

Index

3PL providers 246

A

additional cost (AC) 193
 ADR (alternative dispute resolution) 137, 146
 Advanced Planning and Optimization 5
 Agricultural Economics (AE) 292
 Analytical Hierarchy Process (AHP) 12-13, 16, 312
 analytic network process (ANP) 248
 a priori 79
 arbitration 137
 ARENA 216
 assurance region 249
 Assurance Region-Nondiscretionary Factors-IDEA (AR-NF-IDEA) 353
 Auto Industry Action Group (AIAG) 92
 automated meter reading system (AMR) 8
 automotive 78

B

B2B markets 4
 beef industry 49-50, 52, 73
 Bovine Spongiform Encephalopathy (BSE) 290
 breadth of information 25, 29-30, 34, 36-37, 40-41, 43
 build-to-order supply chains (BOSC) 30
 Business Management 49, 255, 325
 Business Processes 1-2, 14, 27-29, 31-33, 42, 88, 90, 100, 104-105, 113, 117, 119, 131, 215, 280, 292-293, 302, 311, 344, 346
 Business Process Modeling 290
 Business-to-Business (B2B) 99, 275
 Business-to-Customer (B2C) 275
 Business-to-Government (B2G) 99

C

captive power plant (CPP) 15

Chance-Constrained Data Envelopment Analysis (CCDEA) 352
 Collaborative Planning, Forecasting, and Replenishment (CPFR) 5
 Collaborative Product Development (CPD) 7
 Common Agricultural Policy (CAP) 106
 common technical barrier 86
 communications 123
 Company Supply Chain 349
 Computer-aided Design (CAD) 80
 computer aided manufacturing (CAM) 5
 Computer-assisted Lifecycle Support (CALs) 80
 conceptual model 94, 255-257, 259, 261, 264, 269
 conflict 134
 Consistency ratios (CR) 18
 consortium trade exchange 82
 contingency theory 121
 Conventional supply chain 15
 cooperative collaborations 127
 coordinated collaborations 127
 coordination 51
 Council of Supply Chain Management Professionals (CSCMP) 25, 34
 Council of Supply Chain Management Professionals (CSCMP) 25, 34
 customer adapters 274
 customer developers 274
 customer relationship management (CRM) 7, 32, 42
 Customer Web Service 328-330, 334
 cycle time 33, 127, 229, 277, 313

D

Database (DB) 327, 330
 Data Envelope Analysis (DEA) 312, 315
 data envelopment analysis (DEA) 246-247, 323, 349
 decision makers (DMs) 247, 350
 decision making units (DMUs) 247, 350
 Delphi method 137

Index

demand planning and forecasting (DPF) 50
demand uncertainty 189
dynamic capabilities perspective (DCP) 26-27
dynamic data 293
Dynamic Stackelberg 176

E

easy data storage 14
e-commerce 80
efficiency gains 150
e-hub 80
electronic data-interchange (EDI) 99
Electronic Data Interchange (EDI) 50, 80
Electronic Product Code (EPC) 293, 302
eMatrix 90
Enterprise Content Management (ECM) 2
enterprise resource planning (ERP) 32, 42, 259
Enterprise Resource Planning (ERP) 32, 42, 259
e-procurement 80
e-procurement strategies 78
European Union (EU) 106
eXtensible Markup Language (XML) 80, 293, 298, 310

F

factor analysis 16, 24
fairness 150
first order condition (FOC) 177
food industry 104
food manufacturing 50
freight rate maintenance and auditing 276

G

game theory 150
gap analysis 128, 313
Global Competitiveness Index, (GCI) 315

H

Hewlett-Packard (HP) 215
horizontal stud soderberg (HSS) 15
human collaboration 120
Human-Technology-Process Linkage 121
hybrid of threshold number 331, 336, 338

I

Imprecise Data Envelopment Analysis (IDEA) 352
industry benchmarks 313
industry-wide integration 111

information availability 259
information politics 85
Information Systems Integration 98, 105
information systems (IS) 100
information technology (IT) 12-13, 49, 52, 78, 100, 118, 272-273
integration management 102
Interenterprise Systems 25
Internet 301
inter-organizational systems (IOS) 99
Inventory Cost Systems 213
IT Infrastructure Integration 31

J

Johnson Controls International (JCI) 90
Just-In-Time (JIT) 350

K

Key Performance Indicators (KPIs) 128
knowledge management system (KMS) 30

L

large 3PLs 273
learning 123
less human error 14
logical inventory 327
logistics management 257
logistics planning 256

M

make-to-order 32, 173, 175, 183-184, 347, 362
Managerial Flexibility 173
Market Share 9, 84, 106, 109, 173
MIDAS (Managing Integrated Demand and Supply) 326
multi-criteria decision making methods (MCDM) 12-13
Multi-Objective Programming (MOP) 352

N

networked information 123
nondiscretionary factors 246-249, 252, 350, 353, 363
normal (NLT) 220

O

online purchasing (OP) 50

online selling (OS) 50
 optimal order quantity 187, 190, 197-198, 202, 211
 optimal price 198

P

Performance Measurement System (PMS) 313
 performance measures 313
 performance monitoring 313, 364
 Physical Markup Language (PML) 292, 301-302
 Planning Models 149, 267
 Preemptive Goal Programming (PGP) 351
 prioritization 16
 private trade exchange 82
 problem-solving capability 256
 procurement 78
 product data management (PDM) 7
 production theory 259
 product item (PI) 218

Q

quality assurance 103, 111, 313
 Quantitative logistics management 255-256
 quotes phase 328-329, 331-332, 335-336, 338-346

R

Radio Frequency Identification (RFID) 25-26, 47, 213, 230, 292
 Research and Development (R&D) 174
 Reservation Protocol 333
 retailer's backroom (RB) 223
 Retailer-Shelf (RS) 222
 retailer's warehouse (RW) 223
 risk 134
 Routinization 28

S

Sales & Distribution module (SD) 109
 sales force automation (SFA) 7
 Sarbanes-Oxley (SOX) 135
 sequenced in-line supply (SILS) 87, 89
 service developers 3PL providers 274
 service level agreement (SLA) 140
 Service Oriented Architecture (SOA) 304, 327
 Set of Reorders 231

simulation 213-214
 small 3PLs 272-274, 276, 282
 Spend Analysis & Vendor Evaluation System (SAVES 4)
 standard 3PL providers 274
 static data 293
 sticky prices 184-185
 Stochastic Inventory System 231, 243
 stock keeping units (SKUs) 5
 substitutable 232
 supplier selection 349
 supply chain 100
 Supply Chain Comparison 311
 Supply Chain Council (SCC) 32
 supply chain management 119
 Supply Chain Partnering 311
 Supply Chain Performance Measurement System (SCPMS) 314
 supply chain process integration. 32
 Supply Chain (SC) 214, 217
 supply ID 331
 Supply Structure 77
 Swedish Diary Association (SDA) 107
 synchronized collaborations 127

T

teaming 123
 technique for order preference by similarity to ideal solution (TOPSIS) 12-13
 TELMETRY 6
 third party exchange 82
 Third Party Logistics (3PL) 272-273
 threshold number 331
 timeout 331
 TOPSIS (Technique for Order Preference by Similarity to Ideal Solution) 248
 Total Quality Management (TQM) 352
 traceability 291
 traffic routing and scheduling 275
 transactional analysis 275
 Transactional collaborations 126
 trend tracking 313
 Two-Commodity 231, 242-243
 two-echelon Multiple Vendor Multiple Buyers Supply Chain (TMVMBSC) 30

Index

U

Unified Modeling Language (UML) 293
Unified Product Name (UPN) 302

V

vehicle maintenance 276
vehicle manufacturers (VMs) 78
Vendor Managed Inventory (VMI) 5
virtual input 249-250, 354-355
virtual output 249-250, 354-355

W

W3Consortium 298
waiting phase 328-329, 335-339, 344-345
warehouse management systems (WMS) 6
Web Services 327
wholesale price uncertainty 190
work processes 123
World Wide Web (WWW) 118
worst case (WCLT) 220