

# ICT-AGRI

## ICT and Robotics for Sustainable Agriculture

EFITA 2025 Conference, Poznan

**Iver Thysen**

Innovation Fund Denmark



**ict-agri.eu**



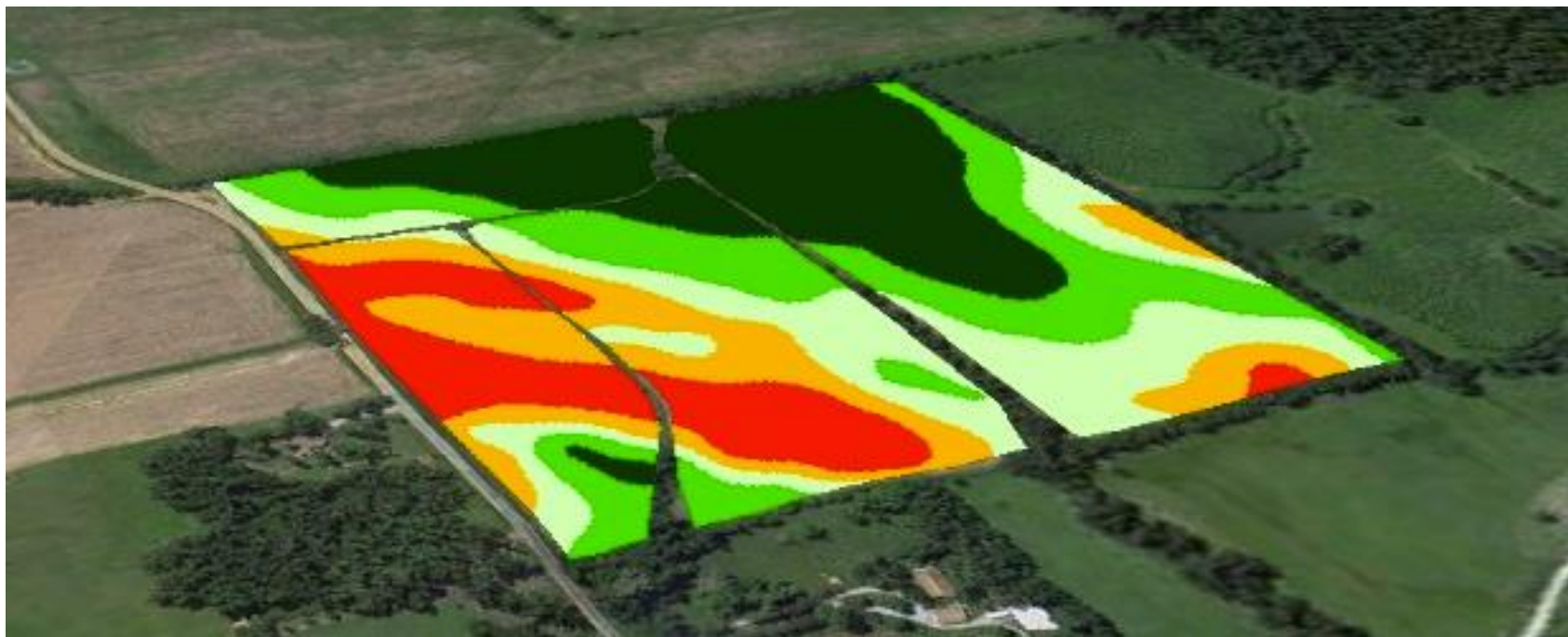


# My new sprayer





# I want to do precision spraying!



## Now I need an app





## Agricultural app store

# Precision sprayer apps

- Pesticide Saver

Save 70% of pesticides without sacrificing efficiency

1,394 downloads

- Precise Spray

Spray only where needed by GPS controlled spraying

12,905 downloads

- Smart Spray

Easy pesticide application maps for any smart sprayer

123.984 downloads





## Agricultural app store

# Smart Spray

- Import field and crop data from your preferred Farm Management System
- Export application maps to your preferred field sprayer
- Generate documentation for government and crop purchaser
- WIFI data import / export

Download app





## Agricultural app store

# Smart Spray - download

- Smart Spray requires access to
  - Field coordinates
  - Field crop data
  - Pesticide warehouse data
  - Zero spray zones
  - Field sprayer configuration
- Agree?







# After 10 minutes configuration ..



## My fields!





# **Why isn't it that easy?**

## **Because we haven't made it!**







**European Research Area - NETwork**

Information and Communication Technology  
and Robotics for Sustainable Agriculture

ICT-AGRI-1 2009 – 2014

ICT-AGRI-2 2014 – 2017



# What do we do in ICT-AGRI?

Strategic Research Agenda (2012)

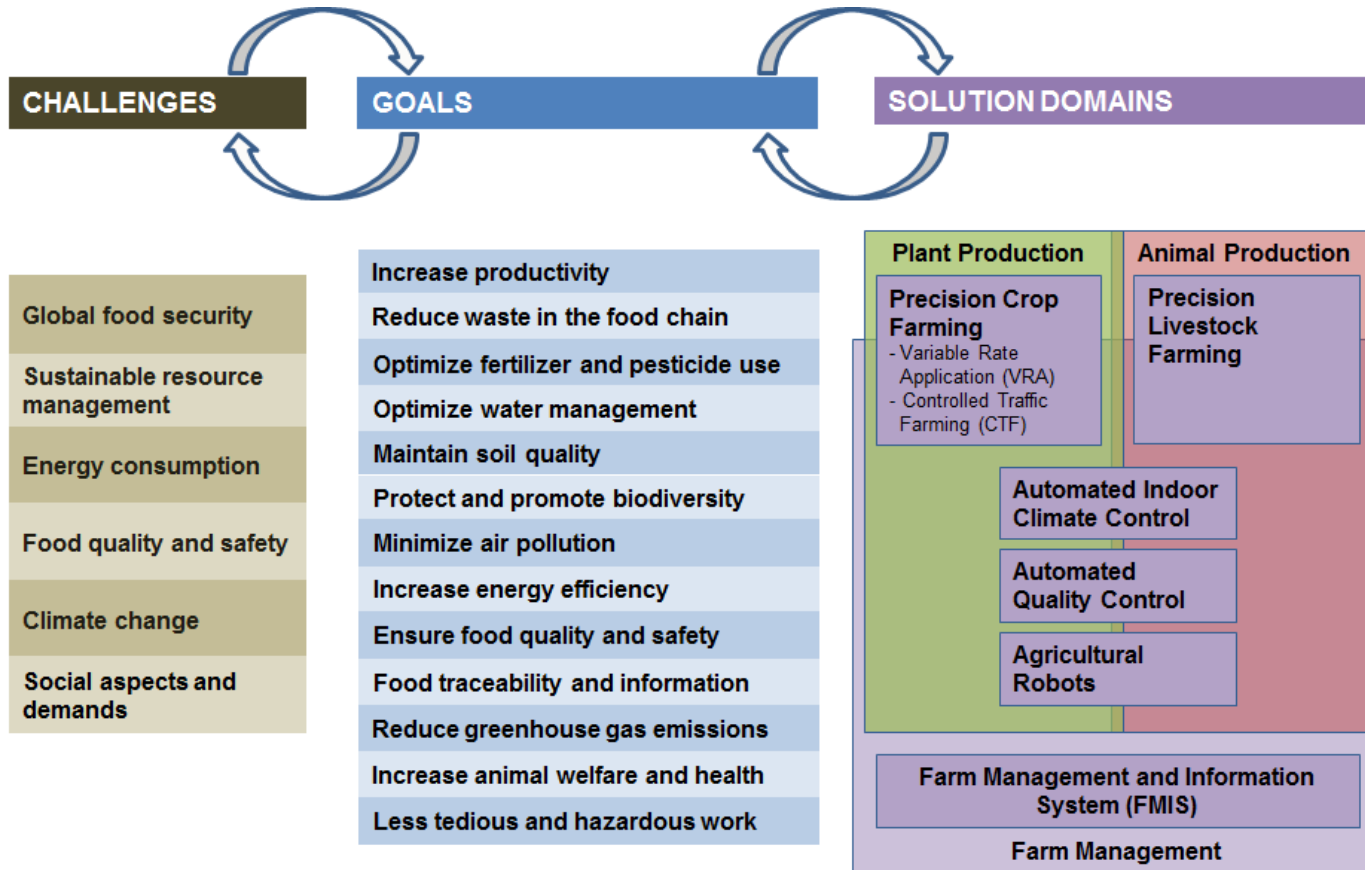
Interactive website

Calls for transnational projects





# Strategic Research Agenda





Website interactivity: [ict-agri.eu](http://ict-agri.eu)

Discussion forum



Map R&D projects by voluntary user inputs



Comment Research Agenda draft



Survey among agricultural ICT providers



Online submission of proposals to calls





# Calls for transnational projects

2010 Integrated ICT and automation for sustainable agriculture

2012 ICT and automation for a greener agriculture

2014 Applications for smart agriculture (with SmartAgriFood)

2015 Enabling Precision Farming

2016 Farm Management and Information Systems

2017 ?





National  
funding  
allocated  
to calls  
(1,000 €)

Country	2010	2012	2014	2015
<b>Total</b>	<b>3,130</b>	<b>6,275</b>	<b>1,640</b>	<b>5,660</b>
Denmark	500	1,500	500	2,000
Germany	200	1,000	500	250
Turkey	500	800	100	100
Belgium	100	120		1,000
Ireland	30	375		700
Switzerland	200	300	40	450
Latvia	150	150	300	210
Finland	200	200	200	200
Spain	150	180		450
Italy	500	50		100
Greece	200	400		
Israel	200	300		
France	100	400		
Netherlands	100	150		200
UK		350		

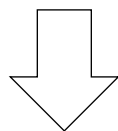




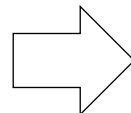


# Preparation of transnational calls

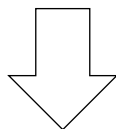
Identify needs  
and solutions



**Action plan for  
implementation of the  
Strategic Research Agenda**



Implementation in EU  
and national initiatives



Implementation in  
transnational calls

Three annual repeats





# Call preparation

Call documents  
Pre-launch

Call and topics decisions  
Funding commitments

Approach funders  
Funding contributions

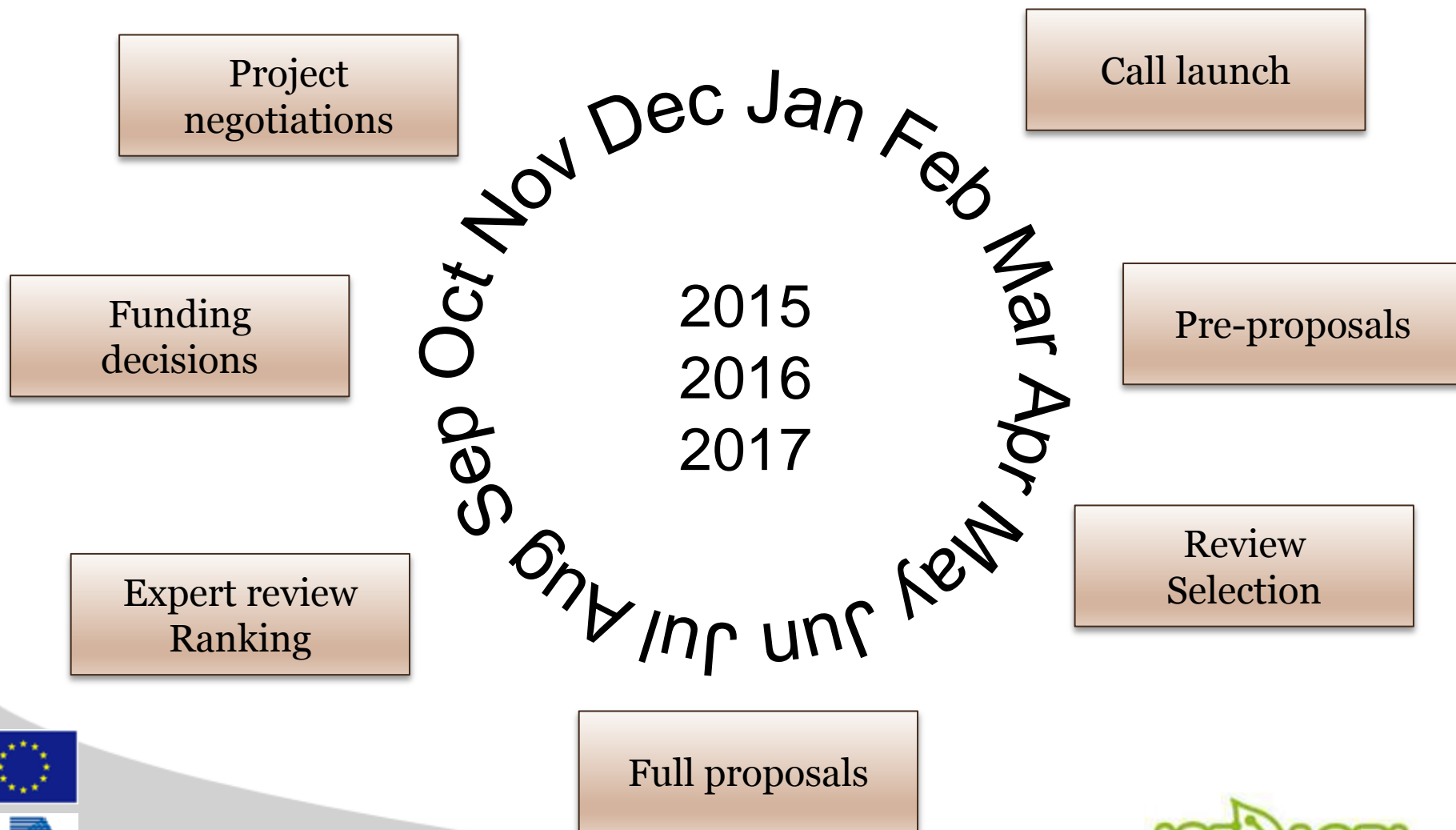
Action plan pre-view  
Call themes and models

2014  
2015  
2016

Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul

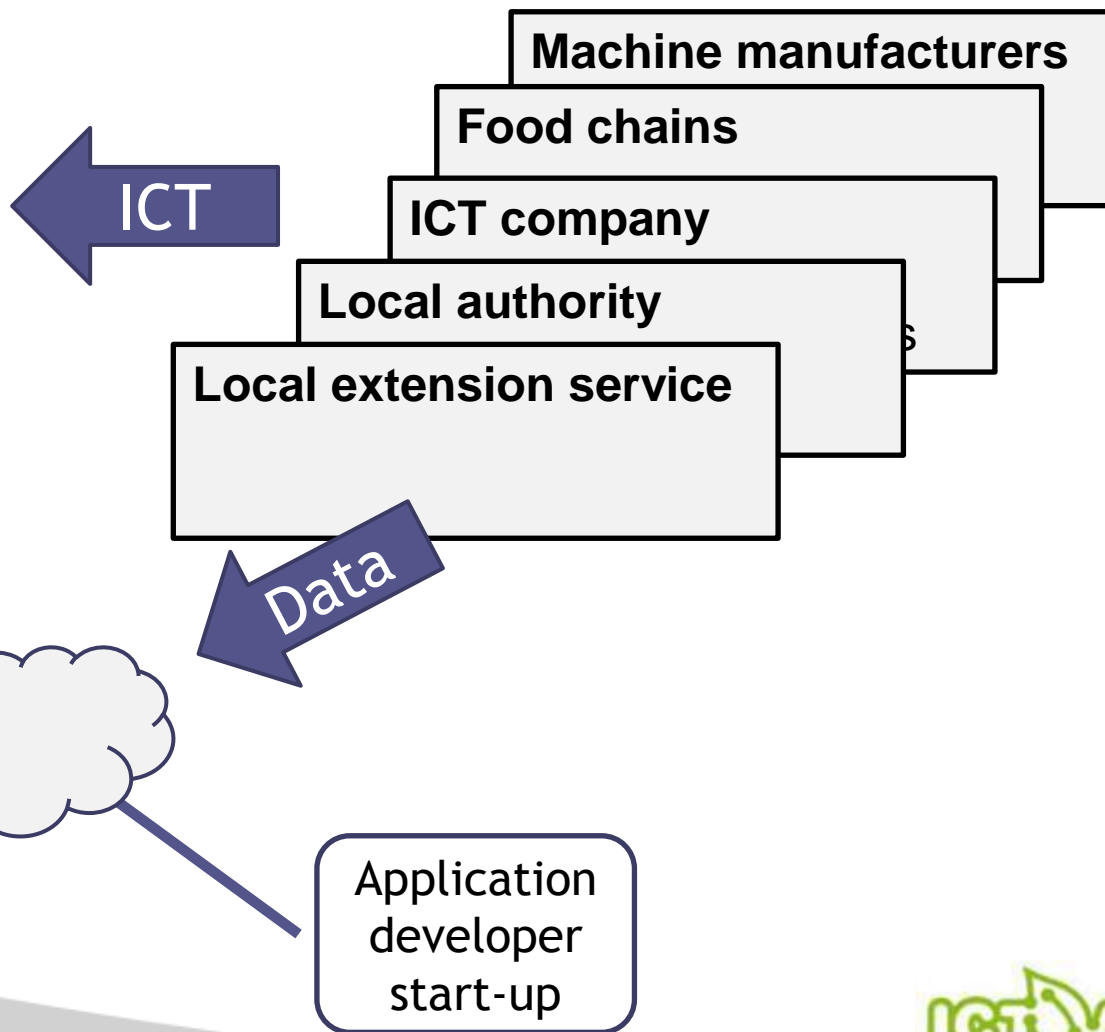


# Call implementation





# One set of problems for adoption





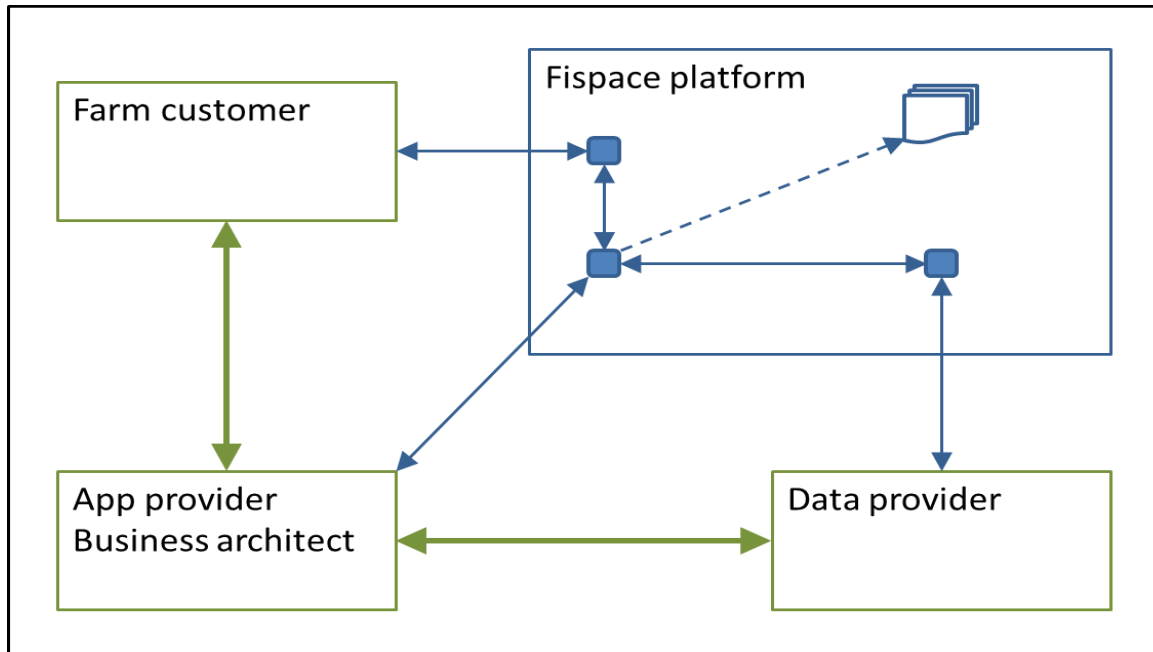
# ICT-AGRI's mission

**Contribute to  
European collaboration  
within ICT and robotics  
for a sustainable agriculture**





# Participation in SmartAgriFood



50 small and short projects funded  
9 projects with additional ICT-AGRI funding





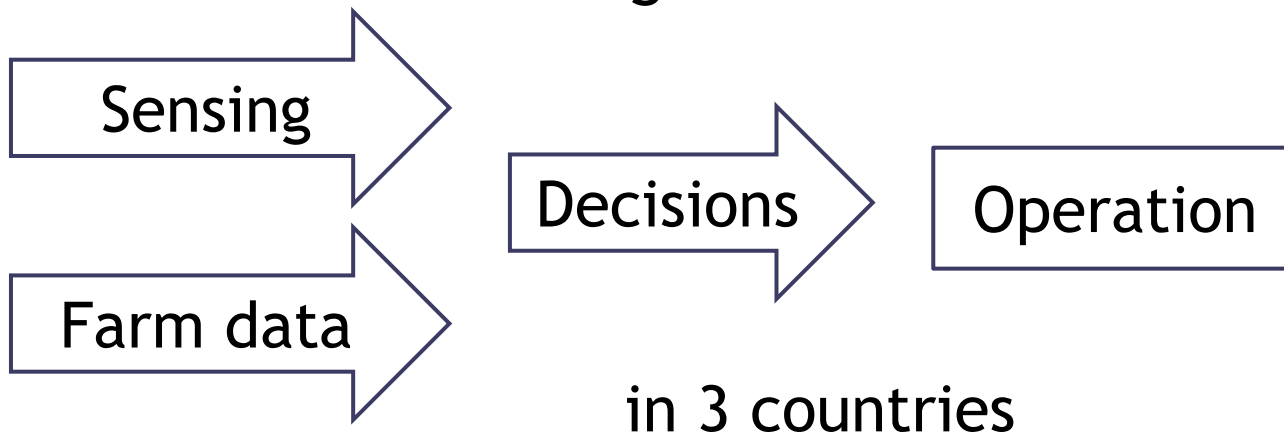


# Enabling Precision Farming 2015

Theme 1: Precision Farming Methodologies



Theme 2: Precision Farming Solutions





# Farm Management and Information Systems 2016



More information from our website:  
[ict-agri.eu](http://ict-agri.eu)



**Thank you for your attention**

