

JRC-IPTS IS Unit Publications 2009-2010

The work of the Information Society (IS) Unit focuses on various specific areas that contribute to addressing key EU challenges: for example, re-starting economic growth, ensuring long-term competitiveness, fighting unemployment and reinforcing social cohesion. The IS Unit focuses its research on the following areas:

- ICT Industry Analysis
- Digital Living & Identity
- Learning & Skills
- Inclusion & Cultural Diversity
- Economic Aspects of eHealth
- Social Computing
- eGovernance

ICT Industry Analysis

- **Born Digital / Grown Digital: Assessing the Future Competitiveness of the EU Video Games Software Industry** (2010). G. De Prato, C. Feijóo, D. Nepelski, M. Bogdanowicz, J.P. Simon. JRC 60711
- **Europe in the driver's seat? The Competitiveness of the European Automotive Embedded Systems Industry** (2010). E. Juliussen, R. Robinson. Editors: M. Bogdanowicz, G. Turlea.
- **A Helping Hand for Europe: The Competitive Outlook for the EU Robotics Industry** (2010). S. Forge, C. Blackman. Editors: M. Bogdanowicz, P. Desruelle.
- **Web 2.0: Where does Europe stand** (2009). S. Lindmark. JRC53035
- **OLEDs AND E-PAPER - Disruptive potential for the European display industry** (2009). Simon Forge and Colin Blackman. Editor: Sven Lindmark. JRC51739
- **Plastic Promises: The Disruptive Potential of OLEDs and E-paper for the European Display Industry** (2009). S. Forge, C. Blackman, S. Lindmark. Foresight 11 (3); p. 28-44.
- **The 2010 Report on R&D in ICT in the European Union** (2010). G. Turlea, D. Nepelski, G. de Prato, S. Lindmark, A. de Panizza, L. Picci, P. Desruelle, D. Broster. JRC57808
- **The 2009 Report on R&D in ICT in the European Union** (2009). G. Turlea, S. Lindmark, L. Picci, A. De Panizza, M. Ulbrich, P. Desruelle, M. Bogdanowicz, D. Broster. JRC49951
- **Software patents and firm's strategic behaviour in the EU: Some empirical insights** (2010). F. Rentocchini, G. De Prato. In Internationalization, Technological Change and the Theory of the Firm. Editors: N. De Liso, R. Leoncini, published July 28th 2010, ISBN: 978-0-415-46071-2, Routledge.
- **"From the "broadband ditch" to the release of the 2010 US national broadband plan. A short history of the broadband penetration debate in the US"** (2010). J.-P. Simon. In "Communications & Strategies" November 2010. Editors: K. Ducatel, M. Lebourges.
- **Three essays on competition and innovation** (2010). D. Nepelski. PhD Thesis, Humboldt-Universität zu Berlin, Wirtschaftswissenschaftliche Fakultät.
- **Business R&D in the ICT sector: examining the European ICT R&D deficit** (2010). G. Turlea, S. Lindmark, M. Ulbrich. Science and Public Policy, Volume 37, Number 6, July 2010, pp. 413-428(16)
- **Knowledge-Based Entrepreneurship in Romania** (2010). R.E. Cucuruzan, R. Gheorghiu, G. Turlea, S. Andrei. CASE Network Studies and Analyses No. 409
- **ICT and Regional Economic Dynamics: A Literature Review** (2010). C. Karlsson, G. Maier, M. Tripl, I. Siedschlag, R. Owen, G. Murphy. Editors: A. de Pannizza, M. Bogdanowicz. JRC59920
- **RFID: Prospects for Europe: Item-level Tagging and Public Transportation** (2010). A. de Panizza, S. Lindmark, P. Rotter. JRC58486
- **The Future of Semiconductor Intellectual Property Architectural Blocks in Europe** (2009). I. Tuomi; Editor: M. Bogdanowicz. JRC52422
- **Streamlining Microdata for the Analysis of ICT, Innovation and Performance** (2009). A. De Panizza, G. De Prato. JRC54908

Digital Living & Identity

- **Economic Trends in Enterprise Search Solutions** (2010). P.-J. Benghozi, C. Chamaret. Editor: R. Compañó. JRC57470
- **Engaging with the public? Assessing the online presence and communication practices of the Nanotechnology Industry** (2010). R. Ackland, R.K. Gibson, W. Lusoli & S. Ward. Social Science Computer Review, 28(4), 443-465
- **From security versus privacy to identity: an emerging concept for policy design?** (2010). W. Lusoli, & R. Compañó. Info, 12(2), 80-94.

- **New Challenges and Possible Policy Options for the Regulation of Electronic Identity** (2010). A. Hoikkanen, M. Bacigalupo, R. Compañó, W. Lusoli, I. Maghiros. *Journal of International Commercial Law and Technology* 5 (1); 2010. p. 84-98.
- **New Challenges and Possible Policy Options for the Regulation of Electronic Identity** (2009). A. Hoikkanen, M. Bacigalupo, R. Compañó, W. Lusoli, & I. Maghiros. *Revista de Faculdade de Direito Milton Campos*, 18, 185-208.
- **Prospects of Mobile Search** (2010). J. L. Gómez-Barroso, R. Compañó, C. Feijóo, M. Bacigalupo, O. Westlund, S. Ramos, A. Jaokar, F. Álvarez, R. De Waele, G. Mateos-Barrado, M. C. García-Jiménez. JRC56100
- **The Policy Maker's Anguish: Regulating Personal Data Behaviour Between Paradoxes and Dilemmas** (2010). R. Compañó, W. Lusoli. In: Moore, Pym, Ioannidis, editors. *Economics of Information Security and Privacy*. New York (USA): SPRINGER SCIENCE+BUSINESS MEDIA, INC.; p. 169-185.
- **The State of the Electronic Identity Market: technologies, stakeholders infrastructure, services and policies** (2010). T. Stevens, J. Elliott, A. Hoikkanen, W. Lusoli & I. Maghiros. JRC60959.
- **eID policy in a turbulent environment: is there a need for a new regulatory framework** (2009). W. Lusoli, I. Maghiros, M. Bacigalupo. *Identity in the Information Society* 1 (1); p. 173-187.
- **Exploring a Heterogeneous and Fragmented Digital Ecosystem: Mobile Content** (2009). C. Feijóo González, I. Maghiros, F. Abadie, J. Gomez-Barroso. *Telematics and Informatics* 26 (3); p. 282-292.
- **Factores clave en los mercados de acceso móvil a contenidos** (2009). C. Feijóo González, J. Gomez-Barroso. *PROFESIONAL DE LA INFORMACION* 18 (2).
- **Information, Telecommunication Technologies and Media Convergence Challenges: Perspectives on the Creative Content Industries** (2009). I. Maghiros. In: Caroline Pauwels, Harri Kalimo, Karen Donders and Ben Van Rompuy, editors. *Rethinking European Media and Communications Policies*. Brussels (Belgium): VUB Press p. 41-74.
- **Mobile Content: Mobile TV vs TV on mobiles**. R. Compañó, C. Feijóo González. In: Fundación Audiovisual de Andalucía, editor. *Tendencias e innovación de la producción y distribución en el audiovisual: nuevas ventanas de explotación*. Sevilla (Spain): Fundación Audiovisual de Andalucía; 2009. p. 153-161.
- **Reforms in Spectrum Management Policy** (2009). C. Feijóo González, J. Gomez-Barroso, A. Mochon. In: In Lee, editor. *Handbook of Research on Telecommunications Planning and Management for Business*. Illinois (USA): IGI Global; Chapter III (p. 33-47).
- **Search Engines for Audio-Visual Content: Copyright Law and its Policy Relevance** (2009). B. Rotenberg, R. Compañó. In: Peter Curwen, Justus Haucap and Brigitte Preisel, editors. *Telecommunication Markets - Drivers and Impediments*. Heidelberg and New York (Germany): Springer-Physica; p. 113-139.
- **Security and Privacy in RFID Applications** (2009). P. Rotter. In: Cristina Turcu, editor. *Development and Implementation of RFID Technology*. Vienna (Austria): I-Tech Education and Publishing; p. 237-260.
- **The Future Demand of Spectrum** (2009). C. Feijóo González. *Política Económica y Regulatoria en Telecomunicaciones-Regulatory and Economic Policy in Telecommunications* (2); p. 28-40.
- **The Next Paradigm Shift in the Mobile Ecosystem: Mobile Social Computing and the Increasing Relevance of Users** (2009). C. Feijoo, C. Pascu, G. Misuraca, W. Lusoli. In: IDATE, editor. *Changeover in the mobile ecosystem*. Montpellier (France): Communications and Strategies, p. 57-77.
- **Young People and Emerging Digital Services: An Exploratory Survey on Motivations, Perceptions and Acceptance of Risks** (2009). W. Lusoli, C. Miltgen. Editors: R. Compañó, I. Maghiros. JRC50089

Learning & Skills

- **Creatività e Tic nella Scuola dell'Obbligo: un'inchiesta su opinioni e pratiche degli insegnanti** (2010). A. Ferrari. *TD (Tecnologie Didattiche)* 50 (2); p. 30-38.
- **Creativity in Schools: A Survey of Teachers in Europe** (2010). R. Cachia, A. Ferrari. JRC59232
- **Expert Perspectives on Creativity and Innovation in European Schools** (2010). Dr S. Banaji, Dr S. Cranmer, Dr C. Perrotta. Editors: A. Ferrari, R. Cachia, Y. Punie. JRC Technical Note - JRC59833
- **Discussions on Learning in Online Networks and Communities** (2010). K. Ala-Mutka. JRC57270
- **Learning 2.0 - The Impact of Social Media on Learning in Europe. Policy Brief** (2010). C. Redecker, K. Ala-Mutka, Y. Punie. JRC56958
- **Learning in Informal Online Networks and Communities** (2010). K. Ala-Mutka. JRC56310
- **Mapping Major Changes to Education and Training in 2025** (2010). S. Stoyanov, B. Hoogveld, P. Kirschner. Editors: C. Redecker, Y. Punie. JRC59079
- **Pedagogical Innovation in New Learning Communities: An In-depth Study of Twelve Online Learning Communities** (2010). S. Aceto, C. Dondi, P. Marzotto; Editors: K. Ala-Mutka, A. Ferrari. JRC59474
- **Status and Developments of eLearning in the EU10 Member States: the cases of Estonia, Hungary and Slovenia** (2010). K. Ala-Mutka, P. Gaspar, G. Kismihok, M. Suurna, V. Vehovar. *EUROPEAN JOURNAL OF EDUCATION* 45 (3); p. 494-513.
- **The Future of Learning: New Ways to Learn New Skills for Future Jobs - Results from an online expert consultation** (2010). C. Redecker, M. Leis, M. Leendertse, G. Gijssbers, Y. Punie, P. Kirschner, S. Stoyanov, B. Hoogveld. JRC60869
- **Active Ageing and ICT for Learning** (2009). K. Ala-Mutka, Y. Punie. In: M. Cabrera, N. Malanowski, editor. *Information and Communication Technologies for Active Ageing*. Amsterdam (Netherlands): IOS Press; p. 128-149
- **Good Practices for Learning 2.0: Promoting Inclusion - An In-depth Study of Eight Learning 2.0 Cases** (2009). J. Cullen, C. Cullen, D. Hayward, V. Maes. Editors: C. Redecker, M. Bacigalupo, K. Ala-Mutka, Y. Punie. JRC53578

- **Good Practices for Learning 2.0: Promoting Innovation. An In-depth Study of Eight Learning 2.0 Cases** (2009). S. Heid, T. Fischer, W. Kugemann. Editors: C. Redecker, M. Bacigalupo, K. Ala-Mutka, Y. Punie. JRC53212
- **ICT as a driver for Creative Learning and Innovative Teaching** (2009). A. Ferrari, R. Cachia, Y. Punie. In: *Measuring Creativity*; 28 May 2009; Brussels. *Measuring creativity*; p. 345-367
- **Learning 2.0: the Impact of Web 2.0 Innovations on Education and Training in Europe – Final Report** (2009). C. Redecker, K. Ala-Mutka, M. Bacigalupo, A. Ferrari, Y. Punie. JRC55629
- **Learning 2.0. The Impact of Web 2.0 Innovation on Education and Training in Europe – Workshop Report** (2009). K. Ala-Mutka, M. Bacigalupo, S. Kluzer, C. Pascu, Y. Punie, C. Redecker. JRC50704
- **Innovation and Creativity in Education and Training in the EU Member States: Fostering Creative Learning and Supporting Innovative Teaching** (2009). A. Ferrari, R. Cachia, Y. Punie. Literature review on Innovation and Creativity in EandT in the EU Member States (ICEAC). JRC52374
- **Las personas jóvenes y las TIC. Iniciativas orientadas hacia jóvenes en riesgo de exclusión social** (2009). A. Hache, S. Kluzer. In: Fundación Orange, editor. *eEspaña, Informe anual sobre el desarrollo de la sociedad de la información*. Madrid (Spain): Fundación Orange; p. 275-280.
- **Learning 2.0 Case Database** (2009). C. Redecker. JRC51916
- **Learning and Innovation in New ICT-Facilitated Communities** (2009). K. Ala-Mutka, Y. Punie. In Conference Proceedings: *Proceedings of the M-2009 World Conference on Open and Distance Learning*. Open Universiteit Nederland; p. 1-6.
- **Review of Learning 2.0 Practices: Study on the Impact of Web 2.0 Innovations on Education and Training in Europe** (2009). C. Redecker. JRC49108
- **Review of Learning in ICT-enabled Networks and Communities** (2009). K. Ala-Mutka. JRC52394
- **Review of Learning in Online Networks and Communities** (2009). K. Ala-Mutka, Y. Punie, A. Ferrari. In: EC-TEL 2009 - 4th. European Conference on Technology Enhanced Learning; 29 September 2009; Nice (France). *Lecture notes in Computer Science* 5794; p. 350-364.
- **Social Networking in Education. Chapter 2. - 2.1 Introduction - Why Should Teachers Embark on Web 2.0 Tools for Social Networking** (2009). C. Redecker. In: *eTwinning 2.0: Building the community for schools in Europe*. Brussels (Belgium): European Schoolnet; p. 15-18.
- **The Development of eServices in an Enlarged EU: A Synthesis Report on eLearning** (2009). J. Chytilova, C. Dondi, C. Del Rio, P. Gáspár, R. Jaksa, G. Kismihók, K. Krapez, V. Vehovar, K. Ala-Mutka. Editors: P. Gaspar, K. Ala-Mutka, Y. Punie. JRC51596

Inclusion & Cultural Diversity

- **Conclusions of the Workshop on Long-term Care Challenges in an Ageing Society: the Role of ICT and Migrants (Brussels, 19 January 2010)** (2010). C. Redecker, C. Centeno. JRC58928
- **ICT and Youth at Risk: How ICT-driven initiatives can contribute to their socio-economic inclusion and how to measure it** (2010). A. Haché, J. Cullen. JRC58427
- **ICT for Learning the Host Country's Language by Adult Immigrants in the EU – Workshop Conclusions** (2010). S. Kluzer, A. Ferrari, C. Centeno. JRC57387
- **Long-term Care Challenges in an Ageing Society: The Role of ICT and Migrants** (2010). S. Kluzer, C. Redecker, C. Centeno. JRC58533
- **The Potential of ICT in Supporting Domiciliary Care in Spain** (2010). C. Redecker, J. Reig, T. Carrión, S. Martinez, M. Armayones, D. McCarthy, M. Fernandez. JRC61083
- **The Potential of ICT in Supporting Domiciliary Care in England** (2010). S. Yeandle, G. Fry; Editors: S. Kluzer, C. Redecker, J. A. Valverde. JRC 56438
- **The Potential of ICT in Supporting Domiciliary Care in Germany** (2010). H. Mollenkopf, U. Kloé, E. Olbermann, G. Klumpp. Editor: C. Redecker. JRC56575
- **The Potential of ICT in supporting Immigrant Care Workers in Domiciliary Care in Italy** (2010). P. Boccagni, S. Pasquinelli. Editor: S. Kluzer. JRC59427
- **Using Information and Communication Technologies to Promote Education and Employment Opportunities for Immigrants and Ethnic Minorities** (2010). C. Redecker, A. Haché, C. Centeno. JRC57947
- **Study on Social Computing and Immigrants and Ethnic Minorities: Usage Trends and Implications** (2010). D. Diminescu, M. Jacomy, M. Renault. Editors: S. Kluzer, A. Haché. JRC55033
- **E-Inclusion Policies and Initiatives in Support of Employability of Migrants and Ethnic Minorities in Europe** (2009). S. Kluzer, G. Rissola. *Information Technologies and International Development* 5 (2); p. 67-76.
- **Happy eInclusion? The case of Romania** (2009). G. Turlea, C. Ciupagea. *Journal for Economic Forecasting*, vol. 6, issue 3, pages 110-128
- **ICT for Integration, Social Inclusion and Economic Participation of Immigrants and Ethnic Minorities: Case Studies from France** (2009). D. Diminescu, M. Renault, S. Gangloff, M. Picard, C. D'Iribarne, S. Hassane. Editors: S. Kluzer, A. Haché. JRC51834
- **ICT for Integration, Social Inclusion and Economic Participation of Immigrants and Ethnic Minorities: Case Studies from Germany** (2009). A. Hepp, S. Welling, B. Aksen. Editors: S. Kluzer, A. Haché. JRC53397
- **ICT for Integration, Social Inclusion and Economic Participation of Immigrants and Ethnic Minorities: Case Studies from Spain** (2009). I. Maya-Jariego, P. Cruz, J. Molina, B. Patraca, A. Tschudin. Editors: S. Kluzer, A. Haché. JRC51774

- **ICT Supply and Demand in Immigrant and Ethnic Minority Communities in France, Germany, Spain and the United Kingdom** (2009). D. Diminescu, A. Hepp, S. Welling, I. Maya-Jariego, S. Yates. Editors: C. Codagnone, S. Kluzer, A. Haché. JRC52233
- **The State of the Art of Research in the EU on the Uptake and Use of ICT by Immigrants and Ethnic Minorities** (2009). M. Borkert, P. Cingolani, V. Premazzi. Editors: S. Kluzer, A. Haché. JRC53398

Economic Aspects of eHealth

- **Ambient intelligence for remote patient monitoring of chronic diseases** (2009). C. Pascu, I. Maghiros, F. Abadie. In G. Van Steendam et al. (editors). "Ambient Intelligence and Human Security. Embedding Science in Society", 2009 IFB, the book of proceedings of the International Conference "ICT that makes the difference" ISBN 978-90-73009-00-4
- **Healthcare through Social Computing: A Case for Public-Private Collaboration** (2009). J. A. Valverde. International Journal of Management and Network Economics 1 (3); p. 343-355.
- **Information and Communication Technologies for Active Ageing: Opportunities and Challenges for the European Union** (2009). N. Cabrera Giraldez, N. Malanowsk, editors Amsterdam (The Netherlands): IOS Press -
- **ICT-based Applications for Active Ageing: Challenges and Opportunities** (2009). N. Malanowski. In: Marcelino Cabrera Norbert Malanowski, editor. Information and Communication Technologies for Active Ageing. Amsterdam (The Netherlands): IOS Press; p. 107-127.
- **ICT for Health: Social Computing** (2009). M. Cabrera Giraldez, J. Valverde Albacete. In: Marcelino Cabrera Norbert Malanowski, editor. Information and Communication Technologies for Active Ageing. Amsterdam (The Netherlands): IOS Press; p. 166-185.
- **ICT for Independent Living Services** (2009). M. Cabrera Giraldez, R. Ozcivelek. In: Marcelino Cabrera Norbert Malanowski, editor. Information and Communication Technologies for Active Ageing. Amsterdam (The Netherlands): IOS Press; p. 216-234.
- **Future ICTs for Active Ageing: Brain-machine and Brain-computer Interfaces** (2009). R. Compañó. In: Marcelino Cabrera Norbert Malanowski, editor. Information Communication Technologies for Active Ageing. Amsterdam (The Netherlands): IOS Press; p. 235-252
- **Possible Ways Ahead:** (2009). N. Malanowski, M. Cabrera Giraldez, J. Burgelman. Concluding Remarks. In: Marcelino Cabrera Norbert Malanowski, editor. Information Communication Technologies for Active Ageing. Amsterdam (The Netherlands): IOS Press; p. 262-264.

Social Computing

- **The Impact of Social Computing on Public Services: a Rationale for Government 2.0.** (2010). T. Van Den Broek, V. Frissen, N. Huijboom, Y. Punie. European Journal of ePractice 9; p. 5-19.
- **Public Services 2.0: The Impact of Social Computing on Public Services** (2009). N. Huijboom, T. van den Broek, V. Frissen, L. Kool, B. Kotterink, M. Meyerhoff Nielson, J. Miljard. Editors: Y. Punie, G. Misuraca, D. Osimo. JRC54203
- **Social Computing-implications for EU Innovation Landscape** (2009). C. Pascu, D. Osimo, G. Turlea, M. Ulbrich, Y. Punie, J. Burgelman. Journal of Social Informatics 6 (11); p. 9-24.
- **The Impact of Social Computing on the EU Information Society and Economy** (2009). K. Ala-Mutka, D. Broster, R. Cachia, C. Centeno, C. Feijóo, A. Haché, S. Kluzer, S. Lindmark, W. Lusoli, G. Misuraca, C. Pascu, Y. Punie, J. A. Valverde. Editors: Y. Punie, W. Lusoli, C. Centeno, G. Misuraca, D. Broster. JRC54327
- **The Next Paradigm Shift in the Mobile Ecosystem: Mobile Social Computing and the Increasing Relevance of Users** (2009). C. Feijoo, C. Pascu, G. Misuraca, W. Lusoli. In Communications & Strategies, IDATE, No. 75.
- **The Social, Less Social and the Fecund Aspects of Social Networking Sites** (2009). R. Cachia. In Conference Proceedings: Conference Book of Proceedings - The Good, the Bad and the Challenge. Brussels (Belgium): European Cooperation in Science and Technology - COST; p. 1-10.
- **User-led, citizen innovation at the interface of services** (2009). C. Pascu, M. Van Lieshout. In Emerald Info Journal Volume 11 Issue 6, Special Issue: Policy support for next generation communications.

eGovernance

- **Envisioning Digital Europe 2030: Scenario design on ICT for governance and Policy Modelling** (2010). G. Misuraca, D. Broster, C. Centeno. In Proceedings of the 4th International Conference on Theory and Practice of Electronic Governance (ICEGOV2010), Beijing, China, 25-28 October 2010 - ACM International Conference Proceedings Series, ACM Press (pp. 347-356).
- **Assessing emerging ICT-enabled governance models in European cities: results from a mapping survey** (2010). G. Misuraca, E. Ferro, B. Caroleo. In proceedings of the eGOV2010 Conference, Lausanne, 29 August – 3 September 2010, IFIP, Springer Publisher, LNCS 6228 (pp. 168-179).

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