INTERNATIONAL COUNCIL FOR RESEARCH AND INNOVATION IN BUILDING AND CONSTRUCTION

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Around the Task Groups and Working Commissions

W106 – Geographical Information Systems
Meeting Report Brisbane – March 2002

by

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Introduction

The W106 had a very successful meeting in Brisbane, Austrialia with discussions focusing on the current work programme that includes specific objectives for each of its three working task groups. The Coordinator was also able to confirm commitments from many of its members to produce the first short state of the art national report on organisation and use of GIS linked to the Built environment.

Main objective

Producing reports on existing or completed projects in three main topic areas/TGs in order to facilitate the implementation of GIS in the building sector.

Each task should have a single or shared Task Group leadership.
A broadest possible global participation should be pursued in order to explore and promote a widest possible implementation of GIS applications for the Built environment.
A very important aspect would be to have links to national geographic and cartographic infrastructure and to exhibit national and regional demonstration projects for deployment of GIS. Such national

W106 Task Groups

TG1:GIS- requirements and availability of geographic standards, -data- and infrastructure
- Leaders Bengt Rystedt and Bengt Eriksson.

TG2:GIS-based analysis and modelling of flow and distribution of materials in the built environment.
- Leaders: Christer Sjöström and Gerry Trinidad
TG3:GIS- Spatial dynamic Modelling for Simulation of the interaction between the natural and the built Environment
- Leaders: Ivan Cole and Svein E. Haagenrud

The joint co-ordinatorship of W106 has to be changed due to Bengt Ericsson's departure. Ivan Cole, CSIRO, Australia has been appointed as the new Joint W106 Coordinator (see separate article).

TG1: GIS- requirements and availability of geographic standards, -data- and infrastructure

Objectives and scope:
· to increase the understanding and usage of geographic information within the built environment
· to promote the exploitation of efficient, effective, and economic use of digital geographic information for the built environment
· to contribute to a unified approach to addressing global performance requirements for the built environment

Deliverables
· Introductory report to 1st Seminar linked to 9DBMC in Brisbane, Australia, 17-20. March, 2002

–Draft report to meeting in connection to the W105 "Life Time Engineering in Construction" seminar, June 2003
· Final report to CIB Congress, 2-7. May, Canada 2004

TG2: GIS-based analysis and modelling of flow and distribution of materials in the built environment

Objectives and scope
· To promote the exploitation of the geographic information technology as a tool to model the amount, distribution and flow of building materials in the built environment
· To explore the material data availability and data sharing possibilities for an efficient, effective, and economic use of digital geographic information for modelling and mapping materials (amounts, distribution, flow) on various geographic levels of the built environment
· To contribute to a unified approach to characterise the built environment as to the amount, distribution and flow of materials, with regard to boundary conditions such as resource availability, environmental impact etc.

Deliverables
· Introductory report to 1st Seminar linked to 9DBMC in Brisbane, Australia, 17-20. March, 2002
· Draft report to meeting in connection to the W105 "Life Time Engineering in Construction" seminar, June 2003
· Final report to CIB Congress, Canada 2-7. May 2004

TG3: GIS- Spatial dynamic Modelling for Simulation of the interaction between the natural and the built Environment

Objectives and scope:
· To promote the exploitation of the geographic information technology as a tool to model the degradation environment to buildings and infrastructures
· To explore the environmental data availability and data sharing possibilities for an efficient, effective, and economic use of digital geographic information for modelling and mapping the degradation environment on various geographic levels.
· contributing to a unified approach to characterise the exposure of the built environment.

Deliverables
· Introductory report to 1st Seminar linked to 9DBMC in Brisbane, Australia, 17-20. March, 2002
· Draft report to meeting in connection to the W105 "Life Time Engineering in Construction" seminar, June 2003
· Final report to CIB Congress, Canada, 2-7. May 2004

Current W106 Membership Involvment

The Coordinator made reference to the Work Programme organisation and its emhasis on the need:
· for broadest possible global participation in order to explore and promote a widest possible implementation of GIS applications for the Built environment,
· to contact and survey the national geographic and cartographic infrastructure and to exhibit national and regional demonstration projects for deployment of GIS
· to pursue a national representation

International State-of-the-Art Report

The W106 members who commited to elaborate a short state-of-the-art national report on organisation and use of GIS linked to the Built environment are listed below. To get involved, contact the W106 coordinator.

Country	Representative	Comment
UK	D.Wyatt	GIS mapping of propert and property values
Australia	G. Trinidad	Examples of market studies on products in housing
Japan	K.Motohashi&T. Nireki	Wood materials flow and distribution
Canada	D. Vanier&M. Lacasse	Brief national report
Iceland	B. Marteinsson	GIS on country and community level
Demark	E. Brandt	Brief national report
France	J. Lair	Brief national report-waste mangement
USA/NIST	G. Frohnsdorff	Brief report on the exploitation of GIS within NIST
Sweden	C. Sjöström&B. Rystedt	GIS on country and community level
Norway	S. Haagenrud&P. Stordahl	GIS on country and community level
Brasil	Vanderley John	Brief national report
Malaysia	K. Gurusamy	Multimedia IT corridor proposed in M./ Brief national report

Next meeting

The next meeting is to be held in connection with the connection W105 "Life Time Engineering in Construction" seminar, June 2003. The exact date of the meeting will be announced in due time.