The e-Future Challenge

Prof. Stig Enemark
Aalborg University, Denmark
Vice-President of FIG COMMISSION 2/3/7 WORKSHOP, BUDAPEST, 27-29 APRIL 2006

Greetings from Wonderful Copenhagen

Greetings from the home base

Greetings from Aalborg – my Home Town

The characteristics (adapted from UN-Habitat 2002):

- **Sustainability**: balancing social, economic and environmental needs while being responsive to the present and future needs of society.
- **Subsidiarity**: allocation of authority at the closest appropriate level consistent with efficient and cost-effective services.
- **Equity**: Women and men must participate as equals in all decision making, priority setting, and resource allocation processes.
- **Efficiency**: Public services and local economic development must be financially sound and cost-effective.
- **Transparency and Accountability**: Decisions taken and their enforcement follows rules and regulations. Information must be freely available and directly accessible.
- **Civic Engagement and Citizenship**: Citizens must be empowered to participate effectively in decision-making processes.
- **Security**: All stakeholders must strive for prevention of crime and disasters. Security also implies freedom from persecution, forced evictions and provision of land tenure security.

Good Governance

• The term “Good” involves a normative debate.
Different people, organisations and governments authorities will define good governance according to their own experience and interests.

• The term “Governance” involves a spatial component.
All kind of government includes a spatial component.

Good e-Governance - what is it?

- The term “Good” involves a normative debate.
Different people, organisations and governments authorities will define good governance according to their own experience and interests.

- The term “Governance” involves a spatial component.
All kind of government includes a spatial component.

Good governance and sustainable development is not attainable without sound land administration or – more broadly – sound land management.
Land Management is the processes by which the resources of land are put into good effect.

- E-Government
- E-Citizenship
- E-Governance

Land management in developed economies should facilitate sustainable development – the triple bottom line of economic, social and environmental sustainability – through public participation and informed and accountable government decision-making in relation to the built and natural environments.

- Efficient Land Tenure
- Land Use Policy
- Land Information Infrastructure
- Land Information Infrastructure

Spatial enablement is just one form of interoperability – the capacity for a computer to identify "where" something is. It is, however, far more energetic and offers opportunities for visualisation, scalability, and user functionalities.

- Attachment of information to images of the parcel and property
- Identification of "the place" in ways that are understandable by non-technical people
- Capacity of businesses and citizens to manipulate the information
- Inclusion of various layers of geo-referenced information
- Integration of government information systems and provision
- Of seamless information to institutions and government
- Ultimately managing information through spatially enabled systems, rather than databases.
- Sharing of the core spatial information layer

A Land Management Vision

Facilitating Sustainable Development
Economic, Social, Environmental, Governance

Enhancing Quality of Life

Services to Business & Citizens
Knowledge Management in e-Government

Knowledge management is about optimising the use of the basic asset of any organisation, namely knowledge. Knowledge management is an integrated approach to managing the information assets of an organisation/enterprise. Knowledge management is – in fact – just common sense.

- Knowledge Management in e-Government
  Is about the sharing and organizing of knowledge; just like spatial information management is about organizing and sharing of data.

  It is about designing and implementing a suitable IT-architecture for organizing spatial information that can improve the communication between administrative systems and also establish more reliable data due to the use of the original data instead of copies.

Knowledge Management in e-Learning

The surveying community around the world is a combination of academia and practice. The profile of the community is changing rapidly due to the global drivers such as technology development and globalization.

To face this challenge a possible way forward is to foster a cross-functional collaboration through setting up virtual learning organizations and facilities which can benefit both partners. Learning Lab Geomatics can be seen as such an organization.

- Learning Lab Geomatics at Aalborg University
  - A problem-based and project organised approach
  - The learning process will reflect the ICT opportunities
  - Lecture courses will be designed as hypertext on the web for self-studies
  - The project work will be developed on the web and be accessible to all
  - Course material, research results, and journal articles are available on the web and tailored for use in the different areas of professional practice.
  - The graduates will then have access to the newest knowledge throughout their professional life
  - Learning Lab Geomatics – a way – designed to provide a new and flexible learning environment based on the knowledge management concept.

The three areas of e-Governance, Knowledge Management, and e-Learning are interdependent and constitute the key challenge of the future: “the e-Future Challenge”.

We should develop ways and means to face this challenge.

The efforts of Commission 2, 3 and 7 in this area are very timely and most welcome.

Educational Innovation

Professional competence relates to the status as an expert. This status cannot be achieved only through university graduation and it cannot be achieved solely through professional practice.

The idea of “learning for life” is replaced by the concept of lifelong learning.

All graduates must have access to the newest knowledge throughout their professional life.

E-Learning and innovative interaction between education, research and professional practice is essential in this regard.

The Role of FIG

The efforts of Commission 2, 3 and 7 in this area are very timely and most welcome.

Thanks for your attention