ICA 9th Workshop on Generalisation and Multiple Representation

25 June 2006
Portland, USA

William Mackaness, University of Edinburgh
Anne Ruas, COGIT Laboratory, IGN-France
ICA Commission

• elected for 4 years, during ICA gen. assembly
  – Mackaness & Ruas from August 2003

• Foster research and practical experiences in multi-scale issues and automated generalisation and to form a network for researchers and practitioners
  – Academic, Mapping Agency, GIS producers
Workshop

- Workshop
  - 20-40 people
  - On paper submission, on-line paper, no copyright
  - Prior a GIS conference (prior de ICC every 2 years)
  - Including discussion sessions & restaurant

- Annual
  - 20&21th August 04, Leicester, Prior SDH
  - 7&8th July 05, A Corona, Prior ICC
  - 22th June 06, Portland, Prior Autocarto
  - 3&4th of August 07, Moscow, Prior ICC
Tutorial

• Every 2 years,
  – To keep open the community
  – To help PhD students, beginners, practitioners

• 2005 (A Coruña)
  – Liqiu Meng : Operations and Algorithms
  – Rob Weibel : Modelling the generalisation process
  – W. Mackaness : Spatial Analysis
  – Mustiere/Ruas : LoD & MRDB
  – Ruas : Agent and constraints based approaches
  – Sester : Requirement for new technology and services

• 2007 (Moscow) 5 August 2007
  – Same basis but More place for WGS
Book

• “Automated Mapping: Models and Applications for the generalisation of geographical information”
  – Elsevier, ICA Collection

• ‘Old’ project
  – Started in 99 Ottawa, Slepted for a while, Restarted in 2003
  – Editors: W. Mackaness, Tiina Sarjakoski, A. Ruas

• Strong review process:

• Printed end 2006
Part 1 : Models

- **Understanding Geographic Space**
  - William Mackaness
- **Conceptual Models of Generalisation and Multiple Representation**
  - Tiina Sarjakoski
- **A Synoptic View of Generalisation Operators**
  - Nicolas Regnauld & Robert McMaster
- **Modelling the Overall Process of Generalisation**
  - Lars Harrie & Robert Weibel
- **The role of evaluation in generalisation process**
  - William Mackaness & Anne Ruas
- **Database Requirements for Generalisation and Multiple Representation**
  - Sébastien Mustière & John van Smaalen
Part 2 : Applications

- **The Role of Generalisation in LBS GiMoDig project**
  - Tapani Sarjakoski & L. Tiina Sarjakoski, Finland

- **Experiments to build an open generalisation system**
  - Alistair Edwardes & Dirk Burghart & Moritz Neun, Zurich

- **Data warehouse architectures to support delivery of web based on demand mapping**
  - Eveline Bernier & Yvan Bédard, Laval

- **Relevance of Generalization to Wayfinding Strategies**
  - Monika Sester & Birgit Elias, Hannover

- **3D Building Generalisation**
  - Liqiu Meng & Andrea Forberg, Munich

- **Characterising space via pattern recognition techniques: Identifying patterns in road net..**
  - Frauke Heinzle, Karl-Heinrich Anders, Hannover

- **Generalisation of Geographical Network**
  - Robert Thomson & Ruppert Brooks, Canada

- **Development of A Prototype of Generalisation based on the MAS Paradigm**
  - Anne Ruas & Cécile Duchène, COGIT

- **Managing Map Updates with Generalisation – an IGN- France experience**
  - François Lecordix & Cécile Lemarié, IGN-F

- **Automated generalisation in map production –a KMS Experience**
  - Peter West Nielsen & Marlene Meyer & Marianne Bengtson, KMS- Dnk
Web site

• http://ica.ign.fr
  – Workshop
  – including a digital library
    • Send reference to julien.gaffuri@ign.fr
Today

• 21 people + 2 observers
  – CH, CZ, FR, NL, PL, SP, TR, UK, USA

• 13 presentations
  – Session 1: Semantic Modeling in Map Gen
  – Session 2: WGS
  – Discussion on WGS: harmonization and architecture
  – Session 3: Map Gen Methodology
  – Session 4: Map Gen in Production environment
  – Discussion on needs for production

• 10 minutes presentation – 10 minutes questions / discussion
Special thanks to Omair Chaudhry and to the Autocarto conference organizers