

Internet of Things and Web 2.0

Objective ICT-2009.1.3.
INFO DAY

Internet of Things and Enterprise Environments

Brussels, 18 February 2009

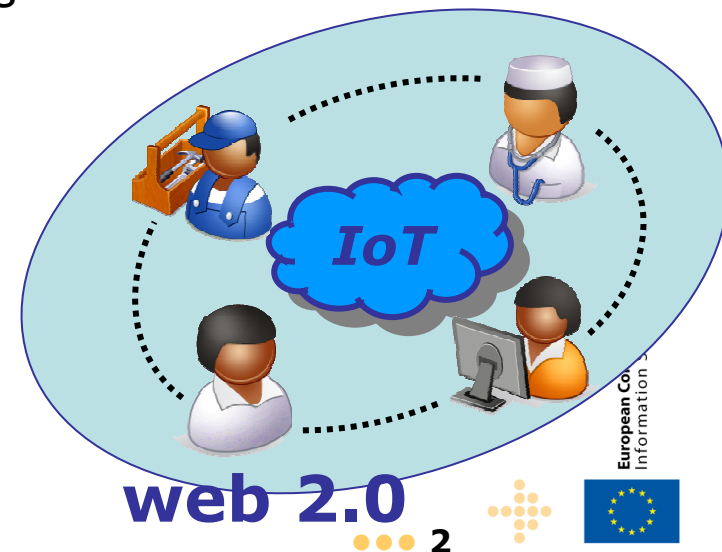
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IoT meets Web 2.0

- Internet of Things:
 - “Traditional” applications: quality in supply chain, production, distribution
 - New opportunities: quality supplied to customers
- Quality given by:
 - Information about internal processes
 - Information shared with partners
 - Information provided to customers
 - Information added by customers
- Objectives
 - Add value and quality by summing up internal and external contributions to product information
 - Make that information accessible and reliable



World of Ends

- IoT is an evolutionary step of the Internet
 - “Intelligent” services built at the top of “dumb” layer
 - The Internet is based on few basic principles (from “World of Ends”, *Doc Searls and David Weinberger*)
 - The Internet isn't a thing. It's an agreement.
 - The Internet is stupid.
 - Adding value to the Internet lowers its value.
 - All the Internet's value grows on its edges
- Use web 2.0 meshups for adding value:
 - Adopt microformats for making information really portable and federable, e.g.
 - RSS/Atom for content distribution about tag readings
 - FOAF for networks of trust about tag information
 - Make interoperable identification and authorization schemes for “using” objects or accessing their information (e.g. use schemes like OpenID and OAuth)
 - Adapt interfaces (in mobiles): widgets and more widgets
 - Filtering capabilities and realtime information distribution



Expected Outcomes

- Working examples and best practices defining:
 - New paradigms for collecting, storing and distributing information about “products”
 - New interfaces for information access in mobiles
- Impacts
 - Aim all information gathering about products and processed at improving the quality perceived by customers
 - Identify which processes actually add value
 - Improve quality in product and services
 - Make consumers more confident and responsible about their choices, eg:
 - choosing environmental friendly products by recommendations of independent experts
 - choosing quality by the feedback of other customers
- Points of attention
 - Handle information overload
 - Privacy: to be built in the services (at a lower levels may hinder interoperability)



Contact details

- Services & Applications Lab
(Istituto Superiore Mario Boella)
- Past projects, expertise:
 - RFID Middleware design and development
 - Food chain tracking
 - Mobile applications, usability
 - Web 2.0 microformats / protocols
 - Fast prototyping of smart objects with embedded RFID readers / tags
 - eHealth, real time monitoring of disabled people
 - Ability of working with SMEs
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