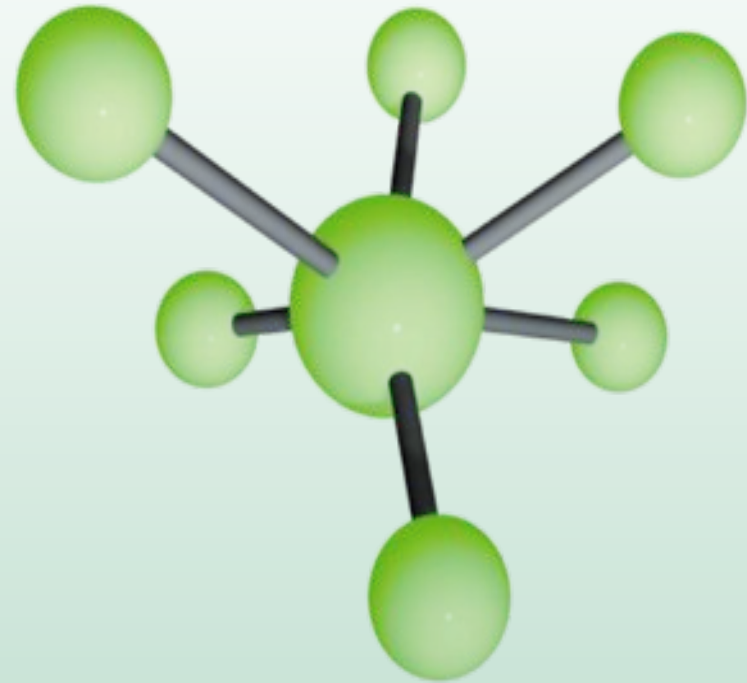


S@NY

Sensors Anywhere
FP6-033564



Cascading Sensor Observation Service
GEOSS Sensor Web Workshop
2008-05-15, Geneva

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SANY is an
Integrated Project
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Society Technologies”



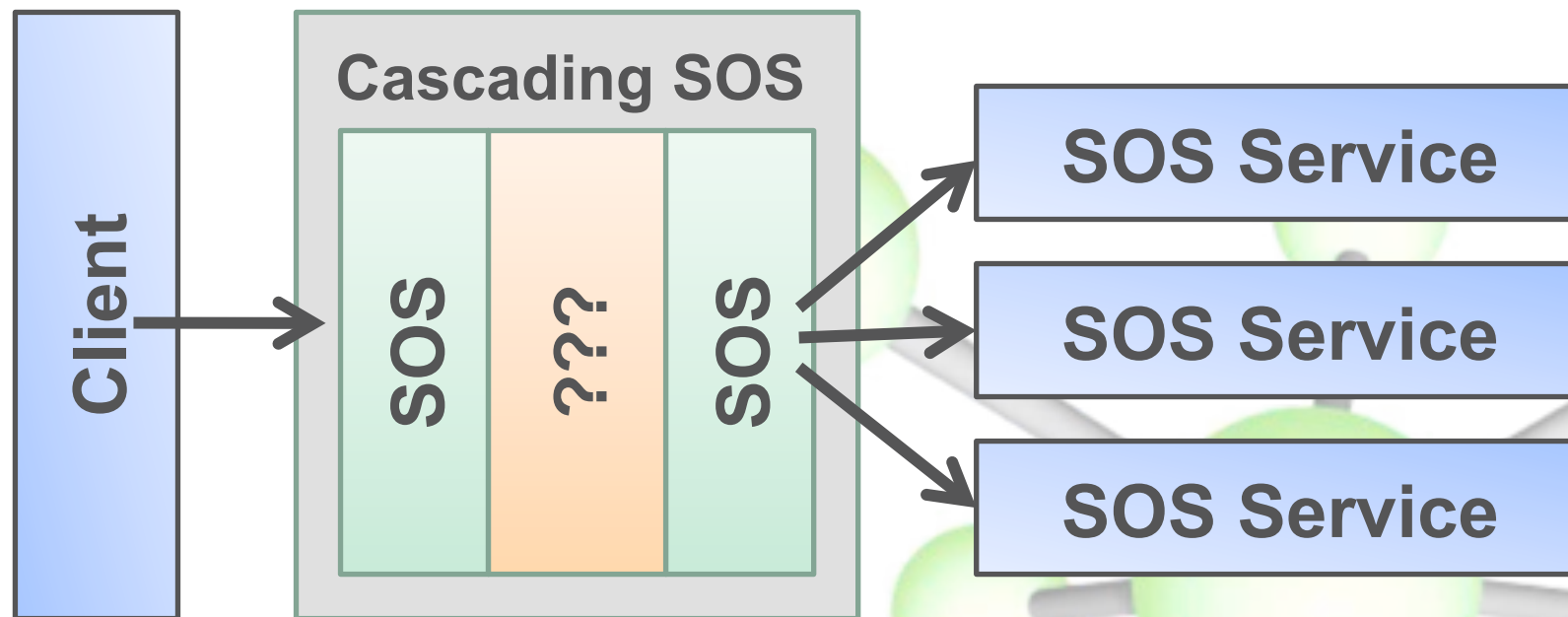
Project acronym	SANY
Project reference	IST-2006-033564
Project type	Integrated Project
Start date	01/09/2006
Duration	36 months
Budget	11,2 M€
EC contribution	7,0 M€



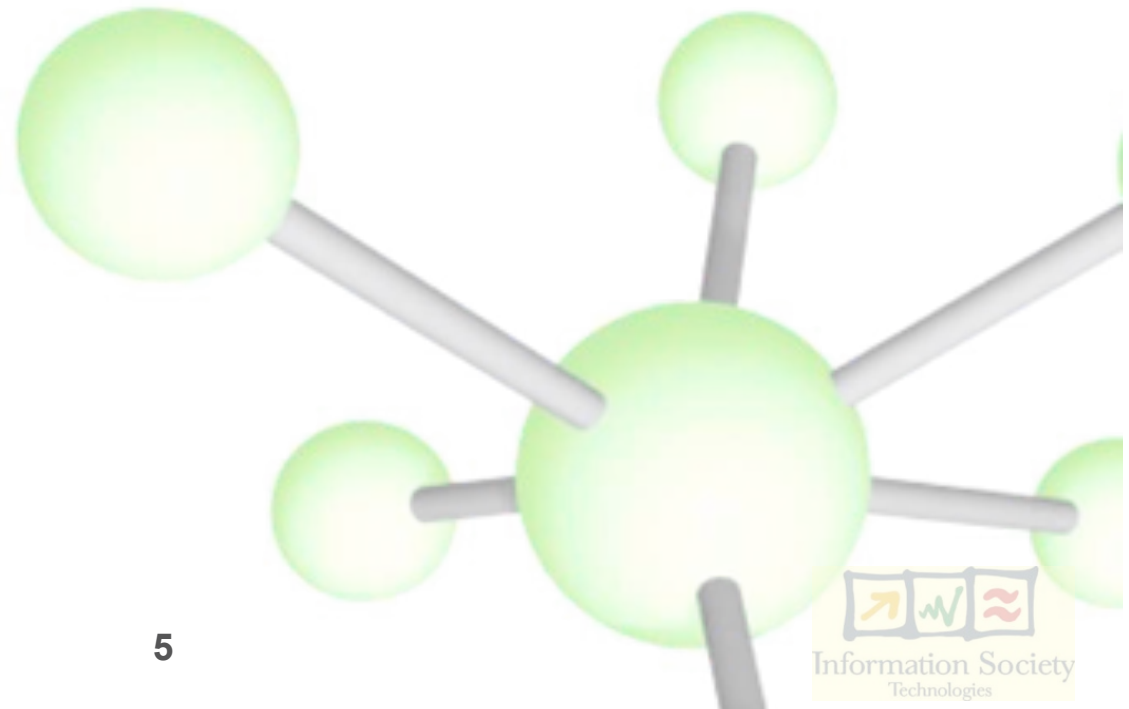
Eidgenössische Technische Hochschule Zürich
Swiss Federal Institute of Technology Zurich



- ✱ A service with a SOS interface
- ✱ Data source: also SOS services



- ✱ Use-Cases
- ✱ Plans for implementation
- ✱ Current status



- ✱ Combine data from different sources
 - For easier processing
 - To provide a uniform view to client applications
 - To select viewpoints that are relevant for a specific application scenario

„Rearranging Data“

- ✱ Translate between different SOS implementations
 - SOS specification versions
 - Implementation of optional parts of the specification
 - Different result models, response modes, etc.

„Protocol Transducer“

- ✱ Publish a subset of internally available data
 - Data may/will be available via SOS inhouse
 - Not everything is for the public
 - Provides a restricted „view“ to the data
 - No copying/replication necessary

„Data Publisher“

* Cache data from remote locations

- For processing, analyzing, modeling, etc
- For faster access
- To improve fault-tolerance

„In-house Cache“

- ✱ Application scenario:

- Each sensor (group) has a SOS interface

- ✱ Central sensor data store for a sensor network

- Replicates and „caches“ / stores data from sensors
 - Provides reliable, managed data store (backup, availability, performance, etc)

„Central data store“

- ✱ Extension of the first UC („Rearranging data“)
- ✱ Not only rearranging, but also processing
 - Aggregating, calculating derived data, etc.
 - Using an algebra on time series
 - On the fly processing (no ETL cycles)

„Value-added SOS“

- ✱ Step-by-step approach
- ✱ Start with a simple cascading SOS with basic SOS implementation and no additional functionality, add pieces one-by-one
 - Caching
 - SOS protocol details
- ✱ Development based on 52° North SOS service (Java 2 EE)

- ✱ First prototype nearly finished
- ✱ Available at <http://enviro5.arcs.ac.at/SOSsrv/sos>
- ✱ For testing purposes only!

