

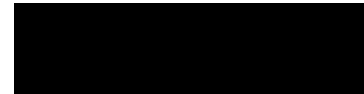


1st STI International Roadmapping Workshop "Semantics 2029"



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How will the world look five years from now - 2014?

- Trends towards 2029:
 - Computing will be more mobile (PDAs) and more ubiquitous
 - We will have first examples of internet of services and first applications will run in the cloud (Mail, Calendar, Word, ...)
 - Information overload will be a more serious problem (people will “drown” in texts, videos, images, triples, ...)

Which set of major transformations can we expect from Semantic technologies?

- **Semantic technologies will mature and become more pragmatic:**
 - **Light-weight semantic applications will enter the market (e.g. RDF-based)**
 - **The main purpose of ST will be data integration across service providers + contextualized service/information delivery and consumption**
 - **Steps towards on-the-fly coordination of data and services**
 - **Personalization / contextualization of data and services**
 - **Integration of multimodal data (streams, multimedia, text, ...)**
 - **Services have to find their way to the consumer rather than the other way round**
 - **Semantics for the Masses**
 - **Semantics should emerge as a byproduct of daily work and collaboratively, thus usable in C2C-applications**

Which new application areas could emerge from fusion of Semantics with other technologies and sciences

- „Computing everywhere“:
 - Semantic Technologies + Automotive: Intelligent Assistance in the Car
 - Semantic Technologies + Sensor & Actor Networks: Augmented Reality

- „Tackling global problems“
 - Semantic Technologies + Engineering:
 - resource-aware and sustainable IT
 - Semantic Technologies + Social sciences:
 - information delivery to communities / developing countries / disconnected groups (sensitive to cultural background)
 - Semantic Technologies + Demographic Change:
 - eHealth, ambient assisted living