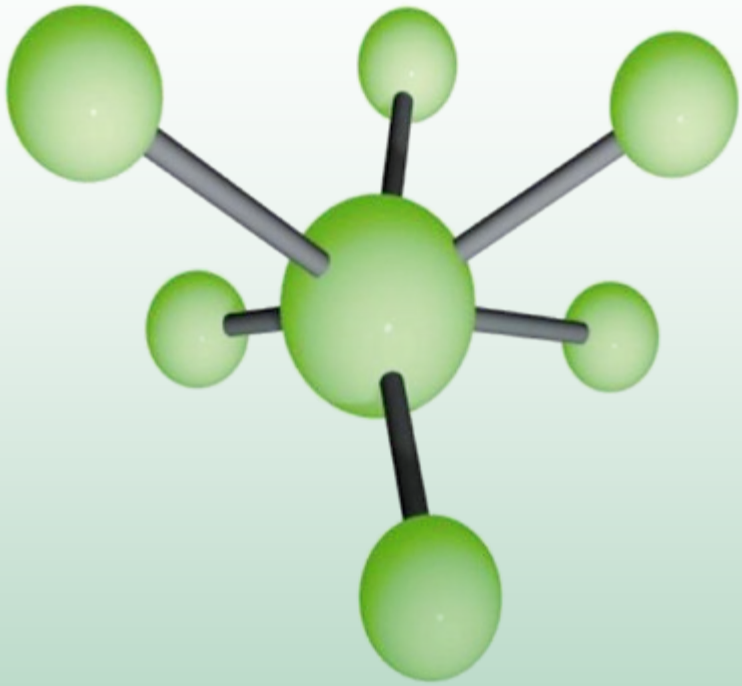
S@NY

Sensors Anywhere

FP6-033564



NCG Seminar on SWE
Utrecht, 1 February 2007

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Patrick Jacques, Spacebel

SANY – Sensors Anywhere

SANY is an
Integrated Project
(contract number 0033564)

co-funded by the Information Society and Media DG of the European Commission
within the RTD activities
of the
Thematic Priority Information Society Technologies”

SANY Partnership

Project acronym	**SANY**
Project reference	**IST-2006-033564**
Project type	**Integrated Project**
Start date	**01/09/2006**
Duration	**36 months**
Budget	**11,2 M€**
EC contribution	**7,0 M€**

SANY Objectives

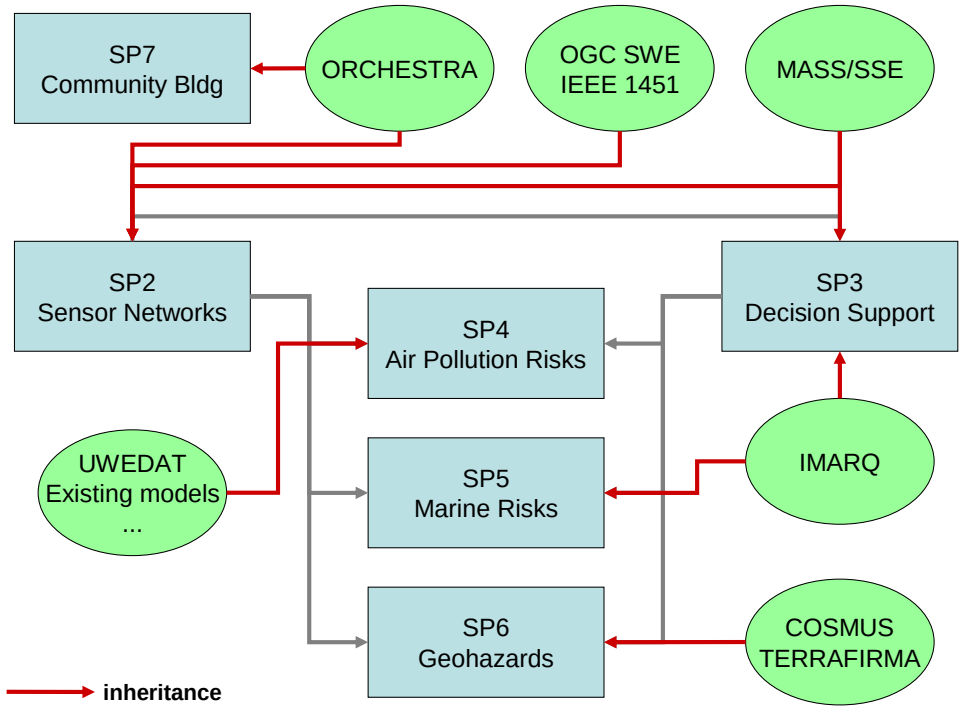
- SANY addresses in-situ sensors and sensor networks and pursues five major objectives:
  - Specify a **open architecture** for all kind of fixed and moving sensors, sensor networks, and other sensor-like sources of information -> **Standard**
  - Develop **advanced data fusion and DSS** services -> **Standard**
  - Assure that a **reference implementation** of the architecture is **operational** as GMES building block in **2008**
  - Assure that the new **architecture is generic** and provides added value for users and providers
  - Assure that the **outcome of SANY is accepted** by end users and **international organisations to a** future standard applicable to GMES

SANY does not address

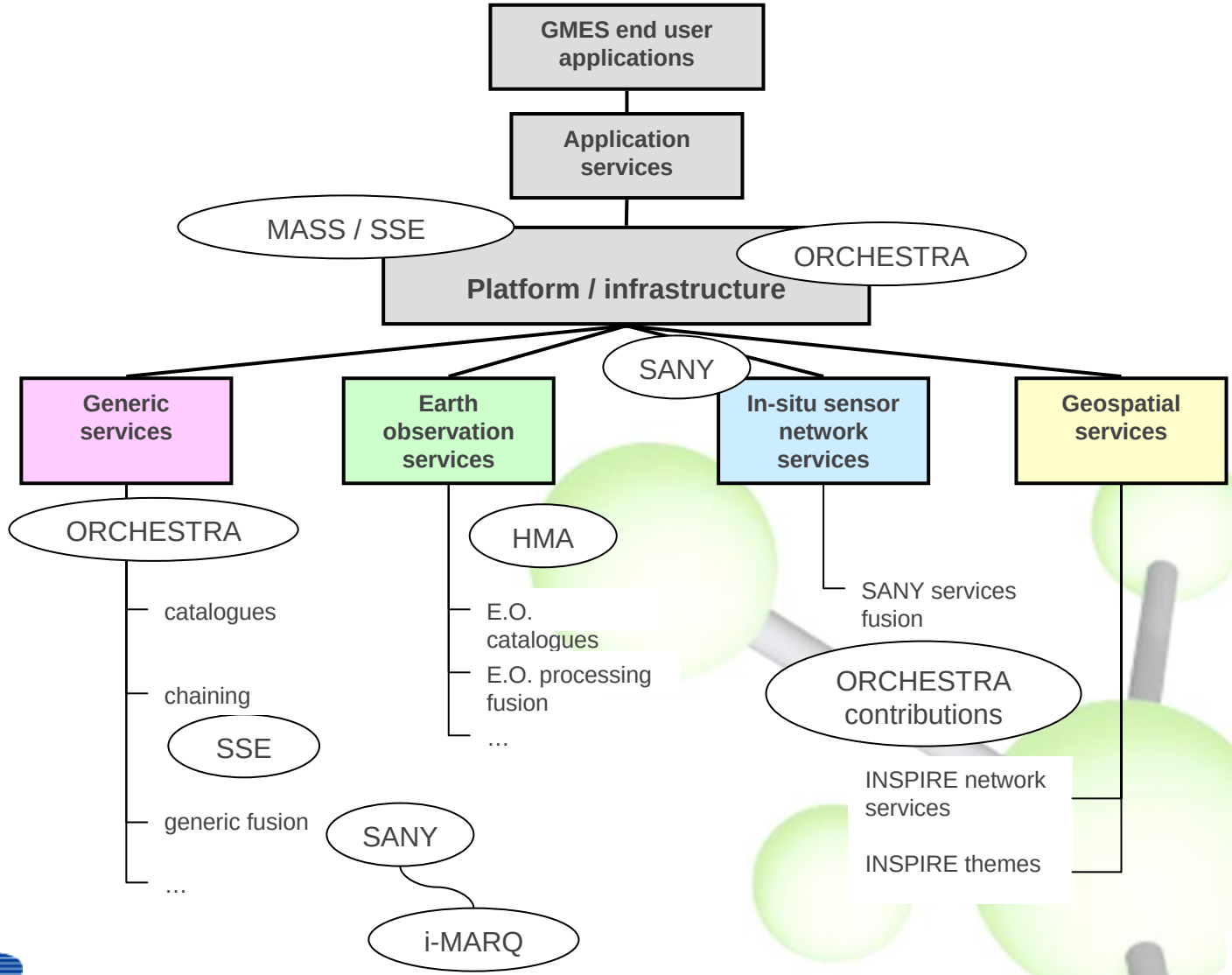
- **Transducer technology**
  - SANY shall use state of the art transducer technology.
- **Satellite and HAP technology**
  - SANY is only interested in assuring the interoperability with these sources of sensor data
- **Communication technology and protocols**
  - SANY services and validation applications shall use state of the art communication technology and protocols (e.g. wireless networking components).

SANY Standardization approach

- Build upon existing technology
  - ORCHESTRA IP,
  - MASS/ SSE,
  - OGC SWE & IEEE 1451
- Public availability of the architecture specifications
- Standardization approach through Open Geospatial Consortium



Link to GMES


GMES end user applications
Application services
MASS / SSE
ORCHESTRA
Platform / infrastructure
SANY
Generic services
Earth observation services
In-situ sensor network services
Geospatial services
ORCHESTRA
catalogues
chaining
SSE
generic fusion
SANY
i-MARQ
...
HMA
E.O. catalogues
E.O. processing fusion
...
SANY services fusion
ORCHESTRA contributions
INSPIRE network services
INSPIRE themes

SANY Validation sub-projects

- Air pollution (immision / emission)
  - Plug & measure
  - Cross-border data & services
  - Online dispersion modelling
- Marine risks (coastal water management)
  - Integrating moving & stationary sensors
  - Integrating external sensor-like data sources
  - Extensive use of fusion technology
- Geo hazards (building instability)
  - Rapid deployment
  - Self configuration

Expectations

- Better understanding of processes related to natural and man-made disasters. Facilitating risk management- and prevention tasks, by heavily improving:
  - **Interoperability** of *data and services* across man-made administrative and environmental domain borders.
  - **Easy and simple** *data and services* **discovery** mechanism.
  - **Easy and simple access** to *all relevant data* sources
  - **Robust sensor networks** capable of surviving the disasters
  - **Rapid deployment** of new sensor networks when ever needed
  - Proficient and reliable way of building **relevant indicators** from heterogeneous data sources (including models)-> data fusion.

More Information

Public deliverables will be available for download on SANY-IP.EU web site!

Subscribe to SANY newsletter!!!! ☺