

INtegrated Spatial Planning, land use and
soil management Research ActTION



1st Policy Oriented Workshop

Brussels, 30 June – 1 July 2015



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WELCOME

- Dominique DARMENDRAIL, WP5 Leader



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Land and Soil - Sediment - Water Systems / at the political agenda

- Meeting societal needs such as food, drinking water, energy production, shelter, infrastructure and overcoming societal challenges and ambitions (climate change, biodiversity, etc.)
- Multiple scales (from global scale - their role in climate change adaptation and mitigation to more local scales like river basin management or food security)





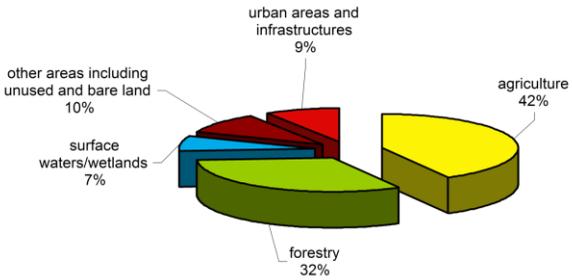
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Distribution of land use in the European Union



Land Use Category	Percentage
agriculture	42%
forestry	32%
other areas including unused and bare land	10%
urban areas and infrastructures	9%
surface waters/wetlands	7%



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Tour de Table

- Recalling names and faces
 - Name, institution, interest in INSPIRATION activities





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Agenda

Tuesday 30 June 2015 - Morning

- Meeting Objectives – [Paul NATHANAIL](#)
- Short presentation of the INSPIRATION project – [Detlef GRIMSKI & Stephan BARTKE](#)
- Case Study: the Netherlands vision & related needs - [Margot de CLEEN \(NL\)](#)
- Case Study: Global Soil Partnership vision & related needs - [Aracely CASTRO ZUNIGA \(FAO\)](#)



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Agenda

Tuesday 30 June 2015 afternoon

12:45 - 13:45	Lunch
13:45 - 14:00	Questionnaire for each participant: Your own challenges on the Soil and Land, your current ways for solving remaining gaps in knowledge
14:00 - 16h00	World Café™ on: <ul style="list-style-type: none"> - The research needs and knowledge gaps - How to implement the strategic research agenda: funding, dissemination & intellectual property rights 1 time by stakeholder community group 1 time in mixed group
16:00 - 16:30	Coffee break/ compilation of World Café results
16:30 - 17:00	plenary summary of results by each table chair Wrap-up
19.00 --21.00	Dinner to continue informal discussions


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Agenda

Wednesday 1 July 2015 morning

8h45 - 9:00	Welcome Café
9:00 - 9:30	Summary of the first day / combined with Global Soil Week Session
9:30 - 11:30	World Café on research programming: Land / Soil in H2020 / JPIs / ERDF / National Programmes
11:30 - 11:45	Coffee & Assimilation of World Café results
11:45 - 12:15	Plenary summary of results by each table chair Wrap-up
12:15 - 12:30	Follow-up and Closure
12:30 - 13:30	Lunch


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H2020 CSA “INSPIRATION“ Scope, Methodology and State of Implementation

Detlef Grimski, Stephan Bartke
Federal Environment Agency Germany
Policy workshop Brussels 30th June 2015




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Content

- **EU H2020 call on a CSA topic “Structuring research on soil, land-use and land management in Europe”**
 - Objectives
 - Expected impact and products
- **INSPIRATION**
 - Consortium at a glance
 - Objectives, concept and approach
 - Work Packages
- **State of implementation**
 - National information collation
 - Dissemination
 - Expanding the network
- **Outlook**



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Societal Challenges 5: Growing a low carbon, resource efficient economy with a sustainable supply of raw materials

Selected SC5 Topics

- 08-2014: Preparing & promoting innovation procurement for soil decontamination
- 09-2014: Consolidating the European Research Area on biodiversity and ecosystem services
- 10a-2014: Enhancing mapping ecosystems and their services
- **10b-2014: Structuring research on soil, land-use and land management in Europe**
- 11a-2014: Mining of small and complex deposits and alternative mining
- 11b-2014: Flexible processing technologies
- 13a-2014: Mineral deposits of public importance
- 13b-2014: Strategic international dialogues and cooperation on raw materials with technologically advanced countries
- 14-2014: Consolidating global knowledge on the green economy in support of sustainable development objectives in Europe and internationally



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Objectives of Call SC5-10b-2014

- Better **coordination** of often **fragmented research**
- Innovative ways to **mobilise** all relevant **actors, increase policy coherence**, resolve trade-offs, manage conflicting interests, increase participation of citizens in decision-making and improve public awareness and business uptake of research results.
- **Creation of European networks to facilitate dialogue among the relevant scientific communities, funding bodies and user communities in Europe**
- Clustering, coordinating and creating synergies between international, European and nationally funded research and innovation actions,
- Developing **joint programmes and projects**,
- Creating links with related international programmes,
- Improve science-policy interface
- Aligning research with decision-making requirements.



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SC5-10b-2014: Expected Products and Impacts

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- **Network** of funding agencies and other key players in Europe
- Joint vision and a **Strategic Research Agenda (SRA)**
- Evidence-based policy and appropriate, cost-effective management, planning and adaptation decisions
- Enhanced impact of research and innovation activities through
 - better identification of R&I priorities,
 - improved coordination of EU and Member State/Associated Country research and innovation programmes and funded activities,
- Synergies with international research and innovation programmes.



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21 INSPIRATION Partners

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- **INSPIRATION** = **IN**tegrated **S**patial **P**lanning, land use and soil management **R**esearch **Ac**TION
- Initiated by the **German Federal Environment Agency**, University of Nottingham, Stadt+, Common Forum, Deltares
- Funded by EC under Grant Agreement No. 642372
- Duration: 36 months (1 March 2015 - 28 February 2018)



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21 INSPIRATION Partners

**16 countries &
International
Advisory Board**







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EU Policy and Research

Policy

No net land take by
2050

- EU Soil Strategy - 2006
- EU 2020 Strategy
- Road Map for a resource efficient Europe

H 2020

Research and innovation (R&I)
that will help Europeans
achieve meaningful,
harmonious and lasting
existence in the face of
significant driving forces



Research on soil and land issues

- Contribute to food security and food safety
- Ensure secure supplies of safe drinking water
- Secure energy supply and distribution

- Reduce Raw material and resource consumption
- Ensure efficient use of natural resources
- Contribute to climate change mitigation and societal adaptation.



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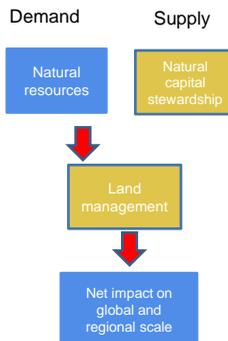
Our Conceptual Model

Our Premises

- Improve efficient use of knowledge by a **demand driven** SRA
- Ensure success in addressing **societal challenges** by a broad **Policy - Science Interaction**
- Establish a **transnational network** of funding bodies and cooperating industries/regions by recognition of **individual demands** in the SRA

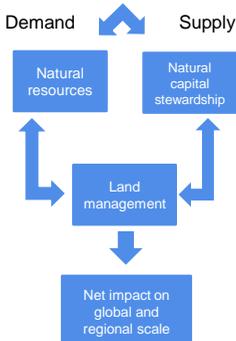
Current situation

Imbalance of Demand and Supply



Objective

Balance of Demand and Supply





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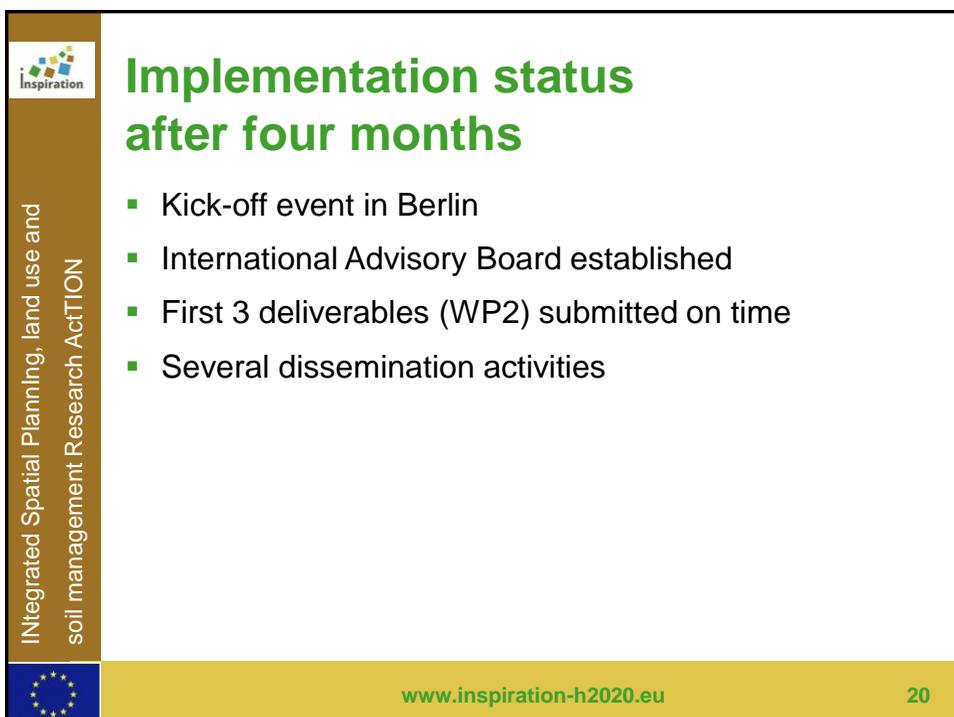
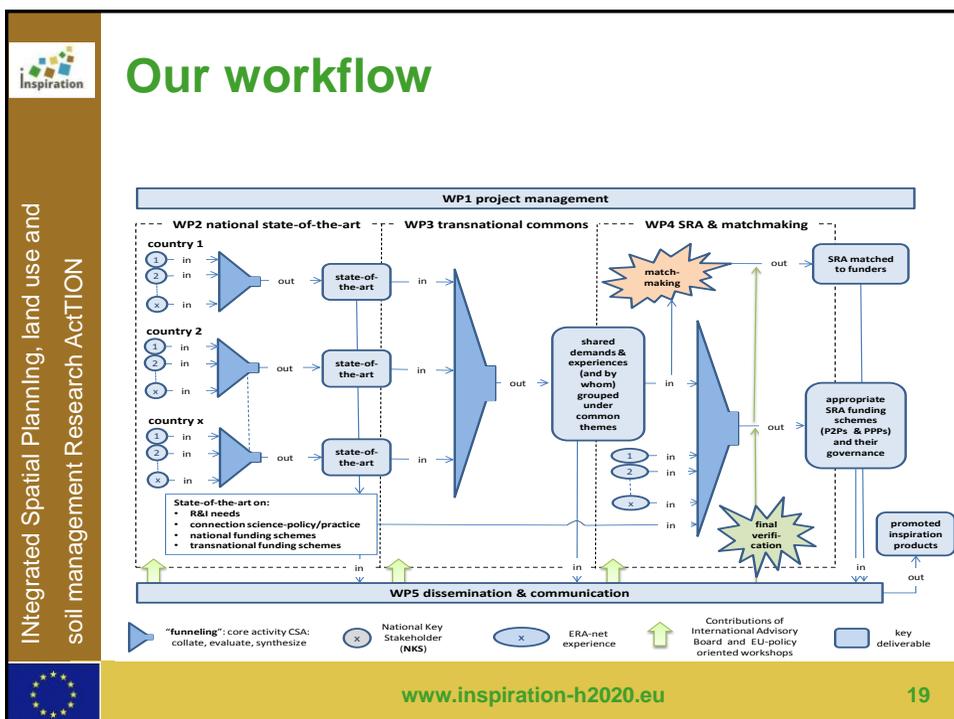
Our Work Packages

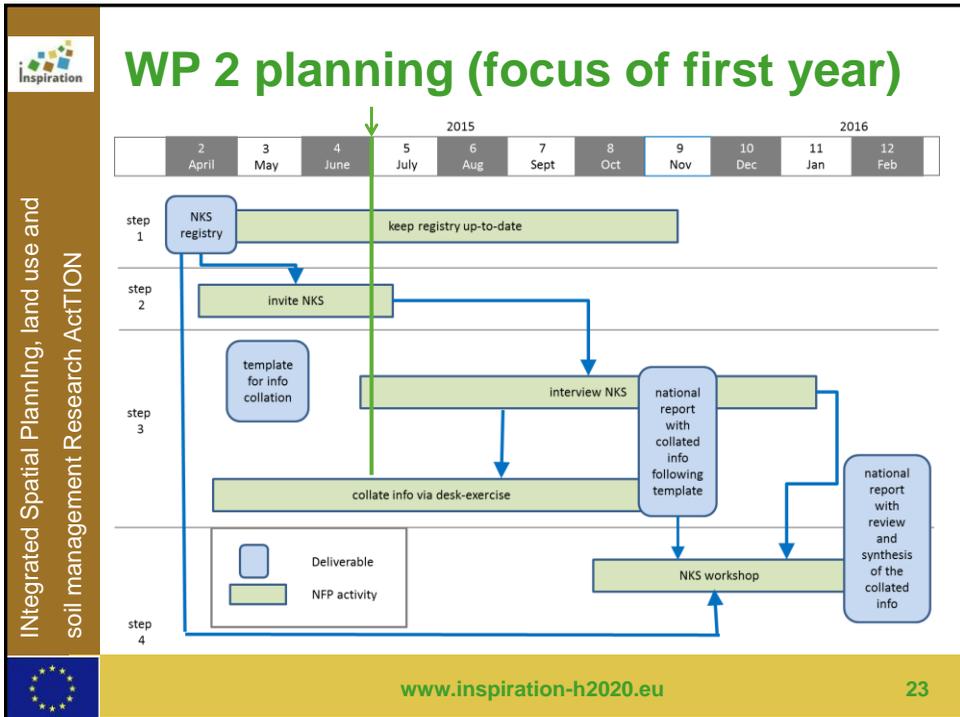
- WP1: Project management
- WP2: Demands of research from industry, end-users and funders
 - **National Focal Points for 16 countries**
 - approx. 20 external key stakeholders per country in national WS
- WP 3: Transnational commons aggregated under 4 integrated themes / 8 thematic issues
 - **4 Theme leaders**, one per integrated theme
 - **4 key stakeholders**, 1 per theme
- WP 4: Developing, Delivering and **Match-Making of a Strategic Research Agenda**
- WP 5: International Dissemination and Communication



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Website launched: www.inspiration-h2020.eu

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The image shows a screenshot of the website www.inspiration-h2020.eu. The main content area features a large banner for 'Natural resources' with the subtitle 'Integrated resource demand from end users and funders'. Below this, there are sections for 'INSPIRATION at a glance' and 'News'. On the right side, there is a detailed section titled 'Project background and objectives' which includes a list of objectives and a list of 'INSPIRATION' work packages. The website header includes the 'INSPIRATION' logo and navigation links.

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Additionally: Several dissemination activities

- Participation in inter-/national conferences
 - SnowMan network meeting
 - 6. Sächs-/Thüringische Bodenschutztag 2015
 - MPlan Conference
 - AESOP Conference 2015
 - SedNet Conference 2015
- Several smaller publication outlets announcing the project




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Interest in the INSPIRATION network is promising

- Significant interest into INSPIRATION at conferences and from invited interview partners so far
- Sweden (SGI) applies for becoming full member of the consortium taking all responsibilities of a NFP for Sweden on own expenses (backed partly by Formas)
- Representatives from Cyprus, Denmark and Luxembourg want to join at selected national workshops




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Outlook: next steps

- Interviews with national key stakeholders in spring/summer 2015
- National workshops in autumn 2015
- National reports on collated information in early 2016
- Now:
The first policy oriented workshop



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This project received funding from the European Union under
HORIZON 2020 under Grant Agreement No. 642372.

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Objectives of the Workshop

Paul NATHANAIL, University of Nottingham

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Meeting Objectives

- Introduce you to the INSPIRATION project (aims, partners, structure, activities, timescales)
- Identify approaches to help understand how new knowledge can support sustainable land management for fulfilling human and ecosystems needs.
- Learn more about expected useful future forms of new knowledge and policy tools from the perspective of policy makers and implementers.

> Policy formulation and implementation will influence how effectively we manage soil and land to meet societal needs and ensure wise environmental stewardship.

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Objectives

- Share past experiences
- Understand better how policy informs research
- Understand better how research drives policy
- Identify currently known knowledge gaps
- Share experiences of and expectations from funding
- Share experiences of dissemination: wide and deep
- Share experiences of intellectual property rights: ownership, exploitation
- Begin a conversation...



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Ministry of Infrastructure and the Environment

Motives and motivation to go for INSPIRATION

Challenging and innovative

Inspiration Policy Workshop Brussels
Margot de Cleen
Co Molenaar

26 August 2015



Outline

The Dutch Ministry is in favour of a joint EU strategic research agenda

- Transition in soil policy asks for new knowledge
- Decreasing budgets aspire to new coalitions and joint investments
- A joint research agenda together with stakeholders is a means to efficient knowledge development and exchange
- Insight in stake holder interests is important to come to new financial arrangements



EU Strategy 2020



Greener, smarter, more jobs



Better regulation



Challenges in Delta area's



Bron foto: Wageningen UR



Intensive use of land and subsurface





Feed the world



Bron foto's: Wageningen UR



Energy policy





World wide competition for resources



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Ministry of Infrastructure and the Environment

26 August 2015



Changes in soil policy

Policy is in transition

- From soil protection to sustainable use of the soil-sediment-water-system in solving societal challenges
- From subsurface care to deep and broad use of ecosystem services (3/4D)
- From general regulations and prohibitions to tailor made solutions on regional and local level: **spatial planning and land management**
- From taking the lead to involving the energetic society (demand driven)

New approaches

- From local to area approach
- From sectorial to integral approach
- From general to tailor made solutions

New partners and stakeholders

New knowledge is required

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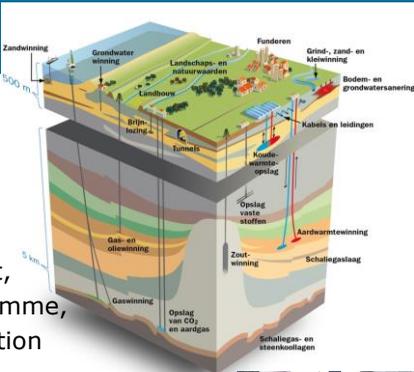
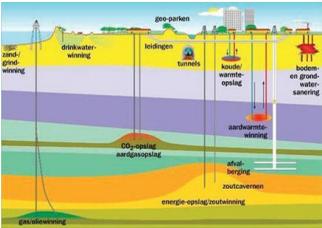
Ministry of Infrastructure and the Environment

26 August 2015



Towards innovation

- National Spatial plan
- Decision Framework
- Knowledge structure
 - agenda on knowledge requirement,
 - Research and development programme,
 - knowledge transfer and dissemination programme


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Ministry of Infrastructure and the Environment
26 August 2015



Knowledge requirement

A knowledge agenda on soil, sustainable land use and management

- ◆ Societal drivers
- ◆ Societal challenges
- ◆ Sustainable use of the soil-sediment-water system
- ◆ Knowledge gaps and requirements

Climate change urbanisation pressure on resources

Living in a Delta Economic crisis

Growing middle class food security

Climate robust cities energy crisis drinking water

energy safety and security

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Ministry of Infrastructure and the Environment
26 August 2015



Challenges and chances

It is necessary to find new ways for knowledge development

- Show the values of soil and its services (natural capital)
- Connect to societal challenges
- Connect with the stake holders
- Join forces and investments national and international

Inventory of possibilities

- Where is the money? (national and international stakeholders)
- Consultation of our network  joint knowledge agenda
- H2020 call: amendments and proposal
- Connecting our stakeholders: "Letters of support".



Thank you for your attention

Questions or more information?

Co.molenaar@rws.nl

Margot.de.cleen@rws.nl

2015
International
Year of Soils





GSP-Pillar 3

Draft - Global Plan of Action:

Promote targeted soil research & development focusing on identified gaps, priorities and synergies with related productive, environmental and social development actions

GSP Plenary Assembly – Third Session

Rome, June 22-24 2015

2015
International
Year of Soils



Case Study: Global Soil Partnership
vision & related needs

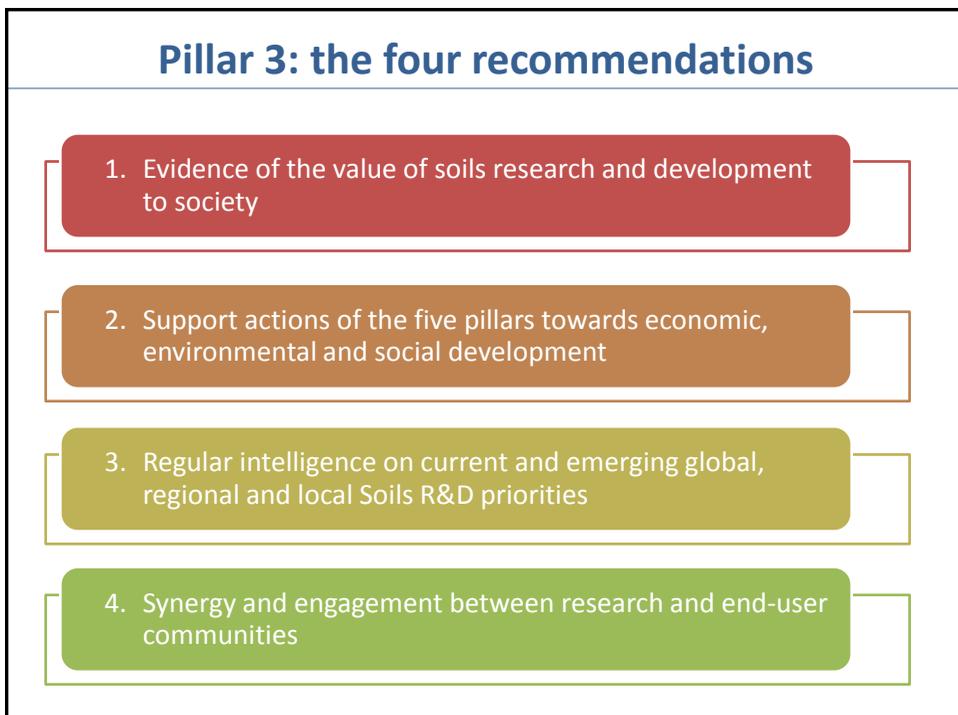
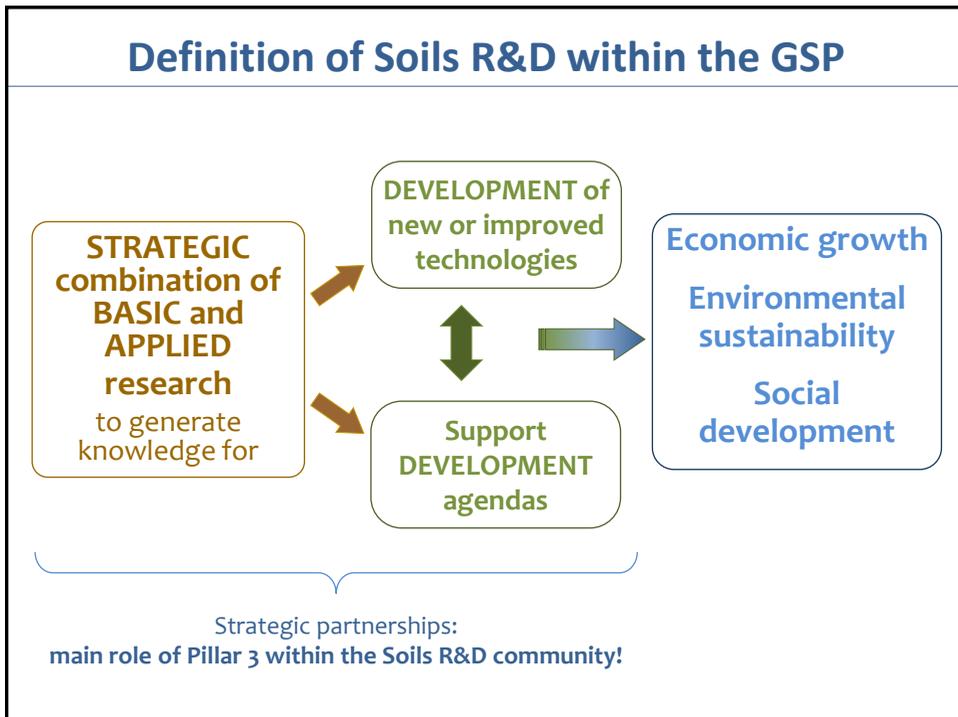
Aracely CASTRO ZUNIGA, FAO

Pillar 3 - Main Goal

“To stimulate the implementation of targeted soil research as a response to emerging demands from the soil users and decision makers who only face constraints and challenges for improving sustainable soil management practices and increasing productivity.”

Some key considerations:

- Definition of Soils R&D from a GSP perspective
- Determination of the role of Pillar 3 within the Soils R&D community
- Soils R&D with a broader focus - not only agriculture (R1 & R4)
- No recommendations on specific Soils R&D activities (Annex 3 - pillars & the Status of the World's Soil Resources report for R2)
- Not comprehensive regarding past and ongoing Soils R&D efforts (R3)
- Research priorities to be defined by RSPs (R4)



R1: Evidence of the value of Soils R&D



Europe / North America

- Soil microorganisms in pharmaceutical industry
- Result: new families of antibiotics

Impact... of no new antibiotics (resistance!):

- 300 million people to die prematurely by 2050
 - Global GDP:
 - 2020: ↓ by 0.5%
 - 2030: ↓ by 1.4%

R1: Evidence of the value of Soils R&D



Honduras / Nicaragua, 2005-2007

- Fertilization in maize
- Result: higher nutrient use efficiency (↓ investment fertilizer & ↑ yields)

Impact:

- Economic (EIS, Hon, Gua, Nic):
Potential ↑ net return= US90 million
 - Environment (global):
reduced global warming
 - Social (global): **priceless...**

R3: Intelligence on Soils R&D priorities



Reports/Metadata/Surveys

(past/on-going research programmes)

- Who, when, what, where
- Geographic/eco-region focus, scale
- Partners and donors
- Main research area - Basic / Applied
- Approaches / Methods
- Databases, etc...

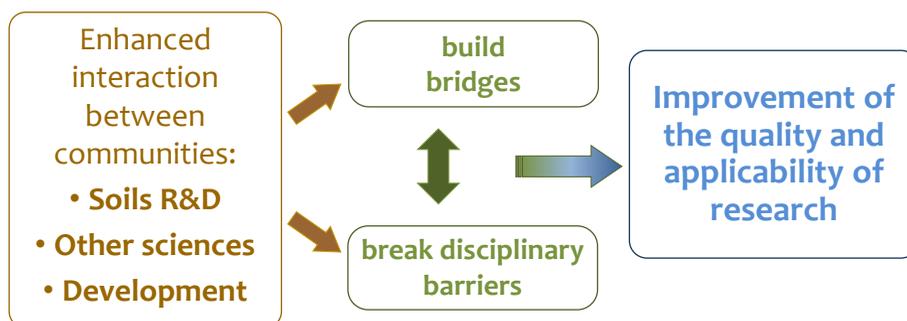
**R&D platform:
database (Pillar 4)
and exchange of
information &
communication**

**Research actions
& results**

RESEARCH NEEDS

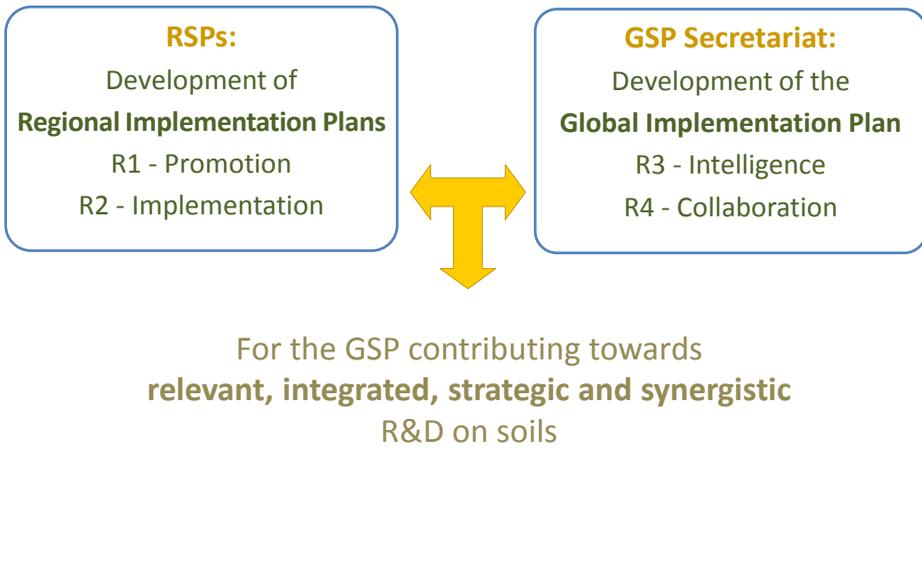
R4: Synergies and engagement on Soils R&D

Collaboration in a joint-learning approach to
broaden the research focus and enhance Soils R&D impact



**Pillar 3 in strategic partnerships:
New avenues for integrated Soils R&D programs**

From the PoA to actions: what is going to happen next?



Regional Soil Partnerships

African Soil Partnership:

- Soil research gaps identified and prioritized
- Regional working groups for research themes

South American Soil Partnership

- Main agroecologic areas: inventories, priorities, research networks and strengthening of capacities

NENA:

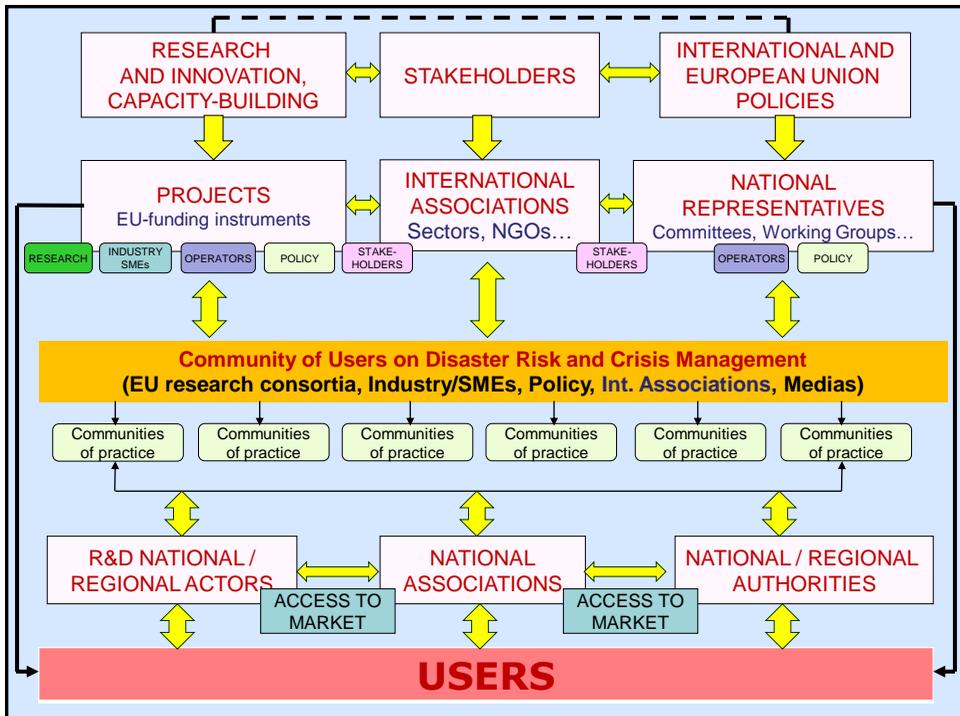
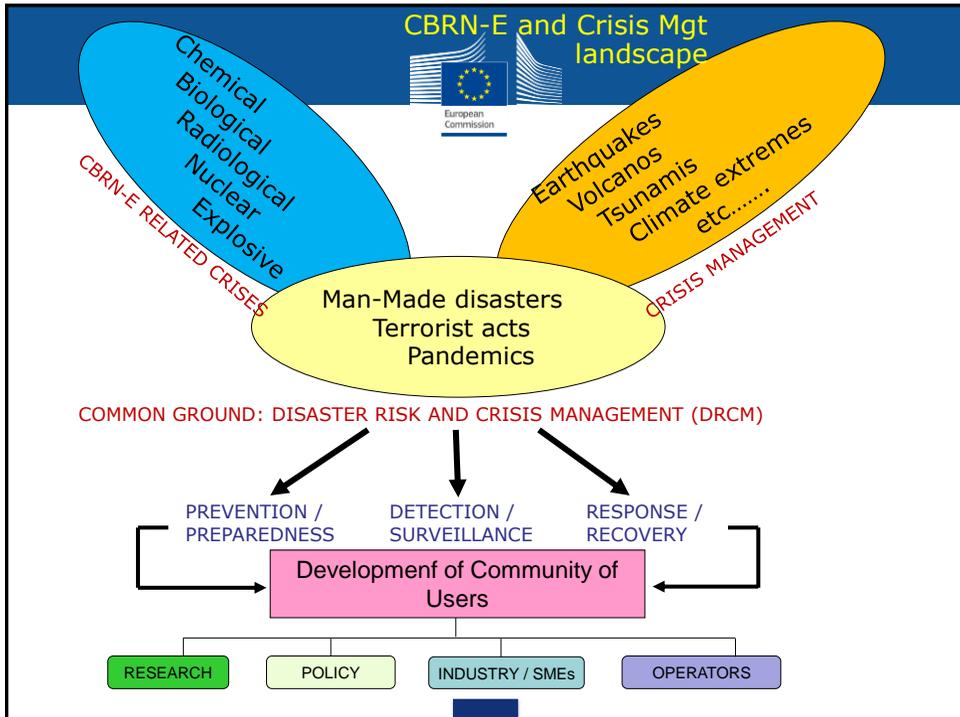
- Changing from classical to integrated research (systems)
- Economics of soil management
- Center of excellence for soil research




European Commission

Building a Community of Users on Disaster Risk and Crisis Management: involving First Responders

Philippe QUEVAUVILLER
Innovation and Industry for Security
DG HOME



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Individual Questionnaire:

Your own challenges on the Soil and Land, your current ways for solving remaining gaps in knowledge

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The 4 integrating themes

Natural resources demand and efficiency

⇒ Use and provision of soils, land, water, nutrients, energy and organisms (useful plants and productive livestock) as future key resources for providing ecosystem services

Land management

⇒ integrated use of sectorial and spatial instruments on sustainable land use in rural and urban areas

Natural capital stewardship

⇒ deals with natural capital as an economic metaphor for the limited stocks of physical and biological resources

Net impacts on global, EU and local scale

⇒ understanding of the net impacts of land use on different scales is inevitable for a sustainable land use in rural as well in urban areas

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The 8 cross-sectoral issues

- **Assessment of land resources**
- **Potential productivity of land and soils**
- **Demand for soil and land resources, imports and exports**
- **Competition between land uses (land use conflicts)**
- **Concepts to identify and quantify relevant impacts**
- **Instruments to avoid / minimize impacts (feedback to decision-making process)**
- **Opportunities of innovative land use technologies**
- **Resource-oriented land management systems**

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World Café

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The infographic 'World Café Guidelines' features a central blue coffee cup on a globe. Surrounding the cup are several circular icons with text: 'HAVE FUN!' with a party hat, 'PLAY, DRAW or DOODLE' with a pencil, 'Listen together for patterns, insights, & deeper connections' with a group of people, 'LINK and connect IDEAS' with a cloud, 'SLOW DOWN... so you have TIME to think & reflect' with a snail, 'LISTEN TO UNDERSTAND' with an ear, 'FOCUS on what matters' with a magnifying glass, 'Facilitate yourself & others' with a person, and 'CONTRIBUTE YOUR THINKING' with a speech bubble. At the bottom, it says 'Speak with your MIND...and HEART'.

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The logo consists of a lowercase 'i' followed by the word 'Inspiration' in a bold, sans-serif font. Above the 'i' are several colorful squares (green, blue, yellow, brown) arranged in a cluster.

World Café 1

What do we know? What do we need?

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Questions for this World Café

- Policy needs, including science – policy interfaces
- Gaps / Priorities for each integrative themes (from understanding the system to new governance models)



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World Café 2

How to implement a Strategic Research Agenda on
Land and Soil – Sediment – Water System?



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Questions for this World Café

- Existing SRIAS and initiatives (studies, new programmes at all levels)
- New implementation plan / chances for innovation in policy formulation and implementation



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World Café 1 & 2

plenary summary of results by each table chair
Wrap-up



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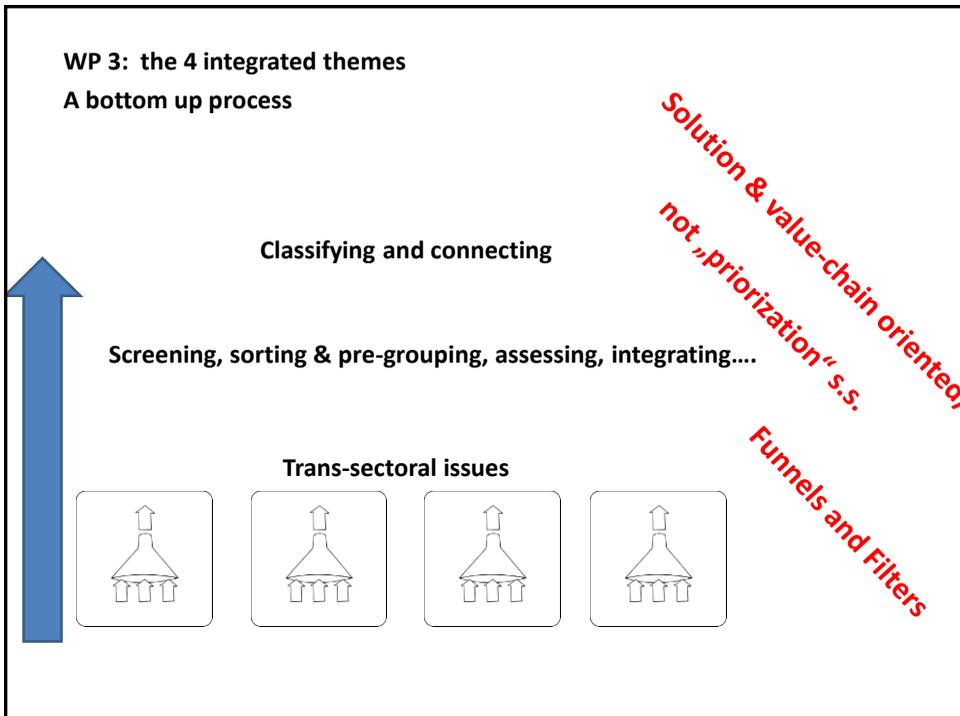
Summarizing the first day

Summary of the first day / combined with Global Soil Week Session

 Inspiration

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I: Natural resources demand and efficiency

⇒ **Land** Use and provision of soils, land, water, nutrients, energy and organisms (useful plants and productive livestock) as future key resources for providing ecosystem services

Need for harmonization / **integration** (soil & water &, heterogeneity: scales and values)

Targeting specific **soil types** / contexts / **ecosystems** (soil functional diversity)

What are **key indicators** of / how do we maintain **soil functions** (see ESS)

Integration of soil productivity & added value of ecosystem services

Land use type & provision of **ecosystem services**

Integrating **ecosystem services** with **simple models** (implementable)

How do we **trade-off functions** / weight the models

Need to ``**connect**`` soils and ecosystems **with society & economy**

Soil losses and soil (re)forming: tolerable limits

Urban contributing to agriculture through diff. policy areas (waste, nutrients)

II. Land management

⇒ **integrated use of sectorial and spatial instruments on sustainable land use in rural and urban areas**

Dilemma: producing **biomass vs. soil organic C** (storage, functional humus)

Gaps for policy tools to choose use of soil

Connectivity (>> awareness) of **peoples beliefs & values with soil management**

How do we maintain soil functions

Implementable & practicable instruments

Urbanisation / land take challenge

Management of urban areas

Urban contributing to agriculture through diff. policy areas (waste, nutrients)

Industry reserves: specific areas in order to safe other area

Soil losses and soil (re)forming: tolerable limits

s

III. Natural capital stewardship

⇒ deals with natural capital as an economic metaphor for the limited stocks of physical and biological resources

Critical factors for soil sustainability (soil “resilience”)

SEEA (system of environmental economic accounting)

What happens if fertilizers “run out”?

Themes underlined at the website (examples)

- Material flow management / re-cycling of nutrients from residues and wastes
- Land footprint and consumption in a life-cycle perspective
- Water demand and water use efficiency in land use
- Soil and soil services regeneration
- Establish a spatially integrated view of ecosystem services
- Parameterize factors affecting ecosystem services and their resistance and resilience.
- Characterize the synergies and trade-offs between ecosystem services in different management and policy scenarios.
- Interactions between soil status, crop quality and environment

WP 3: the 4 integrated themes

- I. Natural resources demand and efficiency
- II. Land management
- III. Natural capital stewardship
- IV. Net impacts on global, EU and local scale

Concerns & lessons learned:**Language & Terminology !**

For NKS / SRA implementation acceptance: need for them to understand the themes and integration

- a) **Scheme (graph) for better understanding**
- b) **Pilot examples showing focus & interrelationships**

- WP 3: the 8 cross-sectoral issues
 - **Assessment of land resources**
 - **Potential productivity of land and soils**
 - **Demand for soil and land resources, imports and exports**
 - **Competition between land uses (land use conflicts)**
 - **Concepts to identify and quantify relevant impacts**
 - **Instruments to avoid / minimize impacts (feedback to decision-making process)**
 - **Opportunities of innovative land use technologies**
 - **Resource-oriented land management systems**



3rd World café

- **Reports**
 - DG Env study on legal framework for soil threat vs. protection policies (due in 2015)
 - Soil Science Society (25 priorities areas)
 - Common cause handbook (values frames) from established by 14 UK NGOs in global issues
 - SEEA (UN system of economic & environmental accounting): soil research needs
 - Recommendations from road testing “triggers values” for assessing site specific soil quality
 - Knowledge agenda for soil subsurface – NL
 - CIRIA C733 asbestos in soil recommendations – UK
 - ES-KTN soil meeting (Anne Miller, 2011) - UK
 - ACATECH transnational issues (?)
 - Frontiers in soil science reports – UK
 - Kirkham’s Legacy and contemporary challenges in soil physics research - UK



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3rd World café

- **Network**
 - CONCAWE: no specific research agenda
 - NICOLE: no specific research agenda
 - WSSTP (Waste reuse)
- **Initiatives**
 - JPI water: merging contaminants (7 propositions on endocrine disrupters and antibiotics)
 - Common forum: emerging contaminants inventory by industrial sectors (?)
 - JPI FACCE
 - JPI Urban Europe
 - JPI Water



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3rd World Café



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- **Needs**
 - Quantify benefits of green agriculture policy (e.g. in rotation)
 - Productivity integrated in RTD (engage more farmers, nexus for some kind of monetarisation)
 - European level action needs flexibility (Subsidiarities vs. Harmonization)



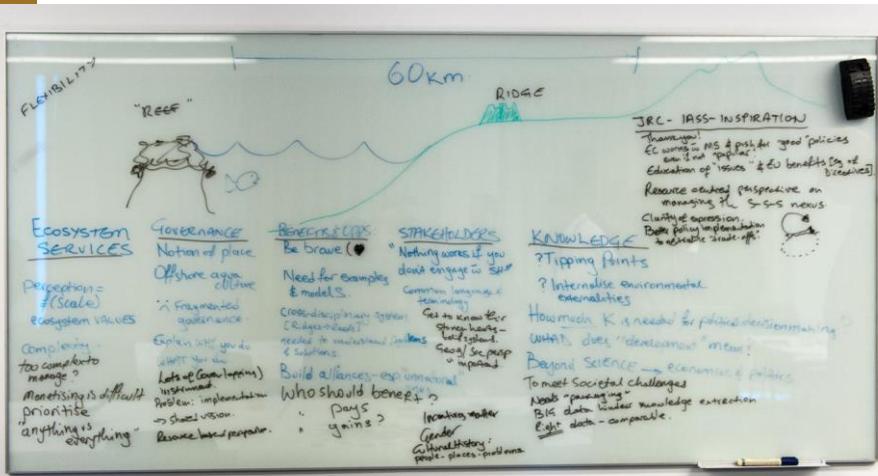
Global Soil Week 2015



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The whiteboard contains handwritten notes organized into several sections:

- Top:** A diagram showing a landscape with a 'REEF' on the left, a '60km' distance, and a 'RIDGE' on the right.
- Left Column:**
 - ECOSYSTEM SERVICES
 - Perceptions = # (Scale)
 - Ecosystem values
 - Complexity: too complex to manage
 - Monetising is difficult
 - Prioritise anything is everything
- Second Column:**
 - Governance
 - Notion of place
 - Offshore capital
 - Fragmented governance
 - Explicit: what you do
 - Implicit: what you don't
 - Lots of (overlapping) instruments
 - Problem: implementation
 - Shared vision
 - Resource based perspective
- Third Column:**
 - RESEARCHERS
 - Be brave (♥)
 - Need for examples & models
 - Cross-disciplinary system (Ridges → models)
 - needed to understand linkages & solutions
 - Build alliances - esp. international
 - Who should benefit?
 - pays
 - gains
 - Gender
 - Cultural history: paths, places, problems
- Fourth Column:**
 - STAKEHOLDERS
 - Nothing worse if you don't engage in SRP
 - Common language & terminology
 - Get to know their space, hearts - land system
 - Ground the project in reality
- Right Column:**
 - KNOWLEDGE
 - ? Tipping points
 - ? Internalise environmental externalities
 - How much K is needed for political decision making
 - WHAT does "development" mean?
 - Beyond SCIENCE - economics & politics
 - To meet societal challenges
 - Needs "managing"
 - Big data: water knowledge extraction
 - Right data - comparable
- Bottom Right:**
 - JRC - IASS-INSPIRATION
 - Thomson
 - EC working in RIS & push for "good" policies
 - and "bad" practices
 - Education of "voices" & do benefits (to all stakeholders)
 - Resource oriented perspective on managing the S-S-S nexus
 - Clarity of expression
 - Build policy implementation & achievable "break-offs"

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AquaConSoil 2015









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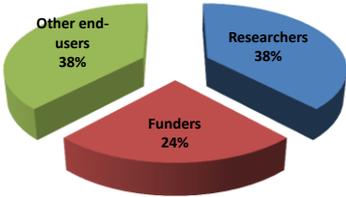
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AquaConsoil 2015 / Inspiration session

- Ecosystem services
- Challenges (SDGs), benefits, knowledge gaps (governance, financing)
- Instruments:
 - 1. economic/funding instruments/
 - 2. Policies
 - 3. spatial planning
 - 4. risk management
 - 5. awareness raising
- Stakeholders and options for engagement (holistic approach) stakeholder analyses

AquaConsoil 2015 attendees



Category	Percentage
Other end-users	38%
Researchers	38%
Funders	24%

12 Countries: BE, CY, DE, DK, ES, FI, FR, NL, NO, SE, TK, UK



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 **Similarities**

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 **New topics**

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World Café 3

The funding issues



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Questions for this World Café

- Future and innovative funding schemes
- Barriers and challenges for funding research in Soil and Land



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Final Summary

Paul NATHANAIL, University of Nottingham



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Follow-up and Closure

Dominique DARMENDRAIL, BRGM

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Follow-up

- Presentations soon on line on the project Webste
- Minutes of the Policy-oriented Workshop
- Integration of outcomes with the ones collected during the two previous events (Global Soil Week 2015 and AquaConsoil 2015
- 2nd Policy-oriented workshop at the end of the project

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Final Comments?



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THANKS to ALL

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This project received funding from the European Union under
HORIZON 2020 under Grant Agreement No. 642372.

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