

The FI-PPP - Industry driven research delivering tangible (industry relevant) technology and measurable socio-economic impact

SAP Research's View



Dr. Joachim Schaper

Vice President EMEA
SAP Research

FI PPP Constituency Event
Nice, March 2010

Agenda



1. Vision: The Future Internet

- Infrastructure
- Global Service Delivery Platform

2. FI PPP

A Holistic Vision of a Future Internet - Critical to the success of a FI PPP



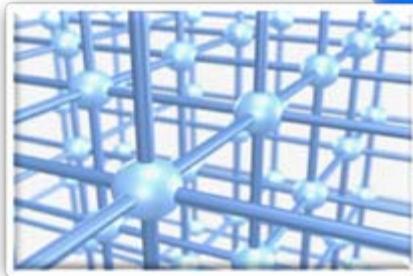
Internet
of Things



Internet
of Services



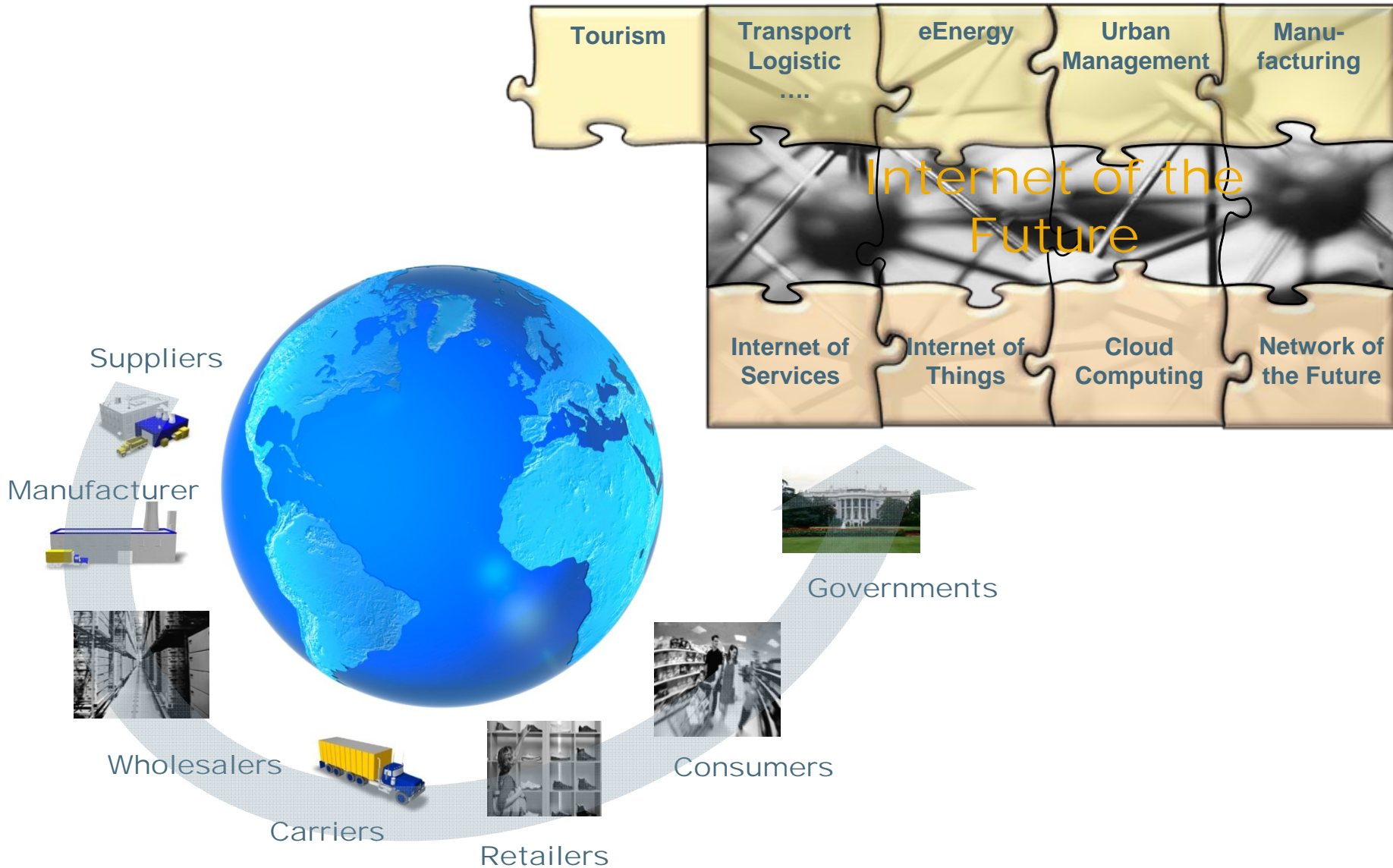
Network of
the Future



Cloud
Computing



Future Internet - Global Infrastructure for a Networked Economy and Smart Applications



Principal Objective of the FI PPP - A Holistic Global Service Delivery Platform



Web-Based Service Industry



Transport, mobility & logistics



Automation
eHealth



Content
Utilities & Environment



Smart Energy Grid

Global Business Services Platform
common business functionality

Internet of Services

Future Internet

Core Internet Infrastructure Services

Internet of Things

Internet of Services

Cloud Computing

Network of the Future

Future Networked Infrastructure

The (global) Future Internet

- Conceptual models
- Guiding principles
- Architecture guidelines
- Design patterns and design styles
- Policies (EU level)

➤ **Future Internet conceptual architecture as widely accepted by the Future Internet community:**

➤ **Standards for:**

➤ **The „real“ Future Internet as it evolves:**

The European FI PPP

- “Self-defined agenda” of the FI PPP
- Evolving conceptual models
- Evolving guiding principles
- Evolving architecture guidelines
- Evolving design patterns and design styles

➤ **Future Internet PPP conceptual architecture as developed by the FI PPP community:**

➤ **Future Internet PPP design as defined by the FI PPP community on the working level, i.e. pragmatically:**

➤ **The „experimental“ Future Internet „instance“ and „frontrunner“ as it is implemented by the FI PPP:**

The (global) Future Internet

- 
- Models, languages, etc.
 - APIs and protocols for technical and business services
 - Service interfaces
 - Meta-data
 - Common / shared ontologies
 - Open trusted platforms (OTP)

➤ Standards for:

➤ The „real“ Future Internet as it evolves:

The European FI PPP

- All considered as “Work in progress”
- Models, languages, shared ontologies, conventions, etc.
- APIs and protocols for technical and business services
- Service interfaces
- Data standards (e.g. service description language)
- Common ontologies (technology and business related)
- Definition of open trusted platforms (OTP)

➤ Future Internet PPP design as defined by the FI PPP community on the working level, i.e. pragmatically:

➤ The „experimental“ Future Internet „instance“ and „frontrunner“ as it is implemented by the FI PPP:

The (global) Future Internet



➤ Future Internet conceptual architecture as widely accepted by the Future Internet community:

- contains deployed infrastructures and services
- builds upon the current Internet (e.g. IP networks, 3G networks, Web services)
- grounds in appropriate business models (for telcos, manufacturers, software and service providers)
- evolves continuously

➤ The „real“ Future Internet as it evolves:

The European FI PPP



- acts as a FI „testbed“ – for technology and applications / domains
- consists of infrastructure on all levels of technology including networks, compute power, embedded, etc.
- is comprised of software on all levels such as components, services, platforms (generic or specific – for technology and apps)
- is deployed in a number of experimental facilities
- allows the experimentation with technology
- allows the study of business models for service and platform operators

➤ The „experimental“ Future Internet „instance“ and „frontrunner“ as it is implemented by the FI PPP:

Thank you!

FI PPP – Program Structures Supporting Complete Design-to-Prototype Innovation

