



An introduction to EuroSDR

General Information
August 2004



EuroSDR has **Eighteen** member states



- Member states from Council of Europe

EuroSDR is FIFTY years in existence



50th Anniversary Seminar of Honour



» 50 years of European Spatial Data Research and beyond «

16 October 2003 Munich, Germany



European Spatial Data Research

October 2003

From OEEPE to EuroSDR:
50 years of European Spatial
Data Research and beyond

Seminar of Honour

by Christian Heipke, Risto Kuittinen,
and Günter Nagel (Eds.)

Official Publication Nº 46



From OEEPE to EuroSDR





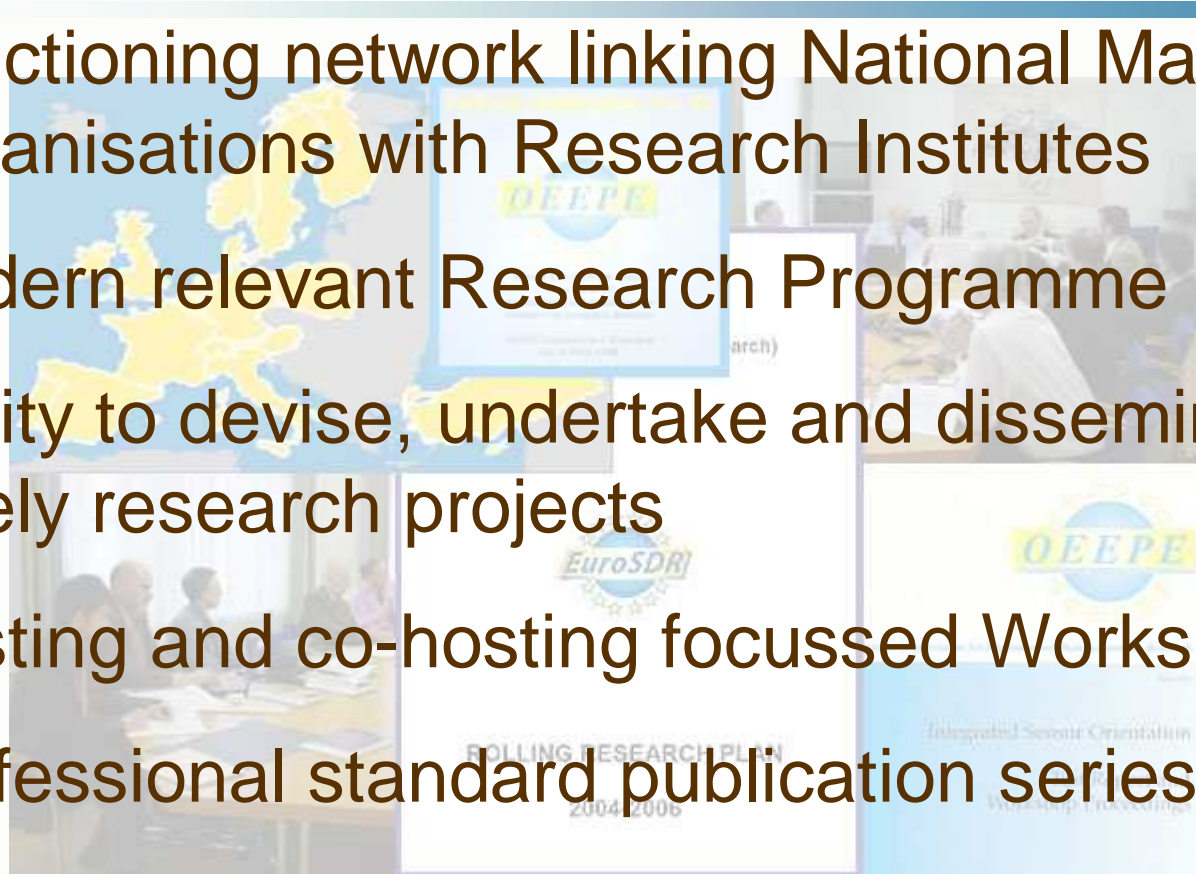
EuroSDR has a permanent Secretariat





EuroSDR has much to offer

- Functioning network linking National Mapping Organisations with Research Institutes
- Modern relevant Research Programme
- Ability to devise, undertake and disseminate timely research projects
- Hosting and co-hosting focussed Workshops
- Professional standard publication series
- Education service




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Workshops

Impacts of improving the positional accuracy of GI databases

Date 5/5/2004-5/7/2004

Location The Grand Hotel, Malahide, Co.Dublin

Organiser EuroSDR Commission 4 and 5, and DIT

Content **The objective of this conference:**

- Collection of information about Positional Accuracy and issues in participating countries and make lesson's learned available to others
- Raising awareness that achieving positional accuracy and integrity of geodata is a major challenge for the whole Geo/Surveying industry in Europe
- Finding common issues and start solving them in a joined-up, rather than an insular (independently for every country) way

Major themes:

- Positional Accuracy issues in every country (overview and lessons learned)
- Accuracy of horizontal (2D) as well as height data
- Impacts on data production (surveying)
- Business benefits of accurate and consistent datasets
- Available Technology (Industry/solution provider and research perspectives)
- Customer perspective (Knock-on-effects on customer's datasets, Communicating changes)

Contact The Secretariat

Website

Registration

Report

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EuroSDR - 2003

- Workshop: 'Visualisation and Rendering'
 - Together with International Cartographic Association
- Project: InterOCI
 - Interoperability for Orientation and Calibration data of photogrammetric Images
- Project: Digital Camera Calibration Procedures
 - Involving an International task force of experts
- Project: Information for mapping from airborne SAR and optical imagery
 - Data Fusion Contest



EuroSDR - 2003

- Project: Automated Extraction, Refinement, and Update of Road Databases
 - from Imagery and Other Data
- Project: Evaluation of building extraction
 - From imagery and laserscanning data
- Project: Test for digital aerial cameras
 - Performance of hardware and software



New Projects in 2004

- Project: Evaluation of DTM Quality
- Project: Automated Change Detection



EuroSDR Workshops in 2004

- Workshop: **Ontologies and Schema Translation Services**

- Jointly with EuroGeographics

- IGN, Marne-la-Vallée, Paris, France

- 15th - 16th April 2004

- [Website: www.laser-scan.com/eurocdr/ontologies](http://www.laser-scan.com/eurocdr/ontologies)



- Workshop: **Impacts of improving the positional accuracy of GI databases**

- Jointly with the Dublin Institute of Technology

- Malahide, Dublin, Ireland

- 5th - 7th May 2004





EuroSDR Workshops in 2004

- Workshop: **Generalisation**
 - Jointly with International Cartographic Association
 - University of Leicester, UK
 - 20th to 21st August 2004





EuroSDR Collaborations

- Collaboration: EuroSpec, see http://www.eurogeographics.org/eng/03_projects_eurospec.asp
 - ‘The requirements for implementing the EuroGeographics core mission (achieve interoperability of mapping and other GI data within 10 years) and the initial steps envisaged by INSPIRE for developing the ESDI (European Spatial Data Infrastructure) converge in recognising the need for common specifications for reference data. This is the challenge that EuroSpec is endeavouring to meet.’
 - Continuing close collaboration between EuroGeographics and EuroSDR
 - Participation in EuroSpec Workshops in 2003/4
 - Joint ‘Ontologies and Schema Translation Services’ Workshop, April 2004
 - Proposed ‘Electronic Delivery and Feature Serving’ Workshop and Survey in 2005
- Collaboration: GMES; INSPIRE; GINIE
 - Collaboration with EuroGeographics; sought with EC; JRC; ESA



Special Session at ISPRS - 2004

- **SS13: From OEEPE to EuroSDR; 50 Years of European Spatial Data Research and Beyond**
 - **The research goals and strategy of EuroSDR**; Martien Molenaar, ITC.
 - **EuroSDR network on digital camera calibration**; Michael Cramer, University of Stuttgart.
 - **The EuroSDR Digital Camera Project**; Hartmut Ziemann, Anhalt University of Applied Sciences, Dessau.
 - **EuroSDR Sensor and Data Fusion Contest: Comparison of the Map Information Content of Airborne SAR and Optical Image Data**; Olaf Hellwich, Technical University Berlin.
 - **EuroSDR Role in EuroSpec development**; Keith Murray, Ordnance Survey, Great Britain.



EuroSDR at ISPRS - 2004

- **Exhibition** stand
 - Jointly with EuroGeographics



- Special Congress edition of **EuroSDR Newsletter**



EuroSDR Education Service

- EduServ-1 (Aalborg, Denmark, November 2002)
- EduServ-2 (Budapest, Hungary, April 2004)
- EduServ-3 Distance eLearning
 - Course E: Co-ordinate Systems and Transformations for Spatial Data
 - Course F: Positional Accuracy Improvement in GI Databases
 - Course G: Building Extraction from LIDAR data
 - Course D: Digital cameras/sensors and data fusion
 - Introductory seminar: The Dublin Institute of Technology, Ireland from 31st March - 1st April 2005

» <http://www.dit.ie/geolearn>



Research Commissions and Focus Areas

- **1. Sensors, Primary data acquisition and Georeferencing**
 - **2. Image Analysis and Information Extraction**
 - **3. Production Systems and Processes**
 - **4. Core GeoSpatial Databases**
 - **5. Integration and Delivery of Data and Services**
- Sensor Systems
 - Geometric Data Acquisition Issues
 - Semantic Data Acquisition Issues
 - 3-D Core Data
 - Integrated Problem Solution
 - Process Modelling and Interfaces
 - Core Geospatial Databases
 - Data Integration
 - Generalisation
 - Harmonisation
 - Delivery mechanisms and access to data
 - Geospatial Data Quality



Contact Points

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An introduction to EuroSDR

Thank you for your attention
More on Plans for the Future at 6pm!!