SDI in the Netherlands

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Overview presentation

- Who am I ?
- SDI in NL
- SDI research

Who am I?

- About 12 years Wageningen University
- Involved in:
  - SDI development (geo-postal, GIDEON, INSPIRE, etc)
  - SDI research (understanding the phenomena and assessment)
  - SDI education (SDI course of 6 ec)

SDI in NL

- What is your impression?

SDI-Components :

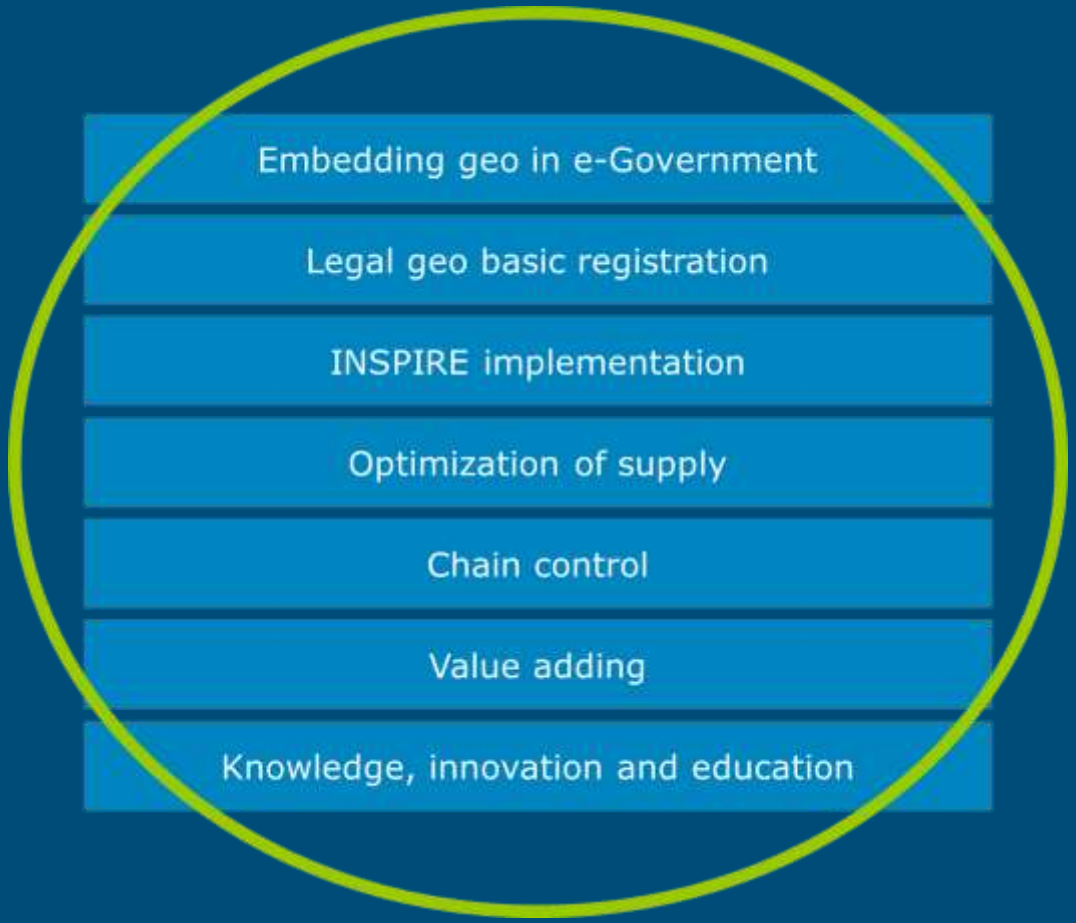
DATA	STANDARDS	TECHNOLOGY	POLICY	ORGANISATION	PEOPLE and KNOWLEDGE

NSDI vision and implementation strategy for 2008-2011 (GIDEON)

GIDEON: objectives

- Public and businesses are able to retrieve and use all relevant geo-information;
- Businesses able to add economic value to government-provided geo-information;
- The government will use information for each location in its work processes and services;
- Continuing development and innovation of the key facility.

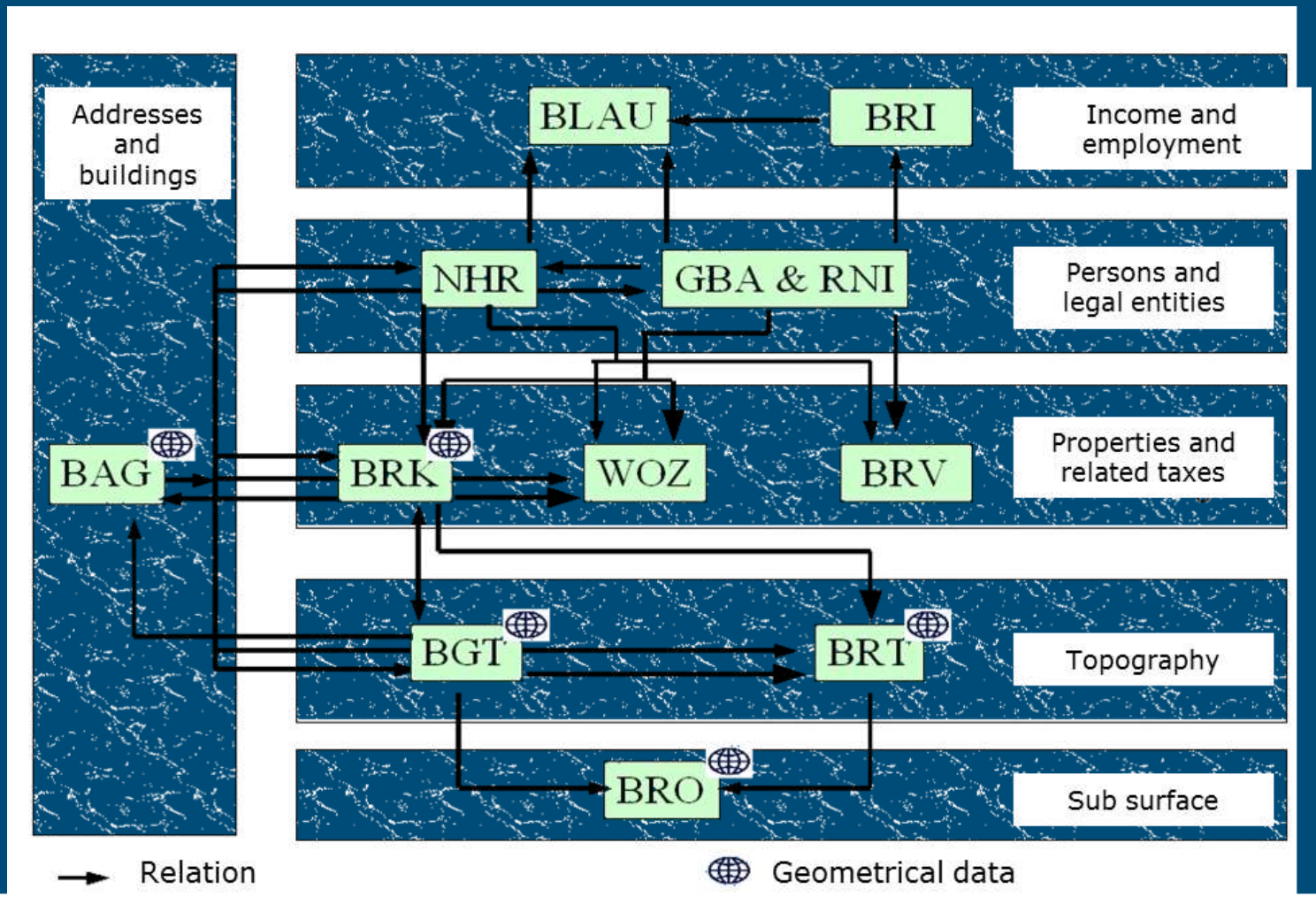
GIDEON: Strategy



E-government

- Geo-standards on the E-standards list
- Geo-policy in line with national E-policy

Geo-registrations



Supply optimization

Chain control/cooperation

- Organization of integrated geo-information support for e.g.:
  - Mobility
  - Water
  - Environment
  - Safety

Value adding

- Opportunities for companies
  - Data available
    - Topographic data
    - Geology
    - Etc
  - Open data movement
    - E.g. National satellite databank

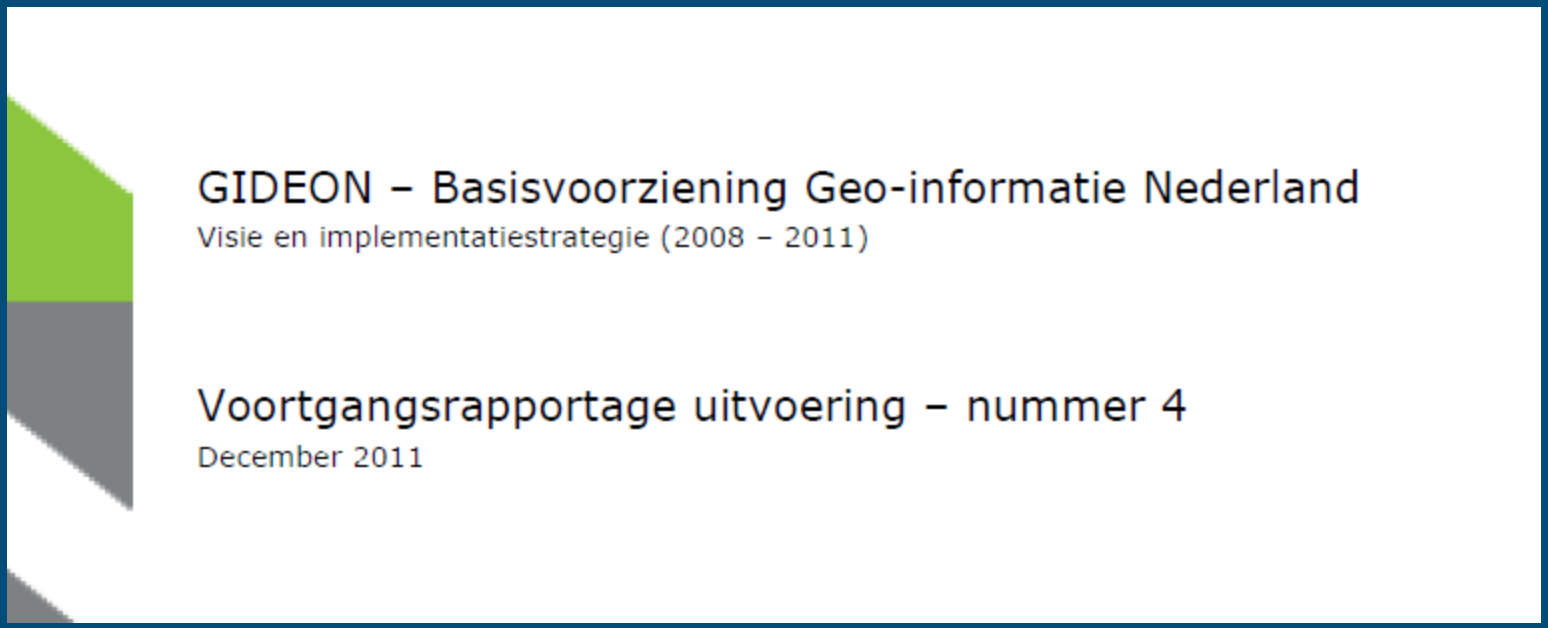
Knowledge, Innovation and Education

- Space for geo-information (40 m euro) 2009
- New projects Urban regions in the Delta (NWO)
- Maps4Science (proposal)

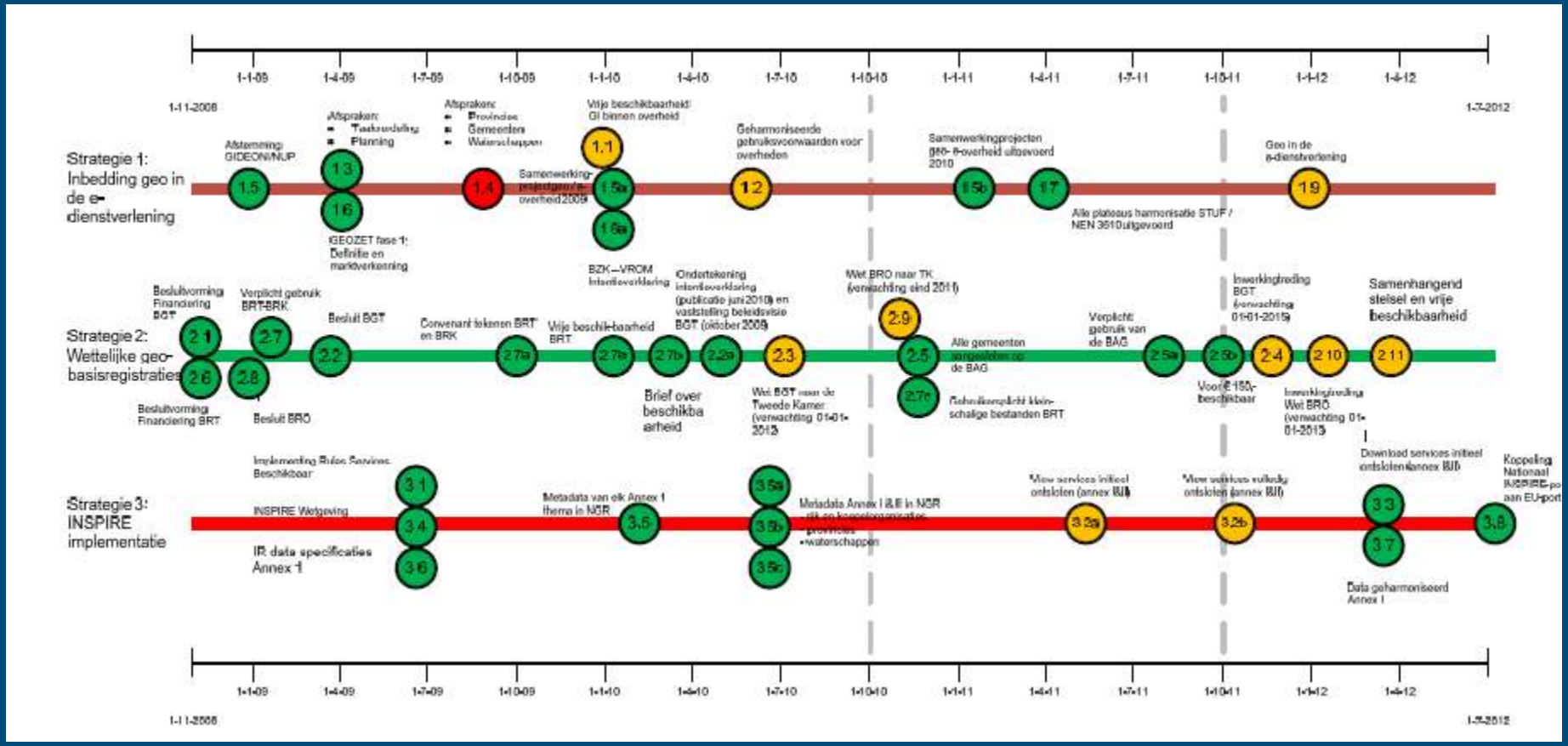
- Innovation platform geo (IIP-GEO) (companies)

- “Geo Labour foundation” All levels of geo-education

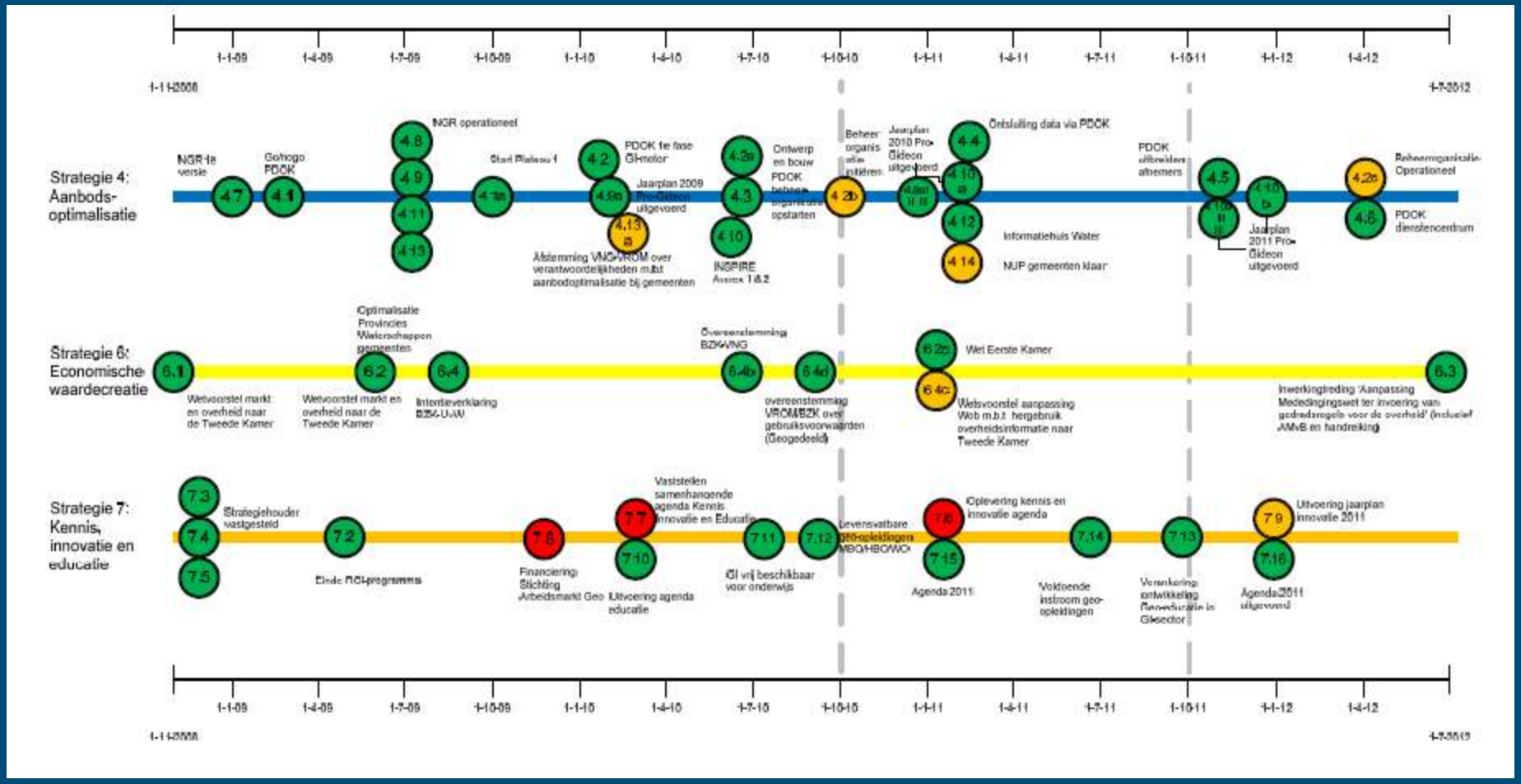
Monitoring


GIDEON – Basisvoorziening Geo-informatie Nederland
Visie en implementatiestrategie (2008 – 2011)
Voortgangsrapportage uitvoering – nummer 4
December 2011

GIDEON Monitoring 1



GIDEON Monitoring 2



Impact

	Organ. issues	Legal issues funding	Data	Metadata	Network services	Standards	Total average
The Netherlands (2010)	75%	89%	86%	100%	100%	100%	92%
The Netherlands (2007)	88%	50%	79%	83%	70%	100%	78%
The Netherlands (2005)	88%	39%	86%	67%	30%	100%	68%

Source: Sate of Play Leuven

Evaluation

Nr	Implementatiestrategie
1	Inbedding GEO in E-overheid / E-dienstverlening
2	GEO-basisregistraties
3	INSPIRE
4	Aanbodoptimalisatie
5	Ketensamenwerking in beleid en uitvoering (publiek domein)
6	Waardecreatie
7	Kennis, innovatie en educatie
8	Coördinatie, sturing en regie

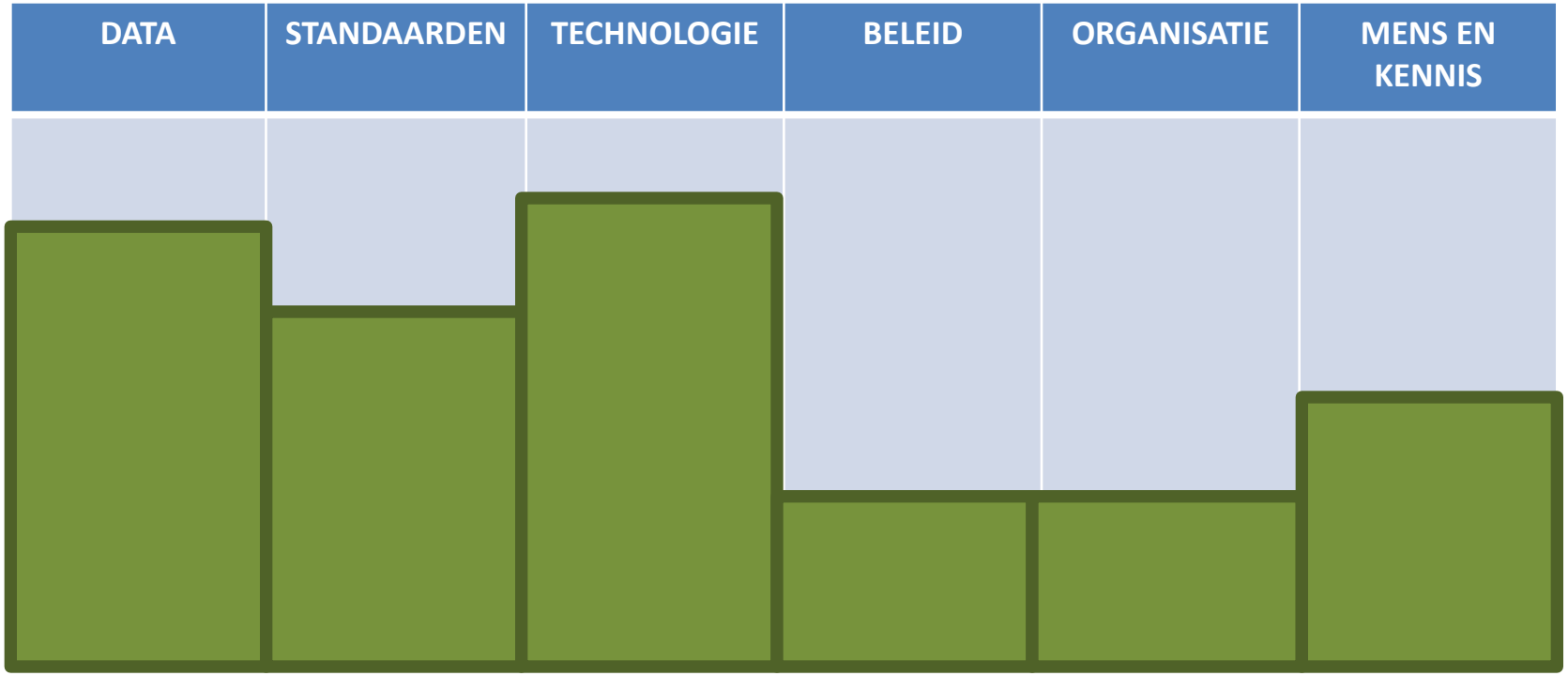
GIDEON (personal) reflection

- Overall successful
  - Combination of vision and strategy
  - Systematic monitoring
- The supply oriented strategies more successful
- Discussion GIDEON 2.0 (tendency to focus on the easy activities)

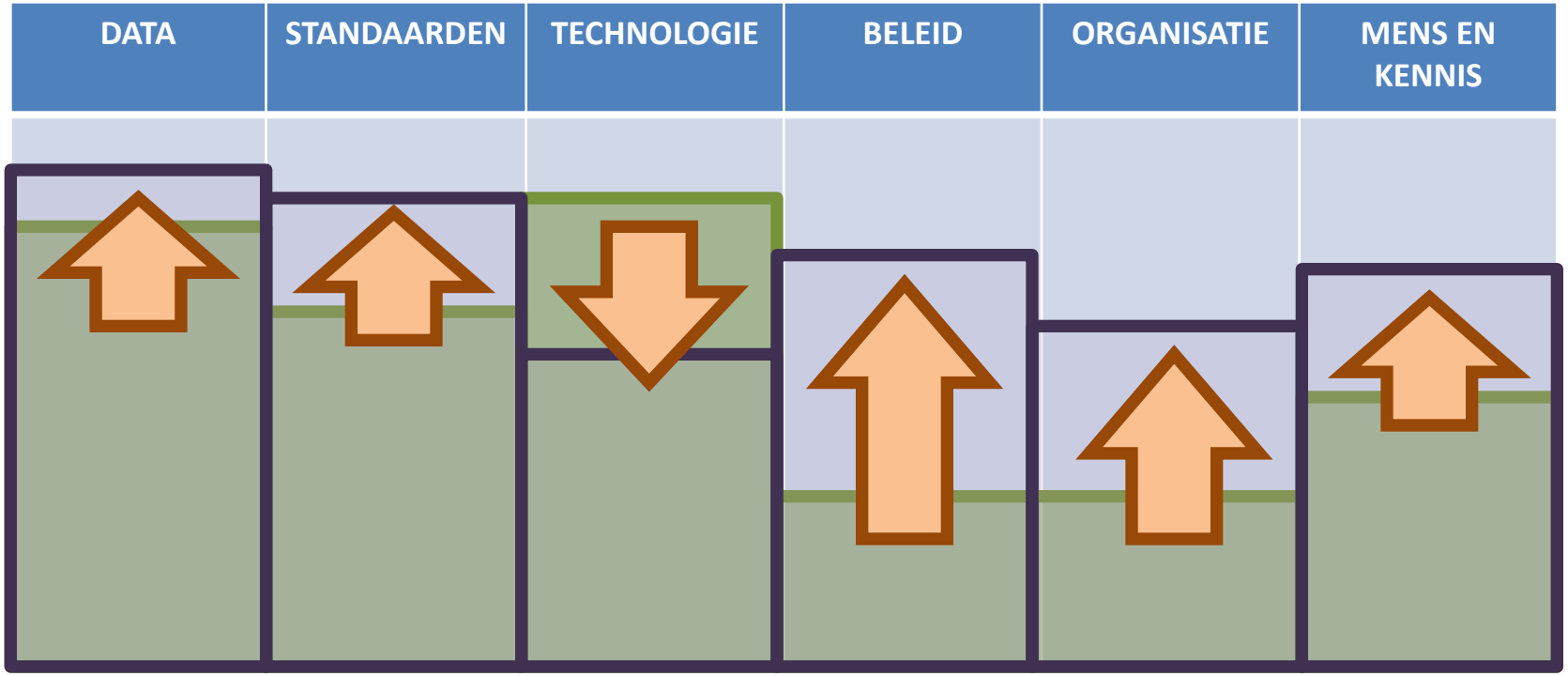
SDI-Components :

DATA	STANDARDS	TECHNOLOGY	POLICY	ORGANISATION	PEOPLE and KNOWLEDGE

SDI-NL 2007
(Before the start of GIDEON):



SDI-NL 2011


DATA
STANDAARDEN
TECHNOLOGIE
BELEID
ORGANISATIE
MENS EN KENNIS

SDI research

- SDI research in the World
- SDI research in NL (a selection)

SDI research in the world: Authors

View Records / Exclude Records	Field: Authors	Record Count	% of 284	Bar Chart
☐	IEEE	15	5.282 %	
☐	RAJABIFARD A	10	3.521 %	
☐	MURO MEDRANO PR	9	3.169 %	
☐	NOGUERAS ISO J	9	3.169 %	
☐	ZARAZAGA SORIA FJ	9	3.169 %	
☐	WILLIAMSON I	8	2.817 %	
☐	RAJABIFARD ABBAS	6	2.113 %	
☐	ZIPF A	6	2.113 %	
☐	BEJAR R	5	1.761 %	
☐	CROMPVOETS J	5	1.761 %	
View Records / Exclude Records	Field: Authors	Record Count	% of 284	Bar Chart

Source: Web of Science

SDI-research: Countries

View Records / Exclude Records	Field: Countries/Territories	Record Count	% of 284	Bar Chart
☐	USA	54	19.014 %	
☐	GERMANY	36	12.676 %	
☐	ITALY	25	8.803 %	
☐	SPAIN	25	8.803 %	
☐	PEOPLES R CHINA	24	8.451 %	
☐	NETHERLANDS	23	8.099 %	
☐	AUSTRALIA	22	7.746 %	
☐	CANADA	12	4.225 %	
☐	ENGLAND	8	2.817 %	
☐	BELGIUM	7	2.465 %	
View Records / Exclude Records	Field: Countries/Territories	Record Count	% of 284	Bar Chart

(23 Countries/Territories value(s) outside display options)

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Source: Web of Science

SDI Research: Years

View Records / Exclude Records	Field: Publication Years	Record Count	% of 284	Bar Chart
☐	2009	54	19.014 %	
☐	2010	48	16.901 %	
☐	2008	38	13.380 %	
☐	2007	24	8.451 %	
☐	2006	23	8.099 %	
☐	2011	19	6.690 %	
☐	2005	18	6.338 %	
☐	2004	14	4.930 %	
☐	2003	13	4.577 %	
☐	1999	8	2.817 %	
View Records / Exclude Records	Field: Publication Years	Record Count	% of 284	Bar Chart

(7 Publication Years value(s) outside display options.)

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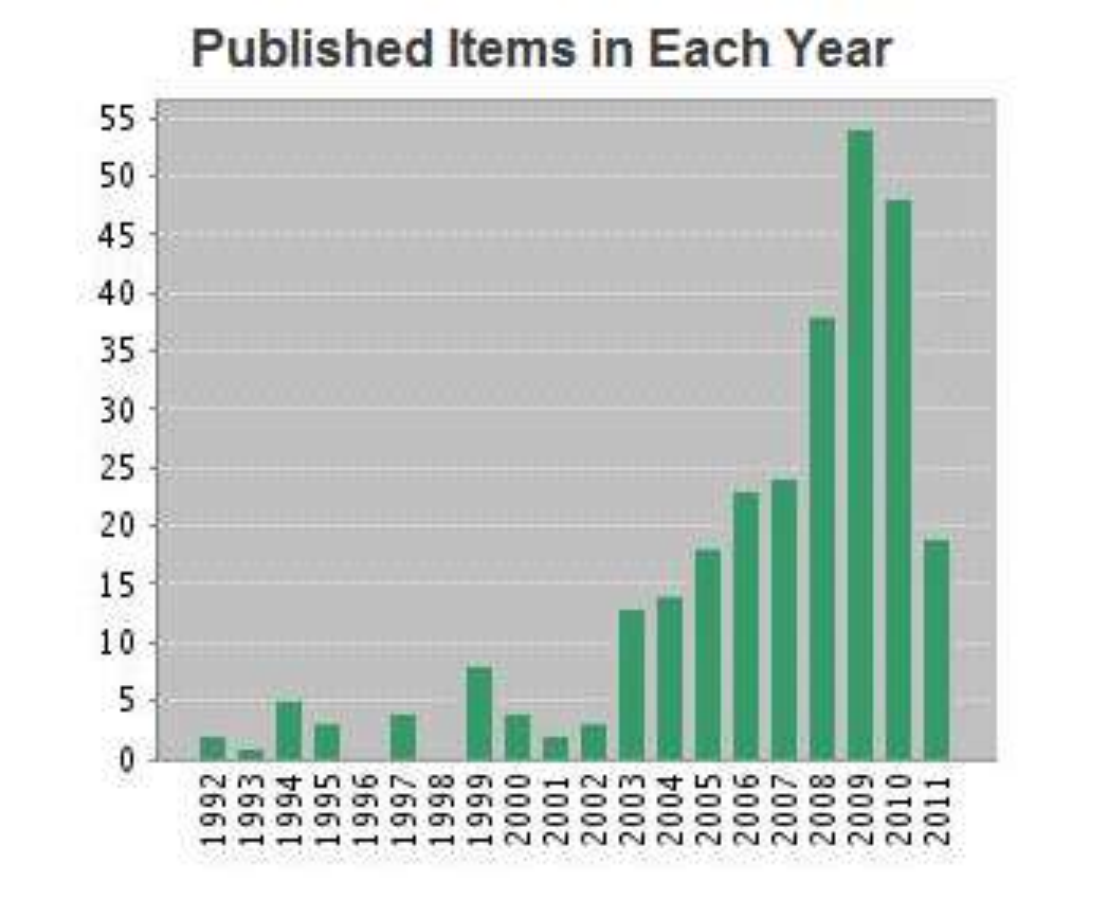
Source: Web of Science

SDI Research Years



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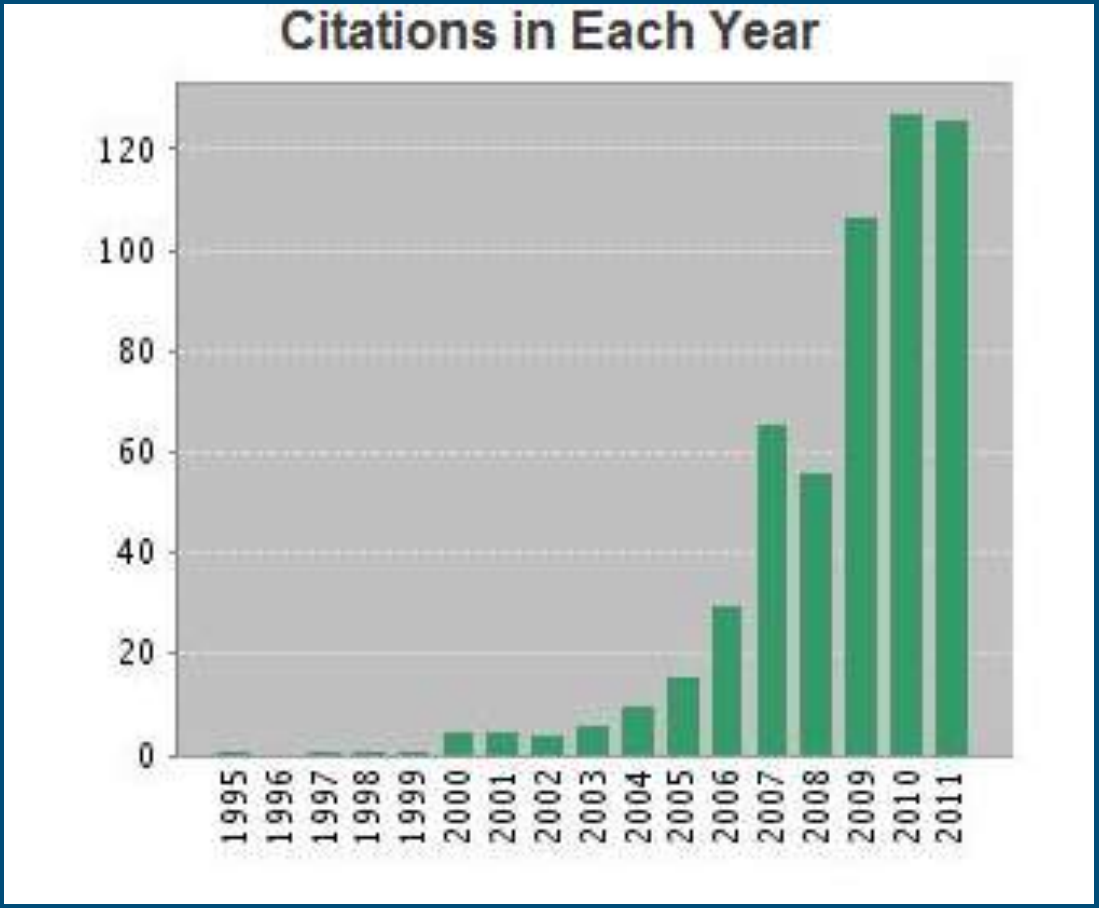
Source: Web of Science

SDI - Research citations



Source: Web of Science

SDI Research in NL (examples)

- Understanding the Phenomena
  - Spatial data sharing (PhD Omran)
  - Policy and organisation (PhD van Loenen)
  - Narratives for SDI (PhD Koerten)
  - Cooperation (PhD Castelein (on going))

- Assessment
  - Clearinghouse assessment (PhD Crompvoets)
  - Multi view assessment (PhD Grus)
  - Budget (PhD Lance)

Research discussion

- What are the main challenges for SDI research?

Reflection on SDI research

- SDI research is difficult due too:
  - The object is not crisp and dynamic
  - Diversity of methods
  - Research base is limited
  - What is really unique in SDI?
- Experience with MSc thesis

Main aspects until now

- Technical aspects and
- Try to understand the phenomena
  - Models and CAS
  - Assessment

Future line

- The functioning of SDI as an integrated social technical system.
- The Use of SDI in society

Thank you for your attention

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