

Cadastral's importance for citizens everyday life and its value for establishing Democracy

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Presentation Contents

- **Cadastral and Spatially enabled societies and the needs**
- **The challenges we need to address**
- **FIG Commission 3 Activity**

Cadastre & Spatially enabled societies

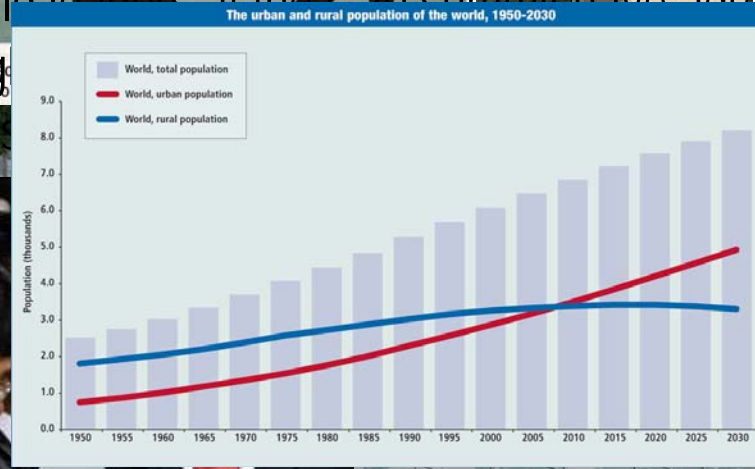
- Democratization
- Privatization of lands & registration of property rights
- Rapid urbanization
- Free market economies
- Accelerated development
- Environment & Climate change
- Global financial crisis
- New era of peace and harmony



Obama hails 'tough regulations'

World leaders at the G20 summit have agreed

tough
crisis



Cadastre & Spatially enabled societies

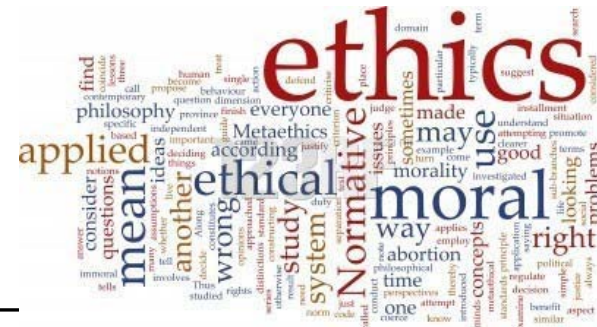
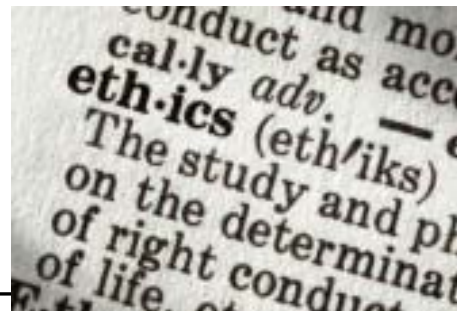
➤ Reliable cadastral information



➤ Education



➤ Professional ethics



Access to land & regularization of land

- Privatization of rural and urban land
- Rural land to people? or to big investors?
- Clear ownership rights, avoid fragmentation of rural land
- Regularization (cultural heritage, forests, public coastal zone, etc)
- **Respect of private ownership rights**

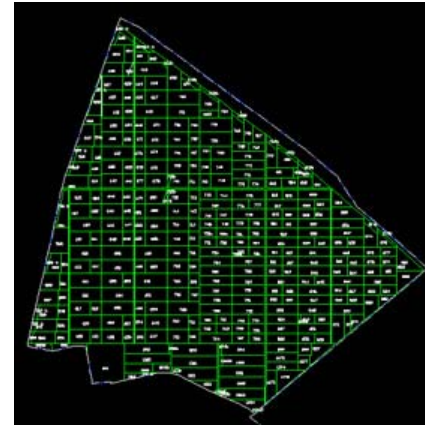


Need for combined methods against rapid urbanization ?



ΥΠΟΜΝΗΜΑ

Έκταση στγ.	180
Τραπέζια κατά την καλλιέργεια κερμάτων	2630
Τραπέζια κατά την νέα οργάνωση	220
Ίδιωτικότητες	18
Τραπέζια κατά ιδιοκτητή την παλαιά κατάσταση	15
Τραπέζια κατά ιδιοκτητή την νέα κατάσταση	4
Άλλα στοιχεία άνω 3000-20000	
Τραπέζια που είναι θαλάσσια ή σε ακαθόριστο ή νέαν κατάσταση	
Διαφορετικές οργάνωσεις	■



- Motives to eliminate urbanization (for the farmers e.g., mixed uses, clear rights, **tax releases**, tourism promotion, schools / education, that will make their stay in the rural areas quite attractive)
- **Rural land consolidation** projects & **urban planning** projects
- Administrative (determination of responsibilities), legislative & perhaps constitutional reforms needed



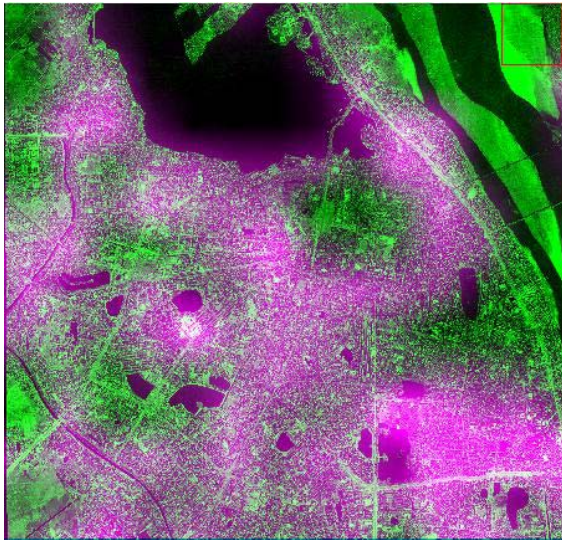
Megacities: home to 10 million or more



- 1950s New York, Tokyo, Buenos Aires, European Capitals
- 2005 Latin America, India, North America, Asia
- 2015 Latin America, Central Africa, Asia

High urban densities-economies of scale

High urban densities in Hanoi



Satellite image



Master plan



Cadastral map



← Also in Europe

Access to land and ownership rights on land

Property registration

Lack of Affordable Housing policies

→ Informal Settlements →

Informal Real Estate Markets



Waste management - garbage treatment

6,000 tons of trash are produced daily in this city of >4M people

Greece has successfully managed to close about 800 open landfills and avoid high EU penalties. However, the costs for the regeneration and mechanical recycling procedure are also high



Energy insecurity

Public Power Corporation in Greece will pay up to 2,2 billion euros a year for carbon emission licenses unless it shifts away from its dependence on lignite.

Consumers could expect a rise in electricity bills of 45% by 2013



Greece



Hanoi



Albania

Traffic Management



Hanoi, Vietnam



Mumbai, India



Fresh water is very expensive



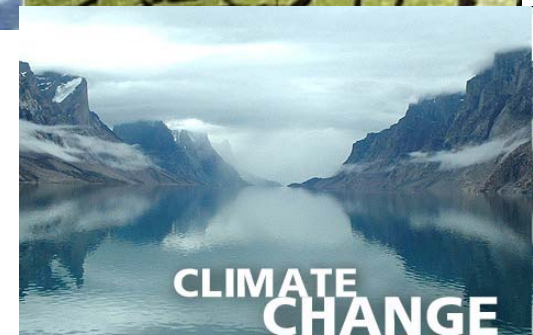
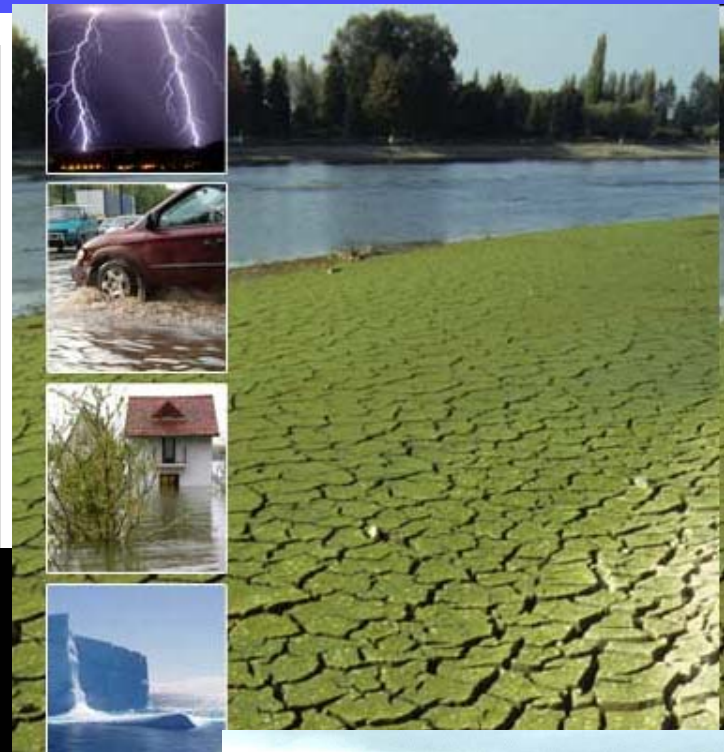
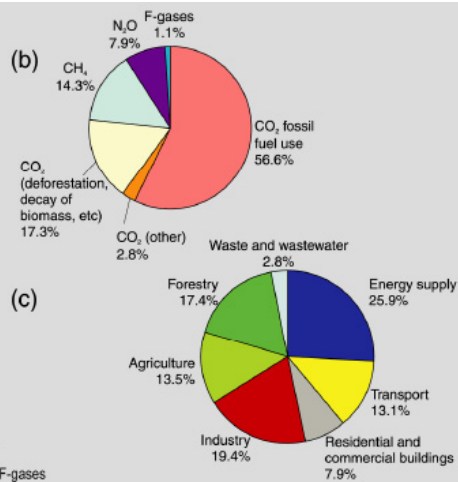
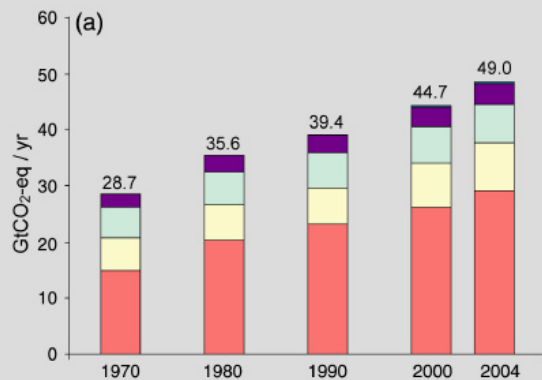
Delhi (India) draws 75% of its drinking water from Yamuna river into which the city dumps quantities of sewage to join a cocktail of farm chemicals and industrial effluents, including arsenic



Results of rapid urbanization hit rich and poor alike



Climate change



Place matters - all have a spatial dimension

- Food, water and energy insecurity
- Informal development, high urban densities, dilapidated city centers
- Lack of green areas and of buildings reflecting local cultural heritage,
- Transportation problems, traffic congestion and accidents
- Lack of basic services, insecurity of tenure, informal real estate markets
- Unsustainable land use and inefficient land administration systems
- Creation of slums, criminality
- Difficulty in natural hazards management
- Water, soil and air pollution, climate change
- Weak institutions to resolve conflict
- Inefficient administration, bad governance

Land-use control. Cadastre provides the spatial info

- It is a matter of human rights that people are free to choose where they will live

However....

- Nobody wants to live in a city which is congested, suffers constant blackouts and frequent floods, with few parks, awful schools and clinics, devoid of any buildings of charm and character, governed by incompetent public sector
- It is a matter of good governance to achieve sustainable urban growth
- **Need to prepare the necessary spatial infrastructure in the cities**
- **All must assume the costs of the natural resources they consume, knowing that their competitors do the same!**

Place matters -transparency

cadastral information should be made available both to

***governments** to plan better policies for economic and social development, and environmental protection, but also to*

***citizens** and*

***business** to encourage creativity.*

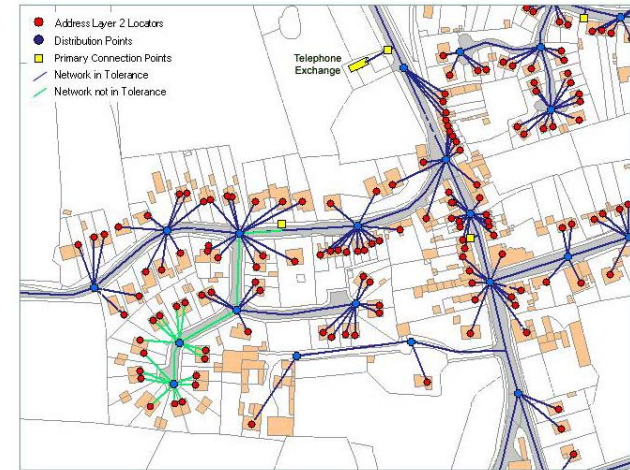
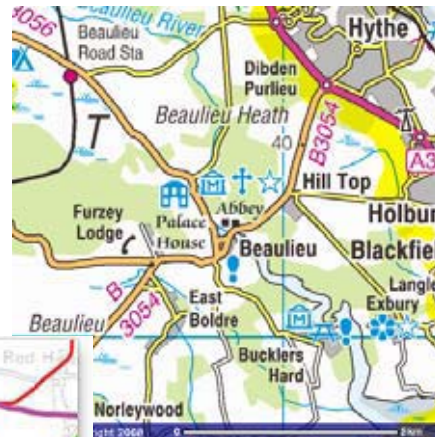


Place matters:
the Location
Strategy for the
United Kingdom

November 2008

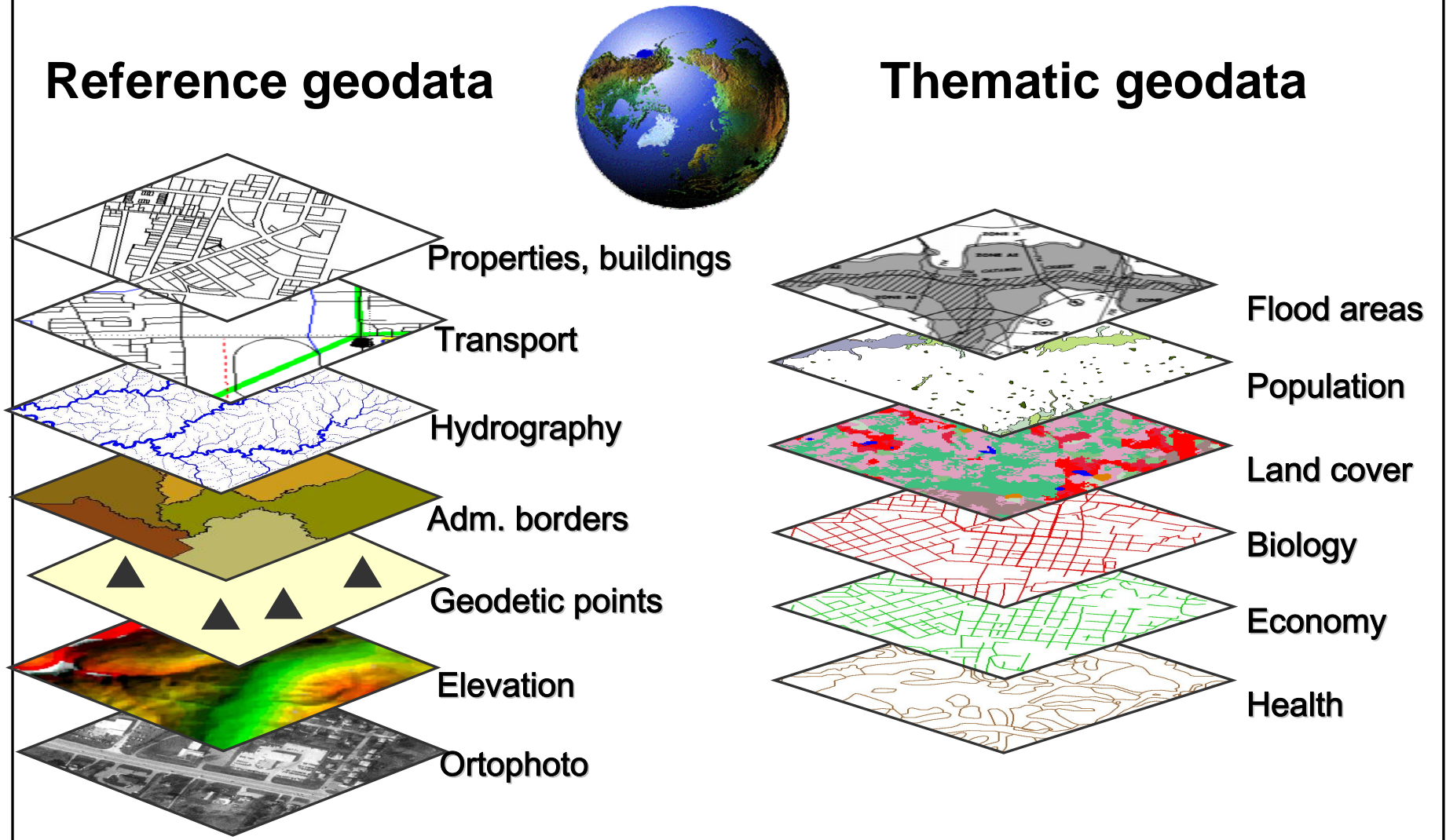


Cadastre & Spatially enabled societies



Source: OS UK

The Norwegian NSDI : a step ahead in citizen participation



INSPIRE

- Infrastructure for SPatial InfoRmation in Europe
 - <http://www.ec-gis.org/inspire>
 - Initiated by DG Environment, Statistics and Research
- INSPIRE principles; data should be
 - Stored, made available and maintained at the most appropriate level
 - Possible to combine from different sources
 - Possible to share between users and applications
 - Easy to discover, evaluate and find conditions for use
 - Available on conditions that do not restrict their extensive use

Service based infrastructure

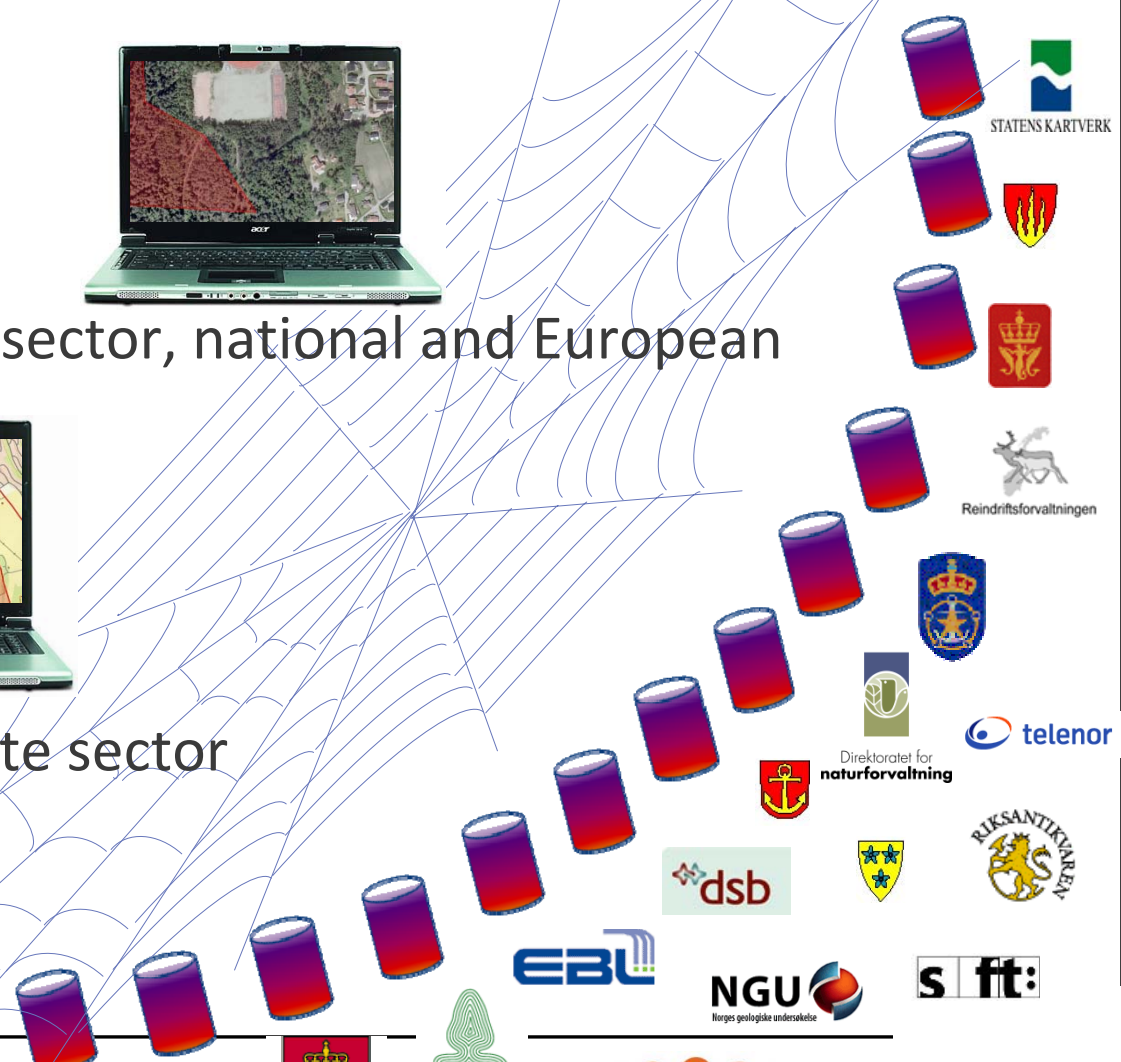
- metadata
- view services
- download services



Public sector, national and European

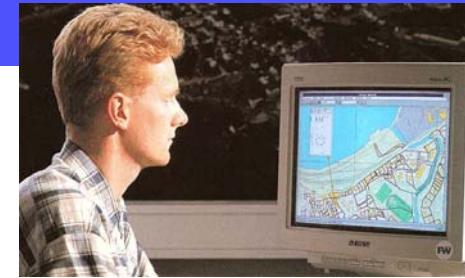


Citizens and private sector



Extensive value for the society

- Municipal administration
- Transport
- Shipping and Fishery
- Agriculture and Forestry
- Telecommunications and Energy
- Defence
- Emergency management
- Imagery
- Environmental and Area resource management
- Property management
- Education
- Media
- Leisure
- Map production
- eGovernment



Adobe Reader - [Mypage-brosjyre for web.pdf]

File Rediger Vis Dokument Verktøy Vindu Hjelp

Services on MyPage

The illustration below presents the different types of services available on MyPage.

The screenshot shows the MyPage website interface. On the left, there is a navigation menu with categories like Consumer rights, Education, Health, Housing and property, Norwegian Armed Forces, Recreation, culture and the environment, Social security, Taxes, and Travel and transport. The main content area is titled 'Frontpage' and contains various service links. On the right, there is a user profile section for 'KARI NORDMANN' and a calendar for July 2007.

Callouts on the screenshot:

- Register services** provide citizens with personal data stored in public registers.
- Transaction services** allow citizens to interact digitally with public sector agencies.
- Notification services** allow SPs* to correspond with citizens.
- Calendar services** help citizens keep track of important dates and events.

Windows taskbar: start, 142%, 4 av 13, 72%, 13:04

Digital Planning Dialogue

Tønsberg kommune

Verktøy:
Plandialog
Kommune:
Tønsberg

Planinformasjon
Reguleringsplan
Kaldnes industriområde
Status i saksbehandling:
Offentlig ettersyn
Frist for uttalelser
10.12.2006
[Reg. bestemmelser](#)
[Plankart \(PDF\)](#)
[Illustrasjoner](#)
[Saksframlegg](#)

Andre Saksdokumenter
Innkomne uttalelser
Nabo 1
Statens vegvesen
Vestfold fylkeskommune
Tidligere saksdokumenter

Plan med temakart
Kulturminner
Nedtoning av plan
0% 100%
Send uttalelse

Tønsberg kommune - Microsoft Internet Explorer

Navn: Ola Nordmann
Postadresse: Olastien 4, 3100 Tønsberg
E-postadresse: Ola.nordmann@hotmail.com
Emne: Uttalelse til 1.gangs høringsutkast reguleringsplan Kaldnes industriområde
Innspill:

Vedlegg: Bla.. Send til kommunen
Kopi til:

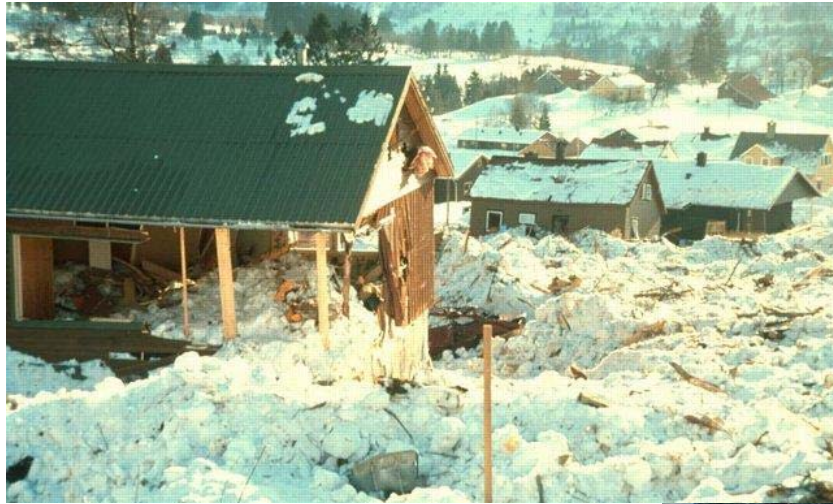
Symfoni InfoPortal - Produced by Ementor Norge AS - Internet

Varsel - planstart 07/06/2006
1.gangs behandling 10/11/2006 10/12/2006
2.gangs behandling
Planvedtak
Ev. klagebehandling

planinitiativ uttalelser til varsel utarbeide planforslag Saksforberedelse uttalelser til off. ettersyn Saksforberedelse

Society security – slide risk

Municipalities – responsibility in build up areas



Risk
management
and actions

Planning/
construction

Actions

Watch,
warning,
preparedness

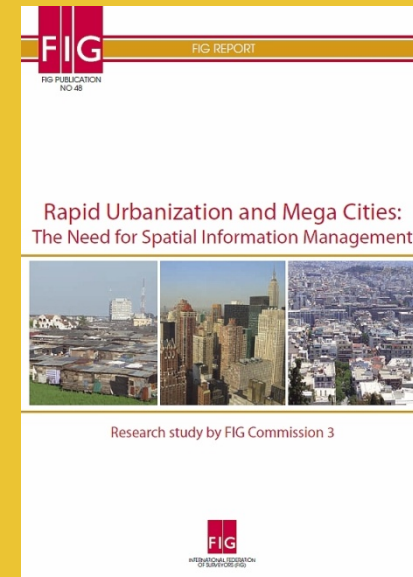
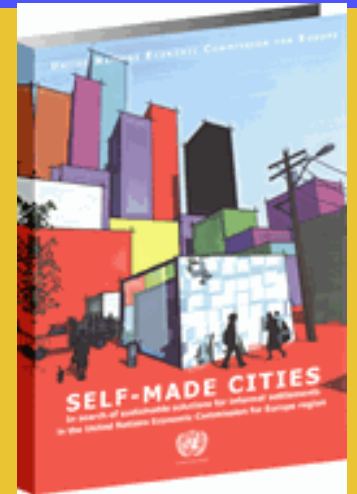
Billions are invested on Cadastre Projects

- *Technical approaches alone are not sufficient*; in order for any investment on major technical projects (e.g., cadastre, NSDI, etc) to be efficient and meet our expectations significant policy reforms are necessary. *Effective land governance* is critical to addressing these challenges.
- *Land governance recognises that land is not only technical but also extremely political in nature; improving governance on land requires bridging the gap and preventing conflicts between the so called formal, customary and informal systems and institutions.*

It means establishing new partnerships between governmental authorities, people, academia and the private and professional sectors.

FIG Com3 Publications & synergies

- Proceedings of FIG Com3 Annual Workshops
- UN ECE publication on Self-made cities
- Joint FIG-UN HABITAT-GLTN publication on developing land tools for the legal integration and the provision of environmental improvements in informal urban development and to contribute to the alleviation of poverty and the economic growth
- FIG publication on Spatial Information in support of Mega-cities management, the drafting of which will also be completed by the end of this year



Thank you !!