The Future Internet and Food and Agriculture

FP7 Funded SmartAgriFood Project

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- EC is funding big multi-year multi-project programme: **Future Internet Public Private Partnership**

  - to advance Europe's competitiveness in Future Internet technologies

  - to support the emergence of Future Internet-enhanced applications of public and social relevance

SmartAgriFood Project

- Presents food and agriculture as a use case for the Future Internet:

  - What are the special requirements in food production, food logistics, and food consumption?

  - How must the Future Internet adapt to be fit for future agriculture and food sector of the economy and society?

SmartAgriFood Project

€7.3M budget - 21 Partners - across 7 countries

Stichting Dienst Landbouwkundig Onderzoek	Netherlands
Institut für Angewandte Systemtechnik Bremen GmbH	Germany
Nederlandse organisatie voor toegepast-natuurwetenschappelijk onderzoek	Netherlands
CentMa GmbH	Germany
ATOS ORIGIN SOCIEDAD ANONIMA ESPANOLA	Spain
Ariadna Servicios Informáticos S.L.	Spain
Huawei Technologies Düsseldorf GmbH	Germany
Maa- ja elintarviketalouden tutkimuskeskus (MTT Agrifood Research)	Finland
Kuratorium für Technik und Bauwesen in der Landwirtschaft e.V.	Germany
National and Kapodistrian University of Athens	Greece
Universidad Politécnica de Madrid	Spain
Campden BRI Magyarország Nonprofit Kft.	Hungary
Aston University	United Kingdom
VTT Technical Research Centre	Finland
Payment and Control Agency for Guidance and Guarantee Community Aids	Greece
Deere & Company	Germany
Wageningen University	Netherlands
EHI Retail Institute GmbH	Germany
GS1 Germany GmbH	Germany
SGS International Certification Services Ibérica, S.A.	Spain
Bon preo Supermarkets	Spain

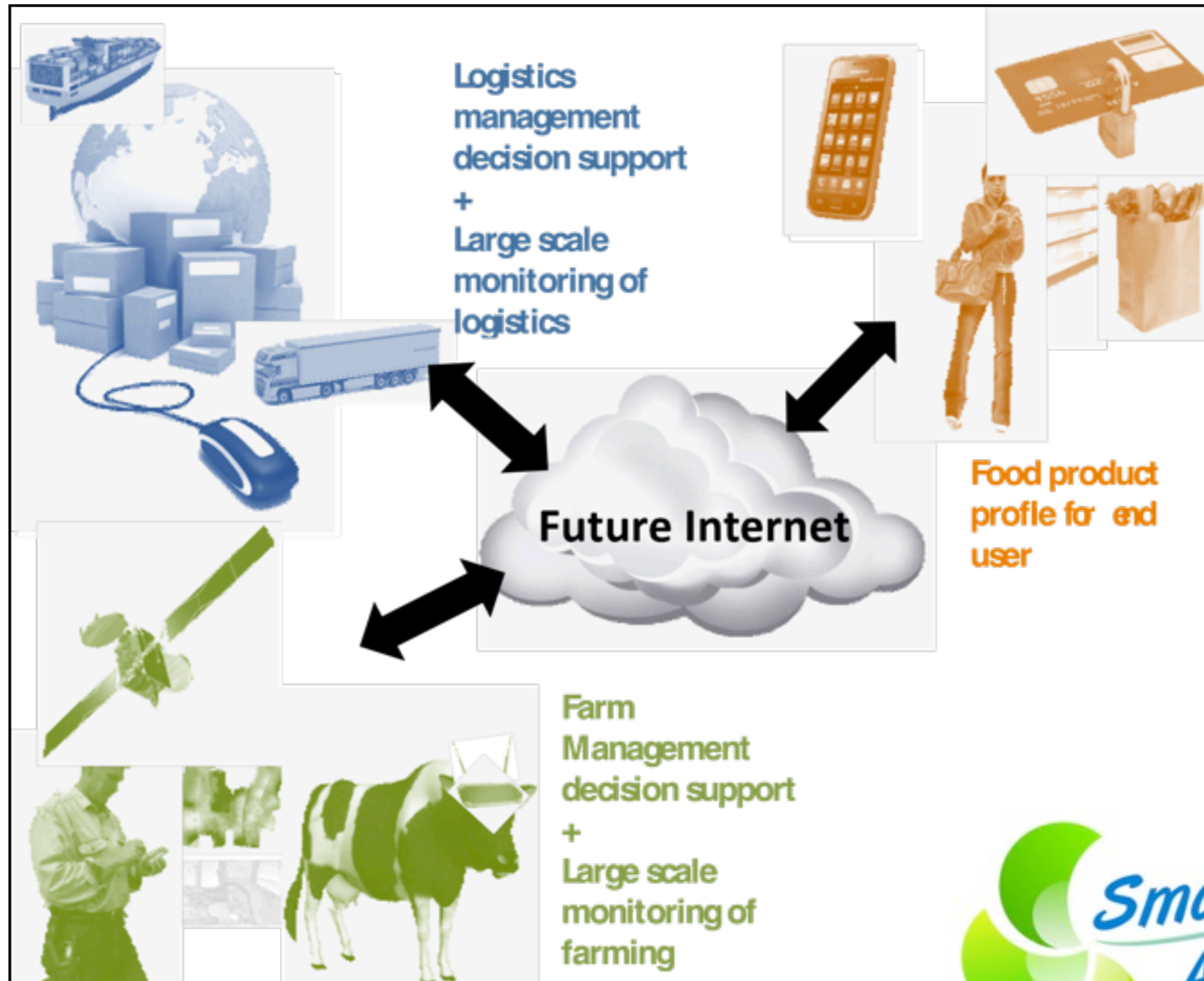# SmartAgriFood Project: Aston University

- PI: Dr. Christopher Brewster

- Collaborators:

  - Dr. Prasanta Dey

  - Research Fellow (in process of appointment)

- Responsibilities include leading a Work Package integrating overall results

SmartAgriFood Project: Specific Objectives

- Focus on three sub areas:

  - **Smart farming**, especially the use of sensors, traceability and precision agriculture

  - **Smart logistics,** especially modelling logistics and supply chains, connectivity and logistics intelligence

  - **Smart Food Awareness,** especially data transparency and knowledge representation

Logistics management decision support + Large scale monitoring of logistics

Future Internet

Food product profile for end user

Farm Management decision support + Large scale monitoring of farming

Smart Agri-Food

Importance for WM and the UK

- West Midlands has major food and agriculture know-how, technology and industry

- Universities West Midlands is focussing on **food as collaborative theme** across Aston University, Warwick University, University of `Birmingham, Harper-Adams, BCU

- **SmartAgriFood** adds to our agri-food + CS/ IT know-how

- Resource constraints (oil, phosphorus, fertile land, water)

- Climate change (droughts, floods, unpredictable weather patterns)

- Food price volatility

- Food security and (more important) sovereignty

Our hope is SmartAgriFood can contribute to mitigate these threats

Thank You

The project: http://www.smartagrifood.eu
My homepage: http://thirlmere.aston.ac.uk/~kiffer/