PROGRAMME

Wednesday, 28 April 2004

17.00 Registration + Ice Breaker

Thursday, 29 April 2004

09.30 – 10.30 Opening session, Keynote address
“The Use of Geographic Information Systems in Supporting Major Cultural and Sporting Events”
Prof. Constantinos Cartalis
Dept. of Applied Physics, University of Athens;
Former General Secretary for the Olympic Games 2004, Ministry of Culture

10.30 – 11.00 Coffee Break

11.00 - 12.45: PARALLEL SESSION - 1

1.1- Spatial Data Infrastructure I
1. Assessing the Impacts of Spatial Data Infrastructures: Methods and Gaps
M. Craglia & A. Johnston
University of Sheffield, Sheffield, UK

2. Harmonized Access to Heterogeneous Content: Towards a European SDI
A. Kap1, B. van Loenen1 & M. de Vries2
1Geo Information and Land Development; 2GIS Technology, OTB Research Institute for Housing, Urban and Mobility Studies, Delft University of Technology, Delft, The Netherlands

3. Towards the Implementation of the European Spatial Data Infrastructure. Getting the Process Right
L. Bernard, A. Annoni, Y. Kanellopoulos & P. Smits
Joint Research Centre, Institute for Environment & Sustainability, Ispra, Italy

4. From the GIS to the SDI: a Design Path
M. Salvemini
LABSITA, University of Rome “La Sapienza”, Rome, Italy

5. Quo Vadis Sdi?
A. Wytzisk1 & A. Sliwinski2
1Dept of Geo-information Processing, International Institute for Geo-Information Science & Earth Observation (ITC) Enschede, The Netherlands; 2Institute for Geoinformatics, University of Münster, Germany

1.2- Decision Support Systems/Risk Management I

1. An Interdisciplinary SDSS for Planning and Controlling in River Management –FLUMAGIS
J. Moeltgen2, G. Schmidt3, O. Gretzschel2, M. May1, R. Borchert4, C. Böhn4, J. Hirschfeld2 & R. Pöpper5
1Institute for Geoinformatics, University of Münster, Münster, Germany; 2UFZ-Umweltforschungszentrum Leipzig-Halle GmbH, Leipzig, Germany; 3University of Applied Science, Labor für Wasserbau und Wasserwirtschaft, Münster, Germany; 4Institute for Landscape Ecology, University of Münster, Münster, Germany; 5Institute for Ecological Economy Research, Berlin, Germany

2. ANFAS: a Decision Support System for Simulating River Floods
P. Prastacos1 & V. Prinet2
1Regional Analysis Division, Institute of Applied and Computational Mathematics, Foundation for Research and Technology-Hellas, Heraklion, Greece; 2Institute of Automation, Chinese Academy of Sciences, Beijing, P.R. China

3. Towards a Generic GIS for Dike Management in Flood Plain Areas: from Conceptual Design to Real Applications
P. Maurel1, D. Serre2 & R. Tourment2
1Maison de la Télédétection, UMR 3S Cemagref/ENGREF, Montpellier, France; 2UR OIAx, Cemagref, Le Tholonet, Aix-en-Provence, France
4. Preliminary Earthquake Risk Management Strategy Plan of Eskisehir, Turkey by Using GIS
M. Altan, F. Özturk & C. Ayday
Space and Satellite Sciences Research Institute, Anadolu University, Eskisehir, Turkey

5. Moving Digital Earth for Disasters Management
V. Klenov
Education Center 654, Moscow, Russia

12.45 – 14.30 Lunch Break

14.00 – 14.30 Meeting AGILE Council & Working Group Chairs

14.30 - 15.30: PARALLEL SESSION - 2

2.1- Spatial Data Infrastructure II

1. Integrating Knowledge Bases into SDI's
I. Simonis
Institute for Geoinformatics, University of Münster, Münster, Germany

2. Enhancing Spatial Data Infrastructures by Semantic Web Technologies
T. Vögele & R. Spittel
Center for Computing Technologies (TZI), University of Bremen, Germany

3. Realization of Component-Based GIS Application Framework
L. Stoimenov, A. Stanimirović & S. Djordjević-Kajan
CG&GIS Lab, Department of Computer Science, Faculty of Electronic Engineering, University of Niš, Serbia and Montenegro

2.2- Urban Modelling I

1. Transition Rules for Modelling Land-Use Change
M. Hagoort & S. Geertman
Urban Research Centre Utrecht/Networks in the Delta Programme, Faculty of GeoSciences, Utrecht University, The Netherlands

2. 3D-GIS and Urban Volume: Applying the Third Dimension in a Morphological Study of the Amsterdam Urban Landscape
E. Koomen, R. Kaufholz, P. Rietveld & H. Scholten
Vrije Universiteit Amsterdam, Amsterdam, The Netherlands

2.3- Education

1. Training Offers in Geographic Information. Methodological References as Preliminary Requisite in a Quality-Control Approach
P. Bazile
ENGREF – Joint Research Unit “Spatial Structures and Systems”, Maison de la Teledetection, Montpellier, France

2. Problem Based Learning in Geoinformation: Approach, Examples, Experience
A. Car
School of Geoinformation, Carinthian Tech Institute – University of Applied Sciences, Villach, Austria

15.30 – 16.30: POSTER SESSION

Poster Opening Session

1. An Incremental Geographic Update System (IGUS) for a Large Geographic Database in New York City
J. Ding¹, S. Ahearn¹ & E. Cooper²
¹CARSI Hunter College, New York, USA; ²Terraprise Inc., New Orleans, USA

2. A Methodological Approach to the Development of Applications in a SDI Environment
P. Carrara³, L. Fortunati³, G. Fresta³, M. Gomarasca³, L. Piazza Bonati³ & D. Poggioli³
¹ISTI-CNR, Pisa, Italy; ²REA-CNR, Milano, Italy

3. An Interoperable Geodata Infrastructure for Precision Agriculture
P. Korduan¹, R. Bill² & S. Bölling²
¹Institute for Geodesy & Geoinformatics, University of Rostock, Germany; ²Department of Geography, Humboldt University Berlin, Germany

4. Unifying Databases: Experiments with a Hydrographic Database
S. Mustière¹, A. Cleach² & J. Fort²
¹Institut Géographique National, COGIT Laboratory, Saint-Mandé, France; ²Ecole Navale IRENAV, Lanvéoc-Poulmic, France
5. GIS, Visualization and Spatial Analysis for Major Hazards in Europe  
R. Peckham  
European Commission, Joint Research Centre, Ispra, Italy

6. Rule-Based or Explicit Storage of Topology Structure: a Comparison Case Study  
M. Baars, J. Stoter, P. van Oosterom & E. Verbree  
TU Delft, Delft, The Netherlands

7. Measurement-Based GIS Revisited  
G. Navratil, M. Franz & E. Pontikakis  
Institute for Geoinformation, Technical University, Vienna, Austria

8. Geo Web Services: an NSDI-Embedded Approach  
C. Najar1, C. Giger1, F. Golay2, C. Moreni2 & M. Riedo2  
1Institute for Geodesy & Photogrammetry – Swiss Institute of Technology Zurich (ETHZ), Zurich, Switzerland; 2GIS Research Laboratory (LaSIG) – Swiss Institute of Technology Lausanne (EPFL), Lausanne, Switzerland

9. Towards Competencies for the MSc Curriculum Geo-Information Science  
F. I. Rip & G. F. Epema  
Wageningen University and Research Center, Wageningen, The Netherlands

10. Geodata – are they Accessible and Useful?  
M. Čeh1, D. Smole1 & T. Podobnikar2  
1Faculty of Civil and Geodetic Engineering, University of Ljubljana, Ljubljana, Slovenia; 2DFG CONSULTING, d.o.o., Scientific Research Centre of the Slovenian Academy of Sciences and Arts, Ljubljana, Slovenia; 3Institute of Anthropological and Spatial Studies at Scientific Research Centre of the Slovenian Academy of Sciences and Arts, Ljubljana, Slovenia

11. ACE GIS Project Overview: Adaptable and Composable E-commerce and Geographic Information Services  
J. Poveda, M. Gould & C. Granell  
Departamento de Lenguajes y Sistemas Informáticos, Universitat Jaume I, Castellón, Spain

12. The Use of Fuzzy Evaluation in a GIS Approach to the Land Suitability  
G. Las Casas & B. Murgante  
DAPIT, Università degli Studi della Basilicata, Potenza, Italia

13. Interoperable Services for Web-Based Spatial Decision Support  
N. Ostländer  
Institute for Geoinformatics, University of Münster, Münster, Germany

A. Morf & P. Staub  
Institute of Geodesy and Photogrammetry, Swiss Federal Institute of Technology, Zurich, Switzerland

15. Use of a Web-Based GIS for Real-Time Traffic Information Fusion and Presentation over the Internet  
D. Kotzinos1 & P. Prastacos2  
1Department of Computer Science, University of Crete, Heraklion, Greece; 2Regional Analysis Division, Institute of Applied and Computational Mathematics, Foundation for Research and Technology – Hellas, Heraklion, Greece

16. I-Flora, Interactive, Location Based Determination of Flowers in Dutch Landscape  
A. Ligtenberg, J. Wang, W. Vullings & J. Bulens  
Centre for Geo-Information, Wageningen, The Netherlands

17. Web Mapping and XML Technologies “A Close Relationship”  
M. Spanaki, B. Antoniou & L. Tsoulos  
Cartography Laboratory, National Technical University of Athens, Greece

16.30 – 17.00 Coffee Break

17.00 - 18.30: PARALLEL SESSION - 3

3.1- SEMANTICS I

1. “Where the City Sits?” Revealing Geospatial Semantics in Text Descriptions  
E. Tomai & M. Kavouras  
Cartography Laboratory, National Technical University of Athens, Athens, Greece

2. Tales of The River Bank, First Thoughts in the Development of A Topographic Ontology  
G. Hart1, S. Temple1 & H. Mizen1,2  
1Ordnance Survey of Great Britain, Southampton, Hampshire, England; 2University of Plymouth, Drake Circus, Plymouth, England
3. An Architecture for Ontology-Based Discovery and Retrieval of Geographic Information
E. Klien¹, U. Einspanier¹, M. Lutz¹ & S. Hübner²
¹Institute for Geoinformatics (IfGI), University of Münster, Germany; ²Intelligent Systems Group, University of Bremen, Germany

4. Elements of a Computational Theory of Location
W. Kuhn
Institute for Geoinformatics, University of Münster, Germany

5. Ontology-Driven Wrappers for Navigation Services
D. Redbrake & M. Raubal
Institute for Geoinformatics, University of Münster, Germany

3.2- VISUALISATION

1. Dynamic Aggregation on Grids for Interactive Analysis of Multidimensional Spatial Information
G. Andrienko, N. Andrienko, & I. Denisovich
Fraunhofer Ais - Autonomous Intelligent Systems Institute, Sankt-Augustin, Germany

2. A Visualization of a Hierarchical Structure in Geographic Metadata
U. Demšar
Institute of Infrastructure, Royal Institute of Technology, Stockholm, Sweden

3. Annotation of Features in Outdoor Augmented Reality Environments
M. Rubio¹, R. Quirós², E. Pulido², G. Fabregat² & J. Huerta²
¹Universidad de Oriente Santiago, Cuba; ²Universitat Jaume I, Castellón, Spain

4. A VRML Terrain Visualization Approach
A. Triantafyllos¹, D. Anagnostopoulos² & C. Chalkias²
¹Dept. of Informatics, University of Athens, Greece; ²Dept. of Geography, Harokopiou University of Athens, Greece

5. Representing Semantic Similarity of Socioeconomic Units with Cartographic Spatialization Metaphors
A. Darra, M. Kavouras & E. Tomai
School of Rural & Surveying Engineering, National Technical University of Athens, Greece

3.3- DATABASE TECHNOLOGY

1. Structuring, Indexing, Querying and Visualizing Moving Objects in A DBMS
M. Baars, P. van Oosterom, E. Verbree & B. Gorte
TU Delft, Delft, The Netherlands

2. Real-Time Spatiotemporal Data Indexing Structure
G. Noël, S. Servigne & R. Laurini
Liris, INSA-Lyon, Villeurbanne, France

3. Management of Multiple Representations in Spatial DBMSs
S. Zlatanova, J.E. Stoter & W. Quak
Section GIS technology, Delft University of Technology, Delft, The Netherlands

J. Poveda & M. Gould
Departamento de Lenguajes y Sistemas Informáticos, Universitat Jaume I, Castellón, Spain

5. How to Design Geographic Databases? Specific UML Profile and Spatial OCL Applied to Wireless Ad Hoc Networks
M.-A. Kang¹, F. Pinet², M. Schneider¹, J.-P. Chanet² & F. Vigier²
¹Laboratory of Computer Science, Modelling and System Optimisation (LIMOS), ISIMA / Clermont Ferrand University, France; ²Cemagref Clermont Ferrand, France

18.30 - 19.30 : Working Groups session
Environmental Modelling
Urban Modelling
Data Usability
4.1- Geographic Knowledge Discovery

1. The Self-Organizing Map and it’s Variants as Tools for Geodemographical Data Analysis: the Case of Lisbon’s Metropolitan Area
   V. Lobo¹,², F. Bação¹, M. Painho¹
   ¹ISEGI – UNL, Lisbon, Portugal; ²Portuguese Naval Academy, Lisbon, Portugal

2. Modelling Urban Dynamics with Cellular Automata: A Model of the City of Heraklion
   I. Blecic¹, A. Cecchini², P. Prastacos³, G. A. Trunfio⁴ & E. Verigos⁵
   ¹Dept. of Planning - Faculty of Urban Planning, Università IUAV di Venezia, Venezia, Italy; ²Dept. of Architecture and Urban Planning, University of Sassari - Faculty of Architecture, Sassari, Italy; ³Institute of Applied and Computational Mathematics, Regional Analysis Division, Foundation for Research and Technology-Hellas, Heraklion, Greece; ⁴Dept. of Mathematics, University of Calabria Cosenza, Italy; ⁵Interdepartmental Center for Dynamic Interactions Between Economy, Environment and Society, University Ca’Foscari, Venezia, Venezia, Italy

3. AI-Based Geo-Webservices for Data Consistency Check: Experiences within the EU Project GIMMI
   P. Di Donato
   LABSITA, University of Rome “La Sapienza”, Rome, Italy

4.2- Spatial Data Infrastructure III

1. Incremental Composition of Geographic Web Services: an Emergency Management Context
   C. Granell, J. Poveda & M. Gould
   Department of Information Systems (LSI), Universitat Jaume I, Castellón, Spain

2. Integration of Human Services into Technical GI Service Chains
   C. Brox & K. Janowicz
   Institute for Geoinformatics, University of Münster, Germany

3. A Prototype Cross-Border GML Data Service
   L. Lehto¹, T. Sarjakoski¹, A. Hvas², P. Hollander³, R. Ruotsalainen⁴ & A. Illert⁵
   ¹Finnish Geodetic Institute, Masala, Finland; ²National Survey and Cadastre, Copenhagen, Denmark; ³National Land Survey of Sweden, Gävle, Sweden; ⁴National Land Survey of Finland, Helsinki, Finland; ⁵Federal Agency for Cartography and Geodesy Frankfurt, Germany

4. A Controlled Access to Spatial Data on Web
   E. Bertino & M. L. Damiani
   Dipartimento di Informatica e Comunicazione, Universita’ degli Studi di Milano, Milano, Italy

5. Automatic Metadata Extraction from Geographic Information
   M.A. Manso¹, J. Nogueras-Isío², M.A. Bernabé¹ & F.J. Zarazaga-Soria³
   ¹Department of Topography & Cartographic Engineering, Polytechnic University of Madrid, Madrid, Spain; ²Department of Computer Science & Systems Engineering, University of Zaragoza, Zaragoza, Spain

4.3- Environmental / Social Modelling

1. Application of the DPSIR Model to the Sado Estuary in a GIS Context – Social and Economical Pressures
   S. Caeiro¹, I. Mourão², M. H. Costa², M. Painho³, T. B. Ramos³ & S. Sousa³
   ¹IMAR, Department of Exact Sciences and Technologies of the Portuguese Distance Learning University, Lisboa, Portugal; ²IMAR, Department of Environmental Sciences and Engineering, of the New University of Lisbon (UNL), Caparica, Portugal; ³ISEGI/CEGI, Institute for Statistics and Information Management of the UNL, Lisboa, Portugal; ⁴FCMA, Faculty of Sea and Environmental Sciences, University of Algarve, Faro, Portugal

2. Urban Mobility of Elder People. GPS and GIS for Collecting and Analysing Space-Time Information on Mobility
   M. Boffi, M. d’Ovidio, C. Tornaghi & E. Natoli
   Università degli Studi di Milano-Bicocca, Milano, Italy

3. Exploratory Spatial Data Analysis and Spatial Econometric Modelling for the Study of Regional Productivity Differentials in European Union, From 1975 To 2000
   Y. Kamarianakis¹ & J. Le Gallo²
   ¹Regional Analysis Division, Institute of Applied & Computational Mathematics, Foundation for Research & Technology-Hellas, Heraklion, Greece; ²IERSO-University Montesquieu-Bordeaux IV, Bordeaux, France

10.30 – 11.00 Coffee Break
11.00 - 11.45 Keynote address
“Possible Contributions of GIS to the Design of the European Sustainable Development Strategy”
Dr. Daniel Deybe

11.45 - 12.45: PARALLEL SESSION - 5

5.1- Remote Sensing I

1. The Use of Airborne LiDAR and Aerial Photography in the Estimation of Individual Tree Heights in Forestry
J. C. Suárez¹, C. Ontiveros¹, S. Smith² & S. Snape³
¹Silviculture North, Forest Research & ²Woodland Surveys, Forest Research, Northern Research Station, Roslin, Midlothian, UK; ³Operational Support Unit, Forest Enterprise, Edinburgh, UK

2. Per-Parcel Classification of Ikonos Imagery
J. Wijnant & T. Steenberghen
SADL KUL R&D, Leuven, Belgium

A. V. Zamyatin & N. G. Markov
Tomsk Polytechnic University, Tomsk, Russia

5.2- Urban Modelling II

1. Bivariate Traffic Relations: a Space-Time Modelling Approach
Y. Kamarianakis¹, D. Kotzinos² & P. Prastacos³
¹Regional Analysis Division, Institute of Applied and Computational Mathematics, Foundation for Research and Technology-Hellas, Heraklion, Greece; ²Department of Computer Science, University of Crete, Heraklion, Greece

2. Modelling Perceived Accessibility to Urban Amenities Using Fuzzy Logic, Transportation GIS and Origin-Destination Surveys
M. Thériault & F. Des Rosiers
CRAD, Laval University, Québec, Canada

3. Formal Encoding of a Multi-Modal Trip with the Use of Public Transport- A Passenger’s Perspective
E. Pontikakis
Institute for Geoinformation and Cartography, Technical University of Vienna, Vienna, Austria

"Break event": Demonstration of the shareware environment for urban simulation (OBEUS)
I. Benenson
Department of Geography, Tel-Aviv University, Israel

12.45 – 14.30 Lunch Break

14.30 - 16.00: PARALLEL SESSION - 6

6.1- Semantics II

1. Giving Meaning to GI Web Service Descriptions
F. Probst & M. Lutz
Institute for Geoinformatics (ifgi), University of Münster, Germany

A. Schwering¹ & G. Hart²
¹Ordnance Survey of Great Britain, Southampton, U.K.; ²Institute for Geoinformatics, University of Münster, Münster, Germany

3. Geographic Knowledge Representation Using Conceptual Graphs
A. Karalopoulos, M. Kokla & M. Kavouras
National Technical University of Athens, Greece

4. Link Between the Whole and its Parts in UML Representations of Spatial Aggregations: an Application in the Context of Geographic Databases
F. Pinet¹, M.-A. Kang² & H. Jaudoin³
¹Cemagref Clermont Ferrand, France ²Laboratory of Computer Science, Modelling and System Optimisation (LIMOS), ISIMA / Clermont Ferrand University, France
6.2- Pricing & Geo Marketing

1. Requirements for an Efficient Value Pricing of Geographic Information
   A. Krek
   Salzburg Research Forschungsgesellschaft m.b.H., Salzburg, Austria

2. Toward Perceived Value-Based Pricing of Geographic Information Services
   A. Sliwinski
   Institute for Geoinformatics, University of Münster, Münster, Germany

3. Dual Kernel Density Estimation as a Method for Describing Spatio-Temporal Changes in the Upper Austrian Food Retailing Market
   E. M. Jansenberger & P. Stauffer-Steinnocher
   Department of Economic Geography & Geoinformatics, Vienna University of Economics & Business Administration, Vienna, Austria

4. Prospective Research in the Technological and Mobile Society: New Demand Responsive Transports for New Territories to Serve
   E. Castex, S. Houzet & D. Josselin
   UMR ESPACE 6012, CNRS, Université d'Avignon et des Pays de Vaucluse, Avignon, France

16.00 – 16.30 Coffee Break

16.30 - 17.00 BEST POSTER AWARD

17.00 – 18.00: PARALLEL SESSION - 7

7.1- Remote Sensing II

1. Automated Image-Based Verification of Road Databases
   M. Gerke1, Ch. Heipke1 & A. Busch2
   1IPI - Institute of Photogrammetry & Geoinformation, University of Hannover, Hannover, Germany; 2Bundesamt für Kartographie und Geodäsie, Frankfurt, Germany

2. A Time-Travel Tool for Monitoring Environmental Phenomena by Remote Sensing Techniques
   G. Bordogna1, P. Carrara2, A. Rampini2 & S. Spaccapietra3
   1IDPA-CNR, Dalmine (Bg), Italy; 2IREA-CNR, Milano, Italy; 3Database Lab., Swiss Federal Institute of Technology (EPFL), Lausanne, Switzerland

3. GIS Based Estimation and Mapping of Local Level Daily Irradiation on Inclined Surfaces
   N. Chrysoulakis, M. Diamandakis & P. Prastacos
   Regional Analysis Division, Institute of Applied and Computational Mathematics, Foundation for Research and Technology – Hellas, Heraklion, Greece

7.2- Spatial Data Infrastructures IV

1. National Spatial Information Models
   J. Bulens & W. Vullings
   Alterra, Centre for Geo-Information, Wageningen, The Netherlands

2. An Information Model for Strategic Spatial Policy Documents
   H. Ottens
   Urban and Regional Research Centre Utrecht URU, Faculty of Geosciences, Utrecht University, The Netherlands

3. GIS Implementation at the German Regional Public Administration Level
   V. Emmel & H. Mueller
   Mainz Institute for Spatial Information & Surveying Technology, University of Applied Sciences, Mainz, Germany,

7.3- Decision Support Systems/Risk Management II

1. Strategy to Reduce Subjectivity in Landslide Susceptibility Zonation by GIS in Complex Mountainous Environments
   Y. Thiery1, S. Sterlacchini2, J.-P. Malet1, A. Puissant3, A. Remaître1, O. Maquaire1
   1Institut de Physique du Globe, UMR 7516 ULP/CNRS, Strasbourg, France; 2CNR-IDPA, sezione di Milano, Milano, Italy; 3Image et Ville, UMR 7011 ULP/CNRS, Strasbourg, France

2. Monitoring Coastal Erosion Natural Resilience by Indexing Coastal Dunes State
   E. Valpreda, S. Gragnanelli & M. Rotunno
   ENEA- PROT PREV, Bologna, Italy

3. Comparison of CPT Based Liquefaction Potential and Shear Wave Velocity Maps by Using 3-Dimensional GIS
   M. Tün, U. Aydan, M. Altan & C. Ayday
   Satellite and Space Sciences Research Institute, Anadolu University, Eskisehir, Turkey
SATURDAY, 1 May

09.30 - 10.30: PARALLEL SESSION - 8

8.1- Data Usability
1. How to Increase Usability of Spatial Data by Finding a Link Between User and Data
   M. Jahn & A. U. Frank
   Institute for Geoinformation, Technical University Vienna, Vienna, Austria

2. Design Considerations for Participatory GIS
   P. Jankowski
   Department of Geography, San Diego State University, San Diego, USA

3. Towards Usable Topological Operators at GIS User Interfaces
   C. Riedemann
   Institute for Geoinformatics, University of Münster, Münster, Germany

4. Digital Geographical Data: Potential Evaluation
   V. Talhofer
   Military Land Information Department, Faculty of Military Technology, Military Academy in Brno, Brno, Czech Republic

5. Usage of Spatial Data Stores for Geo-Services
   M. Breunig, W. Bär & A. Thomsen
   University of Vechta, Vechta, Germany

8.2- Decision Support Systems
1. Decision Support for Bicycle Route Planning in Urban Environments
   H. Hochmair
   Cognitive Systems Group, University of Bremen, Bremen, Germany

2. Building a Spatial Microsimulation Decision Support System
   D. Ballas¹, R. Kingston², J. Stillwell³ & J. Jin³
   ¹Department of Geography, University of Sheffield, Sheffield, England; ²School of Planning and Landscape, University of Manchester, Manchester, England; ³School of Geography, University of Leeds, Leeds, England

3. Evaluation of a GIS-Based Design Tool to Support Decision Making Within Collaborative Spatial
   W. Vullings, A. Ligtenberg & J. Bulens
   Centre for Geo-Information, Wageningen, The Netherlands

4. Enhancing Intelligent Buildings’ Performances Throughout a GIS Central Control
   V. Agnolotti & C. Giger
   Institute of Geodesy & Photogrammetry, Swiss Federal Institute of Technology (ETH), Zürich, Switzerland

10.30 – 11.00 Coffee Break

11.00 - 12.00 Panel Session
12.00 - 13.00 AGILE Annual Meeting