



ICT Skills, Education and Certification

The Multi-Stakeholder Partnership

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ICT Skills, Education and Certification: the Multi-Stakeholder Partnership



Proceedings of the 4th **IT STAR Workshop**
on ICT Skills, Education and Certification:
the Multi-Stakeholder Partnership

27-28 November 2009
Rome, Italy

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1. Introduction

The 4th IT STAR Workshop on ICT Skills, Education and Certification: the Multi-Stakeholder Partnership, 27-28 November 2009, Rome Italy, was the latest edition in a series of successful IT STAR events, namely:

- IT STAR-FISTERA Workshop on “ICT and the Eastern European Dimension” held in October 2004 in Prague, the Czech Republic [the proceedings were published in 2006 in *Prospects for a Knowledge-based Society in the New Member States and Candidate Countries* – ISBN 973-27-1319-4]
- 1st IT STAR Workshop on “R & D in ICT” held in November 2006 in Bratislava, Slovakia [the proceedings were published in May 2007 in *R&D in Information and Communication Technology: Central, Eastern and Southern Europe* – ISBN 978-3-902580-02-3]
- 2nd IT STAR Workshop on “Universities and the ICT Industry (UNICTRY 07)” held in May 2007 in Genzano di Roma, Italy [the proceedings were published in September 2007 in *Universities and the ICT Industry* – ISBN 88-901620-1-5]
- 3rd IT STAR Workshop on National Information Society Experiences (NISE 08), held on 8 November 2008 in Godollo, Hungary [the proceedings were published in March 2009 in *National Information Society Experiences* – ISBN 88-901620-2-3]

Participants from Albania, Bulgaria, Croatia, Cyprus, Czech Rep., Hungary, Ireland, Italy, Lithuania, Poland, Romania, Serbia, Slovakia, Slovenia and Switzerland, as well as representatives of the Holy See, the European Commission, EITO, EMF, CEPIS, CEN-WS on ICT Skills, ECDL-F, ILB, IT STAR and other organizations, took part in this authoritative forum of professionals in the field.

A total of 25 presentations were delivered, among them the Opening Address by Prof. Bruno Lamborghini (AICA President, EITO Chairman, Olivetti Senior VP), and 3 Keynotes – by Msgr. Paul Tighe (Secretary of the Pontifical Council for Social Communications), Mr. Niko Schlamberger (President of SSI “INFORMATIKA”, immediate Past President of CEPIS and IFIP VP) and Mr. André Richier (Principal Administrator, EC-DG Enterprise and Industry). The presentations were grouped in 3 major areas – National and International Programs and Experiences (including National Reports), Industry Experiences, and activities and projects of the CEN WS on ICT Skills.

As customary for IT STAR events, a Declaration based on the presentations and the debate was adopted and distributed widely.

This volume contains the revised and edited papers of the Rome workshop. It investigates the current state, problems and challenges with respect to ICT skills, professional education and certification, both on national and international levels, and identifies best practices and key issues of common interest and concern. The publication is intended to facilitate policymaking within the IT STAR region and the European Union.

The book highlights the findings of an exceptional multi-stakeholder forum of academic, business and government representatives and presents useful analyses and factual information to

practitioners and decision-makers in the public sphere and industry, whose occupation is based on knowledge and sound choices related to e-Skills.

Further PowerPoint contributions, notably from *André Richier* on e-Skills for the 21st Century and *Orfhlaith Ni. Chorcora*, on e-Skills Industry Leadership Board, are available at the Conference website – <http://starbus.org/ws4/ws4.htm>.

Giulio Occhini and Plamen Nedkov

Co-Chairmen of the Program and Organizing Committee
Editors of the Conference Proceedings

March 2010

1.1. Participants

Family Name	First Name	Country	Society
AMATO	Flora	Italy	Naples University
BALTAC	Vasile	Romania	ATIC/CEPIS
BELLINI	Roberto	Italy	AICA
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BOMBARA	Maurizio	Italy	ITIS - LODI (LO)
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BRAMBILLA	Raffaele	Italy	Websience S.r.l.
CICO	Betim	Albania	Polytechnic University of Tirana
DE SANTIS	Lorenzo	Switzerland	UNI Global Union
DOBAY	Peter	Hungary	University of Pecs
DOLAN	Dudley	Ireland	CEN WS-End User Requirements
DUKIC	Djordje	Serbia	JISA
DUKIC	Dubravka	Serbia	JISA InfoReview
FAVORITO	Rosa Anna	Italy	CEPAS Roma
FERRETTI	Marco	Italy	University of Pavia, CINI
FRKOVIC	Marijan	Croatia	CITS
GARRO	Salvatore	Italy	AICA
GENOVESE	Carme	Italy	Univ. Tor Vergata Scuola Iad
GENTILI	Marco	Italy	CNIPA
GERVASIO	Vincenzo	Italy	CNEL
GLIGOR	Horia	Romania	ATIC
HAYDEN	Dorothy	IT STAR NL	IT STAR Newsletter
HOLYSKI	Marek	Poland	PIPS
JACOBSSON	Caroline	Belgium	European Metalworkers Fed.
LAMBORGHINI	Bruno	Italy	AICA, EITO
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LOOMES	Maria	Ireland	ECDL Ireland
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MOSCA	Giorgio	Italy	Elsag Datamat
NEDKOV	Plamen	IT STAR	IT STAR
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OCCHINI	Giulio	Italy	AICA
O'CONNOR	Michael	Ireland	ECDL Ireland
O'SULLIVAN	Damien	ECDL-F	ECDL Foundation
PATINI	Franco	Italy	Confindustria
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RICHIER	Andrè	EC	EC-DG Enterprise and Industry
ROVAN	Branislav	Slovakia	SSCS
ROVINA	Daniela	Italy	AICA
RUSSO	Giuliano	Italy	AICA
SCALZOTTO	Emanuela	Italy	AICA
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SCHLAMBERGER	Niko	Slovenia	SSI/CEPIS
SCQUIZZATO	Riccardo	Italy	Confindustria
SENDOVA	Evgenia	Bulgaria	IMI-BAS
SILVESTRI	Roberto	Italy	AICA
STULLER	Julius	Czech Rep.	CSKI
TELEŠIUS	Eugenijus	Lithuania	LIKS
TIGHE	Paul	The Holy See	Pontifical Council for Social Communications

1.2. Program

4th IT STAR WS on **ICT Skills, Education and Certification: the Multi-stakeholder Partnership**,
27 – 28 November 2009, Rome, Italy – <http://starbus.org/ws4/ws4.htm>

Venue: **Villa Aurelia** - www.villaaurelia.net

Organizing and Program Co-chairs: **Giulio Occhini** and **Plamen Nedkov**

Friday, 27 November

09.15 Registration

10.00 – 11.30 Opening

Opening address by **Bruno Lamborghini**, President of AICA, Chairman of EITO

Keynote speakers

- **Msgr. Paul Tighe**, Secretary, Pontifical Council for Social Communications
- **Niko Schlamberger**, President of Slovenian Society “Informatika” and CEPIS Past President

11.30 – 12.30 National and International Programs and Experiences

- **Vasile Baltac**, President of ATIC-Romania and CEPIS President
- **Marco Ferretti**, University of Pavia, CINI representative
- **Damien O’Sullivan**, Chief Executive, ECDL-Foundation
- **Vincenzo Gervasio**, Italian National Council for Economy and Labor
- **Giorgio Mosca**, Finmechanica Group

12.30 – 13.30 **Lunch**

13.30 – 15.30 National and International Experiences (cont’d)

- **Maurizio Bombara**, WebScience S.r.l.
- **Eugenijus Telešius**, ECDL Lithuania
- **Marco Gentili**, CNIPA

15.30 – 16.00 Coffee break

16.00 – 18.00 Industry experiences

- **Roberto Bellini**, AICA-EUCIP
- **Orfhlaith Ni. Chorcora**, Senior Director for Marketing, ORACLE, rep. ILB
- **Caroline Jacobsson**, European Metalworkers’ Federation, EMF
- **Riccardo Scquizzato**, Confindustria, Italy

20.00 **Conference Dinner**

Saturday, 28 November

09.00 – 09.30 Keynote

André Richier, Principal Administrator, EC-DG Enterprise and Industry

09.30 – 11.00 National Reports

Albania: **Betim Cico** and **Neki Frasheri**, Faculty of IT, Polytechnic University of Tirana

Bulgaria: **Evgenia Sendova et al**, Inst. of Mathematics and Informatics, BAS (*“Harnessing ICT for Building a Creativity-based Society”*)

Hungary: **Maria Raffai**, Chair, Information Science, Gyor University

Lithuania: **Alfredas Otas**, Chairman of LIKS and **Saulius Maskeliūnas**, Institute of Mathematics and Informatics, Vilnius

Other presentations:

Antonino Mazzeo et al, University of Naples “Federico II”

11.00 – 11.30 Coffee break

11.30 – 12.30 CEN WS on ICT Skills

- **Paolo Schgör**, CEN/ISSS ICT-Skills WS Chair
- **Plamen Nedkov**, Chief Executive, IT STAR, project team member, *“e-CF in Action*
- **Peter Dobay**, Head of Dept. University of Pecs, New Business MIS Degree in Hungary
- **Dudley Dolan**, Chair Q-Validus, project team member, *“ICT Skills End User Requirements”*)

12.30 – 13.00 Wrap-up and adoption of Conference Declaration

10. Editors and Authors

Vasile	BALTAC	President of ATIC, President of CEPIS	Romania
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