Content

Sponsors.............................................................................................................................................I

Steering Committee.........................................................................................................................XX

Advisory Committee.........................................................................................................................XX

Message of Greeting / Grußwort......................................................................................................XXII

Plenary Sessions

Lifelong Learning for Meaning...........................................................................................................1
Prof. Roberto Carneiro, former Portuguese Minister of Education & Dean of the Institute for Distance Learning at the Portuguese Catholic University, Portugal

E-Learning and Knowledge Management: How to Reconcile Coherence and Variety of Solutions, Efficiency and Reactivity?.......................................................2
Eric de Dreuzy, Director eLearning, Air France, France

Transforming Learning and Life Chances: What's the Critical Path?.................................3
Brian Durrant, Chief Executive, London Grid for Learning Trust, UK

Competence to the Business - How Can We Learn More, Faster and Cheaper?...............................4
Staffan Ivarsson, Deputy Director, Human Resources, Swedbank, Sweden

A Quantum Leap in Lifelong Learning in The Netherlands; the Need for a National Open and Flexible Lifelong Learners' Infrastructure.................................6
Ben J.P. Janssen, Secretary to the Dutch National Initiative 'Long Live Learning', & Prof. Fred Mulder, Open University of the Netherlands, The Netherlands

The Cult of the Amateur: How Today's Internet is Killing Truth.................................................8
Andrew Keen, USA

Knowledge 2.0? Social Networks and the Global Sourcing of Talent.................................8
Bruno Lanvin, Executive Director, INSEAD/eLab, France

The Collaborative Working Environment: Next Generation Learning Platform, Including Web 2.0...........................................................................................................9
Roger Larsen, Founder and Managing Director, Fronter, Norway

The 'Hole in the Wall' Experiments: Self-Organising Systems in Primary Education...............11
Prof. Sugata Mitra, Newcastle University, UK & Chief Scientist Emeritus, NIIT Ltd., India

Opening Keynote Speech.................................................................................................................12
Hon. Elizabeth Ohene, Minister of State, Ministry of Education, Science & Sports, Ghana
E-Learning in the Corporate and Company Context

Meeting the Needs, A Company is Preparing for Virtual Teamwork........... 15
Dr. Marion Bruhn-Suhr, University of Hamburg, Germany

Large Scale E-Learning Implementation in a Retail Environment at real,- SB Warenhaus GmbH................................................................. 17
Olaf Bursian, real,- SB Warenhaus GmbH, Member of MetroGroup, Germany

E-Learning as a Solution for Mine Safety Training in South Africa........... 20
Ronel Callaghan & Etienne Van Wyk, Tshwane University of Technology, South Africa

It's Not About the Technology.................................................................. 23
Jay Cross, Internet Time Group, USA

A New Learning Service Concept for Thales Netherlands....................... 25
Dr. Pieter de Vries, Delft University of Technology & Heinz Strotmann, Thales Nederland B.V., The Netherlands

Online SME Workplace Training Solutions for Outsourced Production Processes.......................................................................................... 29
Erik Engh, Quality Management Software, Norway, Hariklia Tsalapatas, University of Thessaly, Greece & John B. Stav, Sør-Trøndelag University College, Norway

www.foraus.de - BIBB´s Service for the Promotion of Training Personnel................................................................................................. 32
Michael Härtel, BIBB: Federal Institute for Vocational Education and Training, Germany

Content Just to Offer Content? - Methods of Engagement and Service Delivery to SMEs..................................................................................... 35
Vernon Jones, South Yorkshire e-Learning Programme, UK

The Skills of Generation Y Used for SMME Personnel Training............... 36
Petri Lounaskorpi, Information Technology Research Institute (ITRI), University of Jyväskylä, Finland

Enhancing E-Learning and Developing a Continuing Training System for Trainers: The Case of Italy................................................................. 38
Claudia Montedoro & Saverio Pescuma, ISFOL Istituto per la Formazione dei Lavoratori, Italy

Introducing Innovation in Andalusian Small and Medium Enterprises Through E-Learning.............................................................................. 42
Dr. Ainhoa Otamendi Herrera, Technological Network of Andalusia (RETA), Spain

E-Learning as an Elementary Component for Successfully Handling Situations where Someone Runs Amok....................................................... 45
Uwe Seidel, Ministry of the Interior Baden-Württemberg - State Police Headquarters, Germany
Training Hits the Road - Supporting European Automotive Technicians with MYCAREVENT
Dr. Wolfram Sittig, ESG Elektroniksystem- und Logistik GmbH, Germany

E-Learning by Doing: Designing Effective Workplace Learning
Dr. Sergio Vasquez-Bronfman, European School of Management, France & CV&A Consulting, Spain

'Learning Futures' in Higher Education

Using Mashups and Web 2.0 Applications to Create Personal Learning Environments
Ahmet Emre Açar, CeDiS, Free University Berlin, Germany

CARPE DIEM: Seizing Each Day for E-Learning Design
Dr. Alejandro Armellini, University of Leicester, UK

Improving the Higher Education Environment with Knowledge Management and ICT: The Bangkok University Case
Prof. Aurilla A. Arntzen, Hedmark University College, Norway & Bangkok University, Thailand; Tone Vold, Hedmark University College, Norway & Dr. Lugkana Voransachai, Bangkok University, Thailand

Rethinking University Learning Environments and Methods
Prof. Bodil Ask, University of Agder, UiA & Harald Haugen, Stord/Haugesund University College, Norway

Measuring Success in E-Learning - A Multi-Dimensional Approach
Malcolm Bell & Stephen Farrier, Northumbria University, UK

Henrik Bergh, Katja Karevaara, Ari Ekroos & Matias Warsta, Helsinki University of Technology, Finland

The Important Role of ePortfolios in Switzerland
Prof. Willi Bernhard, Swiss Distance University of Applied Sciences, Switzerland

Elaboration of Multimedia Teaching Materials at Riga Technical University
Dr. Juris Blums, Riga Technical University, Latvia

The Role of a Teacher in Higher Education in Face-to-Face in Blended Learning
Prof. Hans Boon, University of Pretoria, South Africa

Moodle, the Open Source Virtual Learning Environment: Is the Future Really Free?
Eric Clarke, Royal College of Surgeons in Ireland, Ireland

Scaling Up and Skilling Up: Using E-Learning Workshops for Staff Development and Scalability
Claire Doody, Royal College of Surgeons in Ireland, Ireland
Full Scale Implementation of a Blended Educational Model at Al Ahliyya Amman University
Carlos A. García, Universal Knowledge Solutions, United Arab Emirates

E-Learning as a Mediator of Language Skills and Didactics in a German-Kyrgyz Study Programme
Prof. Gudrun Görlitz & Stefan Müller, TFH Berlin - University of Applied Sciences, Germany; Asyl Madrami, Kyrgyz Technical University Bishkek, Kyrgyzstan

'The Knowledge Worker in SHAPE' Using Sharepoint as a Working and Learning Environment
Nico J. Juist, INHOLLAND University, The Netherlands

Remote Teaching Laboratories in Chemistry
Prof. Dietmar Kennepohl, Athabasca University, Canada

Services Approach in Dutch Higher Education - Expectations, Opportunities and Current Activities
Eric Kluijfhout & Ronald Ham, SURF foundation, The Netherlands

E-Learning Provision as a Community Demand in Universities: UPNA (A Case Study)
Dr. Miguel A. G. Laso, Pablo San Roman, Gorka Larralde, Xabier Cabrerizo & David Benito, Centre for Innovative Higher Education at UPNA, Spain

How to Improve the Virtual Campus? Lessons Learned from Faculty Members and TAs' Feedback
Béatrice Lecomte, University of Liège, Belgium

Overcoming the Challenges of Learning Transformation in Further and Higher Education
Anne McNeill, Dumfries and Galloway College, UK

Current Vistas and Realities of E-Learning in Architectural Education in Nigeria
Prof. Olu Ola Ogunsoke, Dr. Emmanuel L. Adebayo & Dr. Bogda Prucnal-Ogunsoke, Federal University of Technology, Nigeria

Extending and Supporting Physical Student Mobility Through Virtual Mobility: The VM-Base Experience
Ilse Op de Beeck, Prof. Wim Van Petegem & Katrin Bijnens, EuroPACE ivzw, Belgium

Developing E-Learning - Reforming Ways of International Cooperation in Education
Prof. Martti Raevaara, University of Art and Design Helsinki, Finland

Learning from the Future
Prof. Gilly Salmon, University of Leicester, UK

How to Mobilise Your Faculty Workforce
Jan Snijders & Eky Fioole, Avans University of Applied Science, The Netherlands
Viable Large Scale Online-Learning in Higher Education: The oncampus Case

Farina Steinert & Prof. Rolf Granow, oncampus, Lübeck University of Applied Sciences, Germany

Towards a Future VLE for an Open and Distance Learning Institution

Dr. Steven Verjans, Open University of the Netherlands, The Netherlands

Let Me Learn®: A System for Teaching ICT Skills to University Teachers

Laura Patricia Villamizar Carrillo, Rovira and Virgili University, Spain & University of Pamplona, Colombia; Angel Pio Gonzalez Soto, Rovira and Virgili University, Spain

Help Me! Online Learner Support Through the Self-Organised Allocation of Peer Tutors

Dr. Wim Westera & Leo Wagemans, Open University of the Netherlands, The Netherlands

Classroom Learning and ICT

European Pedagogical ICT Licence in Italy: An Educational Programme Aimed at Formal and Informal E-Learning

Prof. Giovanni Adorni & Angela Maria Sugliano, University of Genoa, Italy

Using Interactive Computer Software (ICS) to Improve the Learning of Space Science and Mathematics in Primary School Education

Theodora Aregbesola, Obafemi Awolowo University, Nigeria

Labelling Digital Learning Materials so that Teachers Can Find and Use Them

Dr. Wim de Boer, SLO (Dutch Institute for Curriculum Development), The Netherlands

Developing Pedagogical ICT Competencies and Activities in the Teacher Training Programme

Petra Fischer & Willem Hoekstra, VU University Amsterdam, The Netherlands

Dutch Integration Exams - Official Integration of Immigrants in Dutch Society

Janneke Helsloot, Andriessen en Partners BV, The Netherlands

Taking the Lead from Users

Nick Jeans, South Yorkshire e-Learning Programme, UK

Ways to Support Reflective Thinking in Educational Games

Dr. Harri Ketamo & Marko Suominen, Tampere University of Technology, Finland

Ways to Support Reflective Thinking in Educational Games: Illusion of Intelligence Approach

Dr. Kristian Juha Mikael Kilii, Tampere University of Technology, Finland
ICT in European Schools: Quantitative and Qualitative Observations
Prof. Kurt Kohn, University of Tübingen, Germany

Developing a Synthesis of Technology, Tools and Classroom Practice to Create an Effective Online Pedagogy
Gill Potter, Oxford Brookes University & Matthias Scheja, Ealing City Learning Centre, UK

The Consolarium: Making Games Based Learning Happen in Scottish Schools
Derek P. Robertson, Learning and Teaching Scotland, UK

Connecting the Online Study Circle and the Online Learning Community in Supporting Continuous Teacher Development
Ingemar Svensson, Swedish Agency for Flexible Learning, Sweden

Radio Broadcasting as a Teaching Instrument in Rural Schools
Prof. Costas Tsolakidis & George Syggelakis, University of Aegean, Greece

Modelling & Collaboration Activities for Schools Mentored Through Teacher Training
Dr. Márta Turcsányi-Szabó, Eötvös Loránd University, Hungary

'OK, So We Got it Wrong!' How the Lessons from a Disaster Led to Success
Andrew Watt, The City of Edinburgh Council Education Department, UK

Public and Professional E-Learning

Student E-Communities in a UK Medical School: Facilitating Peer-Interaction and Student-Led Support
Deborah Biggerstaff, Warwick Medical School, UK

Mainstreaming E-Learning to Support Environmental Assessment and Early Warning
Gerard Cunningham & Maria Eugenia Arreola, United Nations Environment Programme, Kenya; Arndt Bubenzer, common sense - eLearning & training consultants GmbH, Austria

Kadaster Digital Perspective: Using E-Learning to Bridge the Knowledge Gap
Danny de Vos, Kadaster & Dr. Göran Kattenberg, Eedo Knowledgeware, The Netherlands

E-Learning in the United Nations System
Fred de Vries, UNHCR, Switzerland

Virtual PBL Approach to Medical Staff Training: The MEDITOP Project
Federica Funghi, Ilaria Mascitti & Emilia Primari, FOR.COM. Interuniversity Consortium, Italy
Online Problem-Based Learning Exercises in Postgraduate Medical Education: A Content Analysis of Reflection Points..........................153
Dr. Maria Gonzalez, Department of Dermatology, Cardiff University, UK

Investing in a New Culture of Learning in Public Administration.........154
Teresa Salis Gomes, Instituto Nacional de Administração (INA), Portugal

Scaling Up Telemedicine Through the Global Development Learning Network..........................................................................................156
David Gray, World Bank, Latin America and Caribbean Region, USA

RVC 4 LIFE: Lifelong E-Learning for Veterinary Graduates.................157
Nick Short, Royal Veterinary College, University of London, UK

E-Learning for Sustainable Water Management..................................158
Christian Stracke, University of Duisburg-Essen, Germany

NeuroBlend: A European Competence Based Blended Learning Framework for Lifelong Learning of Neuroscience Nurses...............159
Nicolai van der Woert, University Medical Centre St. Radboud, The Netherlands

Lifelong and Informal Learning

EAGLE: Lifelong Learning Between the Generations: State-of-the-Art, Potentials and Future Challenges......................................................163
Thomas Fischer, FIM-NewLearning, University of Erlangen-Nürnberg, Germany

Support for ICT for Learning from the EU’s Lifelong Learning Programme.................................................................................................167
Brian Holmes, Executive Agency for Education, Audiovisual and Culture, Belgium

Digital Terrestrial TV and TV Learning Games in Support of Vocational Training and Lifelong Learning.............................................171
Andrea Lorenzon, Giunti Labs, Italy

A Peer Comparison Approach to the Planning of (In-)Formal Training and Development Activities...............................................................172
Dr. Christoph Meier, University of St. Gallen, Switzerland

Designing, Teaching and Learning with Digital Media and Tools

Understanding Arab Learners’ Characteristics and Needs..................176
Prof. Sahar Mohamed Talaat Abdel Bary, Mona Younis, Dina Orieby & Amr El Menshawy, Media International, Islamonline.net, Egypt

Metadata and Standardization of Learning Resources for Pedagogical Tracking.........................................................................................179
Michel Arnaud, University of Paris X Nanterre, France
Alliance for Building Bridges to Digital Content..........................180
Emma Beer, The Strategic Content Alliance, UK

Design, Production and Implementation of Multimedia Simulations in a Leading Business School.................................................................180
Mathew James Constantine, Instituto de Empresa Business School, Spain

Large-Scale Implementation of a VLE: An Institutional Case Study of Blackboard Development and Evolution.................................................182
Roger Dence & Dr. Richard Mobbs, University of Leicester, UK

Delivering Cultural Heritage to Different Audiences: The JISC Digitisation Programme..........................................................183
Alastair Dunning, JISC, UK

Outsourcing Blackboard: Before and Beyond........................................184
Dr. Marc Dupuis, Leiden University, The Netherlands

The Past, the Present and Beyond Web 2.0 - 7 Stories in 75 Minutes!.......185
Brian Durrant, London Grid for Learning Trust, UK; Roger Larsen, Harald Gjervik, Nils Olav Sundsteigen, Dag Torp & Ingunn Vaglid, Fronter, Norway; Tore Rydgren, Hedmark University College, Norway

Open Learning Objects and Learning Object Management Systems.......186
Giovanni Fulantelli, Davide Taibi, Manuel Gentile & Mario Allegra, Italian National Research Council, Italy

The EdReNe Network: How Repositories Bridge the Gap Between Resource Providers and Users.........................................................189
Leo Højsholt-Poulsen, UNI-C, Denmark

Opening Up Education.....................................................................189
Dr. Vijay M.S. Kumar, MIT, USA; Dr. Toru Iiyoshi, The Carnegie Foundation for the Advancement of Teaching, USA & Dr. Stuart D. Lee, University of Oxford, UK

SALDO: A Practical Model for Developing CSCL, with Examples, Problems and Solutions.................................................................192
Gert-Jan Los, VU University Amsterdam & Annemieke Hondius, INHOLLAND University, The Netherlands

Repositories and Communities at Cross-Purposes: Issues in Sharing Digital Resources.................................................................193
Dr. Anoush Margaryan, Glasgow Caledonian University, UK

Cross-Domain Content: Integrating Access to Museum, Library, Archive and Audio-Visual Collections....................................................196
Jon Purday, European Digital Library network project, The Netherlands

Training of ICT Basis in WebCT Environment......................................197
Vlasta Rabe & Vladimir Jehlicka, University of Hradec Kralove, Czech Republic

Teaching English Affectively in Second Life...........................................200
David Richardson, Högskolan i Kalmar, Sweden
Using On-Line Tools for E-Learning in Romania.................................201
Prof. Nicolae Robu, Diana Andone & Prof. Radu Vasiu, 'Politehnica' University of Timisoara, Romania

Designing and Sharing Quality Learning Objects in Online Social Networks.................................................................................................204
Ruth Rominger, Monterey Institute for Technology and Education, USA

Design and Ongoing Monitoring Systems for Online Education..........205
Prof. Pier Giuseppe Rossi, University of Macerata, Italy

The Sigma Solution: Redefining Learner Accountability and Assessment in Online Learning Environments.................................208
Duane Sider, Rosetta Stone, Inc., USA

Personalised E-Learning: Platform Users in Control of Content Selection and Its Delivery................................................................................211
Radka Strnadová & Damian Miller, Institute of Education, University of Zurich, Switzerland; Maggi Lussi Bell & Karin Kovar, Zurich University of Applied Sciences, Switzerland; Jiri Danecek, Czech Technical University in Prague, Czech Republic

'Anne-Maries Welt' an Interactive Programme for German as a Foreign Language......................................................................................212
Karin Vavatzanidis & Enrico Karanikolas, NAVS Interactive, Greece

Developing European Online Courses.......................................................214
Dr. Jana Vejvodová, University of West Bohemia, Czech Republic

Sharing the LOAD: The Future of Learning Object Designs?.................217
Dr. Richard Windle, Heather Wharrad, RLO-CETL, University of Nottingham; Dawn Leeder & Raquel Morales, RLO-CETL, University of Cambridge, UK

A True Story about LMS Migration from the Commercial Blackboard Environment to OSS Moodle..........................................................221
Andreas Wittke, oncampus, Lübeck University of Applied Sciences, Germany

Games and Simulations in Support of Learning

Engaging and Preparing Learners for Employment Through Games Technology..........................................................................................225
Sara Bingham, Ufi/learndirect & Graeme Duncan, Caspian Learning, UK

One Case of a Computer Based Business Simulation: Virtual Reality?......227
Prof. Tienie Crous & Jenny Ferreira, University of the Free State, South Africa

How to Create Compelling, Educationally-Sound Social Simulations......230
Dr. David Guralnick, Kaleidoscope Learning, USA

The Easier, Faster, Better Track to Organisational Learning - New Serious Gaming Formats.................................................................231
Sebastian Hoffmann, SNTL Publishing GmbH & Co KG, Germany
Making Your Own Serious Game: The EMERGO Approach for Integrated, Scenario-Based Game Design
Dr. Hans Hummel, Open University of the Netherlands, The Netherlands

Motivate and Energise E-Learners with Immersive Simulations and Riveting Games Using Rapid Interactivity
Nachiket Khare, Harbinger Knowledge Products, India

Training Social Skills Digitally - The Limits and Potential of Simulations
Nathan Kracklauer, Enspire Learning, USA

Harnessing the Power of Electronic Learning Simulations to Shorten Training Cycles and Improve Employee Productivity
Horst Krieger, ipcenter.at, Austria

Is the Corporate Sector Taking Serious Games Seriously?
Euan Mackenzie, 3MRT Ltd., UK

Learn by S(t)imulation: A Generic Simulation Tool for Technical Workers in the Processing Industry
Davor Meersman, Synergetics NV & Dagwin Roelants, Lanxess NV, Belgium

An Online Role Play Game to Identify, Develop and Retain the Business Critical Talents of Tomorrow
Sara Protopapa, IBM, Italy

Can Bank Managers Play? Fortis Bank’s Coaching Game
Mathy Vanbuel, Marie Bijnens, Sally Reynolds, ATiT, Belgium

Enabling Teachers in Higher Education to Develop Their Own Simulations: The Virtual City of Cyberdam
Pieter van der Hijden, Foundation LawOnline (Stichting RechtenOnline) & Sofos Consultancy, The Netherlands

Didactic Meta-Designs in Digital Game Based Learning
Prof. Michael G. Wagner, Danube University Krems, Austria

M-Learning: Learning in the Hands of the Learner

Mobile Learning with Open Source: Experiences of a Widespread Implementation in Department Stores
Dr. Jens Breuer, Qualitus GmbH, Germany

Large-Scale Content and Support for the Mobile Generation via Bluetooth
Dr. Christopher Dennett & John Traxler, University of Wolverhampton, UK

Engaging with Mobile Technologies for Learning and Assessment
Gareth Frith, Assessment & Learning in Practice Settings (ALPS) & Tom Holland, MyKnowledgeMap, UK
Dr. Frank Habermann, IMC AG, Germany

Mobile Learning in Higher Education: The Corvinus Case...........................................260
Gábor Kismihók, Corvinus University of Budapest, Hungary

Devices and Desires: Opportunities, Barriers and Solutions for Flash-Enabled M-Learning......................................................................................................261
Dawn Leeder, RLO-CETL, University of Cambridge, UK; Ellen Wagner, Adobe Systems Inc., USA & John Cook, RLO-CETL, London Metropolitan University, UK

eTaitava - Mobile Feedback for Out-of-Classroom Learning.................................265
Pekka Pirttiaho & Dr. Jan-Markus Holm, Mobiletools International Oy Ltd., Finland

M-Learning and Podcasting as an Assistive Technology..............................................266
Dr. Mark Riordan, Institute of Art, Design and Technology, Ireland

Mobile Learning, Mobile Technologies, Mobile Societies, Mobile Knowledge..................................................................................................................269
John Traxler, University of Wolverhampton, UK

Web 2.0 linked to Education 2.0

The IBM Knowledge Factory: Example of a Global, Efficient and Industrialised Approach to Content Creation.................................................................272
Bert De Coutere, IBM, Belgium

Unlock the Beta........................................................................................................272
Johannes De Gruyter & Kamakshi Rajagopal, AVNet, K.U.Leuven; Helena Bijnens, EuroPACE ivzw, Belgium

Web 2.0: Personalised Learning in a Dynamic Multi-Mode Learning Environment to Support Group Based Assessment.........................................................274
Martina A. Doolan, University of Hertfordshire, UK

The Impact of Virtualisation and Web 2.0 Services on Software Engineering Didactics.............................................................................................................277
Prof. Stefan Edlich, TFH Berlin - University of Applied Sciences, Germany

E-Learning 2.0 - A Stepping Stone to E-Learning 3.0?...............................................278
Anne E. M. Fox, CV2, Denmark

Wikis in Education: Public, Semi-Public or Private, Which Is Best?.........................279
Sarah Guth, University of Padua, Italy

'Desperate Tutors'- Collaboration and Learning with Open Source Tools Between International Tutors.................................................................281
Julia Jäger, common sense - eLearning & training consultants GmbH, Austria

XII
How Social Networking Impacts Learning and Performance by
Making the 'Invisible, Visible' - A Case Study.................................283
Dr. Ray Jimenez, Vignettes for Training, Inc., USA

How Social Networks like 'sekretaria.de' Can Support Competence
Development and Competence Management.................................287
Anja Johanning, MMB-Institute for Media and Competence Research, Germany

Labyrinths of Learning: Wikis in Education.................................288
Harrie Manders, Fontys University of Applied Sciences, The Netherlands

Using Podcasts to Support Student Learning in GEES Subjects........289
Dr. Ming Nie & Dr. Palitha Edirisingha, University of Leicester, UK

Social Networks and Virtual Team Learning in WEB 2.0. .................292
Bart Rienties & Wim Gijselaers, University Maastricht, The Netherlands

Radioweb Europe: A Multimedia Podcasting and RSS Experience in
Europe..........................................................................................293
Gonzalo Santamaria, CECE, Spain

What Happens If You Give a GPS and a PDA to a 'Grandpa'?.........294
Marta Serra, Manresa City Council, Spain

Learning with Closed Eyes - Application and Potential of Podcasts in
Distance Learning..........................................................................297
Harald Stürmer, SGD (Klett Group), Germany

Virtual Worlds for Learning and Training......................................300
Dr. Eilif Trondsen, SRIC-BI, USA

Building Learning Capabilities Globally Through Online Learning.....301
Dr. Nick H.M. van Dam, Deloitte Touche Tohmatsu, The Netherlands

The ePrep CoP: Birth and Development of a CoP Inspired and
Supported by PALETTE..................................................................303
Nathalie Van de Wiele, ePrep, France

No Life in Second Life?..................................................................305
Dr. Steven Warburton, King’s College London, School of Law, UK

Wiki Welten - An Instrument for Corporate Knowledge Sharing and
Ubiquitous Learning.......................................................................306
Paul Westeneng, Andriessen en Partners BV, The Netherlands

Closing the Participation Gap - User Generated Content in E-Learning..310
Prof. Karsten D. Wolf, University of Bremen, Germany
Video in Support of Online Learning

Facilitating the Transmission of Know-How: Using Mixed Media to Teach Musical Instruments.................................................................311
Dr. Noël Conruyt & Olivier Sébastien, University of Reunion, France

Vodcasting in Education 2.0........................................................................314
Inge de Waard, Carlos Kiyan, Lut Lynen, Maxime Madder, Verena Renggli & Maria Zolfo, Institute of Tropical Medicine Antwerp (ITM), Belgium

Mobile Learning with the Teleteaching Anywhere Solution Kit (tele-TASK)..........................................................................................319
Andreas Groß, Hasso-Plattner-Institute for Software Systems Engineering, Potsdam, Germany

Understanding Audiovisual Theory and Practice Applied to E-Learning Design: Case Studies in Singapore.............................................319
Dr. Joe Peters, National University of Singapore, Singapore

Organising Virtual European Seminars: Experience and Best Practice from the VENUS Project............................................................321
Bieke Schreurs, EuroPACE ivzw, Sally Reynolds, ATiT, Kamakshi Rajagopal, AVNet, Belgium & Anna-Kaarina Kairamo, TKK, Finland

Experiences with High Quality Video Services in Teaching, Learning and Skills Upgrading........................................................................323
Dr. John B. Stav, Sør-Trøndelag University College & Erik Engh, Quality Management Software, Norway

Visual Archives in Education & Research: The Shoah Visual History Archive.........................................................................................327
Dr. Doris Tausendfreund, CeDiS, Free University Berlin, Germany

Video Genres: Practice and Potential in Online Teaching and Learning....329
Dr. Nicholas Watson, The Open University, UK

From Blended to Mobile Learning - Experiences with Video-Streaming and Vodcasting......................................................................330
Benjamin Wilding & Beat Affolter, Swiss Banking Institute, University of Zurich, Switzerland

The MEDEA Awards: Recognising Excellence in the Use of Digital Video and Audio in Learning.............................................................332
Dr. Clive P.L. Young, University of St. Andrews, UK

Quality and E-Learning

EFMD CEL Programme Accreditation for Technology-Enhanced Learning - Lessons Learned from Accredited Programmes......................334
Taiga Brahm, Sabine Seufert & Ulrich Bernath, Swiss Centre for Innovations in Learning (SCIL), University of St. Gallen, Switzerland
Essential Elements to Assuring Student Success.................................336
Prof. John F. Ebersole, Excelsior College, USA

Quality for E-Learning in European Universities: The Challenge of
Innovation...............................................................................................339
Prof. Ulf-Daniel Ehlers, European Foundation for Quality in eLearning
(EFQUEL), Belgium

Setting Standards: E-Learning Quality Management Using
LCMS-Technology..................................................................................343
Stefan Heil, Eedo Knowledgeware, Germany

Walking the Tightrope: Balancing the Imperatives of Quality, Equity
and Accessibility in a Transforming Higher Education Context..............346
Liezel Massyn, Karen Thomas, Prof. M.J. Crous, M. Fourie, H. van Zyl &
H.E. Thomas, University of the Free State, South Africa

A Specific Quality Standard for Distance Learning? Advantages and
Challenges of PAS 1037 for DL-Providers............................................349
Dr. Okke Schlüter, SGD (Klett Group), Germany

Assessment and Evaluation

Advanced Testing Using Online Quizzes in WebCT................................350
Karmela Aleksic-Maslac, Duro Njavro & Pasko Anic-Antic, Zagreb School of
Economics and Management, Croatia

Feedback in Exercise Assistants..............................................................353
Prof. Johan Jeuring, Open University of the Netherlands, The Netherlands

Online Language Testing - Conciliating Efficiency with Validity..............355
Roger Charles Randall, MONDIALE Testsysteme, Germany

Online Assessment and Digital Rights Management..............................358
Donald Staal, Wolters-Noordhoff bv, The Netherlands

eBay Europe Expands E-Learning with New Assessments.......................358
Caroline Winning, eBay International AG, Germany

Online Learning, Equality and Accessibility

Online Learning: The Gateway for Greater Inclusivity for All Ages,
Abilities and Access Resources..............................................................362
Dr. Bob Barrett, American Public University, USA

E-Learning for All - Accessible Distance Learning Solutions....................363
Rogério Costa & Josélia Neves, Polytechnic Institute of Leiria, Portugal

E-Learning for Basic Skills - A Case for E-Learning that is Anything
but Basic...............................................................................................364
Ignatz Heinz & Ralf Kellershohn, Avallain AG, Switzerland
Accessibility in E-Learning for Visually Impaired Learners - Actual Problems and Solutions.........................................................................................................................368
Jürgen Hüllen, Vocational Training Center for Blind and Visually Impaired People, Germany

E-Inclusion - Connecting Hospitals and Classrooms..............................................371
Prof. Anton Knierzinger & Caroline Weigner, Education Highway Innovation Center for School and New Technology, Austria

Optimising Online Content Production: Embedding Accessibility Practices in the Development Process.................................................................374
Matthew Pointon, Northumbria University, UK

4 Tips for Integrating Web Accessibility Standards into Curricula.................374
Cousett K. Ruelas, St. Edward’s University, USA

Bringing the Classroom into the Homes of Disabled Students...............376
Fons van Rooijen, CINOP / REA College, The Netherlands

BeLearning: Developing Accessible E-Learning Environments...............379
Helmut Vieritz, TU Berlin & Sabina Jeschke, University of Stuttgart, Germany

The Application of Research Outcomes in the TEL Field

Knowledge Versus Information: Implications for Learning..............................383
Albert Calvet, CV&A Consulting, Spain

The Effect of Collaborative Technology on Learning Style Preferences (LSP): An E-Learning Case Study.................................................................386
Dr. Alan Hogarth, Dr. John Biggam & Dr. Alexis Barlow, Glasgow Caledonian University, UK

Web 2.0? - In Search of a Fluid Networking Culture....................................389
Prof. Stefan Sonvilla-Weiss, University of Art and Design Helsinki, Finland

Supporting Lifelong Learning: How Open Must Architecture & Infrastructure Be?.................................................................................................391
Dr. Steven Verjans, Open University of the Netherlands, The Netherlands

E-Learning Policy and Practice

Bridging the Gaps: A Community Server for the Connection of Different Learning Management Systems.................................................................393
Dr. David Boehringer, Universität Stuttgart, Germany

Digital Portfolios: From Puppies to Old Crocodiles....................................395
Eky Fioole & Rudi Clause, Avans University of Applied Science, The Netherlands

Dissemination of E-Learning Products and Services..................................395
Christian Hohnbaum, Swiss Virtual Campus SVC, Rectors’ Conference of the Swiss Universities CRUS, Switzerland
A New and Shared Vision for E-Learning in Europe? The Contribution of HELIOS.................................................................399
Fabio Nascimbeni, MENON Network, Belgium

Implementing ePortfolios: Success with 18,000 Staff and Students at the University of Wolverhampton.........................................................400
Shane Sutherland, University of Wolverhampton & Pebble Learning, UK

Education and Training Reforms in the Mediterranean Region...........404
Dr. Richard Straub & Annemie Boonen, ELIG, Belgium; Ulrike Damyanovic, ETF, Italy

The NedCar ePortfolio Project: Adressing Europe's Core Employability Challenges.........................................................................................406
Luk Vervenne, Synergetics NV, Belgium

General Sessions

E-Learning in Romania - A Critical Analysis.............................................410
Prof. Radu Vasiu, Diana Andone & Prof. Nicolae Robu, 'Politehnica' University of Timisoara, Romania

Best Practice Showcase Sessions

Blended Learning in an Introductory Undergraduate Science Course: Physics 1A (Foundations).................................................................413
Dr. Simon Bates & David McKain, University of Edinburgh, UK

Learning Resources for Teaching Translation Skills..................................415
Dr. Ciarán Dawson, University College Cork, Ireland

Multimedia Sequence Builder - A DVD Component from the Open University Course 'Understanding Media'.................................................417
Jim Ellis, The Open University, UK

Post-Graduate Programme in Hydrodynamics..........................................418
Dr. Zelalem Hailu Gebrchirstos, Addis Ababa University, Ethiopia

MOSEP e-portfolio Course......................................................................419
Wolf Hilzensauer, Salzburg Research Forschungsgesellschaft m.b.H., Austria

Intelligent Library and Tutoring System...................................................424
Prof. Arturas Kaklauskas, Vilnius Gediminas Technical University, Lithuania

Everyday English....................................................................................428
Cristina Larriba, IBM, Spain

Applied Optics.......................................................................................430
Dr. António Maneira, P.A. Ribeiro & M.J.P. Maneira, New University of Lisbon, Portugal
Virtual Training Centers of the I*Teach Project
Dr. Malgorzata Miranowicz & Andrzej Burewicz, Adam Mickiewicz University, Poland; Gabriella Dodero, Free University of Bozen-Bolzano, Italy; Eliza Stefanova & Desislava Ratcheva, University of Sofia, Bulgaria

A Sustainable Development Simulation by a Business School
Martin Rodriguez, Instituto de Empresa Business School, Spain

MUMIE/TUMULT: Multimedia in Tutorials for the Engineering Sciences
Dr. Katherine Roegner & Prof. Ruedi Seiler, TU Berlin, Germany

Self-Study Online Modules Created in the University of Freiburg
Martina Straub, University Library of Freiburg, Germany

English B2
Sylwia Twardo, Warsaw University, Poland

Demonstration Sessions

eLene Online Teacher Training Centre
Spyros Abatielos, University of Bremen, Germany

E-Learning Guide and Diagnostic Tool for SMEs
Pascal Balancier, AWT (Walloon Telecommunications Agency), Belgium

Gym2Learn - A Metacognitive Tool for Web Learning
Dr. Giuseppe Chiazzese, Gianluca Merlo, Luciano Seta, Simona Ottaviano, Antonella Chifari, Mario Allegra & Giovanni Todaro, Institute for Educational Technology - Italian National Research Council, Italy

MathsAid - An Interactive Learning Tool for Training Numeracy Skills
Anna Nes Gustavsen, Vox - National Institute for Adult Learning, Norway

The UAM Web-Based Online Extension System
Dr. Edwin Idu, University of Agriculture, Nigeria

'WebTourCreator' for E-Learning in Schools, Universities & Corporations
Prof. Thomas Laukamm, Consulting Trust Xtend new media GmbH & FOM University of Applied Sciences, Germany

CNS: Visual Perspectives
Dr. Italo Masiello, Thomas Nixon, Anna Josephson, Karolinska Institute, Sweden; Camillan Huang, Brian Tobin & Thomas R. Clandinin, Stanford University, USA

mobGAS©: Knowing Your Contribution to Climate Change
Tiago Pedrosa & Ângela Guimarães Pereira, Joint Research Centre, European Commission, Italy

SURFgroepen, Online Collaboration Service
Andres Steijaert, SURFnet, The Netherlands
International Forum on E-Learning for Defence and Security

The Role of the Internet as Extremist Indoctrination & Propaganda
Mahan Abedin, Centre for the Study of Terrorism, UK

DataBase Driven Information Security Risk Management & Incident Response Team Collaboration Framework
Linda Alnaqeep & Salahideen Alhaj, Arab Academy for Banking and Financial Sciences (AABFS), Jordan

The European Virtual Academy for Civil Protection (EVA4CP)
Onno Reiners, bit media e-Learning solution GmbH, Germany

Citizens’ Security Education Based on E-Learning Technology
Prof. Dr. Ion Roceanu & Ass. Prof. Doina Muresan, National Defence University, Romania

Project POLIZEI-ONLINE/MEPA-ONLINE - A Model for Co-operation Between Police in Europe
Uwe Seidel, Ministry of the Interior Baden-Württemberg - State Police Headquarters, Germany

CBT in Support of Critical Decision Making Processes in Aviation Security
Ilan Paul Weinmann, ICTS Europe Holding B.V., The Netherlands

Tele-Lab IT-Security: Practical Online Security Training in a Virtual Lab
Christian Willems & Christoph Meinel, Hasso-Plattner-Institut for IT Systems Engineering, Germany
E-Learning and Knowledge Management:
How to Reconcile Coherence and Variety of Solutions, Efficiency and Reactivity?

Eric de Dreuzy, Director eLearning, Air France, France

To support employee skills development and Company projects, Air France provided more than 2.5 million training hours and spent almost 200 million Euros on training in 2006. The AF training plan must include 50% part of mandatory training.

A number of important issues explain the high levels of annual investment (8.7% of total wages devoted to training) to maintain the qualifications required by the competition in all transport sectors: for example, flight safety, aircraft fleet development, IT evolutions, as well as internal changes in organization.

The Air France-KLM Group was created in 2004 and has more than 103,000 employees throughout the world. The Group is the world leader in terms of international passenger traffic. Its priority is to draw on existing synergies between Air France and KLM. This leads to important training efforts.

Like most leading airlines, Air France implemented new technologies in training early on to ensure maximum efficiency and reduce costs. Historically, the introduction of distance learning was started by the massive worldwide deployments and upgrades of new IT applications. A very simple question then arose: how do you simultaneously train thousands of people, not only in France, but in 180 destinations throughout the world, prior to implementations. The Learning Management System has been used as a change management tool, and provides an effective method for tracking of learning during ramp-up prior to software roll-out.

In addition to these "top-down" actions, new training opportunities were offered to employees through self-training formulas, and they were successful very quickly. The benefits most valued were the "just-in-time", the "just-enough" training, as well as the assistance of a dedicated team of local or distance tutors. Among the key factors, which have won the support of employees was the capability to enable diagnosis of needs, and adaptive delivery of tailored contents.

Since that period, starting in the late 90s, e-learning was mostly limited to the IT field for a long time, before becoming mainstream in all sectors of the business today. The reasons for this slower than expected growth are found in the feedback of most of large French corporations: the technological limitations are still important (bandwidth, complexity, sometimes the gap between the tool provided by the market and needs), but the most important are cultural: new reflexes to acquire, rigidities due to legal issues, lack of management involvement, and so on.

Today, dozens of e-learning projects are currently under development in all Air France divisions: commercial, inflight and ground services, engineering and maintenance, flight academy, HR and finance, IT, etc.

New issues are emerging, whose common feature is, through a corporate organization, to integrate e-learning and knowledge management into business processes.

For leading companies, the main challenge might be the ability to build and bring to life a learning and knowledge acquisition system reconciling five requirements:

1) Highly flexible solutions to adapt to a wide variety of needs. The context of working and learning for a pilot, an engineer, an airport employee, or an executive are very different. The diversity comes too from the geographical separation of learners in the world: culture, learning habits, HR status... Also there are different behaviors according to age, depending on whether they are "next-gen" or "silver employees"...

Fortunately, using a LCMS offers some solutions: the identification of the learner's
E-Learning in the Corporate and Company Context

Meeting the Needs, A Company is Preparing for Virtual Teamwork

Dr. Marion Bruhn-Suhr, University of Hamburg, Germany

Summary
A fast growing company in the pharmacy sector with a couple of new subsidiary companies is in need for the efficient use of an in-house platform. In co-operation with the central institution for university continuing education of Hamburg University (Arbeitsstelle für wissenschaftliche Weiterbildung - AWW) a three and a half weeks course to train the employees was designed. The outcomes are discussed and results conclusions of the first presentation of the course are given followed by a series of recommendations for follow-up projects.

Introduction
A fast growing company in the pharmacy sector with a couple of new subsidiary companies had introduced an intranet platform to provide the necessary facilities for working in virtual teams. They had been using email and face to face meetings widely for their communications as long as there was only one location. The situation of a joint filing system was not satisfactory and became even more difficult with external subsidiaries not only because of security issues.

The management had observed that hardly anybody used the platform and teamwork was only realised among those who had known each other before and then mostly face to face. There were complaints about poor contributions by the new colleagues from the subsidiaries.

In this situation the centre for continuing university education and distance learning of Hamburg University (AWW) was asked to develop and run an e-learning course on virtual teamwork on the in-house platform.

The course "Virtual Teamwork"
The course concept was based on one of the modules in the blended learning programme OLIM (Online Learning in Management), a professional management programme for postgraduates. It was adapted to the specific needs of the company given the following agreed learning targets:

Participants should
- recognise the value added of (virtual) teamwork in connection with processes of development, agreements and decisions.
- experience that working in virtual teams is possible and can be advantageous in comparison with face to face collaboration
- learn to use their platform as a tool to put virtual teamwork into practice
- can sensibly use the communication tools like email and forum discussions via their platform
- learn basic needs and concepts for a joint filing-system for their e-documents
- learn about do’s and don’ts of successful virtual teamwork and e-communication
- learn how to recognise upcoming difficulties and how to meet these challenges

The overall workload for participants was calculated to be 15-20 hours.
Rethinking University Learning Environments and Methods

Prof. Bodil Ask, University of Agder, UiA & Harald Haugen, Stord/Haugesund University College, Norway

New situation
Well established universities around the world have their traditions and ideals, aiming for academic reputation and research based education. Lectures, textbooks, demonstrations and group sessions have always been core essentials of the learning environment. During the last decades there have been growing demands for higher education to perform more complex work and manage everyday situations. Industry, businesses and public administration demand higher knowledge and skills for their employees. Some decades ago professional skills and knowledge were assumed to last for a lifetime with only minor updating and renewal. Today the changes in society, new professions, new technologies etc, require new skills - in short, there is a huge demand for lifelong learning, and it is expected that universities can change or convert their studies to meet these expectations.

In this situation the universities have difficulties in coping with growing student masses and rapidly changing curricula and new content demands. Campus facilities are not made to cater for the large student masses - and perhaps most important: Lifelong students can not remain campus students all the time; they have work, families and other commitments to meet, thus more flexible arrangements are needed.

Recognition of competence
The labour markets as well as the student society are developing towards globalisation. Enterprises and institutions frequently employ workforce from other countries, and students are roaming between institutions and across borders. Exams, credits, certificates and competences are not always recognised abroad. The Bologna Declaration outlines a process to create a European Higher Education Area, EHEA, by 2010. An overall goal here is the recognition of competence through a common academic system, including a credit transfer system (ECTS) and an accepted quality assurance system. This will facilitate mobility of both students and workforce, and also ensure transparency and level of skills and qualifications.

Modernising learning environments
ICT is assumed to have a high potential in educational settings. So far it has not quite met its expectation in higher education, despite political initiatives and large investments. Conservative academics, rigid organisations, laws, regulations and fear of loosing control are all factors mentioned to explain the slow process of modernisation.

The online learning environment, based on ICT for communication between students, tutors and professors, turns out to be a major challenge to well established academic staff. Learning material that includes online lectures, videos, websites, printed material etc. seems scary, and at first sight, less personal. But this offers a flexible solution for students, particularly in lifelong learning settings. It may also be a more flexible situation for tutors and professors, not being bound to a particular location at fixed hours. But it often requires more structure, planning and development of material well in advance. Universities may benefit by offering net based and distant learning, especially where the number of students increases beyond campus capacities. The focus of investments may be shifted from new buildings and expansion of auditoriums to improved infrastructure, updating of key personnel and time for staff to develop and improve new learning environments.
"Imagination is the beginning of creation."
George Bernard Shaw

"The best way to predict the future is to invent it."
Alan C. Kay Fellow at Apple Computer Inc

Why Learning Futures
In the early 21st Century, we have opportunities and responsibilities that no other educators
have had before now. Within the complex changes occurring in Higher Education (HE)
emerging from knowledge-technology-society transformations of the early 21st Century, we
need to create viable and preferred futures for learning. In 1900, there were 500,000 students
in HE worldwide. Now there are 100,000,000. Universities have become highly competitive and
driven by technological possibilities. Learning technology is a way of reaching such vastly
increased numbers without loss of quality.
Technology has become one of the most important features of the national and international
economic, social and cultural landscape - and somewhat of a battlefield for beliefs, research and
practical actions. Outcomes must now include commentary and modelling of the student
learning experience, change in educational institutions and the future for learning and
technologies.

The hype around e-learning, dominant at the turn of Millennium, resulted in many mistakes
being made. Some were failures of investment in big consortia and huge project but there were
many more small disappointments that happened quietly and painfully inside institutions. Now
managers and teachers are desperately searching for structured ways forward that are
affordable, worthwhile and impact directly on student learning. However, universities change
slowly for a variety of historical reasons and mistakes cannot be easily rectified. New, effective
and fast models of change are needed!
The physical environment of our universities includes the means to research, the archives of
past learning and the presentation of new knowledge, the resources for learning and living, the
people and the (for many) unparalleled and pervasive 'atmosphere' of scholarship. The first
kinds of off-campus were field trips, clinical practice, gallery visits. However...'online' is a
learning environment too. The scope, depth and breadth of possibilities have grown
exponentially over two decades. Millions of people experience electronic networked
environments as communities and as libraries, each providing access to untold riches for
knowledge generation and sharing. The online space is less organized or controlled compared to
the physical academy. Time works differently. Interdisciplinarity is the norm not the exception.
Contributions are scrutinized for their usefulness rather than the status of their author.
Hierarchies are less obvious. The importance of personal identity (and the associated potential
for discrimination) is more complex, often with different constructs in different contexts.
Ownership is based less on monetary benefactors and more on commitment and knowledge.
One way communications media such as radio and TV have been swamped by interactive and
participative approaches - the creative, collaborative, communicate Web 2.0 take the stage! Web
3.0 is waiting in the wings. We have to put more effort into design for successful learning as a
result.

It's difficult to get a holistic picture of our present... even harder to get a realistic or plausible
vision of our future. Adoption of Web 2.0 technologies by learners in their everyday lives has
already outstripped understanding of appropriate pedagogical and systems approaches in our
universities.
Help Me! Online Learner Support Through the Self-Organised Allocation of Peer Tutors

Dr. Wim Westera & Leo Wagemans, Open University of the Netherlands, The Netherlands

The natural need for teacher support
This contribution is about a self-organised social networking mechanism to arrange instant online coaching by peers. The availability of instant support for learners who got stuck in their learning activities is an important determinant of study success. In online learning contexts, however, frequent one-to-one communication with students strongly raises the workloads of tutors and teachers. Through the internet connection students, indeed, expect instant support when they experience any problems with their learning tasks. Also, the diversity of the calls for help increases dramatically because of highly individualised learning routes and different paces of learning, which are advocated as the distinguishing features of online delivery. Contemporary constructivist pedagogies, which suggest complex, open learning tasks, seem to worsen things, because they require intensive, tailored tutoring rather than standardised support. Simply appointing more tutors would make online education unaffordable; limiting the amount of support would inevitable harm the quality and effectivity of online learning. In practice, online students cannot always be given the required support at the right volume and at the right time. While students may be working energetically on their study assignments and the associated learning materials, they may run up against a problem that needs to be solved first to be able to proceed. Naturally, students will try to figure it out themselves (which can be very informative as such), but after a while a remote teacher will be necessary to provide support in order to avoid pointless wasting of time. Indeed, the permanent availability of some service which preserves the effectivity of learning, is the essence of education.

Exploiting the (invisible) community of fellow-learners
The consultation of peers may be an interesting alternative. Even when online learning may incorporate some group work or communities of learners, the common notion of student cohorts is not necessarily preserved, which positions online learning as a quite solitary, individualised mode of learning; peer groups and peer consultation are not self-evident. Although a synchronised cohort of learners not always exists in online education, there may be many students working at the same domain or module, who are possibly not aware of each other and may not know each other. They may follow different learning routes, have different learning objectives and study at different paces and times. This invisible community of fellow learners, however, engage in the same subject matter and share the same interests and the same problems. It yields the social and intellectual force to provide peer tutoring as a powerful means to address the ever-growing need for support. Importantly, peer support is not just a sly trick of shifting the teachers’ workloads to the students: indeed, various researchers report that peer tutoring often is found to produce higher learning outcomes (Fantuzzo 1989; Gyanani 1995; King 1998; Wong 2003) and to have positive effects on motivation, reflection, self-esteem and commitment (Fantuzzo 1989; Anderson 2000). By exploiting the (invisible) community in a convenient way, peer tutoring can be applied to preserve appropriate and affordable online tutoring services within a population of students. To this end, a self-organised peer-coaching mechanism has been developed to deal with individual calls for support by allocating the most appropriate fellow students for providing support.

The intelligent allocation of peers
We consider a population of students that are individually working on a number of domain tasks (learning modules, assignments, domain nodes or learning units) that make up the curriculum. It is assumed that individual learning routes and progress of students are logged by the system, that is, each time a student completes a learning module and starts with a new one the learner positioning data are updated. When a student of the population calls for support, the allocation mechanism uses the learner positioning data to select the most appropriate peer tutor...
Enabling Teachers in Higher Education to Develop Their Own Simulations: The Virtual City of Cyberdam

Pieter van der Hijden, Foundation LawOnline (Stichting RechtenOnline) & Sofos Consultancy, The Netherlands

Welcome to Cyberdam
Welcome to Cyberdam, the Dutch virtual city with its history of 12 centuries, its old city centre, its variety of old and new neighbourhoods, its industrial area’s, inland harbour and its surroundings with their interesting social and economic potentials. This city is populated with about one hundred firms, institutions, government agencies and households.

Figure 1: The interactive city map of Cyberdam.

Teachers and lecturers from different disciplines send their students to the virtual city of Cyberdam. There the roles of burgomaster, shopkeeper, nurse, lawyer, or one of the other inhabitants are allocated to them. They receive a briefing on the goal they have to reach, and then it's is up to them to proceed. Via their Internet browser they have access to their "dashboard" where they can read their instructions and send and receive messages to and from other roles. These other roles are played by their peers, maybe by their teacher or even by an external expert. As the game session proceeds, the instructions may change. The game session