

European diversity – hurdle or driver for innovation

Case example: German Innovation Partnerships



Aim of BMELV

→ Giving impulse for the development of solutions for the societal challenges

→ Strengthening the business location Germany in the field of Agriculture

→ Implementation of research into practice.

Innovation program of BMELV

- → Launch in 2006
- → Implemented by Federal Office for Agriculture and Food, BLE
- → Budget: 37 Mio. Euro/Year
- → Currently 318 projects funded (finished & running)
- Based on topic related Calls, e.g.: "Improvement of animal husbandry"

Current situation in Germany

Study on the Innovation system in German agriculture on behalf of BMELV in 2012 (Humboldt-University Berlin et al.)

Results:

- → Lack of capital between research project and market introduction
- → To short funding period
- → Lack of opportunities for testing and demonstration under field conditions
- → Lack of networking and cooperation between universities, industry and farmers

Consequence:

→ Launch of "German Innovation Partnership" (DIP)

Funding Steps

- → 1st Step: Program on Innovation in Agriculture
 - research and development
- → 2nd Step: German Innovation Partnership (DIP)
 - experimental development
- → 3rd Step: Demonstration projects
 - bridging to practice

Project example:

Development of a rain sensor for kinetic energy and water wetness to improve scab prognosis in apple cultivation in the region of Rhein-Neckar

- → Scab is a fungal disease with a high impact on apple production.
- → Control of scab causes high demand of fungicides.
- → Dispersion is caused by rain (not dew): the kinetic energy of rain drops leads to dispersion of spores.



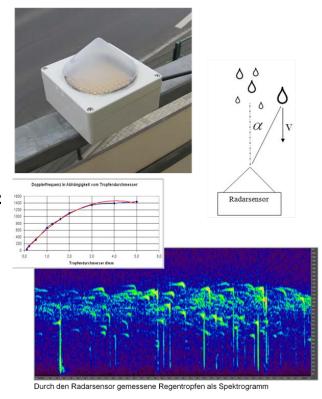


Aim of the project

Development of a sensor to measure the kinetic energy of rain drops in order to create prognosis models.

- Enabling a selective application of fungicides
- → Saving fungicides

Radartechnik



Funding process – 1st step

2008 – 2013 Project funded by Innovation Program of BMELV

Project partner:

- → Adolf Thies GmbH, Small Medium Enterprise for Sensortechnique
- → Julius Kühn Institute, Institute for Plant Protection in Fruit Crops and Viticulture

Project costs:

- → 440.000 € Funded by Innovationprogram
- → 220.000 € own funding of Adolf Thies GmbH

Results:

- → The idea is working
- → First sensor prototypes show promising results

Funding process – 2nd step

- → Funding by German Innovation Partnership (DIP)
- → Aim is the development of a prototype of the entire system: sensor and fitting algorithms and programmes in cooperation between company and researchers

- → The financial gap between research project and market introduction can (nearly) be closed.
- → "Community Framework for state aid for research and development and innovation" of EU inhibits the funding of market introduction

Funding process – 3rd step

A possible future step is a demonstration project to show the prototype in practice

- → It helps the company to make experience in practice
- → It helps farmers to make a purchase decision
- → It supports the market introduction

European diversity – hurdle or driver for innovation?

- → The challenge is
 - → to connect diversity
 - → to generate profit of diversity
- → With the instrument of European Innovation Partnership small project groups with specific topics can be connected and profit of each other.
- → With these kind of intruments diversity of the EU agricultural research can be a driver for European Innovation