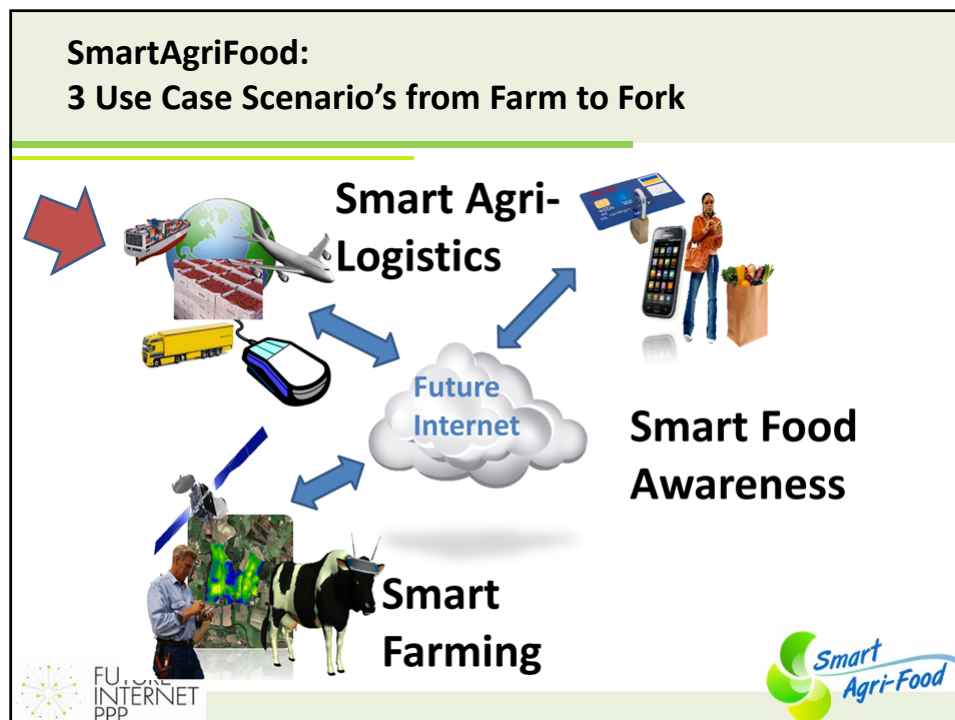




Smart Logistics in the Food and Agribusiness

Smart Agrimatics Conference
Paris, 13 and 14 June 2012

Cor Verdouw (LEI, part of Wageningen UR)
Work Package Leader
WP300 Smart Agri-Food Logistics
SmartAgriFood



Logistics in the food and agri-business

Agri-Food: $\pm 20\%$ share
in the EU road transport
(Eurostat/TLN 2008)

- Demanding sector-specific challenges, including:
 - High supply uncertainty due to natural production
 - High perishability
 - Seasonable growing, global sourcing
 - High demands on food safety, quality and legislation
 - High tracking and tracing and planning complexities
 - Additional phytosanitary and veterinary inspections
 - Many SMEs
- Current ICT solutions not sufficiently meet these demands
 - Poor level of integration
 - Limited flexibility
 - Intelligent use of data lags behind



Smart Agri-Food Logistics

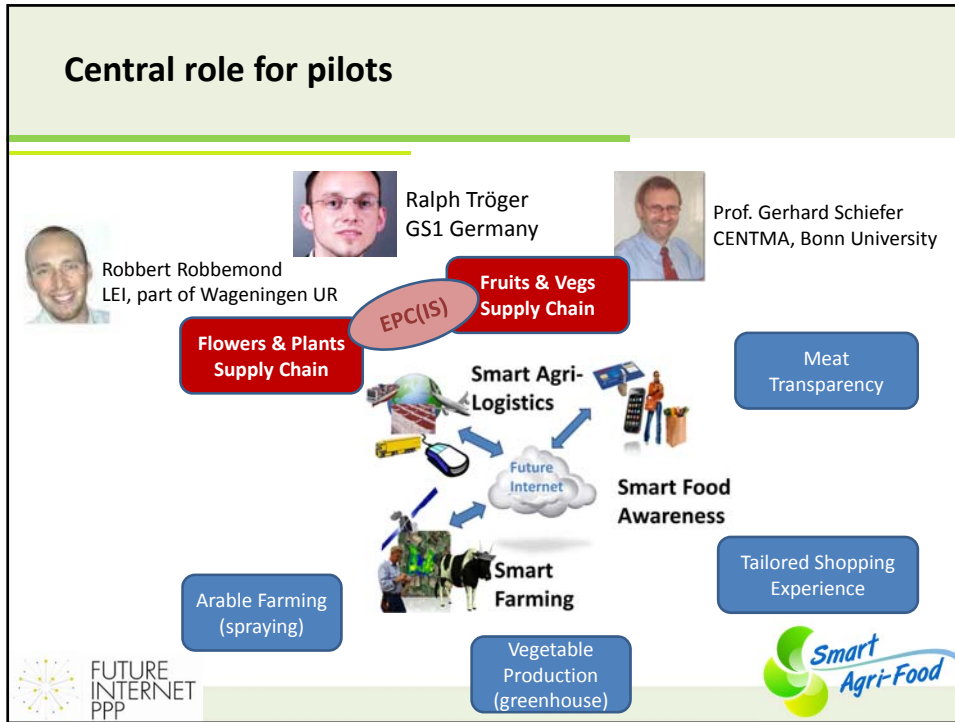
Central Research Question:

How can the Future Internet help to accomplish the specific demands of agri-food logistics?

More specific objective:

to define the requirements on the Future Internet (FI) technologies of the food and agribusiness domain






Stay in touch with Smart Agri-Food!

www.smartagrifood.eu





The screenshot shows the website www.smartagrifood.eu with the following content:

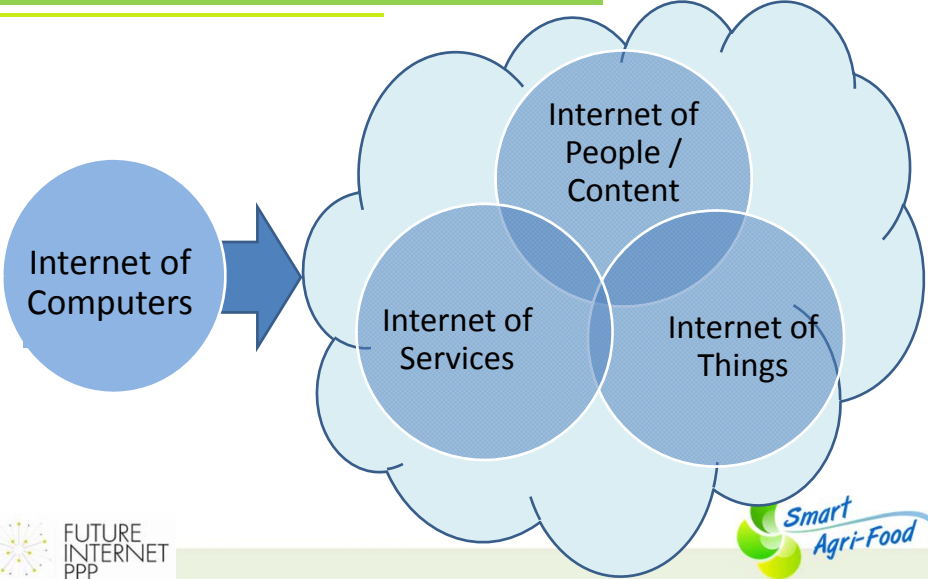
- Header: Smart Agri-Food logo, "Smart Food and Agribusiness", "Future Internet for Safe and Healthy Food from Farm to Fork", and navigation links: Introduction, Events, News, Downloads, Work Packages, login.
- Event Announcement: "13-14 June 2012 The future use of ICT and robotics in agriculture and food business". Location: Forest Hill, Paris-La Villette, France. Organized by Smart AgriMatics 2012 International Conference.
- Social Media Links:
 - Twitter: SmartAgriFood @SmartAgriFood
 - LinkedIn: SmartAgriFood (Account Type: Basic)
 - Facebook: SmartAgriFood
- Logos: FUTURE INTERNET PPP, Smart Agri-Food





The next slides are background information and not used in the presentation



Evolution of the Internet



The diagram illustrates the evolution of the Internet. It starts with a single blue circle labeled "Internet of Computers". A blue arrow points from this circle to a large, light-blue cloud. Inside the cloud are three overlapping circles: "Internet of People / Content" at the top, "Internet of Services" at the bottom left, and "Internet of Things" at the bottom right. The "Internet of People / Content" circle overlaps with both the "Internet of Services" and "Internet of Things" circles. The "Internet of Services" and "Internet of Things" circles also overlap each other.

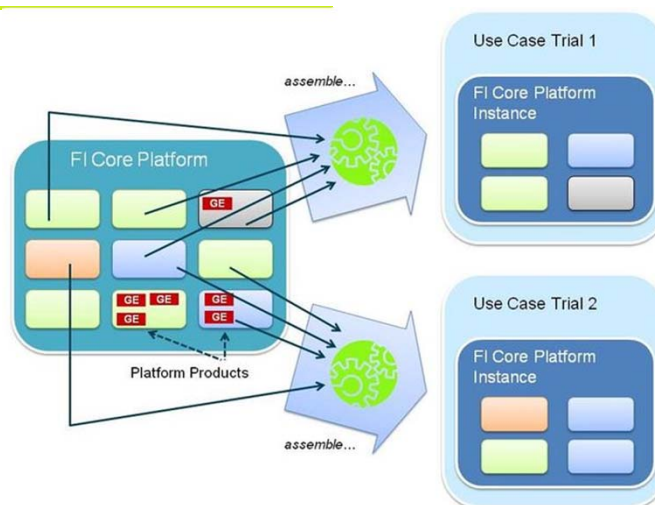


Future Internet

- Aims to overcome limitations of the current internet, including:
 - Limited capacity concerning processing power / storage / bandwidth
 - Insufficient data integrity, reliability and trust
 - Lack of data integration and federated storage solutions
 - Lack of flexibility and adaptive control
- “Developing the Future Internet” to combine several trends in internet development into an integrated approach
 - the on-going industrialization of IT
 - cloud computing
 - open service delivery platforms
 - new wireless networking technologies and the deployment of fibre
 - the breakthrough of the Internet of Things

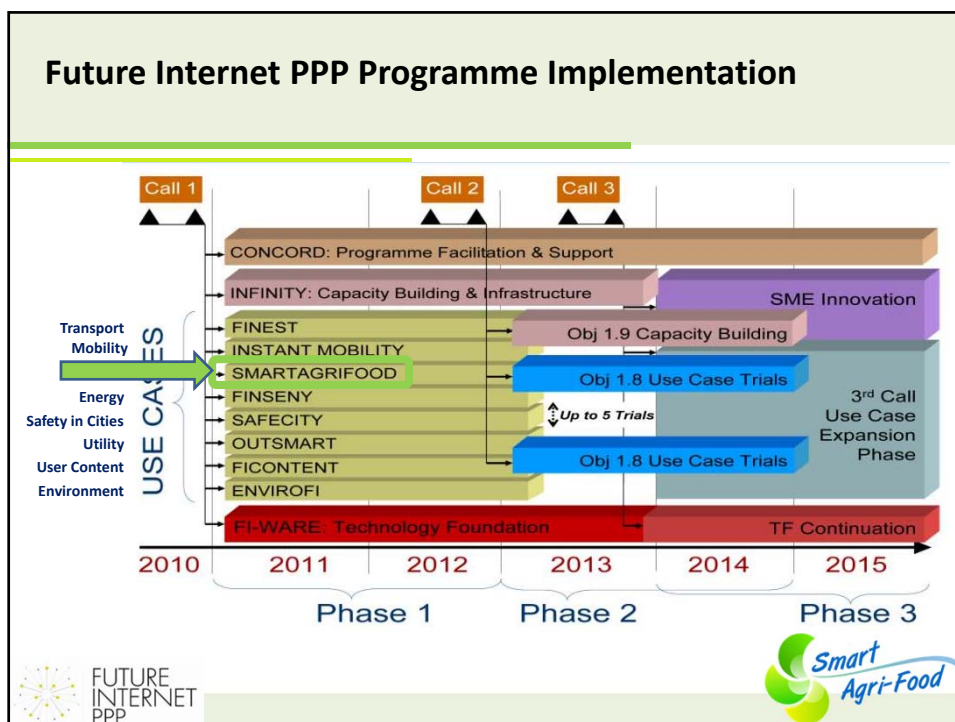


Future Internet PPP Vision: Core Technology Platform and Use Case Trials



Source: FIWARE





Objectives of the SmartAgriFood project

Boost the application & use of future internet ICTs in the agri-food sector by:

- identifying and describing the technical, functional and non-functional **FI-specifications**
 - for experimentation in smart agri-food production as a whole system and
 - in particular for smart farming, smart agri-logistics and smart food awareness
- identifying and developing smart agri-food-specific **capabilities and conceptual prototypes**:
 - demonstrating critical technological solutions including feasibility,
 - to further develop them in large scale experimentation and validation
- identifying and describing existing **experimentation structures** and start **user community building**,
- resulting in an implementation plan for the next phase.



Consortium	Research		Industry/ end-users	
	Agri- food	ICT	Agri- food	ICT
DLO-WUR	++	+		
ATB	+	++		
TNO	+	++		
CENTMA	++	+		
ATOS				++
ASI				++
HWDU				++
MTT	++	+		
KTBL	++	+		
NKUA		++		
UPM		++		
Campden BHU			++	
Aston Uni.		++		
VTT	+	++		
OPEKEPE			++	
John Deere			++	+
Wageningen Uni.	++	+		
EHI Retail			++	
GS1			++	+
SGS			++	+
BonPreu			++	

- 21 beneficiaries from 7 countries
- Balanced consortium
- Connected to
 - European Technology Platforms
 - Future Internet Assembly
 - European Research Cluster on the Internet of Things
 - ICT-agri ERANET
 - Other EU projects including agriXchange, Cuteloop , TransparantFood, RATIS
 - Industry/ Government

