

eScience

Cees de Laat

EU

SURFnet

BSIK

NWO

University of Amsterdam

TNO
NCF



What is it about...

- International Collaborative multi-disciplinary Science
- System level understanding
- Massive data processing
- Computationally intensive modelling simulation
- Visualization & interpretation
- Development of ICT methodologies for doing science



e-COAST

e-Biobanking

**e-Food &
Green
Genetics**

e-BioScience

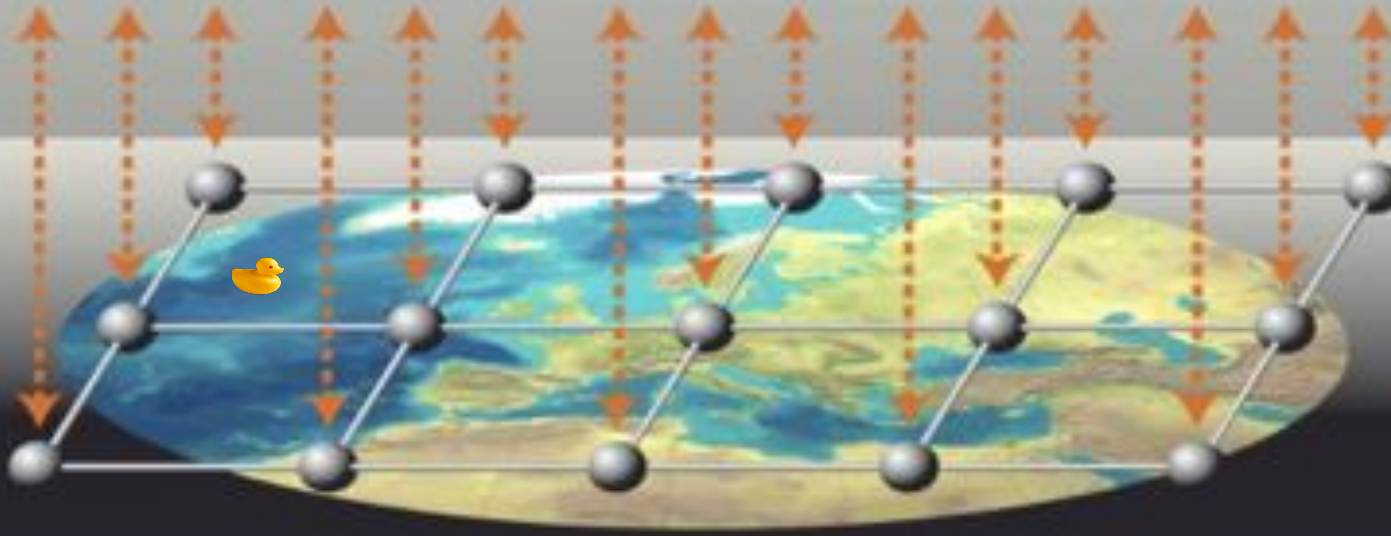
e-Ecology

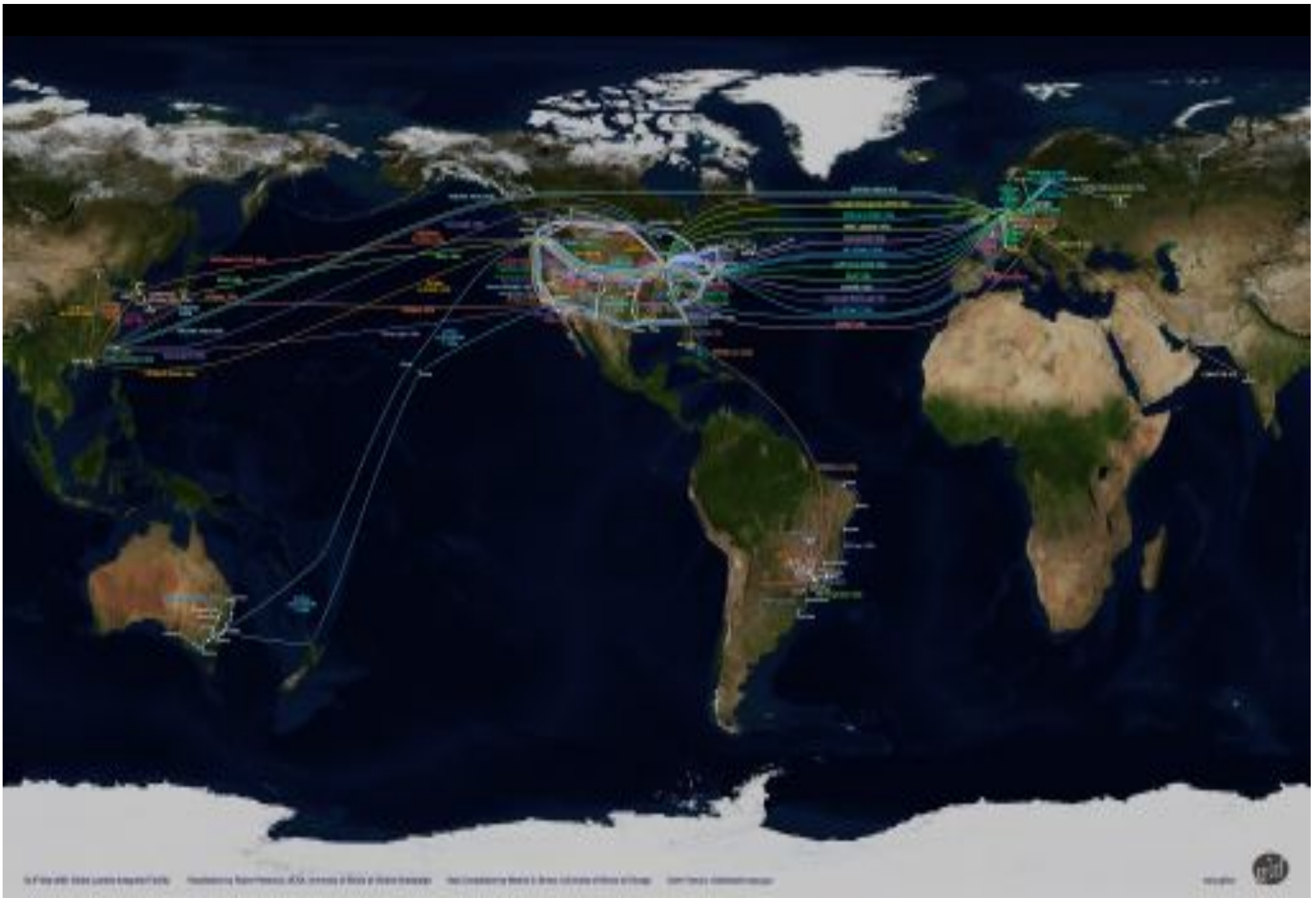
**e-Data-
intensive
sciences**

.....

**Virtual Laboratory
generic e-Science services**

**High Performance & Distributed Computing
Web & Grid services**

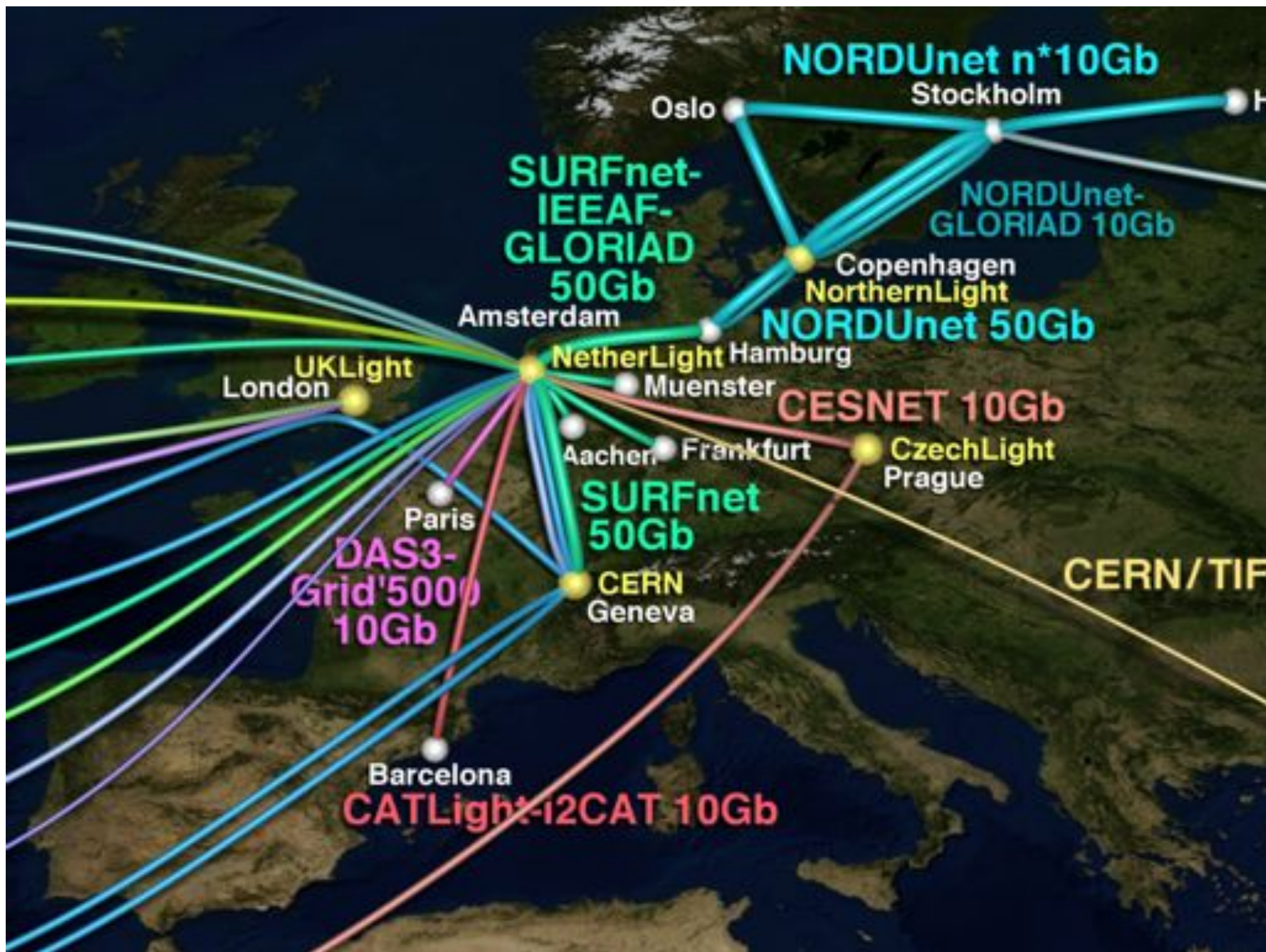




GLIF 2008

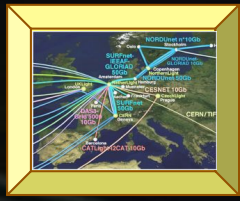
**Visualization courtesy of Bob Patterson, NCSA
Data collection by Maxine Brown.**





•VIZ

- DataExploration
- RemoteControl
- TV
- Medical
- CineGrid
- Gaming
- Conference



•DATA

- Management
- Backup
- Mining
- Web2.0
- Media
- Visualisation
- Security
- Meta



NetherLight

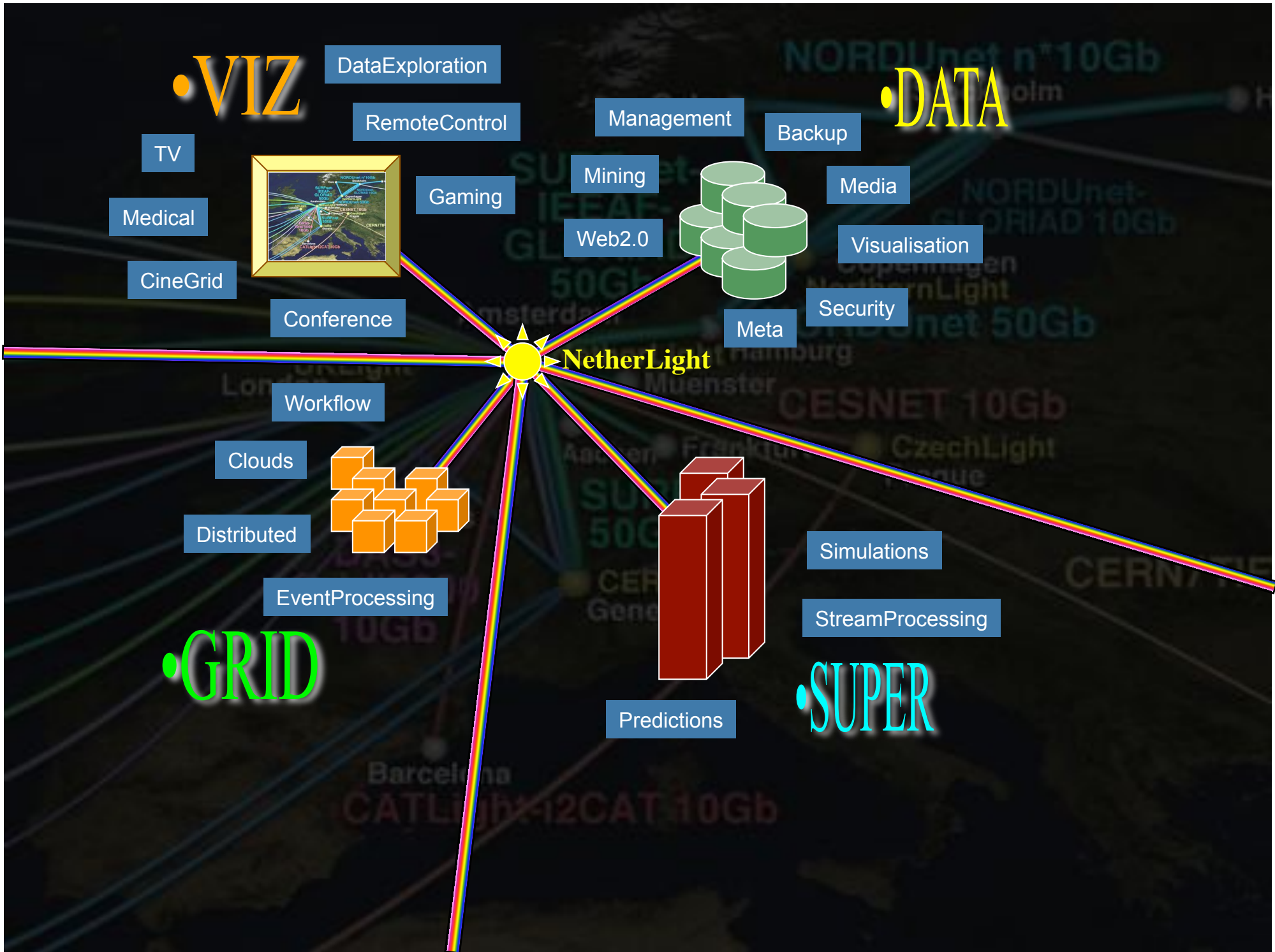
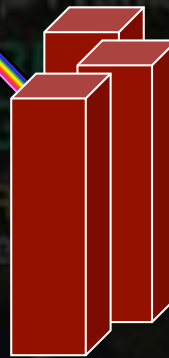
•GRID

- Workflow
- Clouds
- Distributed
- EventProcessing



•SUPER

- Simulations
- StreamProcessing
- Predictions





IJKDIJK

300000 * 60 kb/s * 2 sensors (microphones) to cover all Dutch dikes



Sensor grid: instrument the dikes

First controlled breach occurred on sept 27th '08:



FlySafe: development of bird avoidance models

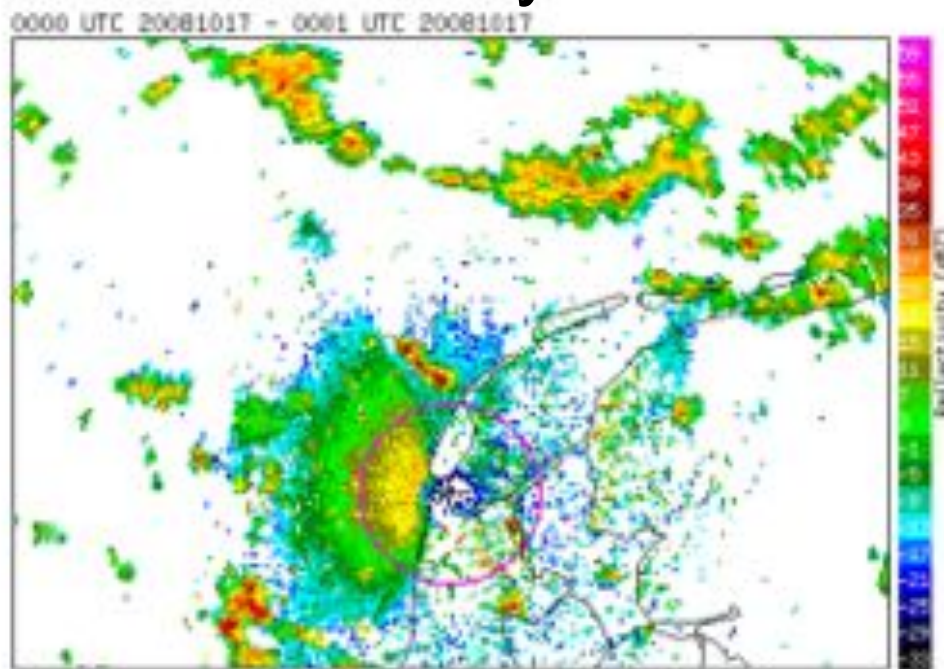




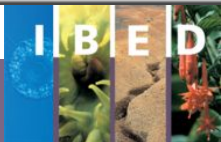
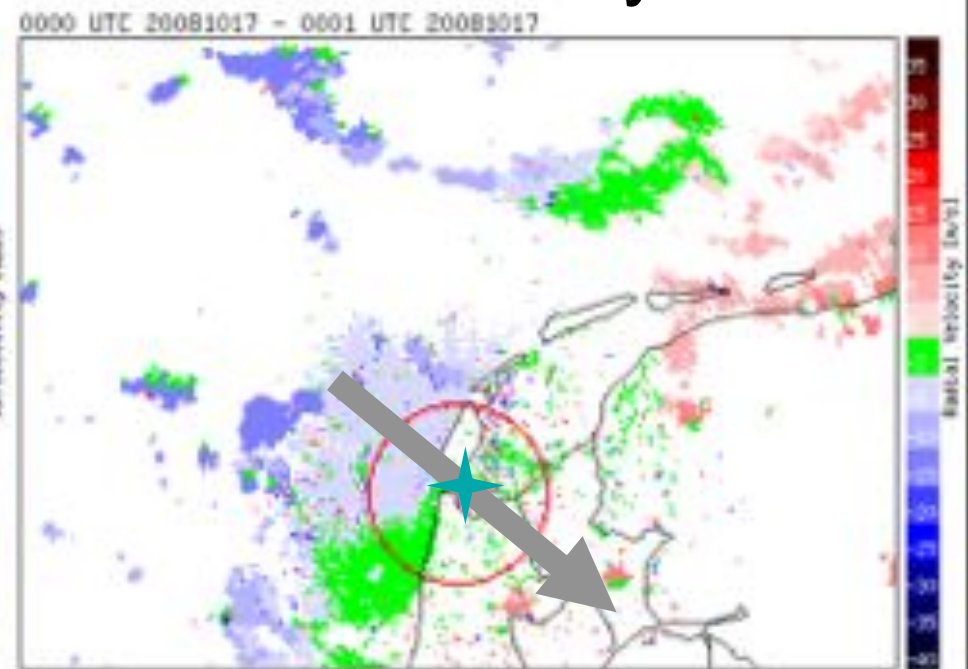
BMSoS building blocks

Doppler weather radars (6GHz)

reflectivity factor



radial velocity



BMSoS building blocks

UvA- GPS systeem

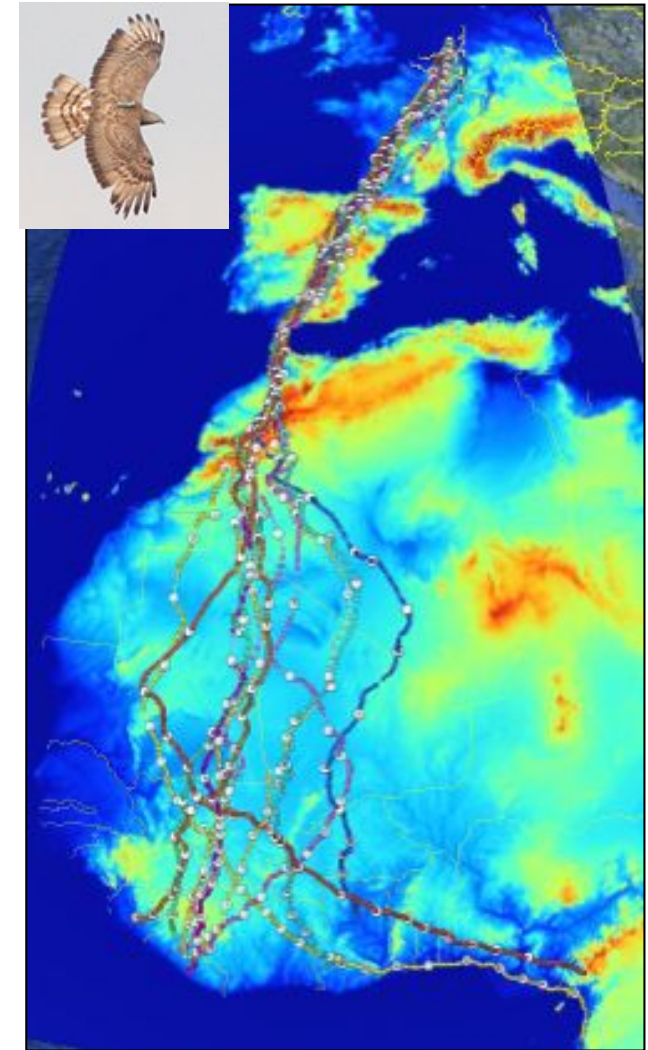
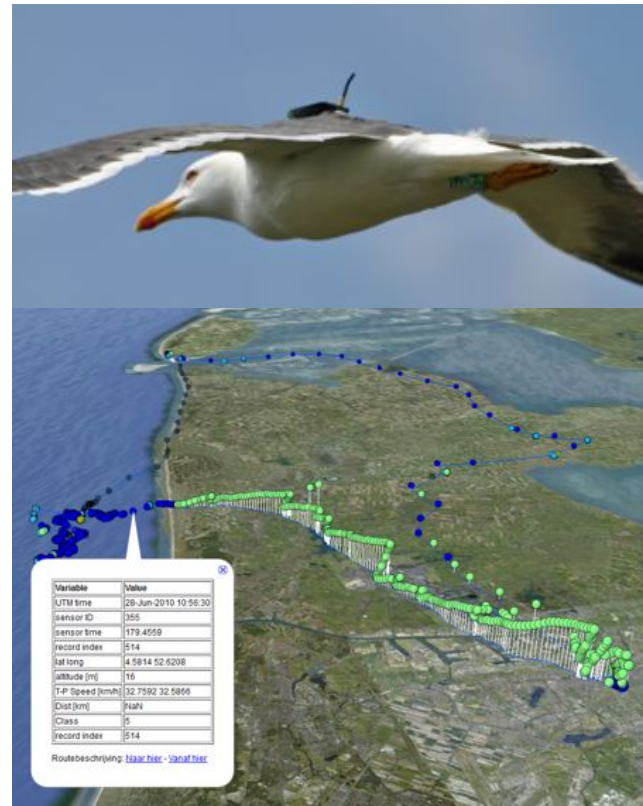
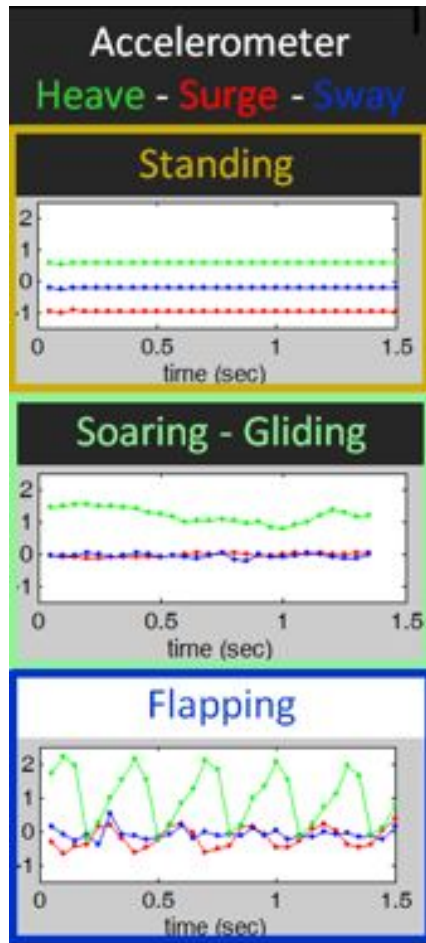




Image © 2010 Aerialmap.com
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Date

Travel

Travel **Flights** Hotels Deals Destinations Resources

Flight search **Flight results** Flexible search

Show all

1-15 of 447 results

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STOPS

- Non-stop \$496
- 1 **\$347**
- 2+ \$596

TIMES

View in grid

Leave: Depart | Arrive

06:00a 9:00p

Return: Depart | Arrive

12:30a 11:50p

AIRLINES

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- Alaska \$468
- American \$496
- Continental \$436
- Delta \$389
- Frontier \$615
- JetBlue \$421
- Spirit \$104

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Fri, 12/10 - Sat, 12/18 · 1 adult · Economy · [Change search](#) · [Track fares](#)

PRICE PREDICTOR

Tip: Wait
Fares dropping or steady

Confidence: 68%
[Details & fare history](#)

FARE HISTORY



Price*	Airline	Airports	Leave - Arrive	Stops Duration
\$347 Select	AirTran	LGA>LAX	6:30a - 11:11a	1 7h 41m econ
		LAX>LGA	11:56a - 10:00p	1 7h 4m econ
Book with: \$347 airtran.com - \$347 orbitz.com				
\$353 Select	AirTran	LGA>LAX	6:39p - 11:30p	1 7h 51m econ
		LAX>LGA	11:56a - 10:00p	1 7h 4m econ
Book with: \$353 airtran.com - \$353 orbitz.com				

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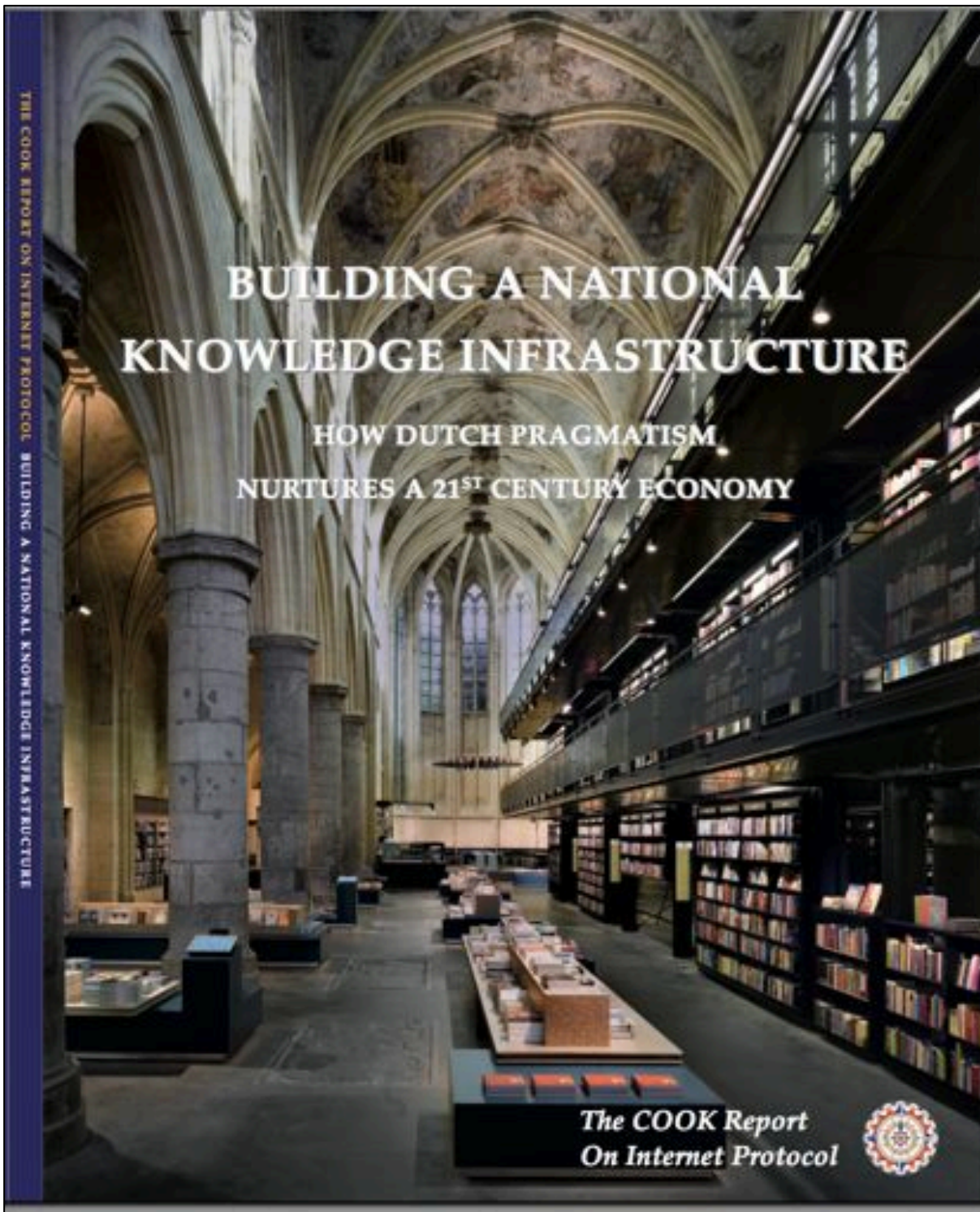
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Questions ?

CookReport
feb 2009 and feb-mar 2010

november '08
interview with
Kees Neggers (SURFnet),
Cees de Laat (UvA)

and furthermore
on november '09

Wim Liebrandt (SURF),
Bob Hertzberger (UvA) and
Hans Dijkman (UvA)

BSIK projects
GigaPort &
VL-e / e-Science



ext.delat.net