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"
<table>
<thead>
<tr>
<th><strong>Project acronym</strong></th>
<th>SANY</th>
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<tbody>
<tr>
<td><strong>Project reference</strong></td>
<td>IST-2006-033564</td>
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<tr>
<td><strong>Project type</strong></td>
<td>Integrated Project</td>
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<tr>
<td><strong>Start date</strong></td>
<td>01/09/2006</td>
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<tr>
<td><strong>Duration</strong></td>
<td>36 months</td>
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<td><strong>Budget</strong></td>
<td>11,2 M€</td>
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<td><strong>EC contribution</strong></td>
<td>7,0 M€</td>
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The scene

- a European Environment Monitoring and Risk Management Infrastructure
- Syntactic and semantic interoperability
- Integration of existing sensor technologies
- SANY (Sensors ANYwhere)
- Standardised Interfaces
- OGC Sensor Web Enablement (SWE)
The Prototype

SensorSA DAS (Station Computer)
- Crossbow Sensor Network (ZigBee)
- Intelligent Measurement Interface (CAN)
- Soldata Microns (ZigBee)
Tasks
- Sensor Data provision
- Configuration
- Planning
- Notification

Layers
- Client
- Sensors
- SensorSA DAS

Client
- GUI (DataGraph, SSE)
- Data processing (eg. Annotation)
- Model, etc.
**Interfaces**
- Sensor Observation Service
- Sensor Planning Service
- Sensor Alert Service
- Web Notification Service

**Sensor driver interface**
- Sensor Compatibility (Cameras, UV Spectrum Analysers, CPU temperature)
Plug and Measure Adapter

- **SensorSA DAS Sided**
  - USB (Communications Device Class –Mode, recognised as COM-Port)
- **Sensor sided:**
  - RS-232
  - Voltage Encoded Input 0 .. 10V
  - Current Encoded Input 0 .. 20mA
  - 5V Output (as sensor power supply)
- **SensorML (Sensor-Markup-Language Document)**
  - Sensor Identification
  - The initially programmed SensorML queried by and transferred to the DAS.
Plug and Measure

- Event (new sensor)
- Get sensor description (SensorML)
- Load driver (plugin)
- Register sensor
- Task sensor
- Get observation
Use case