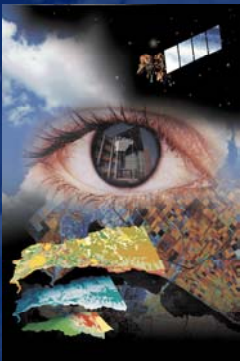**Slide 1**

Spatial data infrastructures:
Hype of hit?

Arnold Bregt & Joep Crompvoets

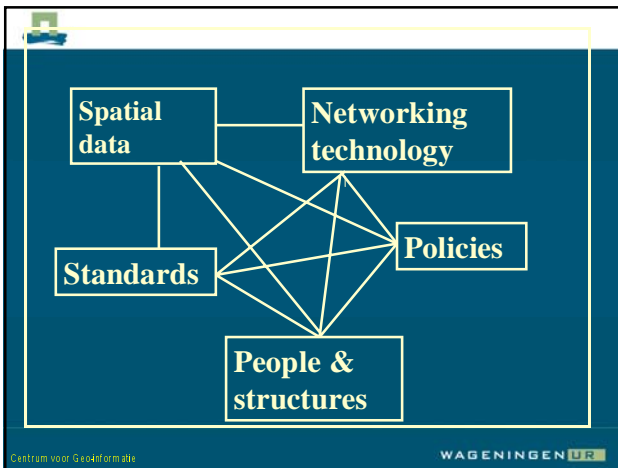GSDI 20 April 2005

WAGENINGEN UR

Slide 2

Contents

- SDI: developments
  - Netherlands
  - World

- SDI: hype or hit?

WAGENINGEN UR

Slide 3

Spatial data — Networking technology

Standards — Policies

People & structures

WAGENINGEN UR

Slide 4

Space for geo-information

- The plan is supported by 120 organisations:
  - Geo users;
  - Geo producers;
  - Geo companies;
  - Geo research.

- Network organisation

- Knowledge proposal to the Government

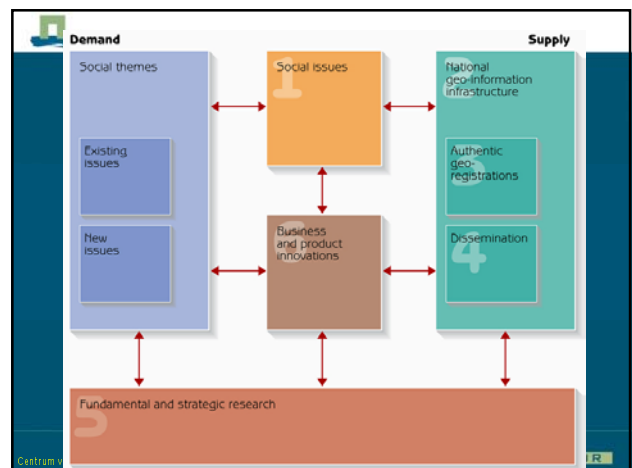- 40 M euro for 6 years (20 M euro is new money)

Ruimte voor geo-informatie
Expression of interest in het kader van ICES RNIS

informatie

Geo

WAGENINGEN UR

Slide 5

Mission

- "Enhancement and innovation of the geo-information infrastructure and geo-knowledge community in the Netherlands towards a sound and efficient public administration and a robust business"

WAGENINGEN UR

Slide 6

Demand — Supply

Social themes | Social issues | National geo-information infrastructure

Existing issues | | Authentic geo-registrations

New issues | Business and product innovations | Dissemination

Fundamental and strategic research

1

NSDI Assessment framework

- Development NSDI assessment model
  - Model (key variables for describing (N)SDI)
  - World assessment
  - Developed by iteration
- 4 year project (2005-2009)
- Delft, Melbourne, Ravi, Wageningen
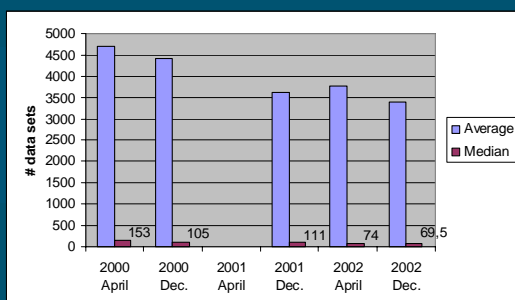
Centrum voor Geo-informatie · WAGENINGEN UR

World developments

- Periodically survey for assessing the world developments in national clearinghouses (portals) "window of SDI"
- Final goal: understanding of the developments
- Started in 2000
- Publication in IJGIS (2004)
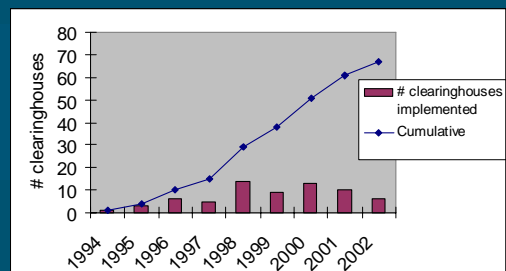
Centrum voor Geo-informatie · WAGENINGEN UR

Data sets (USA: 139 000 EU25: 10 000)

Chart: # data sets (Average / Median) for 2000 April, 2000 Dec., 2001 April, 2001 Dec., 2002 April, 2002 Dec. Median values: 153, 105, 111, 74, 69,5

Centrum voor Geo-informatie · WAGENINGEN UR

Access Network

Chart: # clearinghouses (implemented bars and Cumulative line) from 1994 to 2002

Centrum voor Geo-informatie · WAGENINGEN UR

Policy (**funding**)

Chart: % clearinghouses — Stable funded, Piecemeal funded, Never funded
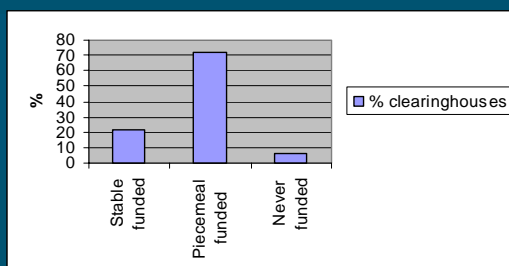
Centrum voor Geo-informatie · WAGENINGEN UR

Who takes the initiative?

Chart: % by category (Mapping-Surveying, Environment, Cadastre, Geology, Statistics, Nat. GI-Council, Commercial) for years 2001, 2002, 2003?
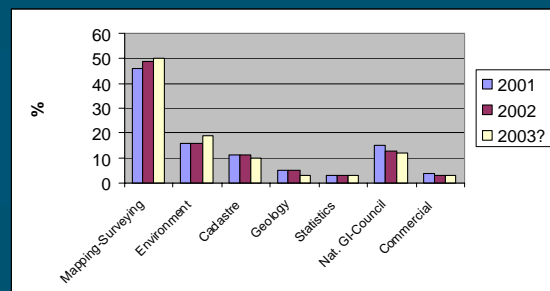
Centrum voor Geo-informatie · WAGENINGEN UR

Conclusions World

- Strong development in number (now 95 April 2005)

- Slight decline in use, management and content.

- Success factors: web services, stable funding and trust and authority

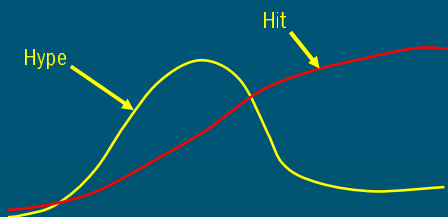Centrum voor Geo4Informatie — WAGENINGEN UR

Hype or hit?

	hype	hit
Expectations	unrealistic	realistic
Attention	strong increase	balanced
Involvement stakeholders	few	all relevant ones
Benefits	high, not proven	proven

Centrum voor Geo4Informatie — WAGENINGEN UR

Hype or hit

Hit

Hype

Centrum voor Geo4Informatie — WAGENINGEN UR

Expectations

- A lot of belief, but limited real good practices
- Statements:
  - "Most important GI-development ever"
  - "Exiting times"
  - "Vital for poverty reduction in the world"
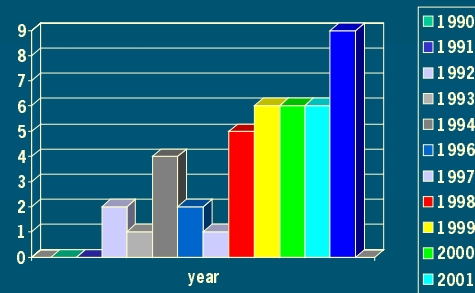
Centrum voor Geo4Informatie — WAGENINGEN UR

Attention

- Conferences on SDI only, with increasing number of visitors (see GSDI 8)
- Issue on regular GI conferences
- Attention in the written press, however scientific papers are limited but increasing.

Centrum voor Geo4Informatie — WAGENINGEN UR

Publications in geobase

year

Legend: 1990, 1991, 1992, 1993, 1994, 1996, 1997, 1998, 1999, 2000, 2001

Centrum voor Geo4Informatie — WAGENINGEN UR

Stakeholders involvement

- Strong support from the data-suppliers and vendors (Intergraph en ESRI grants)
- User's participation and awareness is limited (worrying situation)
- Problem with scientific approach for SDI

Benefits

- Expected benefits are high (1 : 4)
- Only projective studies (Netherlands, INSPIRE)
- No real impact evaluation (period is short)

Personal reflection

- I am a strong believer in its potential, but:
  - More hard facts and figures on benefits/costs (SDI-economics).
  - Needs to be developed and managed as a real infrastructure (not a project)
  - More end user involvement.
  - Balanced attention to all SDI components.
  - More involvement of scientific research.
  - Hopefully our project will contribute

Spatial Data infrastructues:

Is small hype, but hopefully it becomes a hit!