Future of GI
AGILE perspective

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Currently 93 members
AGILE Objectives

(i) to provide a permanent European-wide scientific forum where GI academics + researchers can meet and exchange ideas + experiences

(ii) to foster networking within this community and between the community and users of geospatial information

(iii) to ensure that the community’s expertise and views are fully represented in discussions on future European research agendas.

(iv) to encourage + promote academic education + research in Europe on Geographic Information Science and Technology

(v) to establish close cooperation with affiliate organizations and associations at the international level
Promote academic education + research in Europe on GI Science and Technology

- Through participation in EU projects
- Member of Copernicus Academy Network
- Cooperation with Industry (e.g. ESRI)
- AGILE initiatives
Proceedings

• All books were already indexed by ISI Web of Knowledge
AGILE Initiatives 1

• PhD schools
  – School had a mix of activities
  – Writing tutorials
  – Framing research
  – Presentations

• Supporting young scientists
  – Grants for AGILE conferences
  – Grants for students research

Leeds, 2018
AGILE Annual Conferences

• AGILE seeks to ensure that new perspectives on teaching and research in geographic information science are fully represented at each conference to help shape the future European research agenda in this field.
Hot topics
AGILE 2019 in Limassol scope of themes

• Big Spatial Data: Analysis and Visualization
• Volunteered Geographic Information and Community Observatories
• Crowdsourcing, Co-creation and Participatory GIS
• Smart cities
• Earth Observation Systems: Algorithms and Applications
• Data Mining and Knowledge Discovery
• Spatiotemporal Data Acquisition, Modelling, and Analysis
• Uncertainty and Error Propagation
• 3D Modelling, Analysis and Visualization
• Digital Earth, Virtual Globes and Spatial-oriented Augmented Reality
• Location Based Services and Mobile GI Applications
Hot topics

AGILE 2019 in Limassol scope of themes

• Way Finding, Routing and Indoor Navigation
• Cognitive Aspects of Human-Computer Interaction for GIS
• Model Web, Geospatial Workflows and Service Composition
• Geosensors Networks and Sensor Web
• Spatial Data Infrastructures: Data and Service Sharing
• Future Internet, Ubiquitous Web and Geographic Information Systems
• Geodesign
• Environmental/Ecological and Urban/Regional Modelling
• Demographic and Socioeconomic Modelling
• Natural Resources Management and Monitoring
• Disaster and Risk Management
• Socio-Economic Impact Assessment of GI
What is unique in predicting future trends in GISc by the AGILE community

• The community itself
• The common wisdom of members
• AGILE is research oriented
• Multidirectional
• Following ICT trends
• GISc more IT driven than in the past
Educational component

- Strong need for permanent curricula updating
- Tough competition from IT university departments
- Focus on algorithm development skills
- Scientific use of SDI resources – data science
Challenges

• The speed of technological changes
• Learn to cope with changes
  – How to teach
• ICT dominance
• Disruptive innovations
• Social demands (revisiting UN sustainable goals)

Heraclitus of Ephesus
“The Only Thing That Is Constant Is Change -”
Future of GI – AGILE focus

- AI solutions in GI – Geospatial AI
  - Machine learning
  - Algorithms
- Spatial-temporal big data analytics
- Data science – GI sector
- GI in IoT
- Cloud computing
- Mobile technologies
- Crowdsourcing
- GISc education and training
AGILE plans

- Business as usual – well-tried activity model
- Redefining body of GISc knowledge
- Involving „white regions” on the AGILE map
- Closer cooperation with sister organisations