



***Inclusive Organic Partnerships as a
means to responsible, resource
efficient bio-economy***



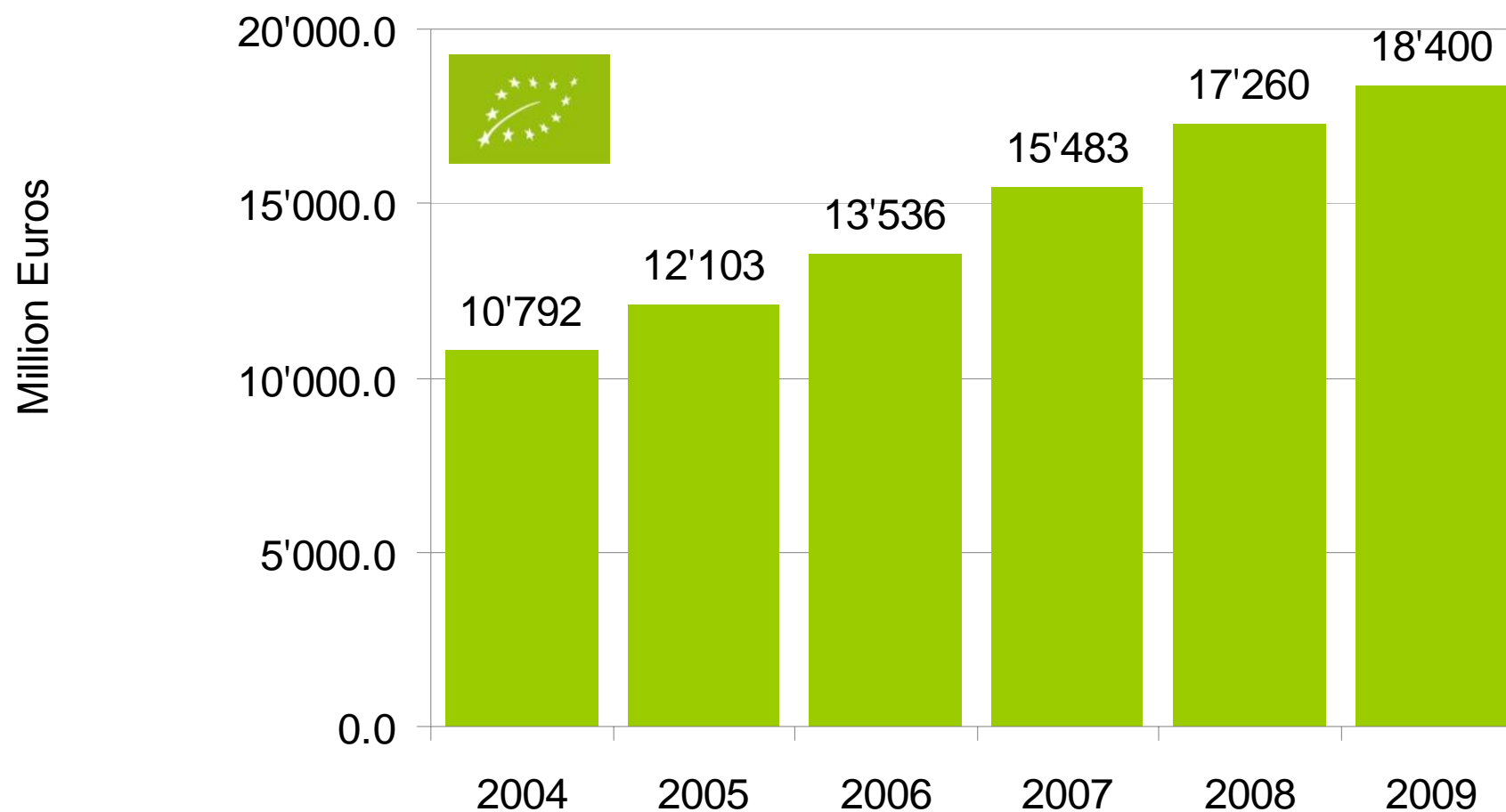
Dr Susanne Padel
TP Organics Steering committee

Organic in Europe: Land area categories



FiBL/IFOAM Survey 2011, based on data from governments, the private organic sector and certifiers

Organic in Europe: Development of the European Market 2004-2009



Currently, in Europe ...

- 9.3 M ha organic area (2009)
- Organic market worth approx € 20 billion p.a.
- Approximately 300,000 businesses
- Many of them are SMEs
- At least 500,000 people are earning a living from organic food and farming

Important drivers for organic farming

- **Legislative basis for organic farming**
 - Regulation (EC) 834/2009 and implementing rules
 - Dual societal role of responding to demand and delivering public goods and services
- **Policy support** for organic farming
 - Rural Development Framework
- **Consumer demand** and market growth
- **Farmers** going organic

Organic creates innovation

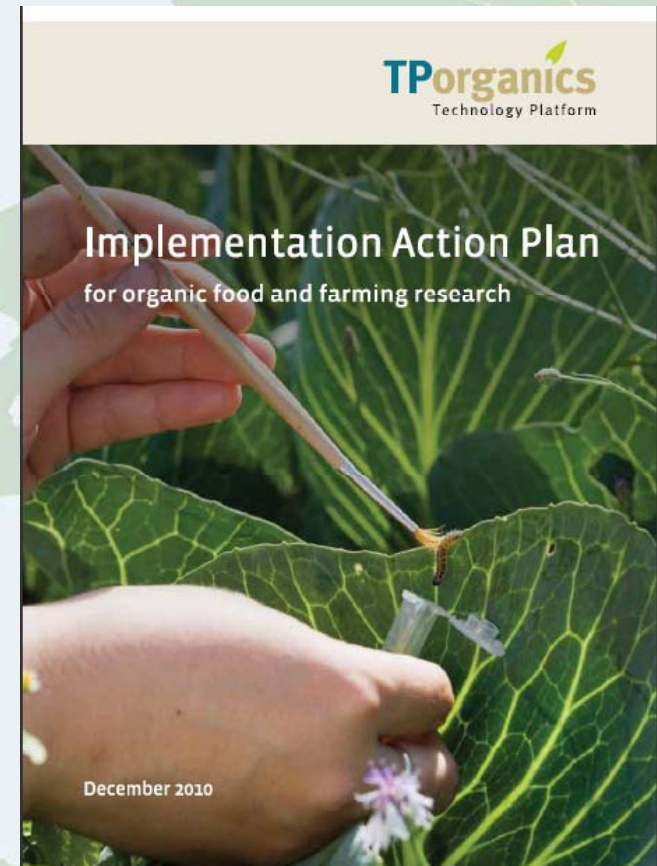
“Organic farming with its stringent rules on external input use has to be even more innovative to solve production problems, sometimes opening up new avenues”

Source: IASTAD (2009). Agriculture at a Crossroads: *Global Report*, p. 384.

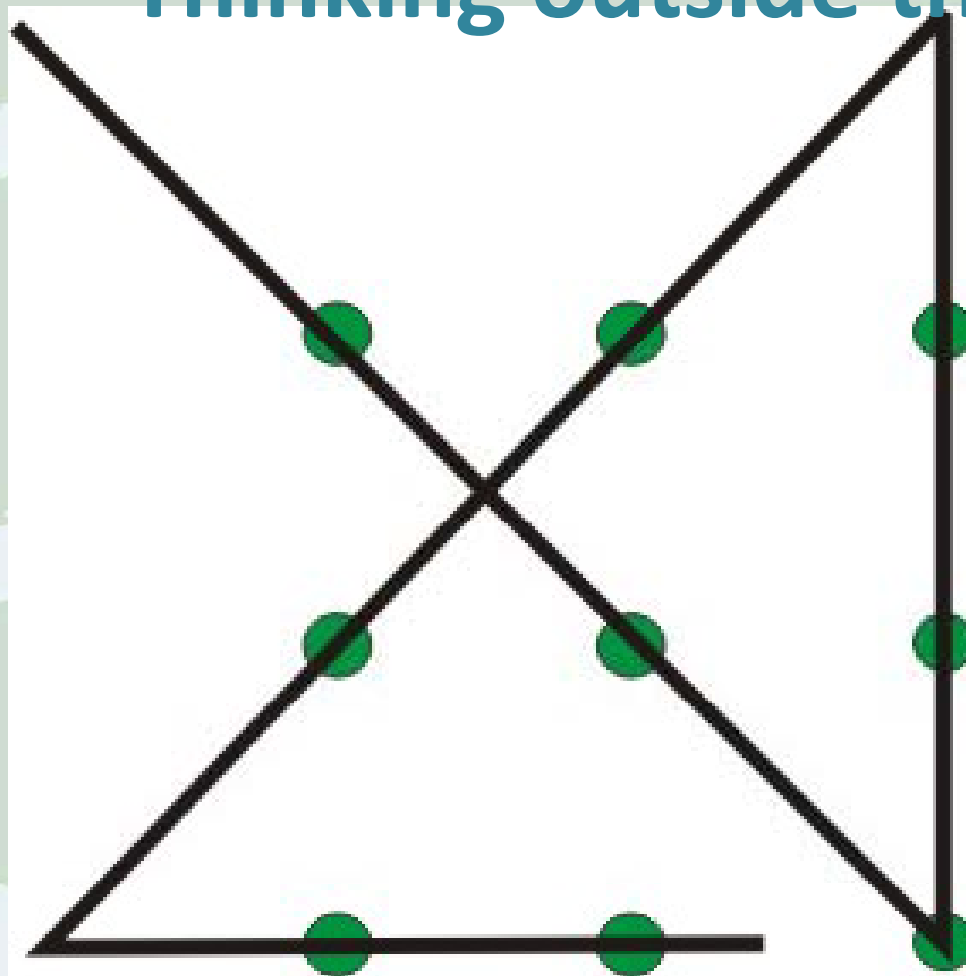
Implementation Action Plan (2010)

“ Organic farms and food businesses are creative living laboratories for smart and green innovations”

Organic food and farming represents a unique systems approach



Thinking outside the box



A broad concept of Innovation

- not only in manufacturing but also in **services**;
- not only in the private sector, but also in **the public and non-profit sectors**;
- not only in big organisations, but in **smaller entrepreneurial ones** as well;
- not only through new technologies, but also through **new forms of organisations to tackle social issues** [BEPA, 2009]
- the role of **know-how**

For Example Wheat Populations: An Intelligent Crop



- Cross composite populations
- High genetic diversity
- Increasing resilience (reliability and stability of under different conditions)
- Challenges traditional breeding aiming for uniformity of variety

Solibam



Strategies for Organic and Low-input
Integrated Breeding and Management



Cereal/grain legume intercropping



www.intercrop.dk

Increasing
Europe's
production of
protein feed

Intercrop

OLK5-CT-2002-
02352

Chickens out: Silvo-pastoral systems for livestock



Ecology in Action: Exploiting knowledge about parasite life cycles



- Pasture ecology
- Novel forages

Concept Orchard

www.hehall.co.uk In partnership
with OrchardWorld Ltd.

Using modern pest and disease
monitoring and control to produce
organic apples



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Welcome to Fordhall Organic Farm

1 farmer, 8000 landlords!

Fordhall Organic Farm, in Market Drayton, north Shropshire has been organic for over 65 years. We rear grass fed beef, lamb and Gloucester Old Spot pork.

After being saved from development in 2006 through a national campaign, it is now England's first community-owned farm and offers a warm welcome to all.



OPEN NOW - Our NEW Farm Shop and Tea Room!

Farm Shop and Tea Room: Tues - Sat 9.30am-5pm and Sun 10am-4pm. Open Bank Holiday Mondays 10am - 4pm.

NEW Fordhall Tea Room and 3 Farm Trails

Delicious local and organic food



Open 6 days a week



New Farm Shop and Butchery

Open 6 days a week!

Click here for information on Hog Roasts



Upcoming Events

Triodos Bank



Aarstiderne : “Thinking inside the box”

- **Successful virtual supermarket**
- selling online and delivering boxes with fresh produce and groceries
- weekly to 45,000 customers
- across Denmark and beyond



www.aarstiderne.com/

Agricultural Engineering



Caring for the meadow



Compost covers



'Robex II' microwave prototype tackling broad-leaved dock.

??



Digital Image Recognition Goes Weeding

<http://www.agroscope.admin.ch/agrartechnische-systeme/index.html?lang=en>

TPorganics
Technology Platform

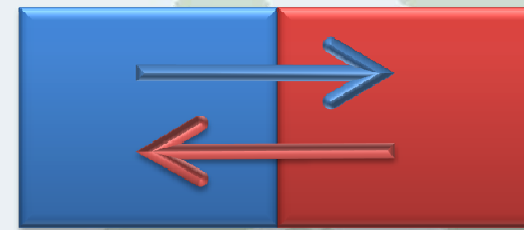
Agro-ecological and organic farming innovations

- Production practices and technology for crops and livestock
- Processing technologies
- Quality management
- Farm diversification and marketing
- Developing closer links with consumers
- Many are useful not only to the organic sector

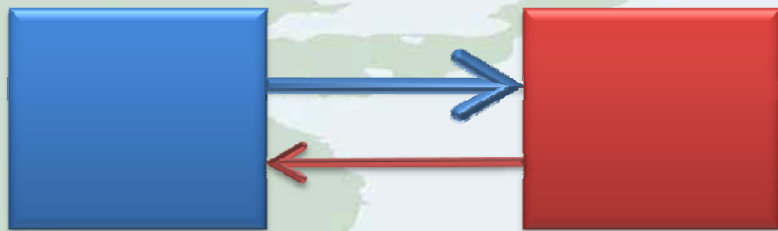
Carrying out research in participatory way



The linear model



The collaborative model



The feedback model



The joint production model



Knowledge Producer



Knowledge User

After RELU (2007)

The potential of research partnerships

- Involve farmers and other small businesses
- Capture their innovative potential and expertise
- Making research in organic food and farming systems relevant and useful

In line with the innovation approach

- Importance of knowledge transfer/exchange and participatory approach
- Addressing important food security/climate change challenges:
 - Resource efficiency
 - Resilient systems responding to scarcity

Horizon 2020: Six potential themes for agriculture and food systems

- Eco-functional intensification: A novel approach to global food stability and security
- The economics of high output / low input farming
- Health care schemes for livestock
- Resilience and “sustainagility”
- From farm diversity to food diversity and health and wellbeing of citizen
- Creating centres of innovation in farming communities

Acknowledgements

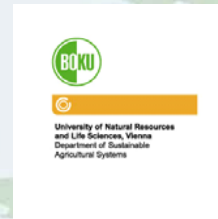
- To all those that have supported and contributed to TP Organics
- **To you for your attention !**



www.au.dk



www.bioforsk.no



www.boku.ac.at



www.caae.es



www.emu.ee



www.organicfqhresearch.org



www.hnee.de



www.ifoam-eu.org



www.louisbolk.org

Rogau Stiftung

www.rogau-stiftung.org

TPorganics
Technology Platform