



Vrije Universiteit Brussel



# Assessing SDI-impact on society

## Welcome

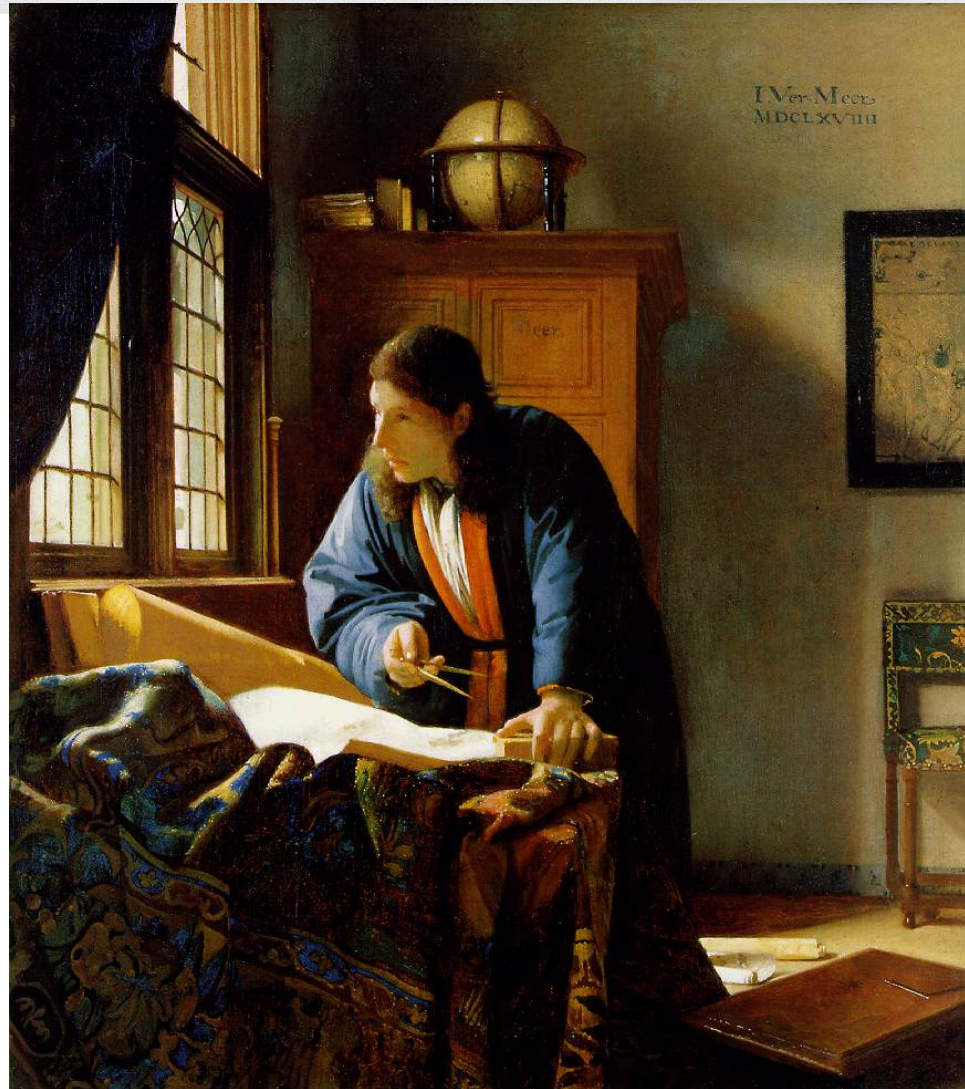
Tatiana Delgado Fernández, Joep Crompvoets

13 February 2009

# Objectives



Spatial Data Infrastructure and  
Public Sector Innovation



J. Vermeer (The Geographer)

# Personal presentation + expectation



## Introduce yourself

Name

Country



## Workshop Expectation

What do you expect from this Workshop?

# Objectives



- Explore the difference between SDI-performance and impact
- Present a theoretical framework to assess SDI-impact and performance
- Present SDI-performance from different perspective
- Introduce existing initiatives of SDI-impact assessment studies
- Learn from each other experiences to study SDI-impact
- Explore/Discuss the main SDI-impacts on society
- Explore/Discuss the appropriate methods to assess the SDI-impact on society

# Related projects



Development of a framework to assess National Spatial Data Infrastructures

*(Space for Geo-Information / RGI-005)*

Ruimte voor Geo-Informatie



Evaluating and strengthening spatial data infrastructures for sustainable development in Latin-America and The Caribbean

*(Iberian-American program of Science and Technology for Development (CYTED IDEDES))*



Spatial Data Infrastructure and Public Sector Innovation

*(Institute for the promotion of innovation by science and technology in Flanders)*



# Program



- 10:15 Introduction **SDI-impact and performance assessment**  
*Danny Vandembroucke*
- 10:45 SDI-performance from a technological perspective  
*Danny Vandembroucke*
- 11:00 Coffee break
- 11:15 SDI-performance from an organizational perspective  
*Ezra Dessers*
- 11:35 A public administration view on SDI performance: lessons from e-government  
*Glenn Vancauwenberghe*
- 11: 55 Actor oriented performance assessment  
*Tessa Geudens*
- 12:15 Future directions of SDI-impact/performance assessment  
*Joep Crompvoets*
- 12:30 Plenary discussion
- 13:00 Lunch

# Program



## **National and local SDI-impact on society**

- 14:00 Welcome
- 14:05 Model to evaluate the costs – benefits of the Colombian SDI  
*Carolina Morera*
- 14:30 Neocartografía: use of protocols and standardised interfaces for building geographic Mashups (SDI 2.0 Impact)  
*Carlos González*
- 14:55 Spatial Data Infrastructures: An approach to innovate the public administration  
*Andrés Valentín*
- 15:20 SDI Impact at local level: Santa Fé Province experience  
*Stella Agueria*
- 15:45 Coffee break
- 16:00 CYTED IDEDES Vision of SDI Impact for sustainable development  
*Tatiana Delgado Fernández*
- 16:20 Group/Plenary discussion
- 17:15 Closure

## **Future directions of SDI-impact and performance assessment**

Joep Crompvoets + Christopher Pollitt

13 February 2009

# Introduction



Future issues relevant for SDI-assessment practitioners

Body of knowledge and experiences relating to performance assessment activities in the public sector (e.g. public health and social security)

Commonalities of temporal patterns or sequences applicable for SDI-assessment

# SDI-assessment



A “Performance” focus

**Uncertainty** in the way in which SDI-assessment will be performed

Assumption: SDI-assessments just as another new example of performance management

# Expectations community



The community of SDI-assessors will be bigger

The growing SDI-assessment community will include a wide range of disciplinary approaches

The foci of the specific interest will broaden

- Range from high level studies to detailed
- Range from rather prescriptive advice to highly detached academic interpretations and deconstructions

# Expectations community



Information and communication technologies will support and sometimes shape the assessments

The current assessment studies will be complemented with field studies of how the assessment approaches are used (or not used) by practitioners

The need of SDI-assessment should be closely coupled to significant community incentives (rewards and/or punishments)

# Expectations community



The community continues to focus on better approaches that are more valid and reliable

The assessment community will deal with the need to shift from input and process assessment to output assessment, and beyond that, to outcome assessment

It remains difficult to demonstrate that investments in SDI-assessment improve the SDI-development

# Expectations approach evolutions



*Culturally-shaped 'paths'*. The administrative culture may shape how assessments are used or indeed whether they are used at all.

*Steady, incremental development*. Gradual assessment shifts of focus on inputs and processes to outputs and finally outcomes.

*Patterned alternations*. Regular changes within the indicator sets of the approach.

# Reasons for indicator changes



- Experts learn from their attempts to assess, and frequently want to replace an existing indicator with one that is more comprehensive
- Shifts in public and political attention may lead to indicators being added
- New procedures or technologies are introduced which require new measures for assessment
- An indicator just becomes irrelevant, and it is altered or dropped
- Tendency to cycle from many indicators to few

# Conclusions



- Validity of performance management in other public domains is likely to be applicable for SDI-assessment
- SDI-assessment is likely to have developmental trajectories over time (some approaches and their indicators will wear out)
- SDI-assessment regimes cannot stand still
  - Endogenous and exogenous pressure lead to change
  - SDI-objectives and the relevant indicators change

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# Introduction to SDI-impact on society



Impacts according to literature:

- Reducing the costs of data production
- Eliminating duplication of (acquisition) efforts
- Saving the costs of data accessibility (in time, money and efforts)
- Improving the data sharing across agencies and sectors
- Using data more efficiently
- Developing data services more effectively by using existing data and data standards
- Providing better available data for decision-making
- Improving policy formulations based on easily accessible data
- Ability to perform cross-jurisdictional and cross-sectoral decision-making
- Providing directions to vendors regarding the technical features
- Expanding potential market through the formation of beneficial partnerships;
- Facilitating the development of knowledge infrastructure and communication.



# Introduction to SDI-impact on society



Quantitative examples:

USA Bureau of Land Management, 1999	C : B	1 : 1,5
Malaysia, 1995	C : B	1 : 4
Canada,		
Australia, 2000	C : B	1 : 4
Netherlands, 2000	C : B	1 : 10
INSPIRE, 2003	C : B	1 : 5/7

Costs: Relatively easy to assess  
Benefits: Impossible



# Plenary session



What are the main SDI-impacts on society?

(user/producer)

(Government / private sector / NGO / Utility)



What are the best methods to assess the SDI-impacts on society?