



European Innovation Partnership on Agricultural productivity & sustainability

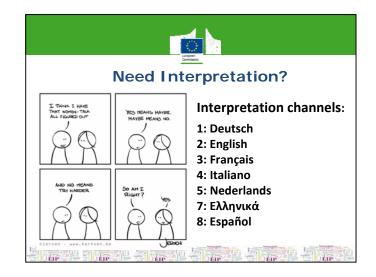
Brussels 19 Nov. 2012

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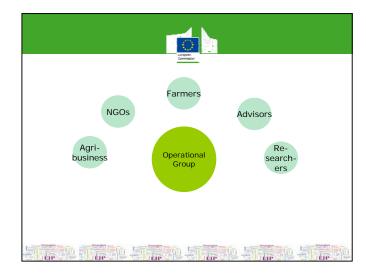
1 – Opening address by Georg Häusler



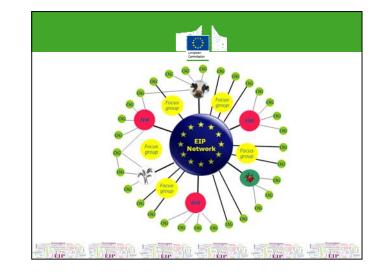










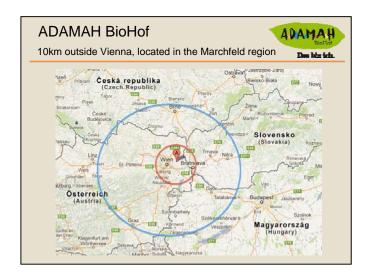


Europaine Amminia	
Welcome by Maria Angeles Benitez Salas	
Opening address by Georg Häusler, Head of Cabinet	
Check In!	
10:00 Presentation by Gerhard Zoubek, ADAMAH	
Presentation by Andrzej Szymanski, Baltic Deal	
Presentation by Iliara Pertot, PURE	
Break	
Presentation by Jacob van den Borne, Precision Agriculture	
Presentation by John Bailey, Dairyman	
Presentations by IIse Geyskens, Innovation Brokers	
Explanation of the World Café concept	
Lunch and Poster Session	
World Café session	
Summing up, mind mapping, next steps	
Check Out!	

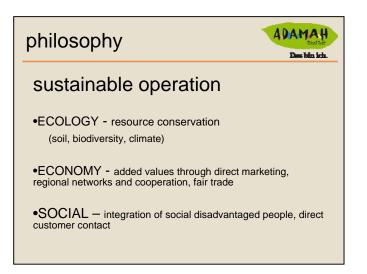


2 – Presentation by Gerhard Zoubek





ADAMAH BioHof





Direct Marketing	
• ADAMAH BioBox	
 BioMarket – Booths & BioFarmshop 	
 BioSchoolfruits & BioSchoolbuffets 	
 BioCatering & BioGastronomy 	

ADAMAH BioBox

ADAMAH Exercit Des Ista Ich.

- Home delivery of a wide range of organic products (greater area of Vienna)
- Ø 5.500 deliveries per week (over 20% growth pa.)
- Products from the own farm, regional partners and wholesale





EIP workshop, Brussels 19/11/2012





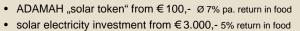








ADAMAH solar electricity investment in cooperation with customers







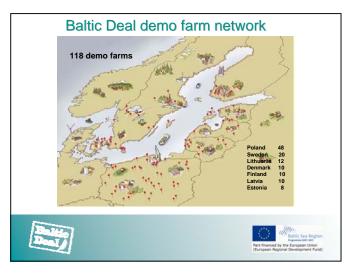
- master thesis
- Cooperation with logistics experts, software companies
- organic carott breeding
 - cooperation with research science (FiBI, BOKU-Vienna)
- partner for research projects
 - resilience of organic networks,
 - CO₂ emissions of organic produce distribution modells

EIP workshop, Brussels 19/11/2012

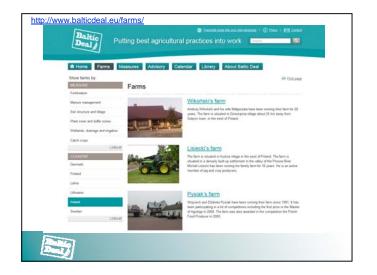


3 – Presentation by Andrzej Szymanski

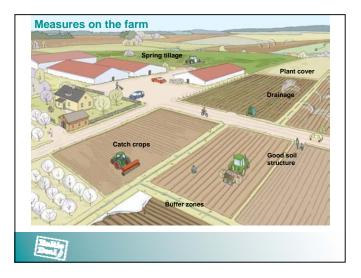














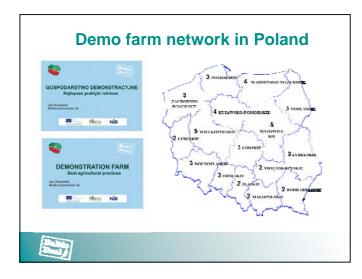




✤ Man -to-man on the farm

- Man-to-man outside the farm (i.e.phone helpline, helpdesk for individual questions via website, consultation/"sitting days" of advisors in each region)
- Small group advice on the farm
- ٠ Vocational training and seminars
- ٠ Workshops/meetings outside the farm
- Internet based (3 types: general info, interactive tailored to specific farm types, tailored to specific individual questions from the farmer) ٠
- Publications
- Others: competitions, agricultural shows, fairs, study tours ٠ conferences

EIP workshop, Brussels 19/11/2012

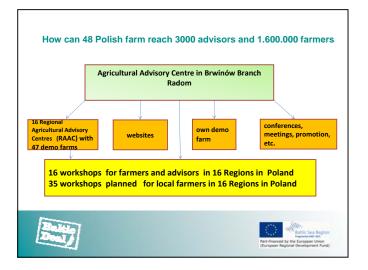


Polish Baltic Deal Demonstration Farms			
- Basic Data			
Number of farms	48		
Total area (UAA)	6 953,0 ha		
Average size of a farm	144,8 ha		
Smallest farm	7,5 ha		
Biggest farm	1 703,0 ha		
Average size of a farm without livestock	184,7 ha		
Animal density	0,52 LU		
Animal density in the animal farm	1,09 LU		

Subjects of sixteen workshops for farmers and advisors all over Poland 2012

- 1. Impact of agriculture on water pollution in Poland
- 2. Nutrient balance calculation as an advisory tool
- 3. Rational fertilization as challenge for the future
- Agricultural measures decreasing both nutrient run-off and water contamination on the base of the Baltic Deal project.





Agricultural Advisory Centre in Radom and its promotion of demonstration farm network.

*Own demonstration farm in Chwałowice

*Conferences - international and national

Meetings

Workshops

♦Website: <u>http://www.balticdeal.cdr.gov.pl</u>

✤The mass media, brochures, leaflets

Total number of events - about 130 in 2011 and 2012 Total number of participants about 5000















4 – Presentation by Iliara Pertot

PROJECT PURE: BUILDING BRIDGES BETWEEN RESEARCH, TECHNOLOGY AND STAKEHOLDERS

Pertot Ilaria

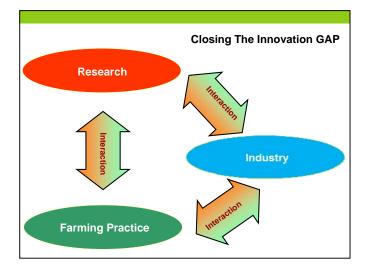
Fondazione Edmumd Mach (FEM) S. Michele all'Adige, Italy FONDAZIONE EDMUND MACH

PESTICIDE USE-AND-RISK REDUCTION IN EUROPEAN FARMING SYSTEMS WITH INTEGRATED PEST MANAGEMENT

Funded under the Seventh framework programme Food, Agriculture and Fisheries, Biotechnology

Aim and objectives of PURE

- To provide practical IPM solutions to reduce dependence on pesticides
- and practical toolbox for their implementation
- To contribute in the reduction of the risks to human health and the environment
- To facilitate the implementation of the legislation on pesticides while ensuring continued food production of sufficient quality
- 14 research institutes, 2 extension organization, 6 industries/SMEs in Europe



Some reason for gaps...

- Lack of interaction opportunities between agriculture and research
- Evaluation criteria for scientist career
- Research: low awareness of farmers' practical problems
- Perception of problems by growers (search for readyto-use technologies, low interest in long term solutions)
- Fragmentation of the agricultural sector
- Fragmentation of industries in the agri-business (SMEs)
- Often small and unpredictable market
- IP issue (publication vs. protection)
- Short term research projects (3-4 years)
- · Lack of resources for the outreach

Innovation process

- Problem study (research farmers/advisors)
- Solution identification (fundamental and applied research industrial research farmers/advisors)
- Feasibility (research farmers/advisors industry)
- Development (research industry farmers/advisors)
- Evaluation (research farmers/advisors)
- Adjustment (research industry)

• ...

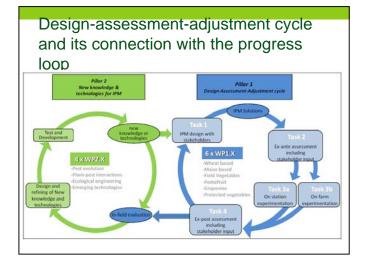
- Evaluation (research farmers/advisors)
- Implementation in practice (farmers/advisors)

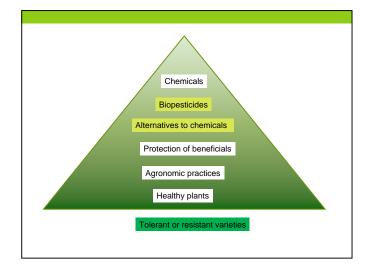
PURE

- System approach in IPM
- Focused in closing gaps with research, agriculture and industries
- 6 main cropping systems in Europe
- New concept to involve growers/advisors and industry
- Evaluate the risks and assess the balance between costs and benefits of the different IPM methods with interactive process
- A design-assessment-adjustment cycle to ensure continuous validation and improvement of the IPM solutions

How to integrate pre-existing and newly generated knowledge and tools

- 1. **IPM** solutions are **designed** by interacting with relevant stakeholders
- 2. Ex-ante assessment of the IPM solutions and current practices using the tool DEXiPM
- 3. **Selected** IPM solutions are validated in various geographical regions in Europe
- On-station experiments are used to test technical aspects of the IPM solutions
- On-farm experiments also consider the practical aspects and potential obstacles to the implementation of innovative IPM solutions, the co-innovation process of IPM development and cost-benefit to the end-user
- Ex-post assessment of the environmental and economic/social sustainability of the IPM solutions also using DEXiPM and/or other available assessment tools
- Following the ex-post assessment, a new design-assessmentadjustment cycle is initiated incorporating the information from the previous cycle as well as new knowledge and tools





Involvement of stakeholders

Identification of the problems, priorities, possible solutions

•Questionnaire (structured vs. unstructured, first glimpse, expensive)

•Focus group with growers and/or advisors (focused, need for a trained leader)

•Technical conferences (general overview of the problem, feedback from farmers)

•Specific meetings with advisors (focused and specific, the point of view of the farmer is missing)

-Co-innovation exercises (interactive, difficult to involve farmers)

Involvement of stakeholders

Identification of solutions

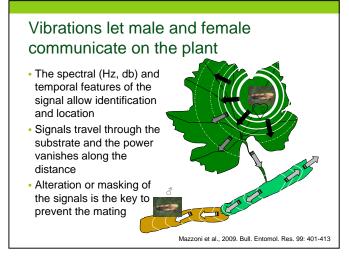
Simple - available
Complex - available
Simple - to be developed (research with/without industries)
Complex - to be developed (research with/without industries)

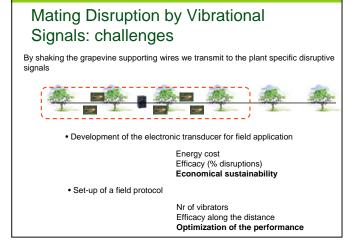
Example of complex solution to be developed with industries: Vibrational mating disruption

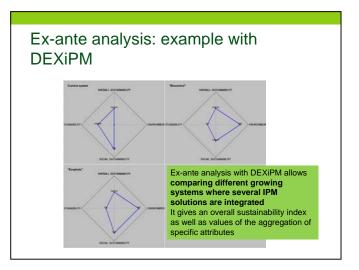
- Several insects communicate by odors (pheromones)
- Pheromone mating disruption: commercially available
- Others by vibrations: Scaphoideus titanus leafhopper

Collaboration between Research and Industry

Deliveen Research







Involvement of stakeholders

Evaluation and **farm open days** •Presentation of results •Discussion with farmers •Feedback on problems encountered and possible solutions







- A unique opportunity to share regulatory, scientific, and technological information
- The main objective is to promote knowledge exchange among scientists, companies, farmers, advisors, policy makers and supply chain stakeholders, and present approaches, tools and techniques to meet the future needs of European crop protection





5 – Presentation by Jacob van den Borne



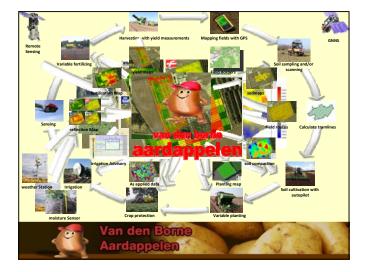
How do I get my knowledge?

Organize direct contact with the developers (machine builders, ICT, advisors, Universities)

Building an extensive network, by

- Supporting them with real life and real time precision farming data.
- Suggesting contacts with other key experts in the developing chains (machines, ICT, cropping systems)

ZLTO & Boerenbond help, Projects may help



Precision farming

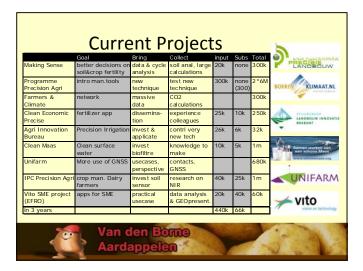
- Field mapping (GPS) 150 ha each year
- Soil mapping (samples and scans) 150 ha each year
- Calculating and optimizing position tramlines cultivation
- Shadow calculations and adoption of crop density
- Sensing techniques
 - Precision application crop protection and fertilisation
 - GPS and soilsensor irrigation
- Harvesting with yield mapping 450 ha each year
- Integration of all data











Suggestions for innovation

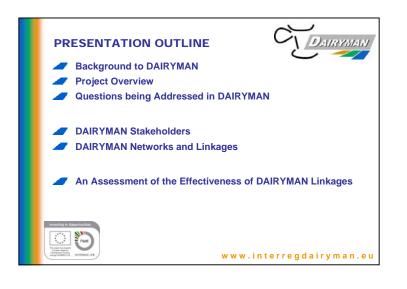
- Direct contacts between key users & experts
- Build networks for Open Data and apps.
- Exchange Farmers knowledge & data for research&development
- Public investment for key developers, with Intelligent steering by entrepreneurs (miles system)
- Coalitions business partners & stakeholders
 Van den Bome
 Aardappelen

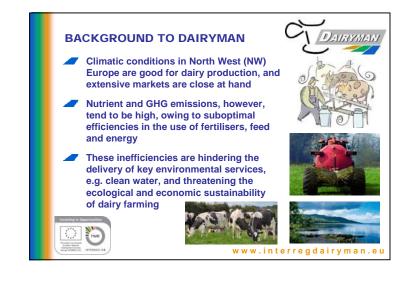




6- Presentation by John Bailey



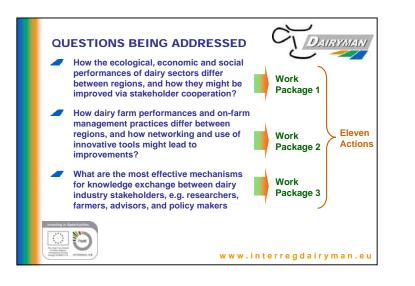




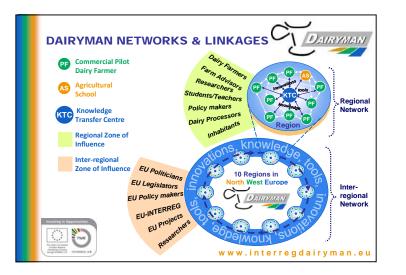


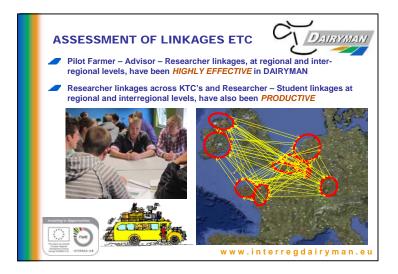




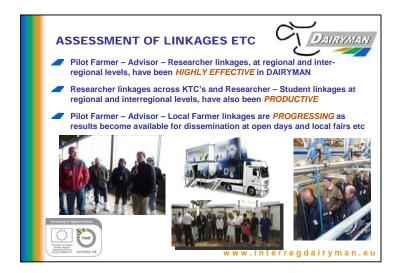


















7 – Presentation by Ilse Geysens



An example on reducing emissions from livestock

Ilse Geyskens Innovation Support Center for agriculture 19/11/2012

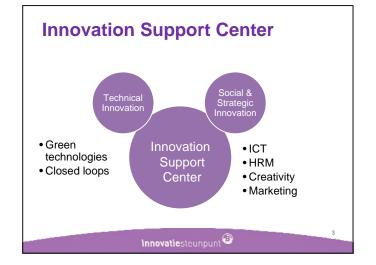
Innovatiesteunpunt

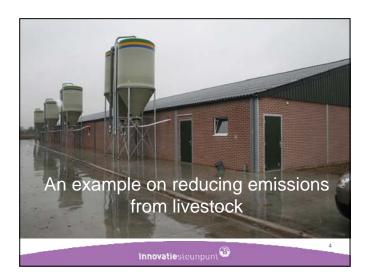
Innovation broker

 "an organization or body that acts as an agent or broker in any aspect of the innovation process between two or more parties. Such intermediary activities include: helping to provide information about potential collaborators; brokering a transaction between two or more parties; acting as a mediator, or go-between bodies or organizations that are already collaborating; and helping find advice, funding and support for the innovation outcomes of such collaborations."

(Source: Howells, 2006)

Innovatiestourn







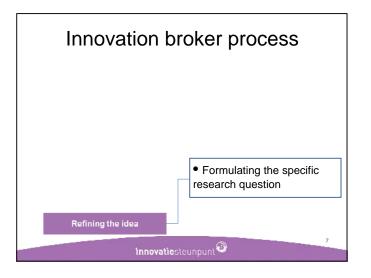
- National Emission Ceilings Directive (NEC, 2001)
- Flemish legislation
 - Emission manure spreading \downarrow
 - Emission animal houses (pigs & poultry) \downarrow
 - Limitative list of allowed systems (Decree 19 March 2004)
 - Dynamic list → innovative techniques

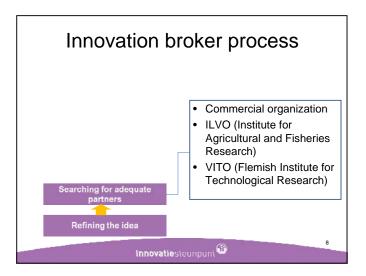
Origin of the innovative idea: an attentive farmer in a rented stable

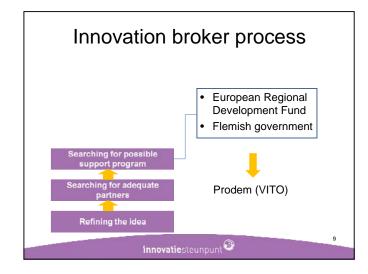
- Use of bacteria in the manure pit
 - \rightarrow Increased fluidity of manure
 - \rightarrow Less crust development
 - \rightarrow More homogeneous manure
 - \rightarrow Ammonia retained in manure; N/P ratio \uparrow

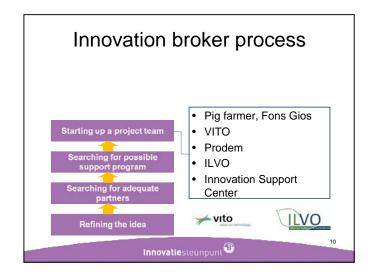
Innovatiesteunpunt 3

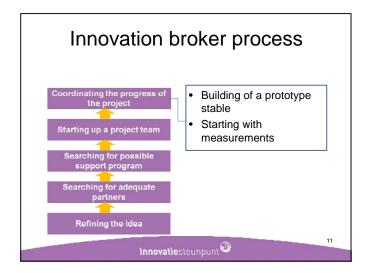
 \rightarrow Less ammonia emission

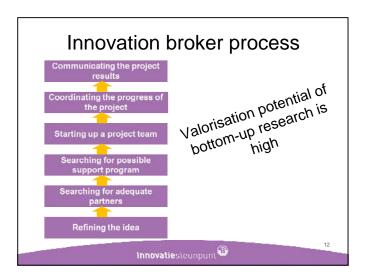












A new system for reducing GHG emissions at farm level ?

- First measurements look very promising
- A cheap and easy to apply system for reducing GHG emissions at farm level

More of this!

- Information Day on innovative horticulture with training session on sensor technology in tomato
 - Start of a small research project between Amaryllis grower and research institute (UGhent)
 - Application for a multi-actor research project to further optimise this technology for several horticulture crops

Innovatiesteunpunt 🕹





Innovation brokers

- Have the capacity for suggesting simpler, cheaper and easy to apply solutions
- Create the opportunity for researchers and farmers to meet and discuss

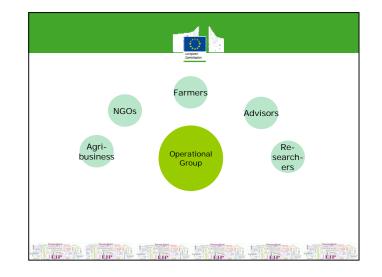
IF... well connected with agriculture & having the appropriate skills

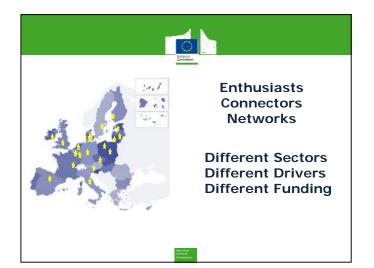




8 – Sum up

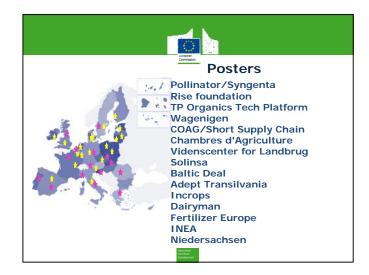






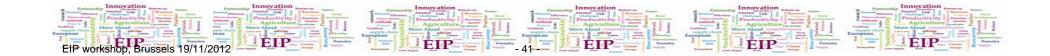


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WORLD CAFE





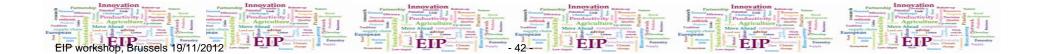
Which areas should be given priority in the EIP?

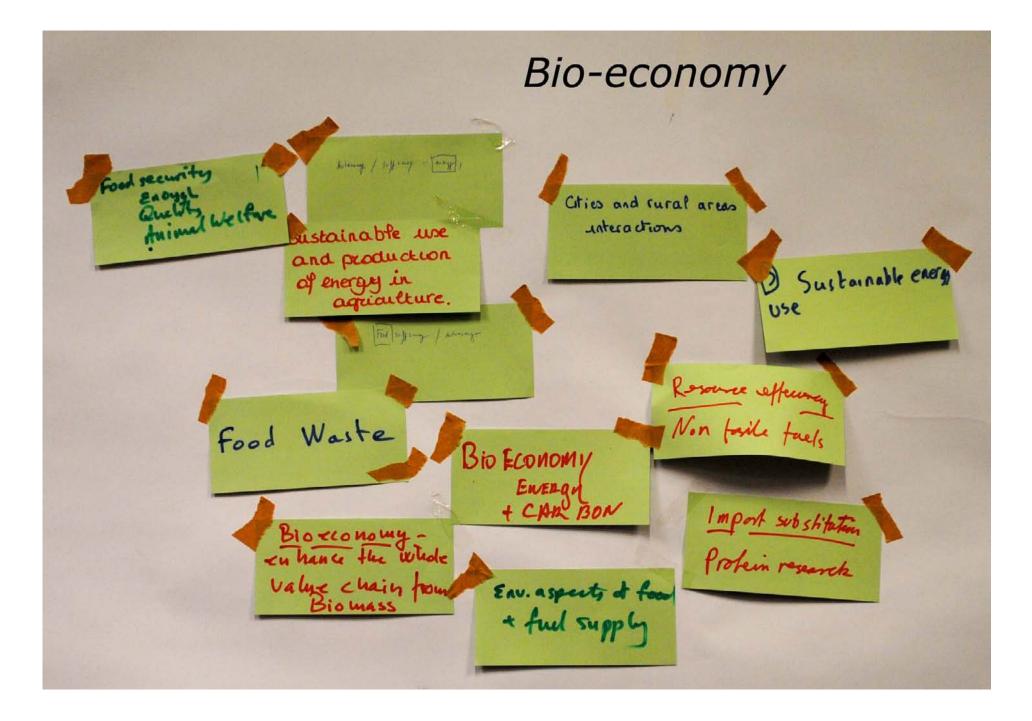
20 minutes debate

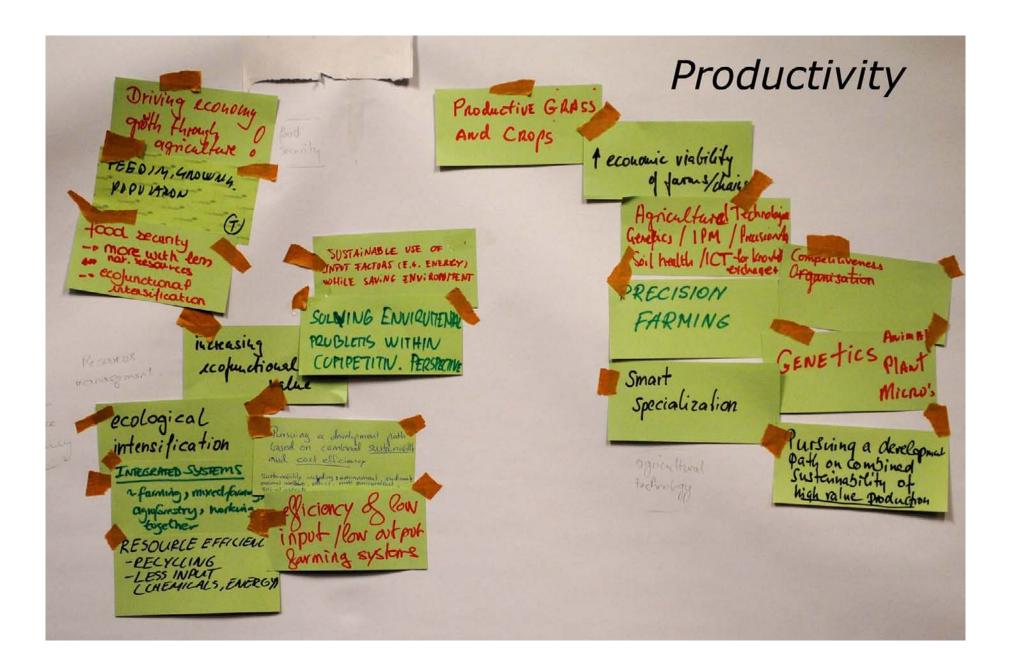
Table host to write a different issue on each of the three GREEN cards

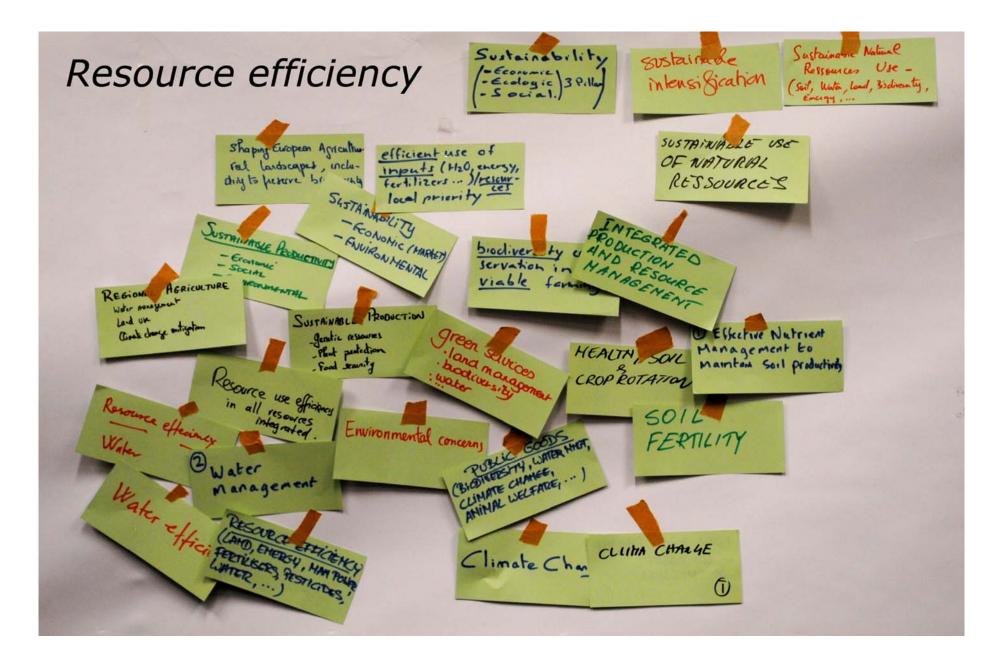
20 minutes feedback

Hostesses will collect cards, moderators will cluster issues















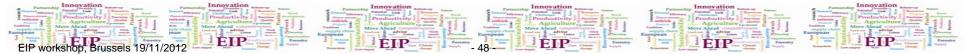
What can we do as innovation actors to accelerate innovation?

20 minutes debate

Table host to write a different issue on each of the three BLUE cards

20 minutes feedback

Assistants will collect cards Narrow down to three key learnings





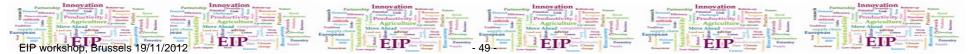
What support do we need from the EU/EIP network?

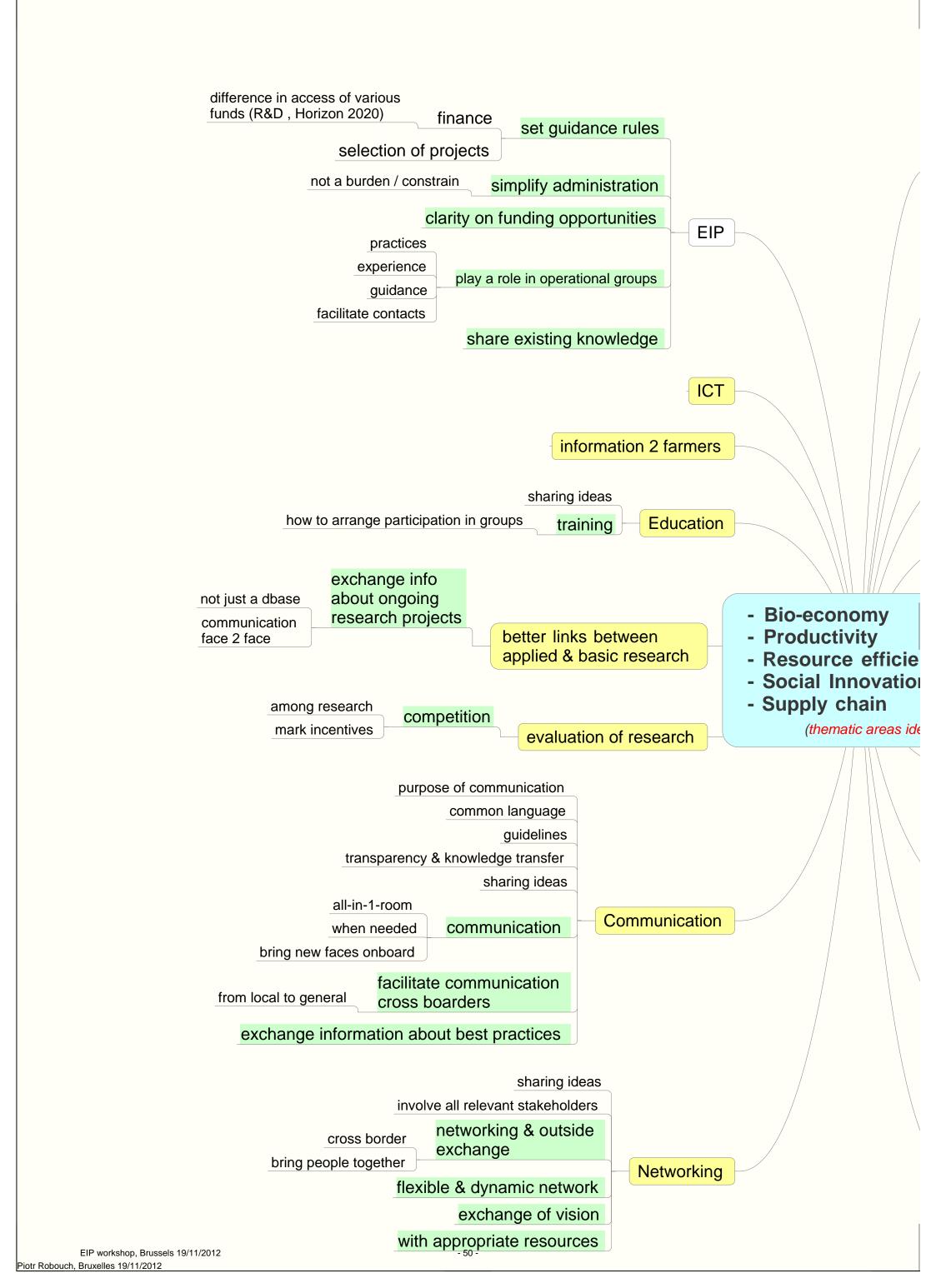
20 minutes debate

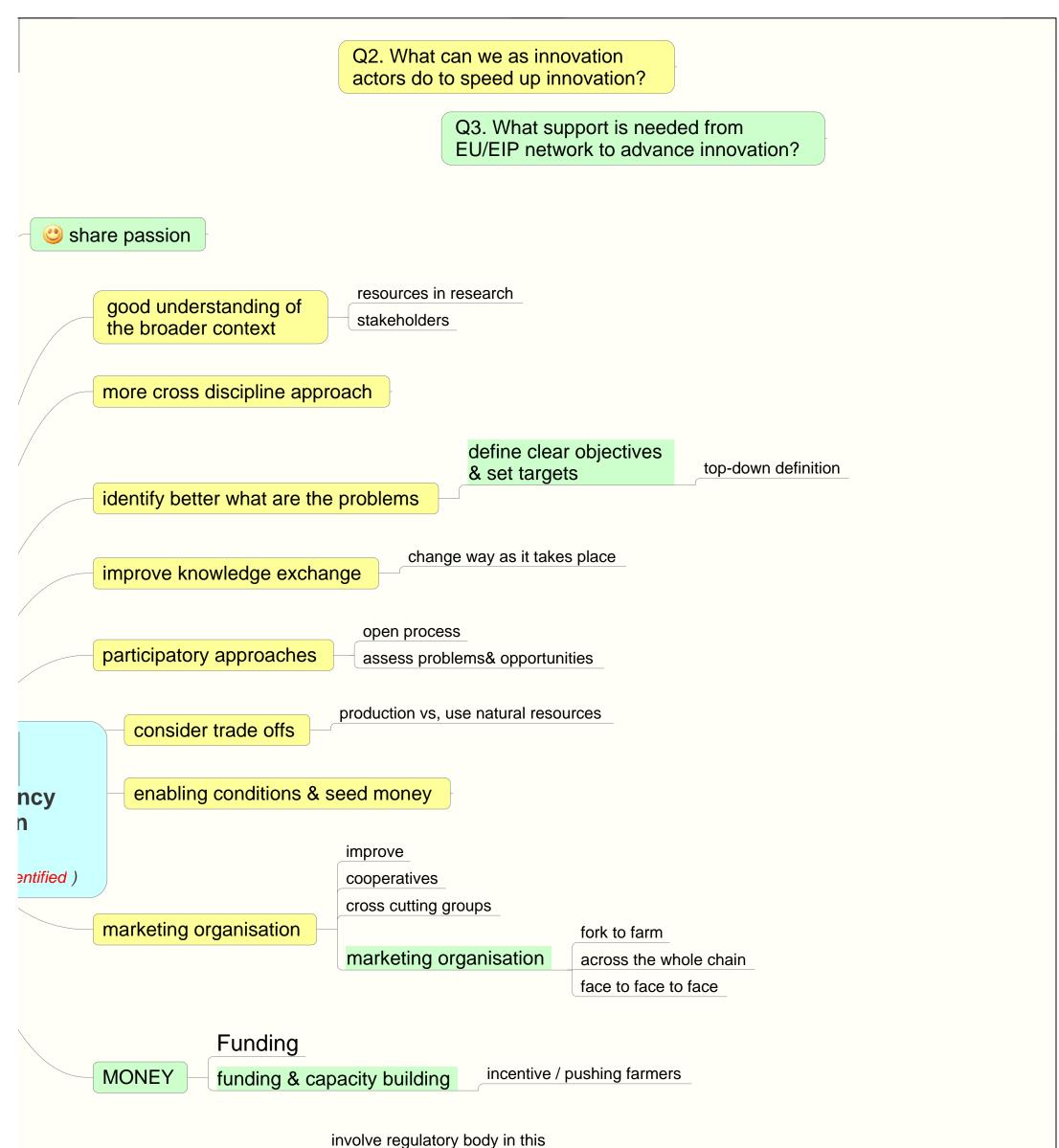
Table host to write a different issue on each of the three PINK cards

15 minutes feedback

Assistants will collect cards Narrow down to three key learnings



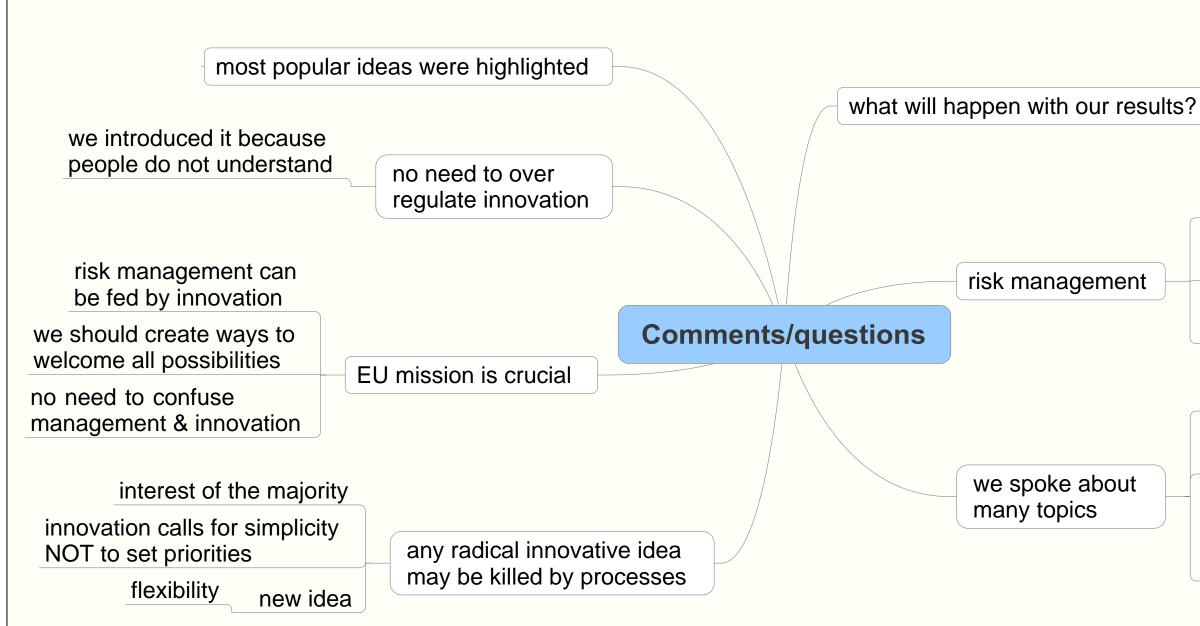






broader consultations

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to protect farmers from natural risks

if done well = full protection

how will it affect innovation?

how to connect with EIP

need to better distinguish

national level

EU levels

need to spell out clearer the implementation @ national level

RESOURCE EFFIENCY 2) WHAT CAN WE DO? 0 Identify rompetences & act points of identify night tayets Putting prosnue (>0 or <0 incentives like rewards / trans/....) monstand processes and players in a specific togion to impluence the process beachmenting farmers productivity / Sustrinebility level (motiontion) Scale up innovation o demonstration projects subsidizes (2) pilot schemes top private public thips (PPP) and & educate rescudes. farmers upstress ALTI ACTOR J'OUTSIDE BOUNDARY (CONSET PICING ZONE" eking Inordes eg. CITIZENS) Involve envt NGOS & D develop bottom-up projects COURO Ellino

Hoductivity OC. What can we do to speed-up innovation ? 1)- Have a good understanding on the broader context (future of agriculture, business.) and research resources 2) - Networking, communication, education, relevant info to farmers 3) (lear, relevant, appropriate regulatory framework (O.G. in vestments targeted ...), and involvement of regulatory bodies

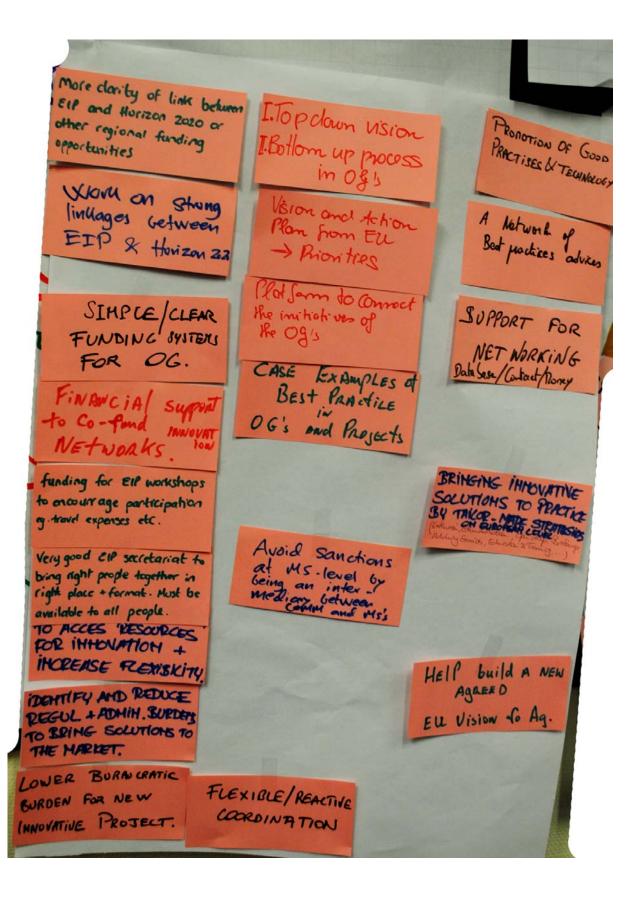
OA Resource Efficiency 2) What can we de? O Fortor out of the boxs " projects -edicpt alignihility NEW WAYS OF KNOWLEDGE EXCHANGE -GUIDANCE - BENCHMARKING -DIALDOUE learen Communication between formers + INTEGRATING RESOURCE EFFICIENCY resorchers ACROSS RESOURCES METHODOLOG + CHANCE: - ANDID REBOUND DEFECT "TAAMERS AT THE CORE" HEIR KNOWLEDGE + EMM JAVOLVE MENT TACILITATORY (ADVISORY ...) FINDING WIN-WIN SOLUTIONS & LOOKING NETWORKING: AT LONG. TERM PRODUCEDS, CONSUMERS ... (JEE CONSUMERS SIDE) CROSS-SECTORAL APPROACH 1) Improve Knarledge Oxd 2) More X disiplino/ 3) Hentify Loy problem

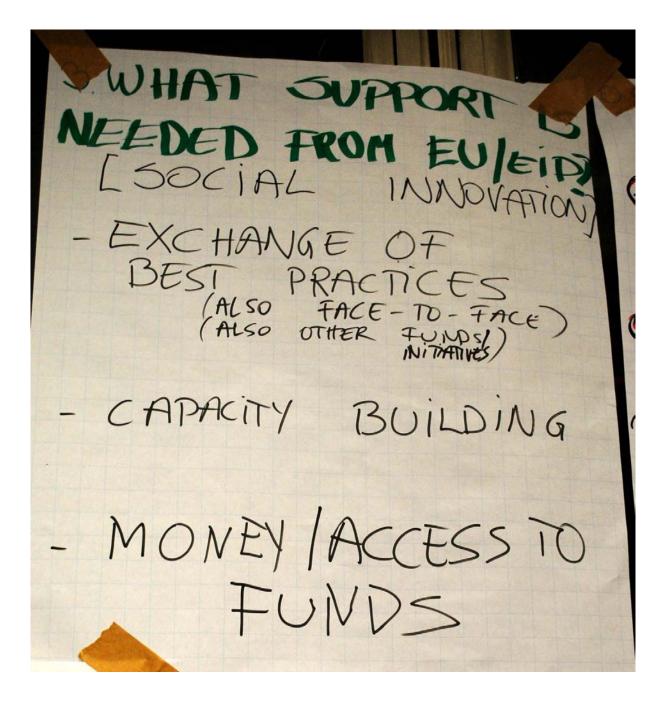
2 WHAT CAN WE DO AS INNOVATION TORS TO ACIELERAT INNOVATION? [SOCIAL - COMMUNICATIO Kr PARTICIPATORY APPROACH! OPEN INNOVATION -NETWORKING

WHAT CAN WE AS INNOVATION ACTORS DO TO SPEED UP CONNON SPACE FOR DISCUSSION ACREEMENTS, Speeding of thom Anade Offs a R Discussion it involve those who have to DEFINE PROBLEMS implement IN A GHMON LANGUAL ects 14 re- examine Subjects / themes legitimate the farming machicents speedingun Forms energy input systems of Should be lowerd roduction + - nolitical focus impacts offs use nto practice research awaveness involvings NEW WAYS ATTRACT DOURCES WAYS ATTRACT DOURCES WAYS ATTRACT PROVIDE ORF. TAL SEES FOUNDANT FINANCHNI "PROVIDE SEES FOUNDAST CERTAINTY TRANSFE Enabling

NETWORK with DiRECT BISE OF NEW TECHNOLOGY Integration of LINK ICT, GENETIC, SOMET TEM IENS = Common FARTERS ADVISOR RESEARCH. CONSUD THE RS 06 sectives Regulation is often CONDN LANGUNGES KNOWLEDGE and obstacle. Show I de included in the Bame approth, some milleditory, some vorability EXCHANGE. innovation proces MATCHING THE Design measures ! that DEFINE VERY CLEAR RIGHT PEOPLE support innovation CONCRETE GOALS FOR INHOVATION . (VISION !) Simmle Process better communication Need of a busimons of founding pero pective forme unionable Solution (-> dialogue baturen Scientists) channels my better DES integration NEW CHANNels for better link applied + basic Communication R.D + increase sharing AND INFLUENCE knowledge + practire DATA - BASis Versus economic survival - More shimulahon open for LINK INVESTIGN Knowledge - REMOVE BLOCKS Advisens As SYSTEMS APPROACH ModERAtors PROVIDE SUFFICIENT RESOURCES + GOOD GOVERHANCE OF RESOURCE USE.



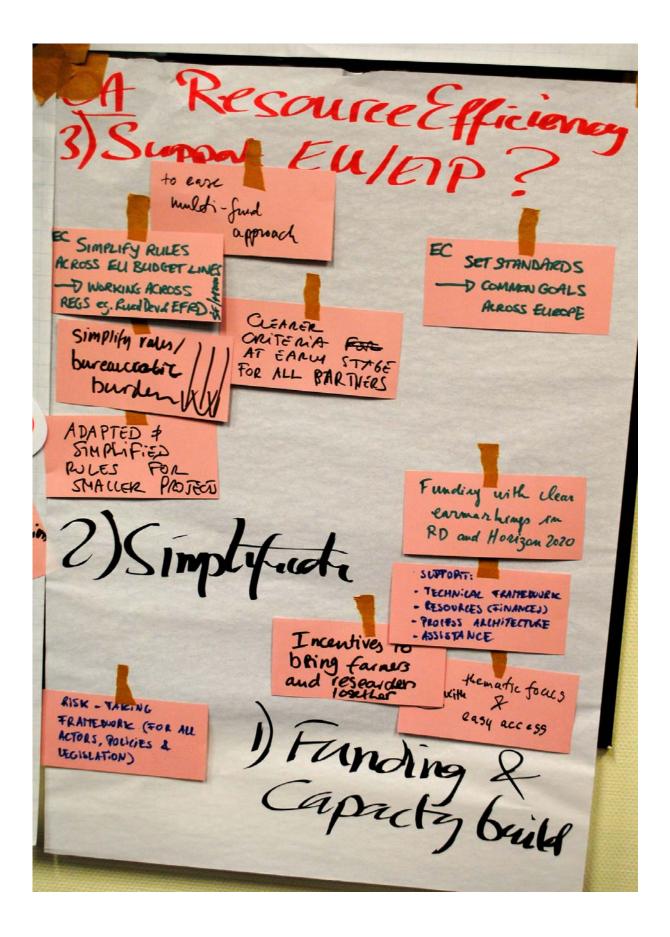




Roductinty What support ? 1 Clarity on: - Funding opportunities (RDP / H2020) 2) Administration to facilitate the dupt of innovation ... EIP-metwork - exchange between O.G (Actions, plans, experience, practices...) - suidance for O.G. . Contacts (researchers, formers org. ... connecting Supplie (demonds - Consider existing knowledge - flexibility SHARE - exchange on visions TO HAVE IT WE

AT SUPPORT IS NEEDED FROM THE E.U/E.I.P NETWORK TO ADVANCE INNOVATION? befine chea Criteina objectives and Sel clean taiget arket UISEU. allection LECTION, OT: EU please clear LOLUTION, OT: EU please clear LOLUTION, Autom CX pectations HELP TO IDENTIFY ISCURICATION REAL NEEDS BASERTS CARLON INNOVATION help meet needs incentives cel wide campetitie right e let slative e.g. woste Ligisladios versus use HOW INTEREST REOM FARMER . AND RESEARCH Ŧ K Integrated approach UEC IM ANA SEMENT DLE "CLASSIC" farns mobilidu + Spokes skilled interpreter relieve services help farmers go out there + start op ideas markets

-A Resource Efficiency Support EN/OB EULEIP PRINTIDINE EXPERTISE IN PROBLEM SOLVINSE SUPPORT TO UPSCALE (FOR FARMERS) Rg. DEMO FARMS PROT ARGECTS -JIMECERING NETWORKS - BRINGING NEW ACTORS - CONMUNICATING Accent Lists of institution Emme Inclusioners Persons who are to all within and willing to co-operate Vet usen all stakholder groups. Facilitation to CROSS BOARDERS Inild metworks FOCUS GROUP INVOLVING NMS Efficient Evoss. border duowledge exchange 3) Networky & Communicate











Agricultura de Responsabilidad Compartida Farmer's Network for Short Food Supply Chains of Agricultural Products in Spain



Together we can save the Ball Sea

Cost-efficient measures	Advice	Knowledge exchange
Research	Innovation	Investments
Business opportunities	Joint policies	Meaningful governance
EXAMPLE AND ADDRESS AD		



Creating Transparency - from the counter to the producer Transparenz schaffen - von der Ladentheke bis zum Erzeuger

Main Intention:

to successfully arrange good communication between rural producers and young food consumers

Zentrales Anliegen:

Kommunikation zwischen ländlichen Produzenten und jungen Konsumenten von Lebensmitteln erfolgreich gestalten

Approach:

Implementation of on-site learning activities and educational events on fams and other enterprise along the food chain. tution of regionally guided net ing for the involved farming and food e



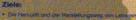
Vorgehen:

Durchführung von Bildungsveranstaltungen und Aktionstagen direkt vor Ort, auf landwirtschaftlichen Betrieben und in anderen Unternehmen der Nahrungsmittelkette. Aufbau regional gesteuerter Netzwerke der in das Projekt eingebundenen Betriebe und Institutionen Aus- und Fortbildung der beteiligten Wirtschefts-akteure zur Kommunikation mit jungen Verbrauche



OHID

ELER Report



- En reflektertes wie gasundheitsorientiertes Ernähnungs- und Konsumverhalten entwickein.
 Oon beteiligten Wirtschaftsakteuren eine bestere Einschätzung
- vermittlung e Reseourcen für
- cke in Berufar ke in Berufsperspektiven ermöglichen, die die regior und Ernährungswirtscheft bietet.

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Contact Brusses Termin Constant of Agriculture + KLA Photom of Constants Ture in Science (Science (Sc

Gefördert aus Mitteln des Landes Niedersachsen. der Freien Hansestadt Bremen und der Europäischen Union



- Making the pronce and production routes of food products visible anding of fur

- on of kne
- or charagnet expectations. Establishing the contact with consumers and the provides additional economic resources for farmers. Providing basic insights into the professional perspect the regional farming and food industries have to offer.



Outcomes: Participating in the project are:

- about 46,000 pupils per year
- + from about 2,400 classes 44 regional educational providers which coordinate the work at the locations
 - Ergebnisse: Am Projekt nehmen teil:

rund 46,000 Schölennen und Schöler pro Jahr

- aus ca. 2.400 Schulidassen
- 44 regionale Bildungsträger, die die Arbeit vor Ort kootdinieren

Niedersachsen · Netzwerk Nachwachsende Rohstoffe Kompetenzzentrum

3N Kompetenzzentrum Kompetent - Unabhängig - Innovativ

3N ist die zentrale Anlaufstelle für Informationen über Nachwachsende Rohstoffe und Bioenergie in Niedersachsen.

3N Service

- Förderung von Innovationen
- Technologietransfer
- Umsetzungsberatung
- Machbarkeitsstudien
- Projektbetreuung / Vermittlung von Partnern

Träger des Kompetenzzentrums:

Emsland Niedersachsen





Competent - Independent - Innovative

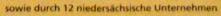
3N is the central point of contact for information about renewable resources and bioenergy in Lower Saxony.

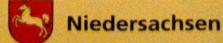
3N key activities

- Consultancy
- Information
- Innovation
- Projects

3N wird gefördert durch:

Wiedersachsen Emsland





Sie kennen unsere Pferde. Erleben Sie unsere Stärken.

Verband der Landwirtschaftskammern

Netzwerke in Europa Bildung Selbstverwaltung Versuchswesen Marktberichte Beratung **Oualitätssicherung** Untersuchungen Ländliche Entwicklung Förderung Stellungnahmen Agrarverwaltung



EUROPEAN FRUIT RESEARCH INSTITUTES NETWORK



EUFRIN Working Groups:

EUFRIN Working Groups: Apple and Pear Variety Testing Stone Fruit variety evaluation Plum and prune Suft fruite Rootstocks for fruit trees Fruit thinning Water relations Spray application technique Sustainable fruit production to minimize residues Fruit quality Improvement of fruit by biotechnology

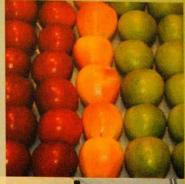
About EUFRIN

EUFRIN is an informal, voluntary organization of university departments and research institutes that specialize in research, development, innovation and extension on temperate fruit crops and which are based within European countries.

The first meeting was held in Bonn in 1993, attended by representatives of Germany, France, Netherlands, United Kingdom, Switzerland, Belgium, Denmark, Greece and Italy. In the years since, many more countries have been invited to and have Joined EUFRIN.

EUFRIN general objectives:

To prepare and submit joint bids for funding of R&D. To enhance and facilitate coordinated research, development, innovation and technology transfer, focused on aiding sustainable production of quality fruit. To establish and improve cooperation between those involved in fruit. R&D within Europe. To create a philosophy of fruit production through research and education.







EUFRIN-derived research projects/networks:

DARE HIDRAS ISAFRUIT CLIMARRUIT EUROBERRY ERWINIA SHARCO COST projects on fluits FRUIT BREEDOMICS



Innovative approaches to maintain Romania's **HNV farmed landscapes**

Fundatia ADEPT Transilvania www.fundatia-adept.org

PROBLEMS

Gains in agricultural productivity in Europe rely on unsustainable levels of inputs, and have come at the cost of significant environmental damage. This is a threat to food security, and to other public goods and ecosystem services. The need to repair these damaged farm ecosystems, to secure our European future, is recognized by the Greening of the CAP 2014-20. This trend will also extent to parts of Europe whose farm ecosystems are still healthy. The EU recognises the importance of High Nature Value (HNV) farmed landscapes, characterised by small and traditional farms, which still supply many valuable public goods and ecosystem services. How can we avoid the same pattern of unsustainable and destructive development being repeated in these better-preserved farm ecosystems?

A SOLUTION

Training of individual

farmers, and of farmers'

associations, to increase

their capacity to carry

out individual and joint

actions

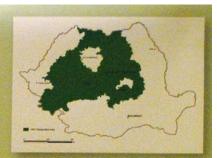
Since 2005 Fundația ADEPT has been implementing a training and information programme in Romania. This has demonstrated that imaginative, integrated use of Rural Development measures can succeed in supporting farmers and communities in sustainably farmed landscapes. This requires innovative approaches to: local communication to overcome barriers to access to measures · local advice to effectively integrate and implement available measures · local training to link measures to commercial initiatives and economic viability.

One-stop shop for farmers, providing information on a wide range of topics: applications for measures; obligations linked to measures; food safety and hygiene regulations for processing and direct sales; marketing.

> Information groups for farmers, packaging information and channeling it through farmer groups. Using SMS in cooperation with Orange Romania. Links to National **Rural Development Network.**

> > THIS CIRCLE SHOWS HOW LINKED ACTIVITIES OF FUNDATIA ADEPT ARE INCREASING THE ECONOMIC VIABILITY OF SMALL-SCALE FARMS, COMMUNITIES AND SUSTAINABLY FARMED LANDSCAPES

Innovative processing to assist micro-producers, and to overcome authorization problems



ROMANIA AS A CASE STUDY

There are about 3 million hectares of High Nature Value farmland in Romania, managed by hundreds of thousands of farmers. The survival of these rich agricultural ecosystems depends on support for the small-scale farming communities that live within them and maintain them.

Romania has been very successful in implementing agri-environment schemes. But this on its own is not enough to create socio-economic viability in these communities and landscapes.

Romania's, and wider Europe's, HNV farmed landscapes can only be maintained by INNOVATION and INTEGRATION. The scale of this problem is significant, 30% of the EU's farmland is HNV, extremely important for Europe's environmental and food security, but under threat owing to loss of economic viability.

> Policy development through cooperation with the Romanian Ministry of Agriculture & Rural Development, and consultations with DG Agriculture, so that design and implementation of measures in current and future Rural Development Programmes are informed by ADEPT's practical experiences.



such as innovative mountain

bike trail networks which link

and income to the area.

guesthouses and attract visitors

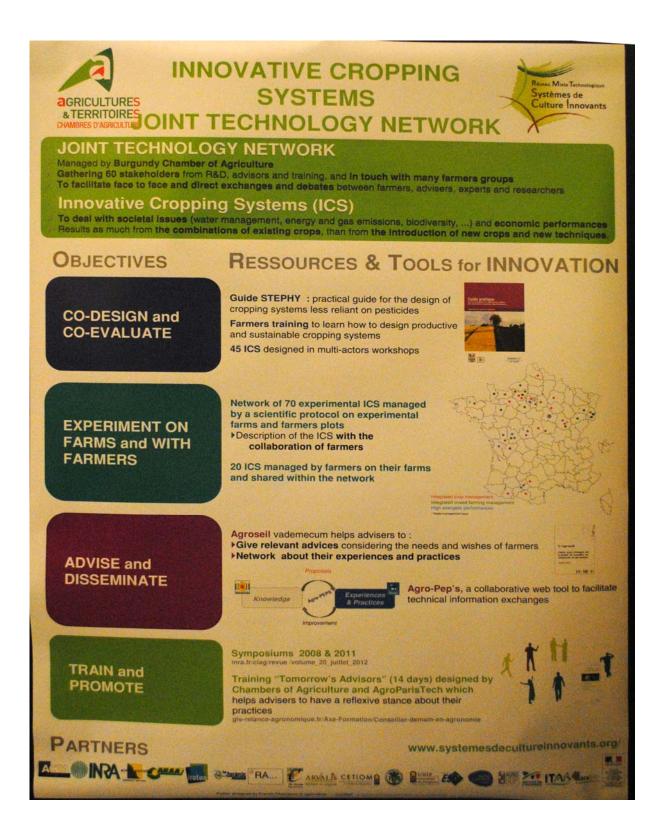
publicity. With Orange Romania, we are developing mobile phone apps for use by consumers. Imaginative diversification

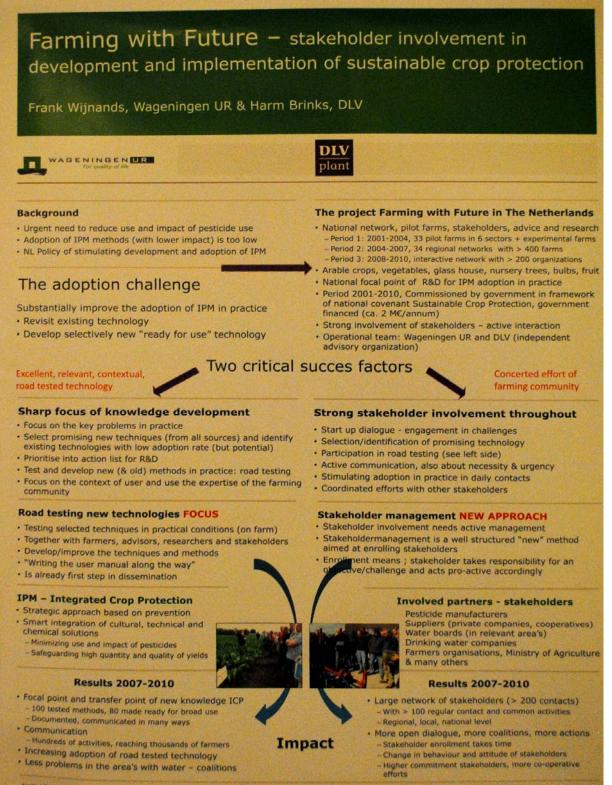
Marketing initiatives, developing modern brands and packaging, producer groups, short supply chains and genuine farmers' markets across Romania

ADET RECENT

The impact of this integrated information programme has been remarkable ... increased local incomes of over 62m per year for 2.000 small-scale farmers in the Tarnava Mare area, increasing farm viability and community prosperity while supporting sustainable farming practices.

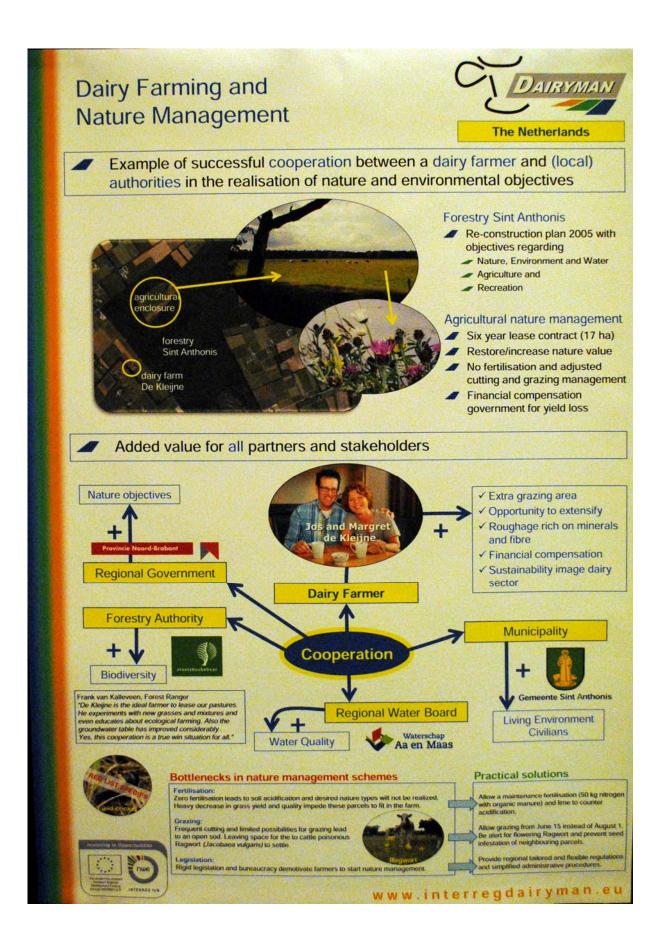
Innovative machinery for management of traditional grasslands under agri-environment schemes, but suited to modern expectations.





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7001, 6700 CA, Wageningen, the Netherlands h. brinks@divplant.nl







Agricultural Knowledge Systems In Transition: Towards a more effective and efficient support of Learning and Innovation Networks for Sustainable Agriculture

SOLINSA – linking innovation networks and knowledge systems

Heidrun Moschitz, Project co-ordinator, Research Institute of Organic Agriculture, Switzerland



Objective

SOLINSA studies networks of innovative European farmers as they implement sustainable agriculture and spreads the lessons learnt across Europe.

Barriers will be identified and we will explore how policy, research , education and advisory services can support them in effective ways.

The concept of LINSA as 'Learning and Innovation Networks for Sustainable Agriculture' has been developed by the experiences and scientific reflections of the researchers. It will be further developed throughout the project.

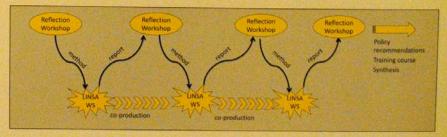
LINSA

- are networks of producers, local administrations, formal AKIS components, SMEs, and civil society
- create mutual engagement around sustainability goals in agriculture and rural development
- are open to ideas from outside
- facilitate learning, change, and innovation



Our Approach

We apply a transdisciplinary methodology linking research and practice in order to produce results that can be applied in the field.



First results

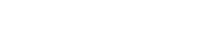
- Comparative analysis of the AKIS in the eight partner countries
- Exploration of LINSA's scope and governance structure of 17 cases in the eight partner countries
- Reflection of outcomes with experts linking to AKIS policy and practice across Europe

Partners in SOLINSA

Research Institute of Organic Agriculture, Switzerland; University of Pisa, Italy; University of Gloucester, University of the West of England, Bristol, England; Wageningen University, The Netherlands; AGRIDEA, Federal Institute for Technology, Switzerland; Baltic Studies Centre, Latvia; French Livestock Institute, France; University of Hohenheim, Germany; Institute of Economics of Hungarian Academy of Sciences, Hungary

FiBL

For further information: www.solinsa.net



WAGENINGENUR For quality of life

Innovative farmers, facilitating researchers and a stimulating government

Developments in EU:

- Horizon 2020: tackling societal challenges, creating industrial leadership
- · European Innovation Partnership: closing the innovation gap, working with stakeholder networks
- · CAP reform: end of support product price
- · More focus on sustainability, chain innovation and biobased economy

Challenges European farmers

- · From optimization of the farm to innovation on the farm
- · From price support to customer value

Interactive strategic management Interactive training in groups of 8-12 farmers facilitated by tools and qualified trainers. Goal is to develop strategic skills, an individual farm strategy and

- From production skills to entrepreneurship
 From sector orientation to society orientation
- · From a hindering regime to an entrepreneurial climate

Dutch Approach

Goal	Concepts
Farmers improve entrepreneurial skills	Interactive Strategic Management Innovative networks
Farmers recognize and realize opportunities	Development of business plans and new Product Market Combinations Co-innovation Lead user innovation
Stakeholders improve entrepreneurial climate	Regional transition approaches Stakeholder management

- Network approach with innovation
- brokers / free actors

Innovative networks and innovation brokers

Farmer networks develop new business or technological innovations facilitated by a 'free actor' or innovation broker



Co-innovation

Co-creation by farmers, researchers and other relevant actors of sustainable farming systems. For example the case of Rondeel: innovative housing for laying hens.



Regional transition

Development of a regional research & innovation agenda and new regional opportunities. In cooperation with private sector, policy makers and researchers



Why (not) these approaches in the EU?

- No copy-pastel!
 Mutual inspiration and tailor made approaches
- Decontextualize en recontextualize European practices
 Connection with EU policies and facilities?
- · How do we go forward?



action plan.

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Agricultural Knowledge Systems In Transition: Towards a more effective and efficient support of Learning and Innovation Networks for Sustainable Agriculture

Building innovation around food: LINSA Crisoperla

Gianluca Brunori, Adanella Rossi, Elena Favilli

Why this LINSA?



An association aimed at promoting organic farming, closer relationships between producers and consumers, local economy. It involves organic farmers and fishers, technicians, consumers' groups and associations, small food artisans Its network is part of other local networks.

linking consumers and producers organizing farmers' market

Functions of the LINSA organizing farmers' market providing and sharing technical support activating learning among producers and between consumers and producers interacting with public institutions and civic movements

The beginning

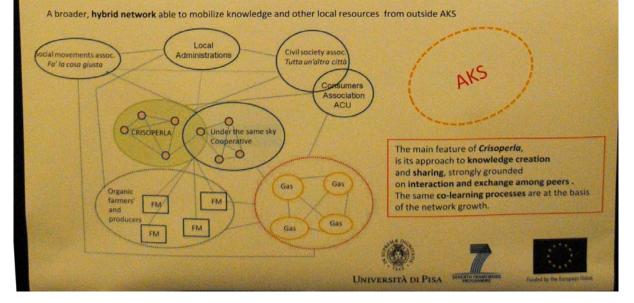
2006. Two technicians start their collaboration giving technical assistance to organic farms within a project funded by the Regional Government of Tuscany.

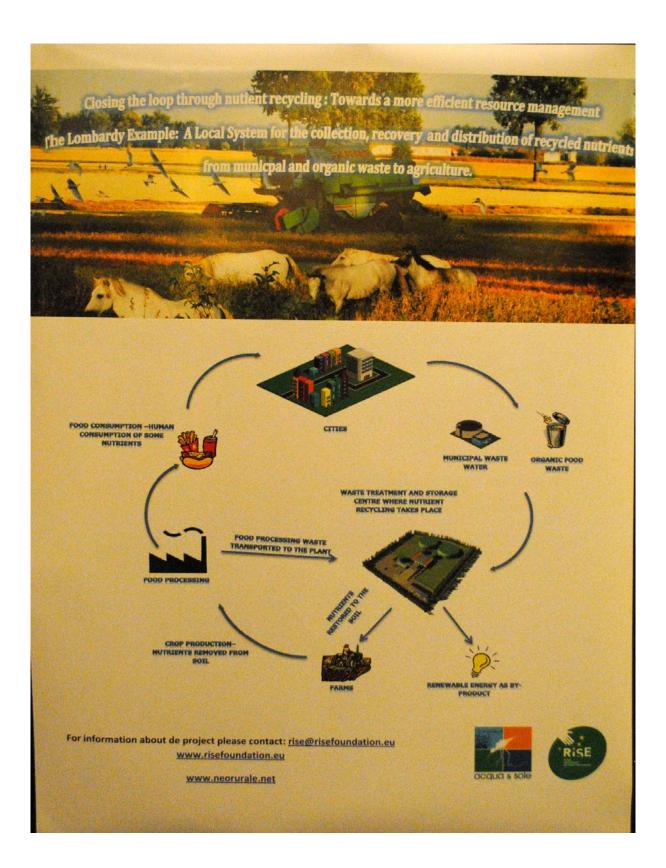
2007. They follow a course on communication and project planning funded by the Regional Government.

2008. After the course they **start to network** with organic farmers and honey producers. Together with them they **apply to other projects funded by the Province of Massa**. The group consolidates to a number about ten farms. 2009. The two technicians get in contact with GAS (solidarity purchase groups) of Massa province. They favour interactions between GAS and farmers. Together with other associations, they help organic farmers to organize farmers' markets in the province.

2010. Some GAS members and the group of farmers decide to create an association, *Crisoperla*.

The network now





PROGRAMMA LANDBOUW

 Nieuwe technieken om in te spelen op de specifieke lokale (bodem) omstandigheden.

 Optimale efficiëntie van gewasbeschermingsmiddelen, meststoffen, brandstof en water.

controlled traffic

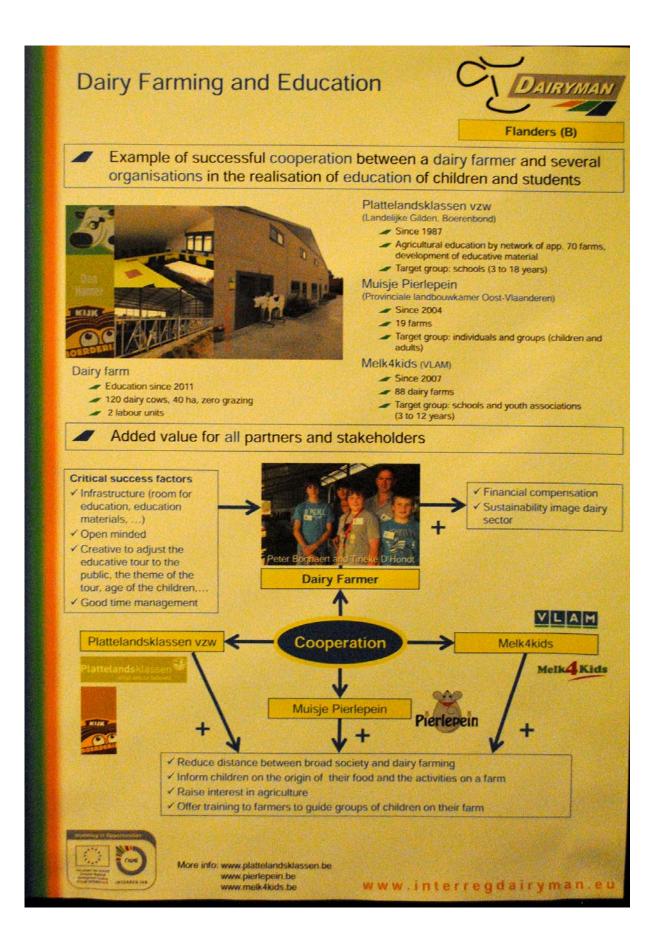
farming

In het Programma Precisie Landbouw (PPL) investeren het landbouwbedrijfsleven en het ministerie van LNV in hulpmiddelen en voorwaarden voor innovatieve Controlled Traffic Farming, Bemesting en Gewasbescherming.

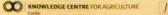
www.pplnl.nl

gewasbescherming

bemesting

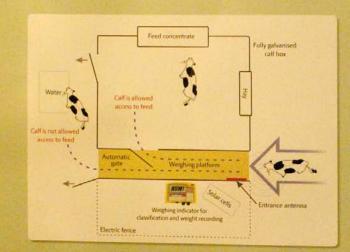


The Intelligent Calf Feeding Box



JYFA Engineering

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- The Entrance antenna identifies the animals by their electronic ear tag.
- The intelligent call feeding box lets you control which animals from the herd should have access to concentrate. All the animals are weighed by walking through the box on a 'Walk-Over Weighing'. The animak do not have to stop to have their weight recorded.
- The power supply for the box is from a battery recharged by solar cells.
- The Weighing platform with the weighing indicator is removable and can be used in the field as well as
 in the bars.
- Weighing data will be transmitted via Dyneregistrering to The national cattle Database and could be retrieved from the control list.

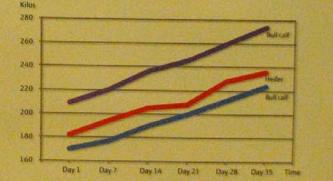
Knowledge Centre for Agriculture, Cattle, Denmark¹ has developed an intelligent calf feeding box for use in beef cattle herds.

The 2011 Annual Workshop New Technologies and new cholle for breeding and herd management

The box has been developed in cooperation with the companies of JYFA Engineering" and TRU-TEST*



Weighing data from the intelligent call feeding box. Calls are weighed every time they visit the box. The three calls are all Canocesne.



DLBR

