366
proper calling chains 28	Quantity property 37
proper message delivery 174	Quebec 11
proper project phasing 79	queries 124
proper testing guidelines 176	questionnaire 201
proper training program 332	questionnaire 267, 270
proponents 22	questionnaire-cum-interview technique 201
proposals 20	Quick trouble shooting 318
proposed methodology 217	quicker production cycles 329
Proposed solution procedure 240	D
prospective customers 129	R
prospective employees 134	R&D 199, 200, 202, 204, 205
Prospects 122	radical improvements 327
proteomics 307	radio frequency (RF) 329
prototype 23, 37, 38	Radio Frequency Identification (RFID) 240,
prototype system interfaces 70	334, 342
provide guidelines 77	radio towers 164
provide services 212	railroad 324
providing redundancy 164	Rajasthan 330
proximity 22	Ramco Marshall 333
PSO algorithm 280, 283, 287, 289, 290,	Ramco Systems 333
292, 293, 294, 295, 298, 300, 301 public health services 212	random process 351, 360
public sector organizations 212	random processes 361, 362, 367
public sector undertakings 333	random variables 353
publication 3, 15	range of applications 42
published results 2, 6	range of ideas 15
Pull processes 347	ranking 80
purchased orders 70	rapid advancement 210
purchased orders 70 purchaser-vendor relations 316	rapid changes 232
pure delivery node 218	rapid changing world 231
push cycle 136	rapid degeneration 26
push cycle 150	rapid obsolescence 152

rapidly changing 167 recent literature 215 Rational Software 144 recession 172 rationing 238 recommendation engine 136 raw material suppliers 330, 345 reconciliation 339 raw materials 308, 324, 344, 345, 348, reconciliation of cost 62 358, 359, 361 reconciling inventory in transit 64 Raw Materials Accounting 68 re-condition 327 RBB with only Pick-up (RP) 213 re-configurability 48 RE authors 4 record-breaking 62 RE field 4 recovery 160, 161, 164 RE framework 7, 15 recovery mechanisms 175 RE Good Practice Guide 2 recreational areas 164 RE guideline 8 Red Crescent 160, 165 RE improvement framework 5 Red Cross 160, 165 RE practices 2, 7, 10, 12, 15, 16 redistribution stockists 332 reduce inventories 355 RE problems 2 RE professionals 4 reduce maldistribution 344 RE team members 9 reduced paper work 328 RE techniques 2 reducing cost 196 reactive tabu 216, 217, 224 reduction 160, 161 Read only source 123 reduction operation 95 readable code 26 redundant knowledge 306 REAIMS approach 7 reengineer 78 real – time decision making 311 Reengineering 56, 57, 314 reengineering impact 199 real estate corporation 11 real number 361, 362, 367 refactoring 23, 26, 30 refinery operations 66 real project 22 real situation 355 region of disaster 164 Regional Blood Bank with only Delivery (RD) real time-sharing 328 real world 22, 23 real world industrial practices 300 Regional Blood Banks (RBB) 211, 213 realignment 307 regional level 213 Realistic Supply Chain 350 regional licensing authorities 333 realization 62, 64, 66, 67 regional warehouses 345, 348 real-time 40, 41, 46, 48, regression equation 57 328, 329, 330, 331, 336, 340 regulatory requirements 196 real-time access 136 reinforcement learning techniques 240 real-time feedback 25 re-inventing of the wheel 307 real-world ERP project 20 related concepts 305 reasonable cost 261 related problems 31 reasonable period of time 58 relational databases 195, 197 reasoning 335 relational model 147 reasoning 92, 93, 94, 95, 96, 97 relational-based (SOL-based) 145 relational-based (SQL-based) platform 145 reassessment 26 receiving orders 279 relationship 55, 56, 57 Recency 130 relationship capital 308

relationship management 304, 305, 307,	research 2, 3, 4, 5, 9, 10, 11, 14, 15, 16,
309, 310, 312, 313, 314, 315, 317,	17, 18
318, 319	research methods 234
Relationship Manager 32, 38, 39	research perspective 57
relationship marketing	research questions 239
120, 121, 122, 135, 139, 309, 319	researcher's impact 15
relationships 141, 142, 145, 148, 149,	resilient architectures 43
150, 156	resistance force 264
relative position 267	resource intensive 197
relatively complex software 23	Resource inventory 162
relay team 350, 360	resource scheduling 310
relevant data 47, 119	Resources database 163
relevant information 335	respective fields 274
remain competitive 62	respective variables 201
re-mapping the old 172	responding to changes 20
Remote Procedure Call (RPC) 175, 179	Response 159, 161, 166
re-negotiated 43	Response rate 267
renewal date 131	response time 344
Reno GmbH 334	responsible professionals 22
reorder intervals 352	responsiveness 347, 348, 352
reorder level 361, 362, 366, 367	REST 134
reorder levels 366	restriction percentage 216
reorder points 361	restructuring of various functions 307
reorder rate 365, 371	Results 104
re-ordering 329, 335	retail businesses 11
re-orders 361	Retail giants 337
repair 62, 71, 72	Retail Network Management (RNM) 305
replenish the inventory 359	retail outlets 130, 228, 359
replenishment 359, 361, 362, 366	retailer 327, 329, 335, 337, 345, 346, 358,
Replenishment cycle 346	360, 361, 362, 363, 365, 366, 367,
replenishment policies 240	368, 369, 371, 372
replenishment strategy 324	retailer (line-haul) 217
Reporting test results 173	retailer nodes 358, 362, 366, 372
re-producing such scenarios 176	retailers 227, 228, 233, 234, 238, 239,
Republic of Poland 101	240, 241, 244
Request for Proposals (RFP) 144	retrieval systems 329
required system functionality 43	Return on Investment 318
requirement management process 21	returning life to normal 161
requirements documentation 24	reusability 41, 43
requirements engineering (RE)	reusable services. 42
1, 2, 3, 7, 14, 16, 17, 18	revenue 63, 64, 66, 71
Requirements Engineering Method for ERP	revenue sharing 230, 241, 246
(REM-ERP) 44	revenues/profits generated 230
requirements instability 52, 58	reverse engineering 170, 177, 179
requirements management 20, 21	reverse material 325
Requirements Stability Index (RSI) 53, 54, 57	RFID chips 334

RFID market 338, 342 RFID reader 334	run software 25 Rupanter 64
RFID solution 340 RFID system 240	S
RFID tag market 338 RFID tag prices 338 RFID tags 334, 338 RFID technology 334, 338	salable steel 62 sales analysis 310, 335 sales department 141 sales figures 335
RFID Technology Gold Rush 338, 343 RFID tunnels 339 RFID Workforce 338	Sales Force 134 sales force automation (SFA) 120, 128, 315
RFID-based SCM solution 340 RFID-based solutions 337	Sales Force CRM 134 sales patterns 314 sales rebate contract 240
RFM (recency, frequency and monetary value) 134 RFM cell 130	sales side 5 sales tracking 169 sales-order handling 66
RFM factors 130 RFM value 130	Salt Lake City 334 sample of the managers 201
rich functionality 344 right condition 212 right patterns 99	SAP Community 26 SAP Competence Centre 71 SAP Extension 64, 67, 68, 71, 72
right product 212 risk factors 199, 200, 201, 202, 203, 205, 206	SAP global roll-outs 9 SAP implementation 61, 65, 69, 72
risk reduction 25 risks 195, 197, 199, 203, 206	SAP package implementation 7 SAP solutions 72 SAP specialized personnel 27
ROA (return on assets) 97 roadblock 14 robotics 305	SAP system 65, 69, 70, 71 SAP/R3 module 26
robust system 114 ROCE (return on capital employed) 97	SAP's service packs 27 SAP-based purchase order system 169 SAS 132, 133, 134, 135, 137, 138
ROE (return on equity) 97 ROI (Return Of Investment) 97, 138, 155 ROIC (return on invested capital) 97	Satellite Imaging 85 satisfaction 212 saturation 15
rolling horizon approach 240 rollover requirement 65 RONA (return on net assets) 98	savings algorithm 215 SC activities 232 SC configuration 246
ROS (return on sales) 97 Roulette 291	SC configuration 346 SC environment 232 SC managers 347
route pattern 213 routing 215, 216, 221, 222, 223, 224, 225, RSI influences 56	SC models 228 scalability 331 scale 306, 307, 314
RSI value 56 Rule Based Expert Systems 117	Scale of Operations (SOPS) 267, 269 scenario 229, 232
rule groups 112 rules of thumb 231	Schedule Slippage (SS) 52, 53, 54, 56, 57, 58

scheduling algorithm 215 semantic set 144 scheduling equipment 335 semantic variables 95 scheduling system 215 semantics-oriented 3, 8 Schiff Nutrition International 334 semi structured 230 schools 164 semi-skilled 307 scientific community 217 semi-structure 230 scientific knowledge 305 Senior Management 84 September 11 attacks 160 scientific management 26, 306 SCM modeling 351 Sequential modules 109 serious impediment 27 SCM paradigm 212 SCM related problems 231 server-based development issues 27 scope 77, 82 service interfaces 152 service level 233, 238, 241, 353, 354 scope economies 314 Service Life Cycle Management 313, 321 Scrum 23, 33 Seamless integration 41 service offered 263 seamless services 66 Service Oriented Architectures (SOAs) Sears 227 138, 152 seasonal demand 330 service provider 261, 262, 267 Service Provider Selection Model 269 second phenomenon 307 Secondary data 199 service sectors 211, 229 service support 64 secondary sources 1, 2 secretariat 160 service vacuum created 262 security violations 161 Service-oriented architecture 196 segment parameters 312 services 344, 347, 358 selecting vendors 212 serving human life 211 selection 261, 262, 263, 264, 265, 267, Set the criteria 173 268, 270, 274, 275, 276, 277 set up 78 selection process mechanism 263 setup cost 242, 361, 365, 366, 372 self designed enterprise-wide product 199 setup times 353 self- executable sub-components 40 Seven Stage model 82 self-contained 41, 42, 43 seven stages 81 self-contained entity 42 several applications 171 self-contained unit 41 shared agreement 25 shared data control flows 14 self-organizing 22 semantic (meaning) analysis 95 shared databases 336 semantic action 95 shared goals 10, 15 semantic analysis 91, 92, 93, 94, 96 shared language 24 semantic content 92, 93, 99, 101 sharing processes 172 semantic data analysis systems 92 shed light 4 semantic dimensions 93, 97 shipment errors 325 semantic information 99, 102 shipper 262, 263, 268 semantic parsing procedures 94 shipping details 328 semantic point of view 94 shoe companies 334 semantic reasoning 91, 94, 95, 99 shoes sold 334 semantic reflection 92 shop floor control 61 semantic representation 92 shortage 215

aham lisad 161	assist abjectives 212
short-lived 161	social objectives 212
short-term economic benefits 308	social sciences 3
shrinking revenues 131	socioeconomic information 160
Siebel 132, 133, 137	soft issues 226, 227, 228, 229, 230, 232,
significance 167, 168, 172	241, 242
significance 92, 93, 95, 96, 97	software agent 335
significant differentiator 279	software agents 323, 335, 338, 339, 340
significant earnings 325	software and services 196
significant role 95	software applications 168, 178, 211
simple correlations 57	software bugs 203, 205
simple data analysis 97	software companies 51, 52
simple information 307	software component model 40, 41, 45
simple languages 24	Software components 45, 50,
simple model 141, 146, 147	software configuration 203
Simple Object Access Protocol (SOAP) 335	software development 20, 21, 22, 23, 25,
simplest effective solution 26	31, 35, 42, 43, 49, 52, 53, 56, 58,
simulated 238, 247	59, 140, 141, 143, 152, 155
simulated annealing (SA) 210, 211, 223, 224	software development community 22
simulation 353, 354, 355	software development process 140, 141, 155
Simulation models 351, 360	software development projects 172
Simulation Run 296	software engineering 141, 144, 156
single application 171	software engineering
single buyer 228, 243	21, 32, 41, 43, 51, 52, 56, 58
single customer 125	software engineering activities 51
Single Depot Vehicle 210	Software engineering metrics 51
single event 21	Software engineering process 51
single marketing campaign 131	Software Engineering realm 21
single methodology 127	software engineering team 58
Single vendor 228	software engineers 142
single-facility inventory models 349, 359	software factories 22
Singleton object 38	software independent 142
site champions 70	software industry 140, 152, 154, 155, 156
Size and Defects 44	software maintenance 51, 52, 55, 56
size order(packets) 366, 372	software metrics 51, 52, 53, 54, 55, 58, 59
SkandSoft 340	Software Metrics Plan (SMP)
skill set available 205	51, 52, 54, 55, 56
slack resources 239	software process 51, 52, 53, 54, 55, 56,
Slicing 125	57, 58, 59
slip ups 62	Software process improvement 51, 58
Small and Medium Enterprises (SME's) 197	software process model 40
small and midsized organizations 197	software processes
smooth operations 308	51, 52, 53, 54, 57, 58, 59
SMS messages 25	software products 51, 53, 168
SOAP 134	software project 52, 57
soaring costs 131	software project test plan 173
social networking 268, 305	Software reuse 41
200, 200	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

software system 335	stability 52, 54, 57
software technology solutions 155	stabilization period 66
software testing 172, 173, 178	stable 165
software tool 59	stable extension stage 85
software under development 140, 141	stack (operation: shift) 95
software vendors 77	stakeholders 141, 156
software-based system 335	stakeholders 3, 11, 21, 22, 23, 25, 26, 31,
sole objective 212	67, 69, 76, 78, 80, 81, 83, 84, 85
solution approaches 226, 228, 232	standard message formats 333
Solution approaches 232	standard systems environment 233
solution methodology 301	standardization of code 204
solution proposal 2	standards 168, 173, 174
solution quality 210, 231	state changes 176
solution technique 231, 281	state of the art 167
sophisticated logistics 231	state-of-the art 2
sound flags 25	state-of-the-art tools 137
source code 25, 26, 30	static customer 122
sourcing 195	stationery 336
sourcing 324, 333	statistical analysis 119, 128
space limitations 6	statistical analysis 51, 53, 56, 58
space vehicles 42	statistical methods 201
Special attention 174	statistical packages 309
special offers 130	statistical software 137
special usage scenarios 173	statistical techniques 51, 53, 58, 112, 115, 117
specialised component model 47	steady state 361, 364, 365, 366, 370, 371,
specialization of roles 27	372
specialized construction services 331	steady state probabilities 361, 364
specialized expertise 205	steel industry 64, 70, 212
specially constructed language 94	steel major 61
specific customer segments 331	steel prices 62
specific domains 205	steel production 66
specific functionality 21	stepping stone 120
specific information 92	step-wise approach 47
specific players 262	stereotype 143
specific system 29	stereotypic system 137
specification standards 43	Stochastic analytical models 351, 360
spectral theorem of matrices 363	stochastic demands 234
speculation 23, 25, 31	stochastic model 344, 352, 353
spending approvals 71	stochastic process 362
spending habits 129	stochastic sub-models 353
Spiritual Quotient (SQ) 305	Stochastic uniform 291
Spokes 66	stock control 211
Sponsor 68, 69	stock levels 335
spreadsheets 309	stock manipulation 335
sprints 23	stock perishes 366
SPSS package 201	stock requirements 354
SS values 56, 57	stock rotation 329

stock verification 340	sub-factors 79
storage analysis 262	subjective judgment 266
storage repository selections 128	subsequent stages 76
storage system capacity 103	subsequent symbols 94, 95
store managers 329	subset 6, 29
store product layouts 314	subsidiary units 199
stored data 119	substantial benefits 331
stored in the system 93	substitute 29
strategic 211, 221, 226, 227, 230, 232,	subsystems 168, 174
244, 246, 248	subsystems 46
strategic business decisions 97	subtleties 313
Strategic Business Units (SBU) 331	success 195, 206
strategic fit 347, 348	successful Enterprise 195
strategic informational level 121	successful implementation of SCM 227
strategic level 138	Successful IT implementations 340
strategic partnership 123	Successful management 53
strategic planning 325	successful projects 44
Strategic purchasing 232	sufficient literature 170
strategic view 58	suitable objective 359
strategic-planning 326	suitable technique 10
strategy 160, 195, 199, 203, 204, 205	Sun's JavaBean/EJB 43
strategy alignment modules 121	superior performance 313
streamline development 176	superior tests 307
streamline the business processes 197	superiority 270
streamline their processes 197	supplier 229, 230, 234, 238, 239, 240,
streamlining 82, 83, 196	243, 246, 249, 250
streamlining business operations 196	supplier (warehouse) 362
streamlining process 176	supplier (warehouse) 302 supplier lead times 315
streams of research 232	* *
	supplier of choice 62
strict governance processes 27	supplier partnership policies 270
strong link 328	Supplier Relationship Management(SRM) 347
STRONG_ACCEPT 98	supplier selection 230
structural 272	Supplier Transportation Cost 285
structural capital 308	suppliers 227, 228, 230, 234, 239, 308,
structural contingency theory 4, 18	309, 311, 312, 314, 315, 316, 317,
structural description 95	319, 323, 324, 325, 326, 327, 328,
structure of the organization 204	330, 331, 332, 334, 336, 337, 338,
structured decision applications 270	359, 361
studies 278, 282, 294	supply and demand 324, 325, 328
study 2, 3, 4, 6, 9, 11, 15, 17, 18	supply chain (SC) 226, 227, 228, 230, 231,
sub assemblies 359	232, 233, 234, 238, 239, 240, 241,
sub cube 125	242, 243, 274, 278, 279, 280, 281,
subassembly plants 350	282, 283, 284, 285, 286, 292, 293,
sub-attributes 270	294, 296, 297, 298, 347, 348, 350,
subclasses 37	351, 352, 353, 354, 355, 356, 357,
sub-criteria 261, 263, 266, 269, 270, 271,	358, 359, 360, 361, 362, 366, 368,
272, 274	372, 373

supply chain configuration 346	syntax analyser software 95
supply chain contracts 359	syntax analysis 95
Supply chain decision phases 346	syntax operations 124
Supply chain execution 324	synthetic extent value 270, 271
supply chain improvement strategies 354	System 103, 104, 105, 109, 110, 111, 112,
Supply Chain Management (SCM) 169, 179,	114, 115, 116, 117
210, 211, 227, 230, 304, 305, 308,	system algorithm 216, 225
315, 316, 323, 324, 326, 332, 333,	System configuration 41
337, 339, 340, 341, 342, 344, 358,	system consolidation 14
357, 359, 340, 341, 342, 344, 336,	system design 199, 200, 201, 203, 204,
Supply Chain Management System(SCMS)	205, 206
344, 345, 358	system development 28, 34
	*
supply chain model 324, 325	system integration 196, 199
supply chain modeling 278	system level testing 47
supply chain network 278, 280, 281, 282, 2	system maintenance 78
83, 284, 285, 287, 292, 293, 294, 30	system memory 92
0, 301	system migration 205
supply chain operations 323, 334, 337	system performance measures 358, 361
Supply Chain Operations Reference (SCOR	system utilization 199
300	systematic 263, 264
Supply chain optimization 310	systematic business intelligence approach 119
supply chain performance 347, 348	systematically analysis 264
supply chain process 358	Т
supply chain settings 323	1
supply chain systems users 44	tactical 211, 213, 221, 230, 232
supply chain systems users 44 supply chains 344, 348, 353	
supply chains systems users 44 supply chains 344, 348, 353 supply channel 240	tactical 211, 213, 221, 230, 232
supply chain systems users 44 supply chains 344, 348, 353 supply channel 240 supply information 328	tactical 211, 213, 221, 230, 232 tactical factors 80
supply chain systems users 44 supply chains 344, 348, 353 supply channel 240 supply information 328 Supply management 232	tactical 211, 213, 221, 230, 232 tactical factors 80 Taillard random number generator 294 tamilnadu 125
supply chain systems users 44 supply chains 344, 348, 353 supply channel 240 supply information 328 Supply management 232 supply network 6	tactical 211, 213, 221, 230, 232 tactical factors 80 Taillard random number generator 294 tamilnadu 125 Tamilnadu Cooperative milk producers federa-
supply chain systems users 44 supply chains 344, 348, 353 supply channel 240 supply information 328 Supply management 232 supply network 6 supply network configurations 283	tactical 211, 213, 221, 230, 232 tactical factors 80 Taillard random number generator 294 tamilnadu 125
supply chain systems users 44 supply chains 344, 348, 353 supply channel 240 supply information 328 Supply management 232 supply network 6 supply network configurations 283 Supply network coordination 232	tactical 211, 213, 221, 230, 232 tactical factors 80 Taillard random number generator 294 tamilnadu 125 Tamilnadu Cooperative milk producers federa- tion limited (AAVIN) 228
supply chains systems users 44 supply chains 344, 348, 353 supply channel 240 supply information 328 Supply management 232 supply network 6 supply network configurations 283 Supply network coordination 232 supporting coalition 79	tactical 211, 213, 221, 230, 232 tactical factors 80 Taillard random number generator 294 tamilnadu 125 Tamilnadu Cooperative milk producers federation limited (AAVIN) 228 tandem network of inventory 361
supply chain systems users 44 supply chains 344, 348, 353 supply channel 240 supply information 328 Supply management 232 supply network 6 supply network configurations 283 Supply network coordination 232 supporting coalition 79 supporting features 168, 307	tactical 211, 213, 221, 230, 232 tactical factors 80 Taillard random number generator 294 tamilnadu 125 Tamilnadu Cooperative milk producers federation limited (AAVIN) 228 tandem network of inventory 361 target companies 26 Target Corporation 329
supply chain systems users 44 supply chains 344, 348, 353 supply channel 240 supply information 328 Supply management 232 supply network 6 supply network configurations 283 Supply network coordination 232 supporting coalition 79 supporting features 168, 307 supporting software 154	tactical 211, 213, 221, 230, 232 tactical factors 80 Taillard random number generator 294 tamilnadu 125 Tamilnadu Cooperative milk producers federation limited (AAVIN) 228 tandem network of inventory 361 target companies 26 Target Corporation 329 target model 145
supply chain systems users 44 supply chains 344, 348, 353 supply channel 240 supply information 328 Supply management 232 supply network 6 supply network configurations 283 Supply network coordination 232 supporting coalition 79 supporting features 168, 307	tactical 211, 213, 221, 230, 232 tactical factors 80 Taillard random number generator 294 tamilnadu 125 Tamilnadu Cooperative milk producers federation limited (AAVIN) 228 tandem network of inventory 361 target companies 26 Target Corporation 329 target model 145 Target vendors 329
supply chain systems users 44 supply chains 344, 348, 353 supply channel 240 supply information 328 Supply management 232 supply network 6 supply network configurations 283 Supply network coordination 232 supporting coalition 79 supporting features 168, 307 supporting software 154	tactical 211, 213, 221, 230, 232 tactical factors 80 Taillard random number generator 294 tamilnadu 125 Tamilnadu Cooperative milk producers federation limited (AAVIN) 228 tandem network of inventory 361 target companies 26 Target Corporation 329 target model 145 Target vendors 329 task 20, 31, 38, 52, 58
supply chains systems users 44 supply chains 344, 348, 353 supply channel 240 supply information 328 Supply management 232 supply network 6 supply network configurations 283 Supply network coordination 232 supporting coalition 79 supporting features 168, 307 supporting software 154 supportive transitions 210	tactical 211, 213, 221, 230, 232 tactical factors 80 Taillard random number generator 294 tamilnadu 125 Tamilnadu Cooperative milk producers federation limited (AAVIN) 228 tandem network of inventory 361 target companies 26 Target Corporation 329 target model 145 Target vendors 329 task 20, 31, 38, 52, 58 task force 83
supply chains systems users 44 supply chains 344, 348, 353 supply channel 240 supply information 328 Supply management 232 supply network 6 supply network configurations 283 Supply network coordination 232 supporting coalition 79 supporting features 168, 307 supporting software 154 supportive transitions 210 surveillance agents 335	tactical 211, 213, 221, 230, 232 tactical factors 80 Taillard random number generator 294 tamilnadu 125 Tamilnadu Cooperative milk producers federation limited (AAVIN) 228 tandem network of inventory 361 target companies 26 Target Corporation 329 target model 145 Target vendors 329 task 20, 31, 38, 52, 58 task force 83 Tata 333, 337
supply chains systems users 44 supply chains 344, 348, 353 supply channel 240 supply information 328 Supply management 232 supply network 6 supply network configurations 283 Supply network coordination 232 supporting coalition 79 supporting features 168, 307 supporting software 154 supportive transitions 210 surveillance agents 335 survey 233, 251 survey responses 80 survival 58	tactical 211, 213, 221, 230, 232 tactical factors 80 Taillard random number generator 294 tamilnadu 125 Tamilnadu Cooperative milk producers federation limited (AAVIN) 228 tandem network of inventory 361 target companies 26 Target Corporation 329 target model 145 Target vendors 329 task 20, 31, 38, 52, 58 task force 83 Tata 333, 337 taxes 66
supply chains systems users 44 supply chains 344, 348, 353 supply channel 240 supply information 328 Supply management 232 supply network 6 supply network configurations 283 Supply network coordination 232 supporting coalition 79 supporting features 168, 307 supporting software 154 supportive transitions 210 surveillance agents 335 survey 233, 251 survey responses 80 survival 58 swarm intelligence 283, 286	tactical 211, 213, 221, 230, 232 tactical factors 80 Taillard random number generator 294 tamilnadu 125 Tamilnadu Cooperative milk producers federation limited (AAVIN) 228 tandem network of inventory 361 target companies 26 Target Corporation 329 target model 145 Target vendors 329 task 20, 31, 38, 52, 58 task force 83 Tata 333, 337 taxes 66 taxonomy 80, 86, 232, 233
supply chains systems users 44 supply chains 344, 348, 353 supply channel 240 supply information 328 Supply management 232 supply network 6 supply network configurations 283 Supply network coordination 232 supporting coalition 79 supporting features 168, 307 supporting software 154 supportive transitions 210 surveillance agents 335 survey 233, 251 survey responses 80 survival 58	tactical 211, 213, 221, 230, 232 tactical factors 80 Taillard random number generator 294 tamilnadu 125 Tamilnadu Cooperative milk producers federation limited (AAVIN) 228 tandem network of inventory 361 target companies 26 Target Corporation 329 target model 145 Target vendors 329 task 20, 31, 38, 52, 58 task force 83 Tata 333, 337 taxes 66 taxonomy 80, 86, 232, 233 TCP/IP 174, 179
supply chains systems users 44 supply chains 344, 348, 353 supply channel 240 supply information 328 Supply management 232 supply network 6 supply network configurations 283 Supply network coordination 232 supporting coalition 79 supporting features 168, 307 supporting software 154 supportive transitions 210 surveillance agents 335 survey 233, 251 survey responses 80 survival 58 swarm intelligence 283, 286	tactical 211, 213, 221, 230, 232 tactical factors 80 Taillard random number generator 294 tamilnadu 125 Tamilnadu Cooperative milk producers federation limited (AAVIN) 228 tandem network of inventory 361 target companies 26 Target Corporation 329 target model 145 Target vendors 329 task 20, 31, 38, 52, 58 task force 83 Tata 333, 337 taxes 66 taxonomy 80, 86, 232, 233 TCP/IP 174, 179 TDD lifecycle 25
supply chains systems users 44 supply chains 344, 348, 353 supply channel 240 supply information 328 Supply management 232 supply network 6 supply network configurations 283 Supply network coordination 232 supporting coalition 79 supporting features 168, 307 supporting software 154 supportive transitions 210 surveillance agents 335 survey 233, 251 survey responses 80 survival 58 swarm intelligence 283, 286 synchronization 21, 22, 31, 35, 36	tactical 211, 213, 221, 230, 232 tactical factors 80 Taillard random number generator 294 tamilnadu 125 Tamilnadu Cooperative milk producers federation limited (AAVIN) 228 tandem network of inventory 361 target companies 26 Target Corporation 329 target model 145 Target vendors 329 task 20, 31, 38, 52, 58 task force 83 Tata 333, 337 taxes 66 taxonomy 80, 86, 232, 233 TCP/IP 174, 179 TDD lifecycle 25 tea 332
supply chains systems users 44 supply chains 344, 348, 353 supply channel 240 supply information 328 Supply management 232 supply network 6 supply network configurations 283 Supply network coordination 232 supporting coalition 79 supporting features 168, 307 supporting software 154 supportive transitions 210 surveillance agents 335 survey 233, 251 survey responses 80 survival 58 swarm intelligence 283, 286 synchronization 21, 22, 31, 35, 36 synchronization between stakeholders 21	tactical 211, 213, 221, 230, 232 tactical factors 80 Taillard random number generator 294 tamilnadu 125 Tamilnadu Cooperative milk producers federation limited (AAVIN) 228 tandem network of inventory 361 target companies 26 Target Corporation 329 target model 145 Target vendors 329 task 20, 31, 38, 52, 58 task force 83 Tata 333, 337 taxes 66 taxonomy 80, 86, 232, 233 TCP/IP 174, 179 TDD lifecycle 25

team oriented performance measures	terminal symbols 95
227, 230, 241, 242	terminologies 169
technical 160, 163, 165, 226, 227, 230, 241	test activity 173
technical activities 78	Test Bed 179
technical aspects 203	Test bed identifier 176
technical capability 267	Test case generation 176
technical compatibility 227, 230, 241	Test cases 176, 179
technical consultant 128	test completion 173
technical disciplines 26	Test Data 179
technical efficiency constructs 78	Test data generation 176
Technical feasibilities 70	test phase 173
technical field 308	Test result comparisons 176
technical goals 52	Test stub 176
technical innovations 85	Test-Driven Development (TDD) 24
Technical losses 104	tested 174, 176, 178
technical losses 104, 105, 110, 115	test-first programming 23, 24
technical problems 26, 27	testing 78, 79, 82, 167, 168, 170, 172, 173,
technical requirements 172	174, 175, 176, 177, 178, 179
technical skills 149	Testing and Maintenance 56
technician 104, 106, 117	testing methodologies 174
technique 2, 10, 14	testing purposes 29
technological change 152	text mining 103, 113, 112, 114, 118
technological changes 176	text mining methodologies 137
technological disasters 160	textual specifications 24
technological means 156	The Steel Company (TSC) 62
technological perspectives 80	theft 334
technological processes 159	theoretical analyses 92
Technologies 168, 169, 176, 178	theoretical concepts 264
technology adoption 239	theoretically-sound arguments 16
technology constructs 78	therapeutic products 307
technology exploitation 85	third party logistics (3PL) 262, 324
technology planning 206	third party logistics service provider organiza-
technology processes 108	tion 217
technology-enabled 239	third-party developers 41
technology-specific code 141	third-party service alternatives 325
technology-specific implementations 152	three-stage reference 354
telecom 130, 131	Throughput capabilities (THUCAP) 268
telecom industry 130	tightly integrated 42
telecommunications 11, 106, 116	time over runs 76
telecommunications services 11	time span 10
Telemeasuring 106	time to market 339, 340
telemeasuring equipment 106	time-boxed iterations 23
telephone/computer integration 309	timeline 78
TELUS 9	timelines 263
tenets 29	timely manner 272
tension 106, 117	tools and techniques
tension 100, 117	•
	309, 310, 311, 313, 314, 316

total cost 348, 349, 353 Total Mall 337 Total Manufacturing Cost 285 total profit 348, 359 total quality management (TQM) 52 Total Supply Chain operating Cost 284, 296 tour partitioning heuristics 216 Tournament size 291 Toyota Production System 20 track government assets 165 track individual products 334 track product shipments 334 tracking the status 172 trade-offs 4, 5 trading partners 337 traditional activities 329 traditional AHP 264, 265 traditional approaches 22, 263 traditional approaches 22, 263 traditional channels 121 traditional delivery methods 239 traditional formulation 264, 268 traditional path 316 traditional products 307 Traditional SAP development 27 traditional software projects 41, 44, 54 traditional systems 41 traditionally characterized 361 traditionally distinguished 15 training consultants 128 training server 65, 69 training server 65, 69	transient matrix 363, 370 transistors 119 transition 122, 130 transition 63, 65, 66 transition matrix 364 transition probability function 363, 369 translation intermediate processes 109 translation tasks 65 translationist 142, 144 transparency 63 transparent practices 332 transparent practices 332 transportation 211, 222, 308, 314, 319, 324, 329, 333, 340, 347, 348, 350, 352, 353, 355, 356 transportation control 324 transportation decisions 229 Transportation Management Systems 329 transportation modes selection 230 transportation Planning System (TPS) 315 transportation system 361 trauma centers 162 trends 5, 123, 124, 126, 308, 309 triangular fuzzy number (TFN) 263, 265, 266 270 troubleshooting 79 TSC provided training 70 Tsunami 160, 161, 165, 166 turned-out persons 122 turnkey industrial 331 Twitter 268
	· · · · · · · · · · · · · · · · · · ·
training sessions 69 transaction errors 205	two echelon supply chain 228, 234 two models 240
transaction oriented data 76	two-echelon 226, 228, 229, 234, 241, 242,
transaction oriented data 70 transaction oriented software packages 77	243, 244, 247, 248
transactional capabilities 174	Two-Echelon Supply chain 228
transactional orientation 309	twofold 4
transaction-based data processing 305	two-party VMI channel 239
transaction-based information systems 328	types of integrations 168, 170, 171
transcribed 11, 15	typical legacy IT systems 196
transcribed data 11	typical legacy 11 systems 170
transfer 229	U
transformation 359, 362	1: 2
transformation process 145, 146, 147	ubiquitous computing 159 ubiquitous language 24, 26, 29, 31

UBM 36, 37, 38 UBMSS systems (Understanding Based Man-	unused blood 211 unwritten doctrine 92
aging Support Systems) 91, 92, 93,	Update Product Information 175
94, 95, 96, 97, 98, 99, 100, 101	up-front design 24
ultimate provision 324	up-front planning 22
ultimate software design 26	upgradations 176
ultimate stage 122	upgraded modules 29
UML Business Modeling Profile 153	upgrading an organization 195
UML class 143, 146	UPS 227
UML compatible 144	upward direction 361
UML extension 153, 154	upward location 361
UML model 143, 144, 146, 149, 151,	urban population 332
152, 153	use of patterns 26
UML modeling element 143	user interface 171, 172, 174, 176
UML profile 153, 157	User Interface-level EAI 171
UML-based visual tools 154	user licenses 199
unambiguously exhibit 94	user's requirement into software 51
unclassified case 93	user's responsibility 152
uncontrollable 264	users/clients 152
uncoupling techniques 31	utilities 196
underlying approaches 169	utility 103, 104, 105, 106, 107, 110, 111,
underlying technologies 152, 156	112, 114, 115, 116, 117
underlying technology 140, 141, 142, 156	utility company 104, 105
understand 92, 93, 97	utility-oriented 3, 7, 10
understanding-based information systems 91	utilization history 131
undesired activities 78	utilization of resources 308
undocumented assumptions 2	Uttar Pradesh 330
unequal access to information 307	Uttrakhand (India) 261
un-finished goods 67	Cttrukhund (matu) 201
Unified Business Model 36, 37	\mathbf{V}
Unified Modeling Language specification 144	264 265 275
unified world 308	vagueness 264, 265, 275
Unilever 9	valid state 25
unique business contact. 41	Validation 172, 179
United States 15, 267	validation assessment 1
units of measurement 51	validation study 2, 9
Universal Description, Discovery and Integra-	validation tasks 30
tion (UDDI) 335, 336	validity evaluation 10
universe of managers 201	valuable information 161, 324
unnecessary documentation 22	value 304, 305, 306, 307, 308, 309, 311,
unorganised sectors 241	312, 313, 317, 318
unreadable code 26	value chain 309, 313, 332
unskilled workers 307	value creation 304, 305, 307
unstable customer demand 240	value driven relationship management 305
unstructured information 118	value generated 345
unstructured problems 230	value maximization 313
and detailed problems 200	value network 2, 3, 8

value of coefficient 201	visual interactive approach 217, 225
value proposition 15, 120, 230	visual warnings 25
value web 1, 2	vital input 213
values 20, 22, 23, 37	vitamins 334
VAN (value added network) 333	VMI mode of operation 242
variables 201	VMI program 239
variant 210, 211, 217, 218, 221	V-model testing 176
varied applications 119	volcanic eruptions 161
varied information platforms 167	volume 306, 317
various applications 171, 174, 175	Vulnerability analysis 162
various learning theories 305	•
various recommendations 195	\mathbf{W}
various researchers 199	WACC (weighted average cost of capital) 98
varying benefits 240	Wal-Mart 227, 228, 229, 326, 328, 329,
varying demand 233	334, 335, 342, 345
varying languages 174	warehouse architect 128
vast scale research 360	warehouse consultants 128
vector process 362	
vehicle capacity 217, 218	Warehouse data 128
Vehicle Routing Problem (VRP) 211	warehouse design 329
Vehicle Routing Problem with Backhauls	warehouse management 211
(VRPB) 210, 215	warehouse management system (WMS)
Vehicle Routing Problem with clustered Back-	328, 329, 333, 340
hauls (VRPCB). 215	warehouse space 329, 339
vender's packages 43	warehouse supplies 350
vendor 196	warehouse supplies multiple retailers 350
vendor facilities 327	warehouses 324, 329, 335, 336, 339, 340
	warehousing system 327
vendor managed inventory 226, 233, 239,	warranties 267
240, 243, 245, 246, 247, 248, 250,	wasteful 319
251, 252	waterfall development process 28
vendor managed inventory systems 226	waterfall-based approaches 23
Vendor management 41	waterfall-based software process 21
vendor selection 263, 267, 268, 275, 277	waterfall-like approaches 20
vendors 21, 26, 27, 28, 29, 31, 308, 314	waybills online 340
verification 105, 108, 114, 172, 175, 179	Web presence 309
verification of handshaking mechanisms 174	web services 323, 325, 335, 336, 337,
version-control 337	338, 340
vertically integrated steel plant. 61	Web Services Description Language (WSDL)
very active participants 15	335
village level 330	web technologies 85
Virtual Enterprise tool 151	web-based architecture 137
virtual reality 305	web-based IT solution 330
virtual supply chains 323, 336, 337, 338, 340	web-based IT tool 326
virtual teams 312	web-based SCM solution 332
virtualization technologies 134	Web-enabled decision support software systems
visual image 165	310

web-services 152 work history 149 Weight Particle Swarm Optimization Algorithm work practice 70 work together 167 workflow management 43 weight vectors 266, 270, 271 weighting 270 workflow signals 38 weights of suppliers 271 workforce 70 weights per supplier 271, 272 Working capital 72 welfare of the society 212 work-in-progress (WIP) 324 well-balanced 360 world class performance 327 well-being 159 world class products 62, 63 World economy faced destruction 160 well-defined rules 142 well-equipped system 126 World Steel Dynamics 62 well-known problem 20, 28 World War – II 308 whole system 306 World Wide Web (WWW) 128 wholesaler 229, 358 world-class ERP product 333 wide range of techniques 125 worldwide 196 wide-ranging benefits 339 writing 360 widespread end-users 70 wrong user interface 204 Wills Classic 339 X Wills Clublife 339 Wills Lifestyle 337, 339, 341 XML 134, 174, 179, 335 Wills Sport 339 Windows 2000 Server 332 Y Wipro 337 Y2K 21 Wire warming (Joule Effect) 104 young tech-savvy English speaking population wireless communications systems 159 196 wireless environment 156 wireless RFID chips 334 Z Wireless technologies 318 zero lead time 242 within-company elements 5 Zoho CRM 134 word-of-mouth (WoM) 313