Chapter 22

E–Infrastructures for International Cooperation

Giuseppe Andronico
Italian National Institute of Nuclear Physics, Italy

Antun Balaz
Institute of Physics of Belgrade, Serbia

Tiwonge Msulira Banda
Ubuntunet Alliance, Malawi

Roberto Barbera
Italian National Institute of Nuclear Physics, Italy

Bruce Becker
Meraka Institute, South Africa

Subrata Chattopadhyay
Centre for Development of Advanced Computing, India

Gang Chen
Institute of High Energy Physics, China

Leandro N. Ciuffo
Italian National Institute of Nuclear Physics, Italy & RNP, Brazil

P. S. Dhekne
Bhabha Atomic Research Centre, India

Philippe Gavillet
CETA-CIEMAT, Spain & CERN, Switzerland

Salma Jalife
CUDI, Mexico & CLARA, Uruguay

John Wajanga Aron Kondoro
Dar Es Salam Institute of Technology, Tanzania

Simon C. Lin
ASGC, Taiwan

Bernard Marie Marechal
CETA-CIEMAT, Spain & Universidade Federal de Rio de Janeiro, Brazil

Alberto Masoni
Italian National Institute of Nuclear Physics, Italy

Ludek Matyska
CESNET, Czech Republic

Redouane Merrouch
CNRST, Morocco

Yannis Mitsos
Greek Research and Technology Network, Greece

Kai Nan
Chinese Academy of Sciences, China

Suhaimi Napis
Universiti Putra Malaysia, Malaysia

Salwa Nassar
ERI, Egypt & NARSS, Egypt

Marco Paganoni
University of Milano Bicocca, Italy

Ognjen Prnjat
Greek Research and Technology Network, Greece

Depei Qian
Beihang University, China

Sijin Qjan
Peking University, China

Mario Reale
GARR, Italy

Federico Ruggieri
Italian National Institute of Nuclear Physics, Italy

Cevat Şener
Middle Eastern Technical University, Turkey

Dipak Singh
ERNET, India

Yousef Torman
JUNET, Jordan

Alex Voss
University of St. Andrews, UK

David West
DANTE, UK

Colin Wright
Meraka Institute, South Africa

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ABSTRACT

E-infrastructures are becoming in Europe and in other regions of the world standard platforms to support e-Science and foster virtual research communities. This chapter provides the reader with a comprehensive view of the developments of e-Infrastructures in China, India, Asia-Pacific, Mediterranean, Middle-East, Sub-Saharan Africa, South-East Europe and Latin America and with an outlook on the very important issue of their long term sustainability.

INTRODUCTION: SOME OF THE WORLD “DIVIDES”

Almost 250 years after the publication of the illuministic and equalitarian theories of J. Rousseau, today’s world still suffers from a very uneven distribution of opportunities. Figures 1, 2 and 3 show, respectively, the world maps of growth competitiveness, education attainment, and digital inclusion (Maplecroft, 2008).

Looking at the maps in Figures 1, 2, and 3, two considerations can be highlighted:

First, there is a considerably strong correlation among the three quantities reported: thus several factors contribute in parallel to keep increasing the gap between more advanced and less advanced countries, inducing endemic problems like large-scale immigration, under-development, alienation, and poverty. Along the same reasoning, fighting against more than one problem simultaneously could then help to alleviate the others. As reported by the Education and Training Task Force (ETTF) of the e-Infrastructure Reflection Group (e-IRG ETTF, 2008), country studies carried out both by