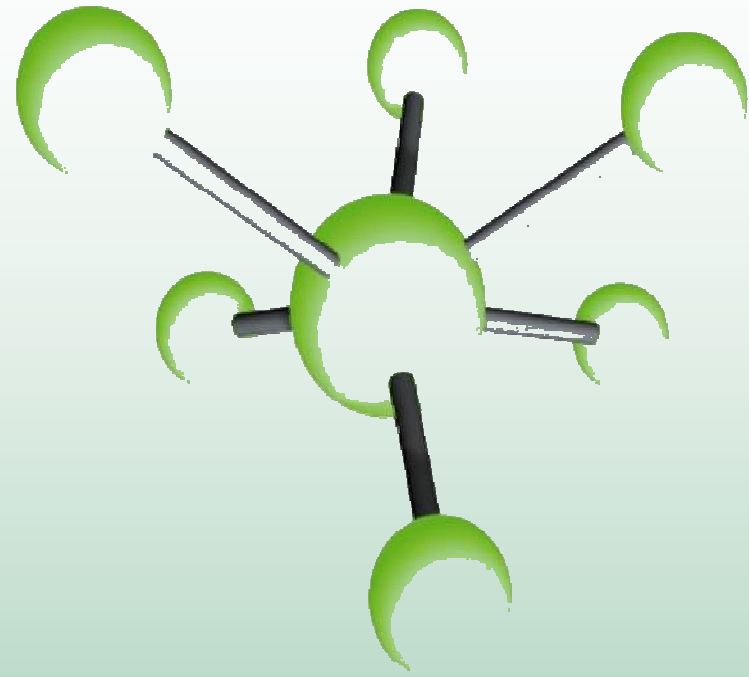


# S@NY

Sensors Anywhere  
FP6-033564

SWE Enabled Station Computer  
Waageningen  
19.11.2008



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SANY is an  
Integrated Project  
(contract number 0033564)

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Society and Media DG of  
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of the  
Thematic Priority Information  
Society Technologies”



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



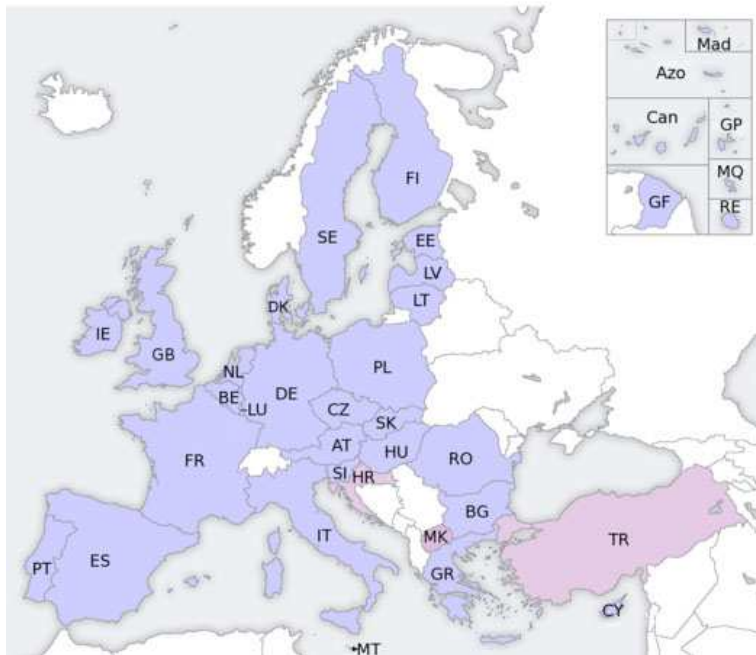
**Fraunhofer** Institut  
Informations- und  
Datenverarbeitung



Eidgenössische Technische Hochschule Zürich  
Swiss Federal Institute of Technology Zurich

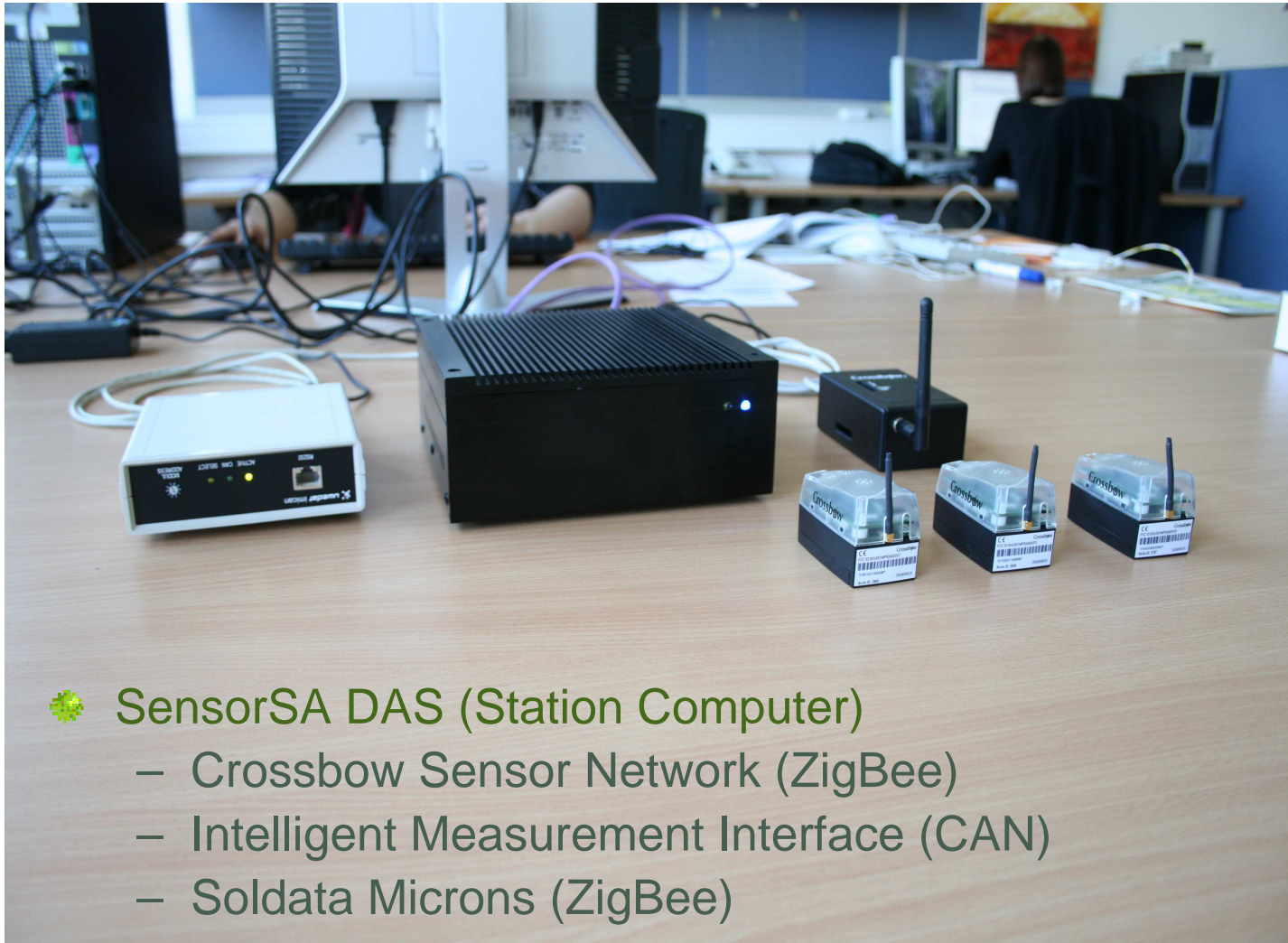


Information Society  
Technologies



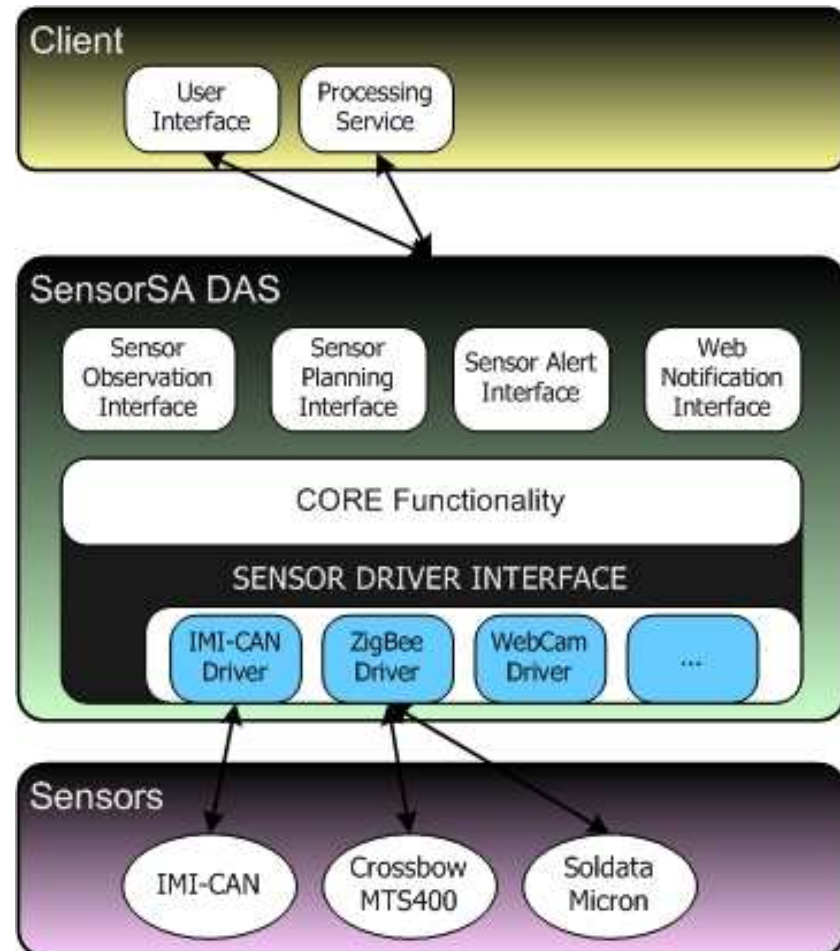
- ✱ a European Environment Monitoring and Risk Management Infrastructure
- ✱ Syntactic and semantic interoperability
- ✱ Integration of existing sensor technologies
- ✱ SANY (Sensors ANYwhere)
- ✱ Standardised Interfaces
- ✱ OGC Sensor Web Enablement (SWE)





- ❁ 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.

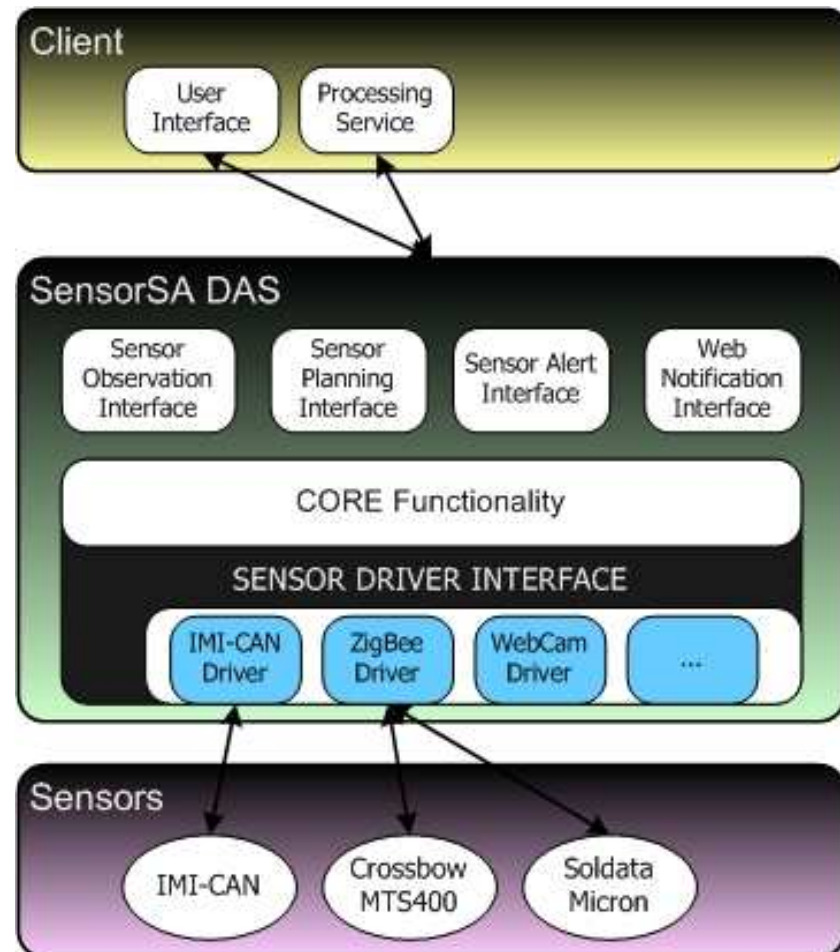


## Interfaces

- 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)

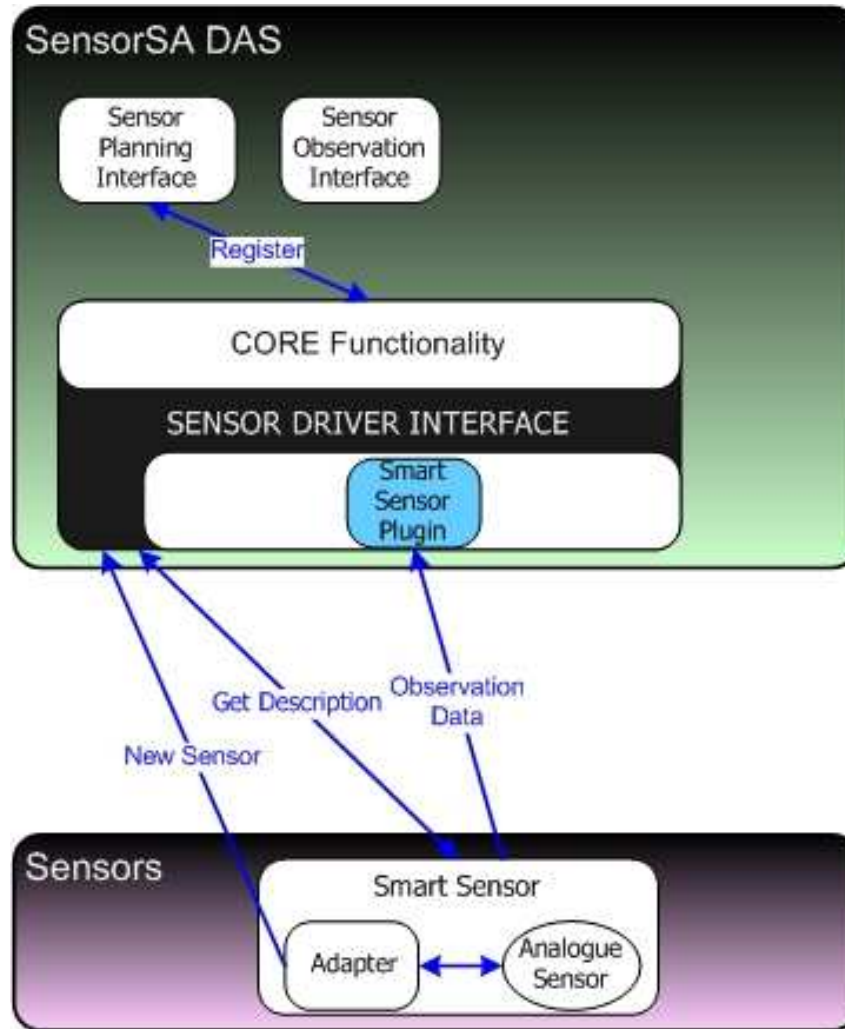
## ✱ Sensor sided:

- 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.





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

