

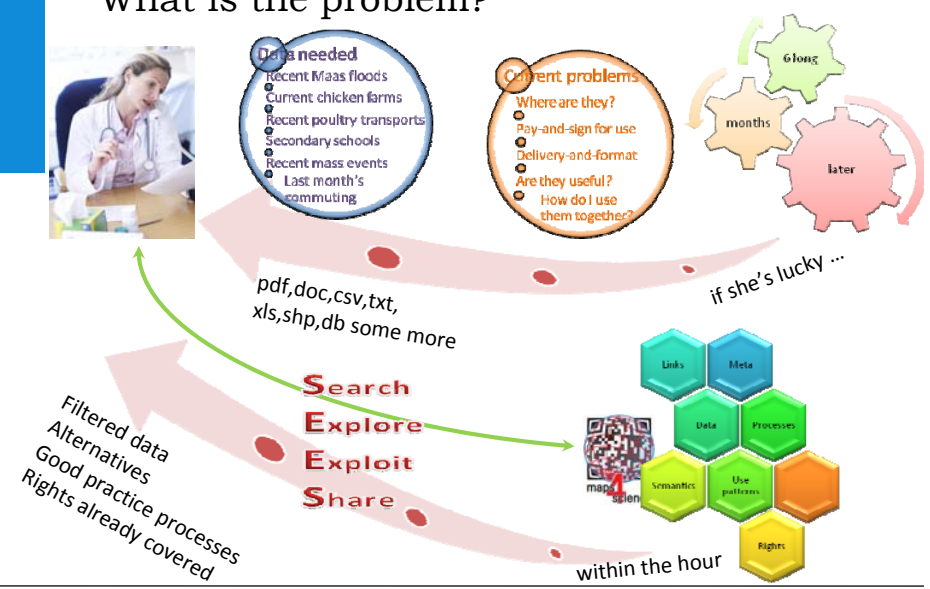


Proposal large-scale research facility (GOF)

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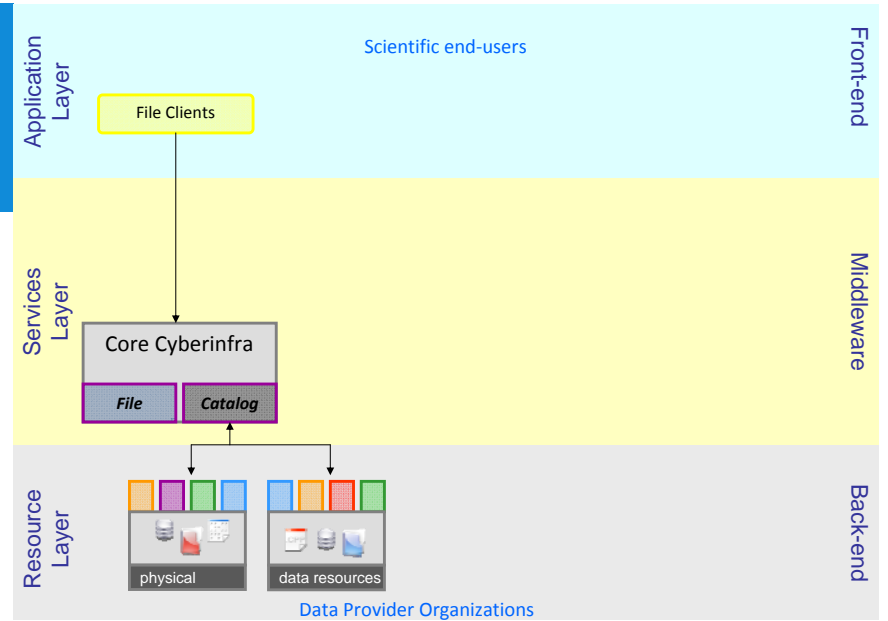
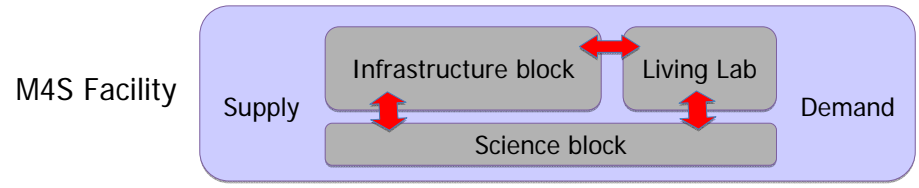
Trial interview, 13 December 2011, Geonovum, Amersfoort

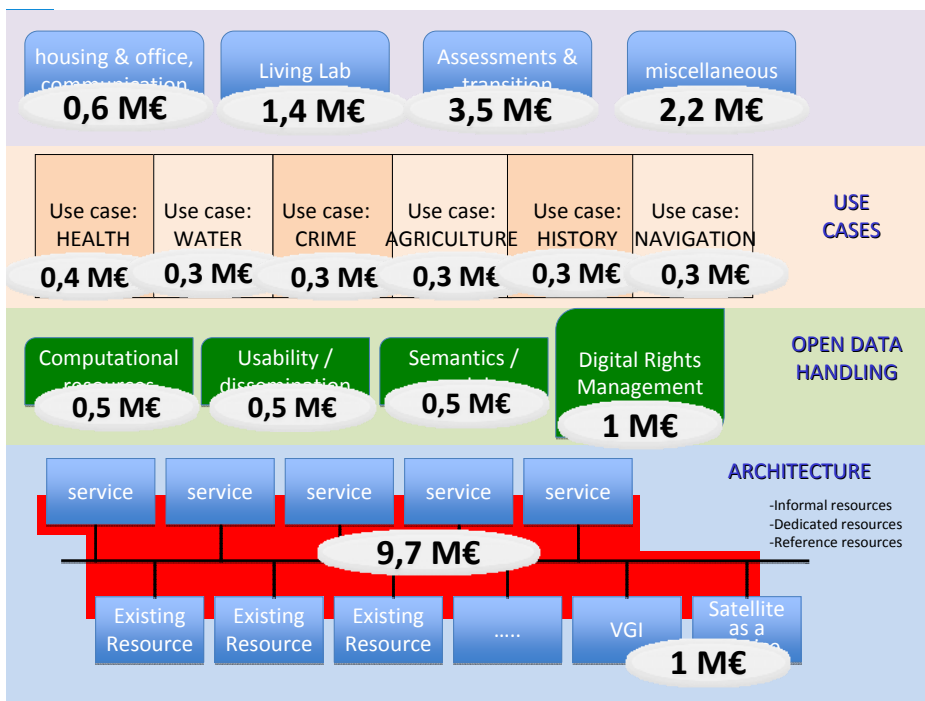
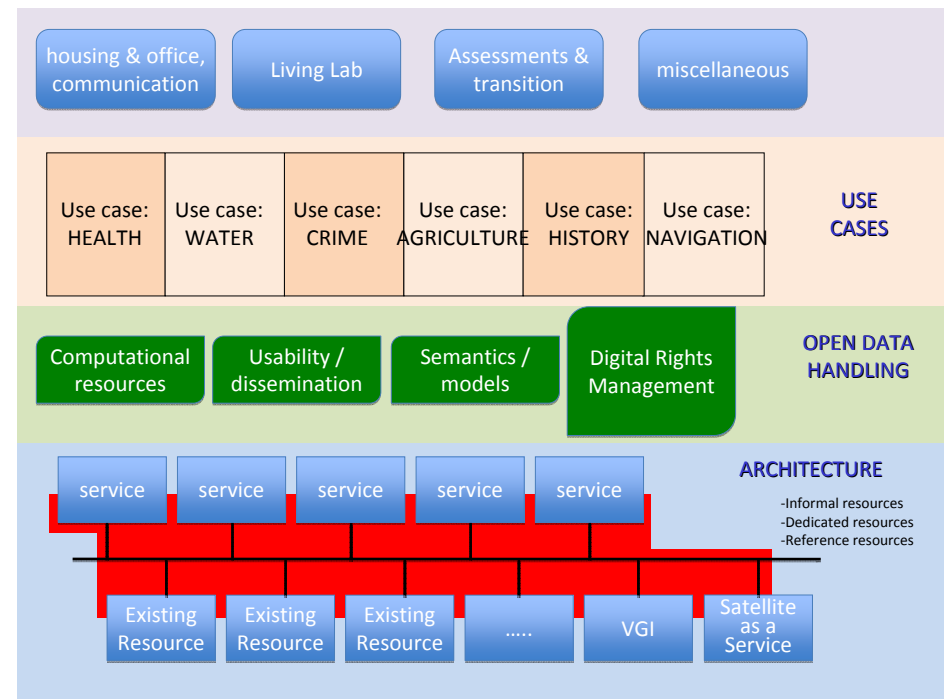
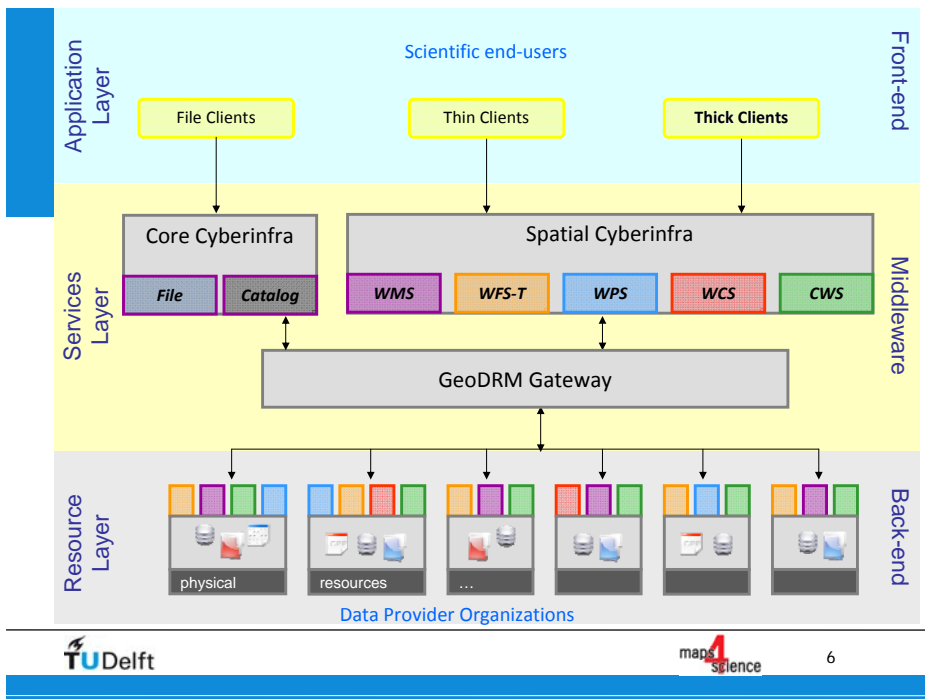
What is the problem?



Maps4Science solution: Intelligent single point of web access

- Connecting 10 spatial libraries
- Linking resources through location
- Shared infrastructure for faster&better use of more&connected data
- Easy access and on-demand delivery
- Standardisation / Interoperability
- Preparing for Tsunami of Open Data
- Science breakthroughs through unexpected use of linked resources





Scientific breakthroughs: GI-science itself

- NL at moment in top-5 GI Science
- Materialize in worlds best GII: 3D/time/scale, semantics, upload, large data, remote processing, data policy, ...
- Foreseen GI research topics
 - Architecture, resources and standards
 - Usability and dissemination modes
 - Management of very large data sets
 - Semantics of GI
 - Services, searches and optimization
 - Standardized data models and data quality
 - Volunteered GI and citizen science
 - GII-assessment
 - Satellites as a service



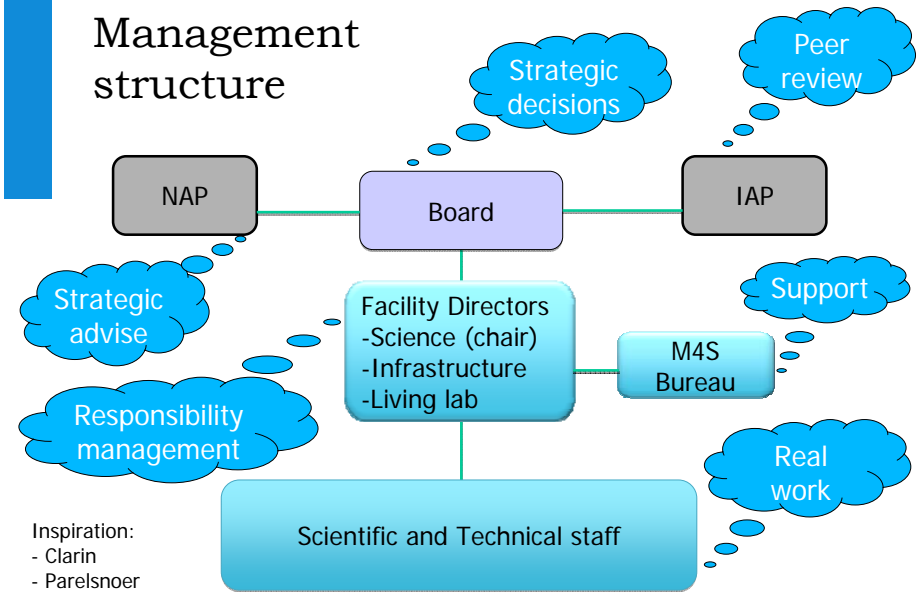
→ NL will compete with UK (EDINA) and USA (EarthCube) for world top

Focus and urgency in M4S

- Susan Baartman needs help:
 - Intuitive map-based search facility to data resources (not maps only)
 - rich and up-to-date data pool
 - no-hassle offerings: data at the fingertips
 - smart matching of needs and resources
 - almost silent support for data transformations
 - turn-around time: 6 months => 1 hour
 - combinatorial advice: options of how to correlate
 - do-it-yourself professional map production
- This will be provided by Maps4Science and enabling scientific breakthroughs in Health research (same for others: Water, Crime, Agriculture, History,...)



Management structure



Business case

- Libraries actively involved
- Partners contribute where possible (data, experience, software...)
- No doubling of activities, developments
- Central coordination TU Delft (standardization)
- Hardware decisions not too early (and phased), due to lower prices in the future
- Lean and mean Maps4Science support bureau
- Timing
 - **Two years development** (first version) Maps4Science Facility
 - **Five years production** of new facility (continuous improvements)
 - Existing (local) facilities are first two years called Maps4Science

Future (after the 2+5 years) facility

- Currently, all partners spend resources (staff, money) on local facilities (already for many decades) → **there is a geo-data need**
- Boards (rectors, deans, directors) have indicated to provide at least 25% own funding during project → **need confirmed**
- Use of facility should be well proven during lifetime project (ambition: more than **10 times more geo-data use** by scientists)
- Various models for future funding investigated:
 1. Partners (and supporters) organization will continue
 2. As infrastructure (users pay for water and pipes)
 3. Content suppliers or other interested parties (Google model)