INSPIRATION STRATEGIC RESEARCH AGENDA: TOPICS & MATCH-MAKING OF FUNDERS

Paul Nathanail (University of Nottingham)
Co-Authors from INSPIRATION consortium

Why Motivation and problem statement

Growing a low carbon, resource efficient economy with a sustainable supply of raw materials requires research, innovation and dissemination of good practices across Europe and beyond. Cross-European networking is needed to facilitate dialogue among relevant funding bodies, research organisations and end user communities. Such dialogue can encourage R&I and improve coordination of EU and national funding activities while fostering synergies with international research and innovation programmes.

What Approach, results; keymessages

A transition in Soil Policy is needed, but such a transition needs new knowledge. INSPIRATION developed a bottom up approach to identifying the new knowledge needed. Workshops and interviews in over 17 countries across Europe reported over 2000 needs that were distilled into 22 research topics across four themes and an additional 17 integrating research needs, culminating in improving preparedness for changing climate conditions and amplified related hazards.

Such research and innovation requires funding beyond that available from national or even EU budgets – a variety of co-funding is essential. No one funding model will suit every organisation or activity. Models identified including International funding, Bilateral funding, EU initiatives (including frameworks, ERANets, COST, ERANets, JPI, Article 185), National Research foundations/ councils, Public/ Private co-financing (eg Innovate UK), Third sector and finally Crowd funding.

A series of online and face to face events has helped funders from across Europe meet and share their priorities and appetites for co-funding. This match making will continue beyond the end of the funding for the H2020 INSPIRATION project.

Key Conclusions; take home message

Funders are invited to review the research needs in the INSPIRATION SRA and identify those that meet their funding priorities and that lend themselves to collaborative funding. INSPIRATION National Contact Person are on hand to help identify other funding bodies with shared interests in co-funding specific activities.

More Further reading recommendations

Website: www.inspiration-h2020.eu and www.inspiration-agenda.eu
Twitter: @inspiration4eu

The INSPIRATION SRA – Topics and match-making

Paul Nathanail, University of Nottingham

INtegrated Spatial Planning, land use and soil management Research ActTION

Sustainable spatial planning, land use & soil management - Closing knowledge gaps by implementing new research collaborations

The INSPIRATION Strategic Research Agenda – Topics & match-making of funders

On behalf of INSPIRATION consortium
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Spatial Planning, Land Use & Soil-Sediment-Water Management

Take home messages

- Bottom up identification of national research and innovation demands
- Synthesis of these demands into stakeholder focused Strategic Research Agenda
  - 4 themes (supply; demand; management; impact) and
  - 17 integrated research needs
- Use Strategic Research Agenda to help match making
- Conference and Soil Day Celebration 4 – 6 December 2017
- Match making and revision of the SRA
- Post funding INSPIRATION4EU network

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Schedule: 3 months to go!

	Brief description	D#	Primary responsible partner
	D = Deliverable; M = Milestone		
	WP1 Project management		
D	1/2 year activity reports	1.1a_c	UBA
D	yearly management reports	1.2a_b	UBA
M	Conference & final verification event	-	UBA
D	Conference report	1.3	UBA
D	final report	1.4	UBA
	WP2 national state-of-the-art		
D	MoU on NFPs task execution	2.1	Deltares
D	National Key Stakeholders registry	2.2	Deltares
D	Template national info collation	2.3	Deltares
D	Collated national info in line with template	2.4	Deltares
D&M	Synthesis of collated national info	2.5	Deltares
	WP3 transnational commons		
D	Evaluation approach WP2 reports	3.1	DIU
D	1st transnational shared state-of-art overview	3.2	DIU
D&M	enriched & prioritized overview	3.3	DIU
D&M	selected topics for matchmaking	3.4	DIU
	WP4 SRA & matchmaking		
D	Scope of SRA	4.1	UON
D	Identified matches & willingness to fund	4.2	UON
D&M	SRA to be verified (a), and verified (b)	4.3a_b	UON
D&M	SRA delivery models to be (a), and verified (b)	4.4a_b	UON
D	Outcome stakeholders workshop	4.5	UON
	WP5 dissemination & communication		
M	First IAB meeting	-	BRGM
D&M	Website & intranet operational	5.1	BRGM
M	Policy oriented workshops	-	BRGM
D	Results policy workshops & IAB recommendatio	5.2	BRGM
D&M	Communication plan & updates	5.3a_c	BRGM
D	Annual IAB reports	5.4a_c	BRGM
D&M	Recommendations for SRA implementation	5.5	BRGM

Month since start of the project (x indicates the delivery date)

Year 1: 1 2 3 4 5 6 7 8 9 10 11 12
Year 2: 13 14 15 16 17 18 19 20 21 22 23 24
Year 3: 25 26 27 28 29 30 31 32 33 34 35 36 37 38

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

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 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.

SC5-10b-2014: Expected Products and Impacts

- **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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"Research is not finished until it is written up"… & has made an impact

- Creation of knowledge
- Transfer of knowledge
- Uptake of knowledge
- Demonstration of applicability
- Codification & standardisation

MOST of our research & innovation needs involve two or more of each of these activities

"Transition in Soil Policy needs new Knowledge" Margot de Cleen

- To manage something you must first understand it
- That which you cannot enforce, do not command
- Know your enemy - Know yourself (the enemy within)

So how did we identify the new knowledge we need?

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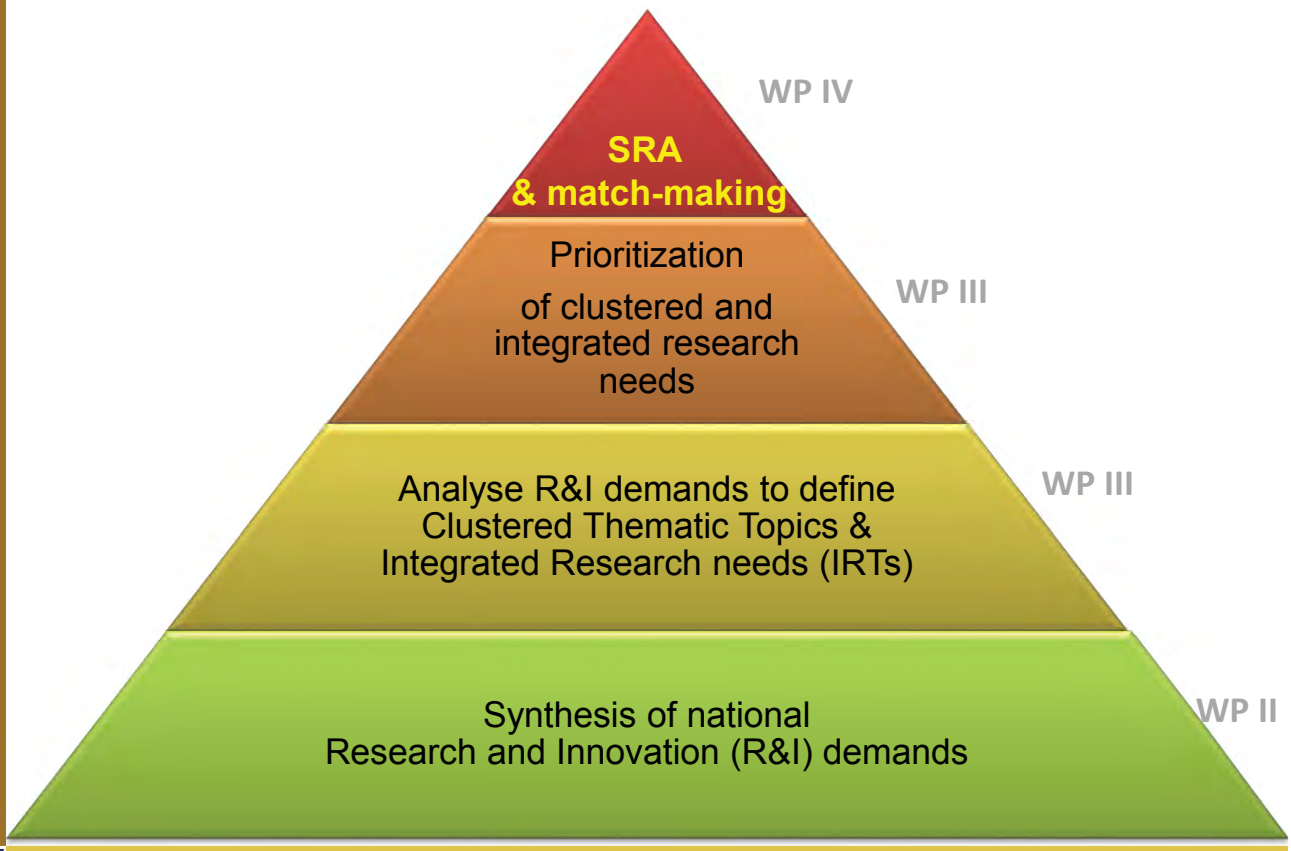
Bottom-up inspiration



National research priorities & capacity reviewed

Each Partner Country identified:

- Societal challenges and needs
- Research needs
- Connecting science, policy & practice
- National and trans national funding schemes
- **Key message**
  UK: Land use management is **complex, transcends disciplinary boundaries** and involves unavoidable inherent epistemic and aleatory **uncertainty**

Integrating Research Topics (IRTs)

From information to implementation

IRT-1: Integrated Environmental Assessment and Soil Monitoring for Europe

IRT-2: Recognizing the value of ecosystem service in agricultural land use

IRT-3: From indicators to implementation: Integrated tools for a holistic impact and land use assessment

FFFF: demand, potentials and risks

IRT-4: Bio-Economy – unleashing the potentials while sustaining soils

IRT-5: Integrated scenarios for the Soil-Water-Food nexus under societal challenges

IRT-6: Assessing the efficiency of the Soil-Sediment-Water nexus of resources

IRT-7: Maintaining soil fertility by organic farming to [illegible] in food [illegible]

Challenge: Integrated urban management

IRT-8: Circular land management

IRT-9: Developing effective policies to combat urban s[illegible]awl

IRT-10: Facilitating the implementation of urban g[illegible]structu[illegible] through stakeholder participation

IRT-11: Integrated management of soils in urban areas

IRT-12: Environmentally friendly and socially sensitive urban development

IRT-13: Urban Metabolism – Enhance resource efficiency through a closing of urban material loops

Disturbed landscapes

IRT-14: 'Emerging contaminants' in soil and groundwater

IRT-15: Sustainable management and valorization of degraded land

IRT-16: Innovative technologies and eco-engineering 4.0: Challenges for a sustainable use of rural and urban landscapes and the SSW system

Climate change challenges

IRT-17: Climate change challenges - improving preparedness, response for climate conditions and related hazards

17

Overview of IRTs

From information to implementation

IRT-1: Integrated Environmental Assessment and Soil Monitoring for Europe

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Overview of IRTs

Challenge: Integrated urban management

IRT-8: Circular land management
IRT-9: Developing effective policies to combat urban sprawl
IRT-10: Facilitating the implementation of urban green infrastructure through stakeholder participation
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Overview of IRTs

Disturbed landscapes

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Climate change challenges

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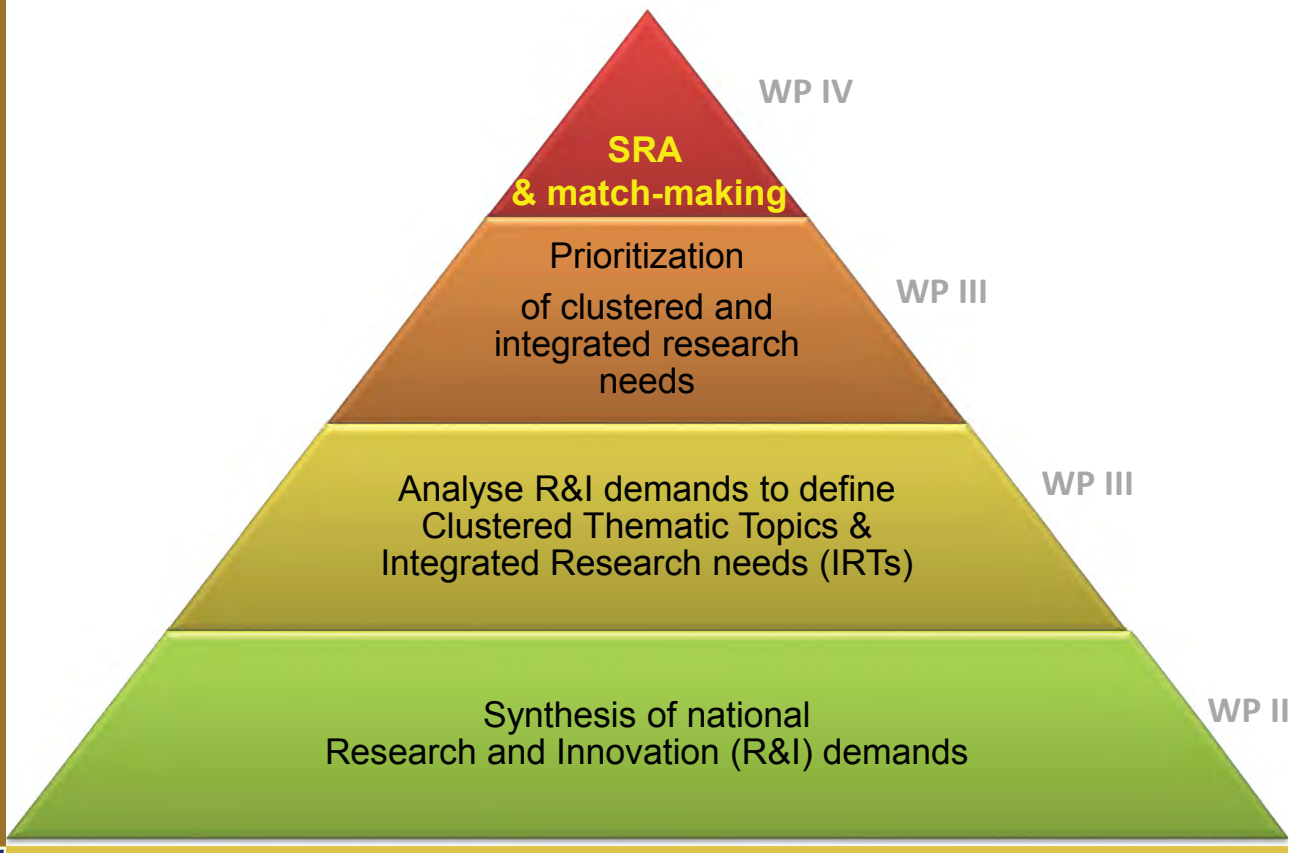
Making it happen



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The 17 United Nations Sustainable Development Goals (SDGs)

UN Sustainable Development Goals (SDG): INSPIRATION

More on this tomorrow!

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Funding models

- International funding
- Bilateral
- EU
  - Fwk
  - ERANets
  - COST
  - JPI
  - Article 185
- National Research foundations/ councils
- Public/ Private (e.g. Innovate UK)
- Third sector
- **Crowd funding**

Match making of funders

- Use the INSPI-SRIA as a high level catalyst to foster multi-lateral collaboration to fund research
- National meetings with funders to identify interest
- Introduce funders with common interests to each other
- Networking Conference: December 2017 (Brussels)
- INSPIRATION4EU network of national contact persons
- Online and face to face meetings in 2018+

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Next steps by potential funders

looking for where to invest in third party research

- Review research needs
- Select those that meet YOUR institutional funding priorities
- Identify those suitable for collaborative funding
- Inform INSPIRATION National Contacts of interest in collaborative funding for specific needs
- Make contact with potential co-funders (after introduction by National Contacts)

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INSPIRATION Research Agenda

World Soil Day

European Commission