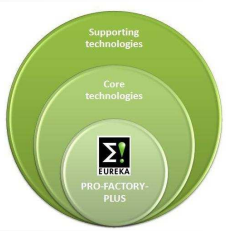
Pro - Factory - Plus



Potential areas for R & D & I cooperation

Research and Innovation Collaboration in the Food Sector

Hans-Rudolf Helfer
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Project Manager
Association ManuFuture-CH

EUREKACADEMY

24 November 2011

Objectives of PRO-FACTORY-PLUS

The primary objectives of the PRO-FACTORY-PLUS umbrella are:

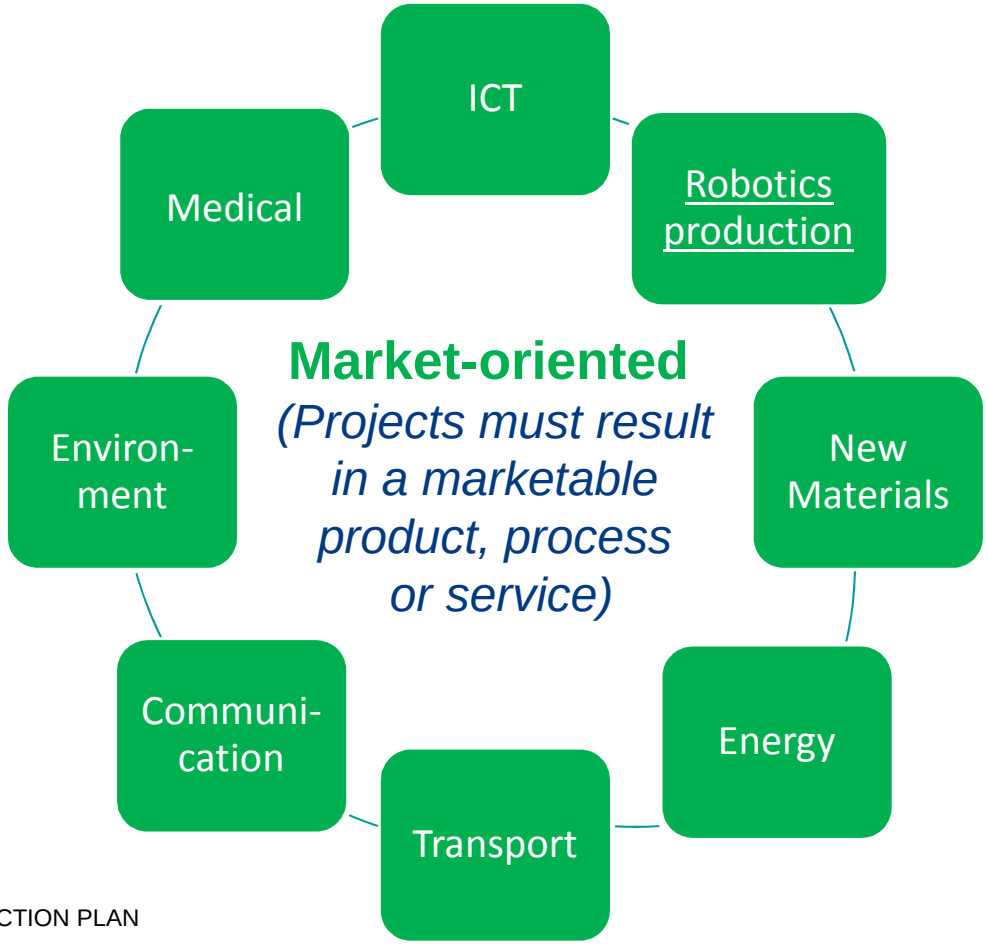
- to enable a robust European industry at the forefront of technical innovation, creating sustainable jobs in Europe along the value chain;

- to enable the European manufacturing industry to compete successfully in the global market;

- to intensify substantially research in resource efficient and energy efficient production in order to reach the ambitious targets for cost reduction and "***SMART***"[1] *products;*

SMART = **S**pecific**, M**easurable**, A**chievable**, R**ealistic**, T**ime-limited**.**

Which technologies are involved?



Technology focus of PRO-FACTORY-PLUS

PRO-FACTORY-PLUS focus on Innovative Production Technologies and supporting services.

Core Technologies		
New or improved production technologies	Flexible and robust manufacturing systems	Environmentally friendly and sustainable production processes

Supporting technologies			
Integrated services close to products and production	Application of advanced ICT technologies in manufacturing	Improving the product development process	Business process improvement

The restructured scope of PRO-FACTORY-PLUS has been done in order to address better these core issues, especially to SMEs. The proposed core technologies are important for most of manufacturing SME's. The supporting technologies are also of interest, because they offer possibilities for better cooperation between big companies and their suppliers.

Objectives of PRO-FACTORY-PLUS

PRO-FACTORY-PLUS will promote and support creativity and innovation in manufacturing to meet these challenges.
The main task to achieve the targets and get the desired impact is to focus on projects that have a short industrial take-up time or time to market.

This will be done by:
helping to develop manufacturing technology towards the levels of economic and technical excellence

collaborating closely together with national and international networks, clusters, technology platforms and associations to collect and carry-out projects to support the industry in its efforts to achieve their strategic objectives;

fostering bilateral and regional cooperation between industries and public bodies.

The PRO-FACTORY-*PLUS will strengthen further the EUREKA approach:*
<u>international, bottom-up, market oriented projects</u> and simple and efficient administration.

The network of the umbrella Working Group, both nationally and internationally, offers a tool to promote the EUREKA approach and to gather information about emerging industrial needs.

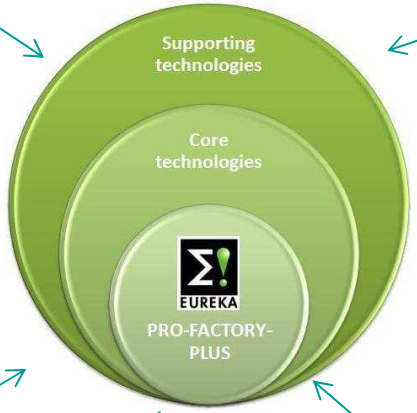
Cooperations of PRO-FACTORY-PLUS

SMART FRAME

I-PROMS
INNOVATIVE PRODUCTION MACHINES & SYSTEMS

www.iproms.org

ICT AGRI era-net



manufuture-CH

MANUFUTURE-EU

Σ!-SURF

enterprise europe network
Business Support on Your Doorstep

EFFRA
a MANUFUTURE initiative

European Factories of the future Research Association

Pro-Factory-Plus Call 2012

Following goals are targeted for the planned call:

- Time from call launch to contract is less than 6 months.
- Participating countries are synchronised in the best possible way in terms of budget and national evaluation.
- The call is promoted in an targeted way along all our dedicated distribution channels and network contacts.
- PF+ Experts and their corresponding national Eureka offices offer advice to applicants.
- An effective partnering support is maintained using EEN.

R&I needs: Variable Rate Application

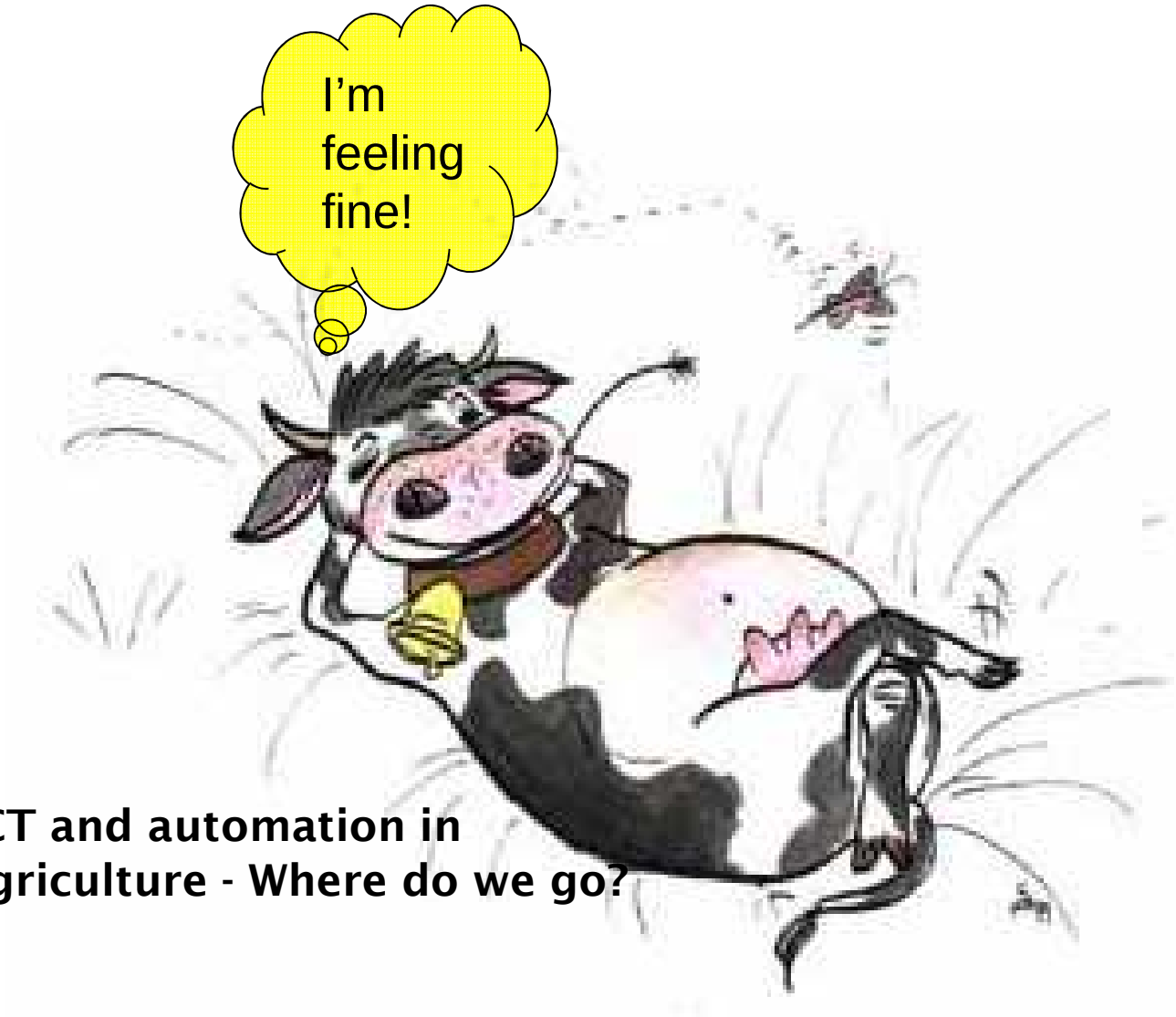
ICT and automation in agriculture - Where do we go?

Agroscope

R&I needs: Controlled Traffic

ICT and automation in agriculture - Where do we go?

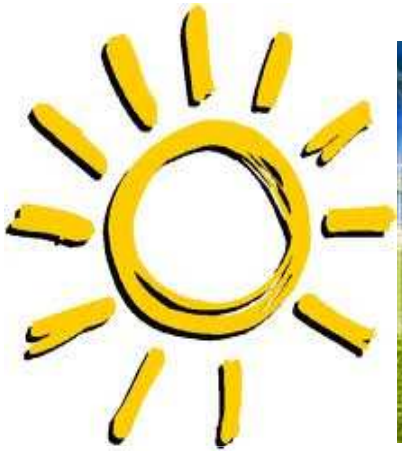
R&I needs: Precision Livestock Farming



ICT and automation in agriculture - Where do we go?

Agroscope

R&I needs: Automated Indoor Climate Control



ICT and automation in agriculture - Where do we go?

R&I needs: Agricultural Robots

ICT and automation in agriculture - Where do we go?

Agroscope

R&I needs: FMIS

According to the database you are dead since 1943 !!!

ICT and automation in agriculture - Where do we go?

ICT and automation in agriculture
Where do we go?

- Precision agriculture and PLF are supposed to become standard for agricultural production.
- Farming systems are more sustainable and efficient than today thanks to individual ICT and automation solutions.
- Most of the manual working tasks will be replaced by automated systems offering an improved control of production processes.
- More and more agricultural robots with high safety standards are used.
- DSS help the farmer in his daily work.
- The implementation of certain standards enables product compatibility and interoperability.

Agroscope

International Network

ManuFuture-CH support Swiss SMEs and represent their Interest on European level

- National platform of the EU-Technology platform **Manu*Future*-EU**
- Member of **EFFRA**, the European Factories of the Future Research Association
- Representing Switzerland at **PRO FACTORY PLUS (2011-2015)**
- **Chair of the Umbrella PF+ (1. 07. 2011 – 30. 06. 2013)**
- Member of the Swiss support Group NMP, SBF
- Member of the Swiss delegation in the EU-Program-Committee

European Factories of the future Research Association

Thank you for your attention