

SNOWMAN network meeting
25-26 March 2015
PARIS, France

**INSPIRATION: Structuring research on
soil, land-use and land management in
Europe**
(Coordination and Support Action)

Detlef Grimski
Federal Environment Agency
Phone: +49 (0)340/2103-3266
Email: detlef.grimski@uba.de

INSPIRATION



Content of presentation

- EU H2010 call on a CSA topic “Structuring research on soil, land-use and land management in Europe”
 - Objectives
 - Expected Impact and products
 - Linkages to soil and land management
- **INSPIRATION**
 - Partnership
 - Objectives and premises
 - Concept and approach
 - Workpackages and Deliverables
- Outlook

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

Topics

- SC5-08-2014: Preparing and promoting innovation procurement for soil decontamination
- SC5-09-2014: Consolidating the European Research Area on biodiversity and ecosystem services
- SC5-10a-2014: Enhancing mapping ecosystems and their services
- **SC5-10b-2014: Structuring research on soil, land-use and land management in Europe**
- SC5-11a-2014: Mining of small and complex deposits and alternative mining
- SC5-11b-2014: Flexible processing technologies
- SC5-12a-2014: Materials for electronic devices
- SC5-13a-2014: Mineral deposits of public importance
- SC5-13b-2014: Strategic international dialogues and cooperation on raw materials with technologically advanced countries
- SC5-14-2014: Consolidating global knowledge on the green economy in support of sustainable development objectives in Europe and internationally
- SC5-18a-2014: Coordinating European Observation Networks to reinforce the knowledge base for climate, natural resources and raw materials
- SC5-19a-2014: Facilitating transnational cooperation between NCPs in Societal Challenge 5

Objectives of Call SC5-10b-2014

- Better **coordination** of often **fragmented research**
- Timely and open exchange of information and research results
- 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,
- Establish emerging needs, communication and dissemination activities for an improved science-policy interface
- Aligning research with decision-making requirements.

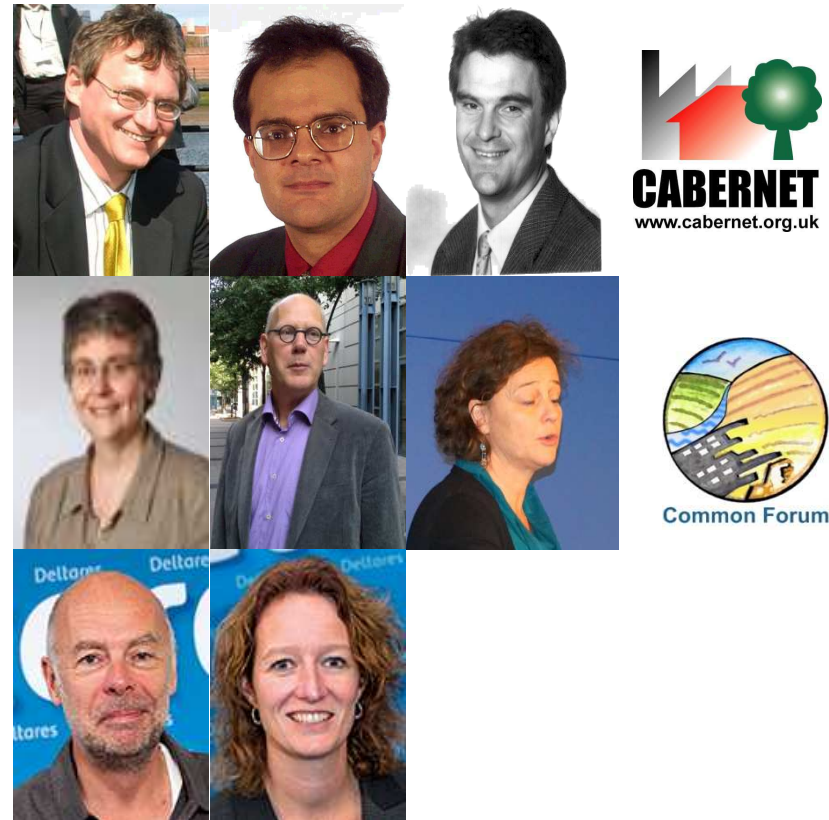
SC5-10b-2014: Expected Products and Impacts



- **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.

INSPIRATION

- **INSPIRATION** = **I**ntegrated **S**patial **P**lanning, land use and soil management **R**esearch **A**ction
- Initiated by **the German 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)



21 INSPIRATION Partners

- | | |
|-------------------|---------------------|
| 1. Germany | 9. United Kingdom |
| – UBA | – UoN |
| – Stadt + | 10. Spain |
| – DIU | – TECNALIA |
| – UFZ | 11. The Netherlands |
| 2. France | – DELTARES |
| – BRGM | – TCB |
| 3. Poland | 12. Switzerland |
| – IETU | – WSL |
| 4. Czech Republic | – ETH |
| – IGN | 13. Slovakia |
| 5. Portugal | – STUBA |
| – UALG | 14. Austria |
| 6. Belgium | – BOKU + TP |
| – OVAM | 15. Romania |
| 7. Italy | – INCDPAPM-I |
| – SITI | 16. Finland |
| 8. Slovenia | – SYKE |
| – UIRS | |

::



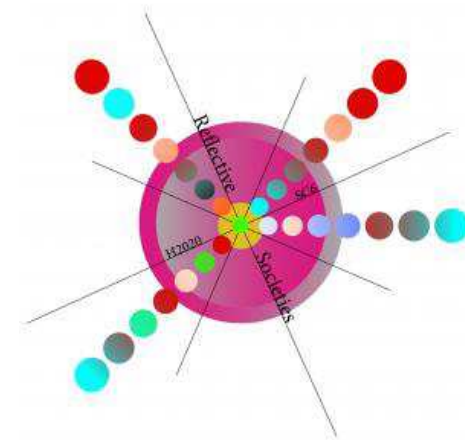
+ International Advisory Board IAB

INSPIRATION Key Challenges

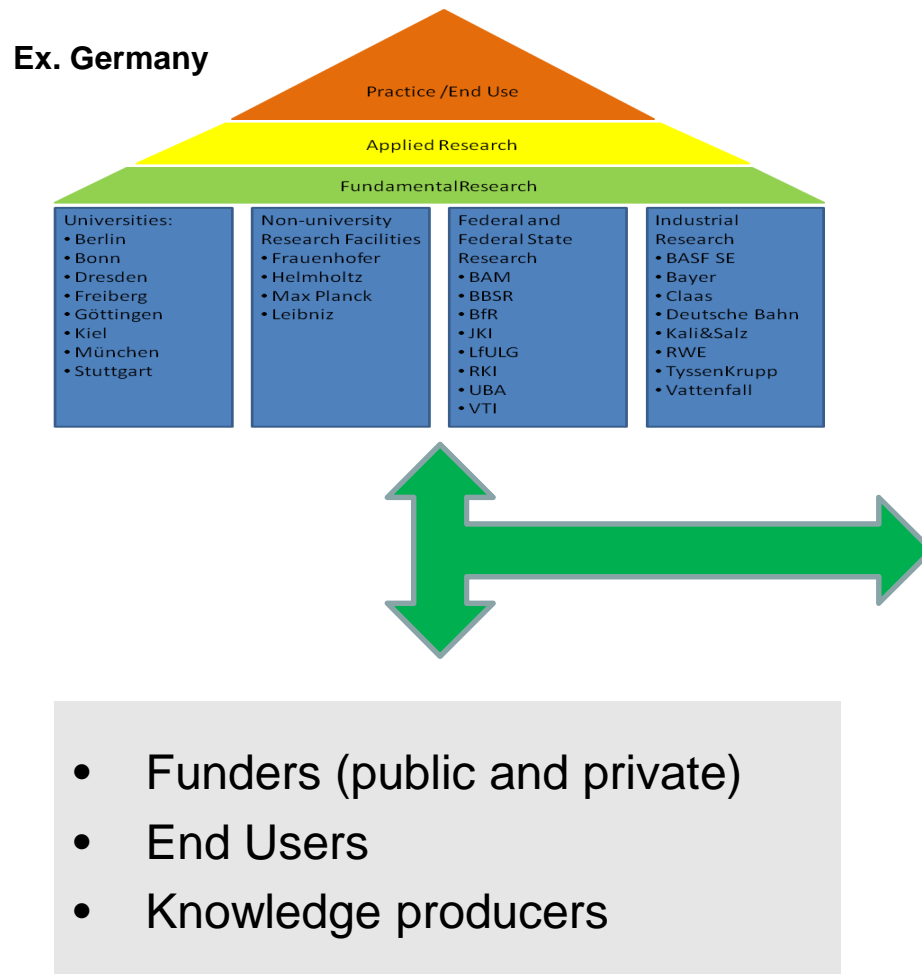
1. Identify **societal challenges** related to soil, land use and land management
2. Identify **research and stakeholders** for structuring
3. Contribute to **EU policy and research**

1. Societal challenges – Example **Urban sprawl**

- ☛ Land
 - ✓ Biodiversity
 - ✓ Renewable energy production
 - ✓ Climate adaption area (flooding)
- ☛ Agricultural land
 - ✓ less food and or biomass production capacity
- ☛ Soil Sealing
 - ✓ loss of water infiltration capacity
 - ✓ adverse climate change effects
 - ✓ diminishing the drinking water supply
- ☛ Loss of soil
 - ✓ ecosystem services ((e. g. carbon storage/climate change)
 - ✓ Less organic matter leads to Desertification (requiring extra use of fertilizer and pesticides)
- ☛ More traffic – more Infrastructure needed



2. Structuring research



Stakeholder

- Developers and construction companies (builders of houses and infrastructure, dredging companies)
- Food producers; Farmers, agro and food companies
- Bankers (including (re)insurance)
- NGOs
- Policy makers on different levels (national / regional / local), Policy implementers
- Entrepreneurs, using or affecting land and resources (large, small and medium enterprises)
- Drinking water and energy producers, distributors and suppliers
- Spatial planners (at national, regional and local levels)
- Landscape stewards, such as forest or nature managers

3. EU Policy and Research

Policy

No net land take by 2050

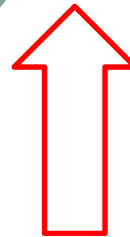
- EU Soil Strategy – 2006
- EU 2020 Strategy
- Road Map for a resource efficient Europe

+

- 7th Environmental Action Programme
- EU Communications on green infrastructure strategy
- EU Biodiversity Strategy's

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.

INSPIRATION Baseline

Land and Soil services are fundamental for:

- Meeting societal needs (food, drinking water, energy production, shelter, infrastructure)
- Overcoming societal challenges (climate change mitigation and adaptation, increasing demands on non-renewable natural resources, environmental justice)

Our Premises

- Improving efficient use of knowledge by a demand driven and **bottom up** SRA
- Ensuring success in addressing **societal challenges** by a **Policy Science** Interaction and **interaction** with **stakeholders**
- Establishing a **transnational network** of funding bodies and cooperating industries by recognition of **individual demands** in the SRA

Our Conceptual Model

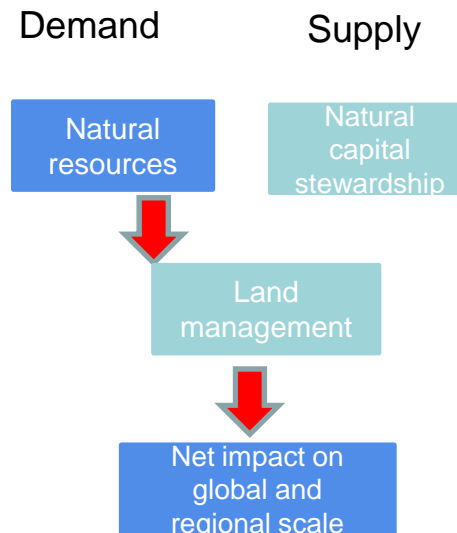
Land / Land Use / Land Management

4 Integrated themes

- Natural resources
- Natural capital stewardship
- Land management
- Net impact on global and regional scale

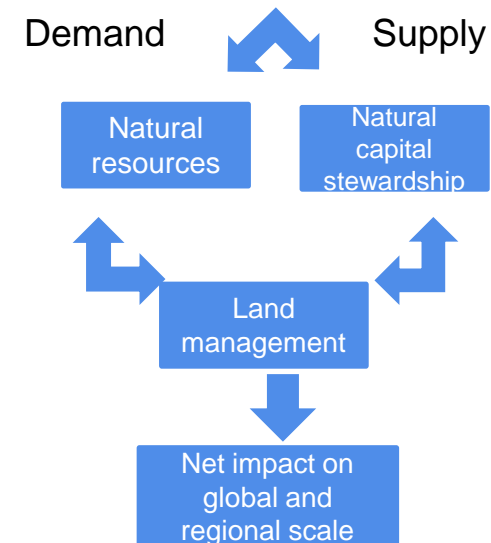
Current situation

Imbalance of
Demand and Supply

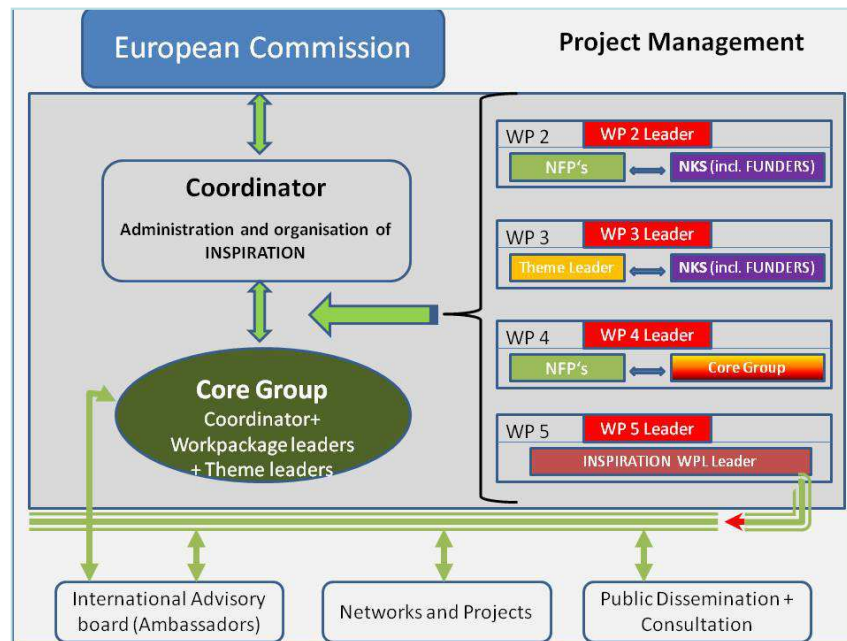


Objective

Balance of
Demand and Supply

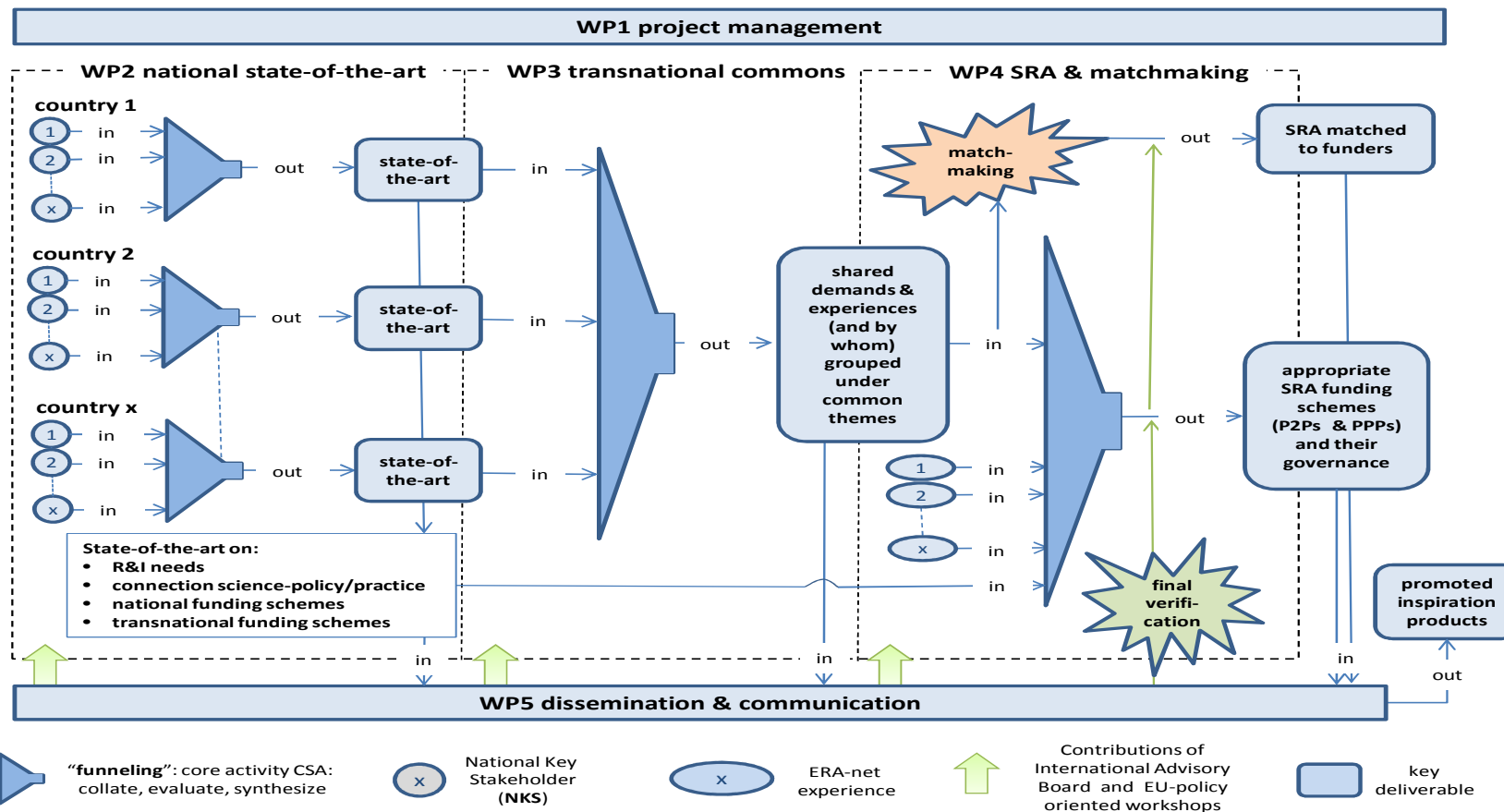


Our Workpackages

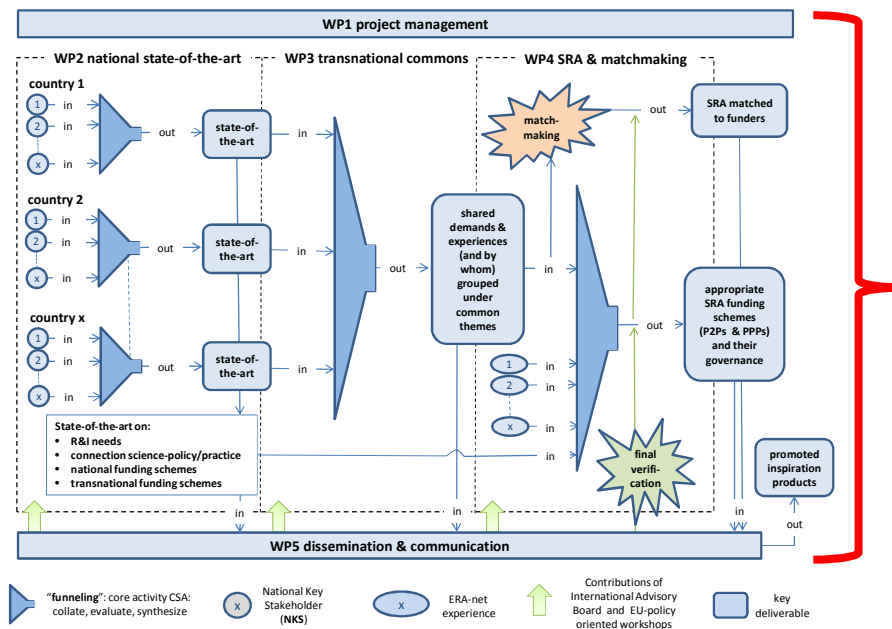


- WP 1: Project management
- WP 2: Demands of research from industry, end-users and funders
 - National Focal Points for 16 countries
 - approx. 20 external key stakeholders per country in national WS
- WP 3: Transnational commons aggregated under 4 integrated themes
 - 4 Theme leaders, one per integrated 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

Our Workflow



Our Deliverables (public - 1)



Public reports WP 2:

- Registry of National key Stakeholders
- National reports on collated information following the template
- National reports with a review and synthesis of the collated information

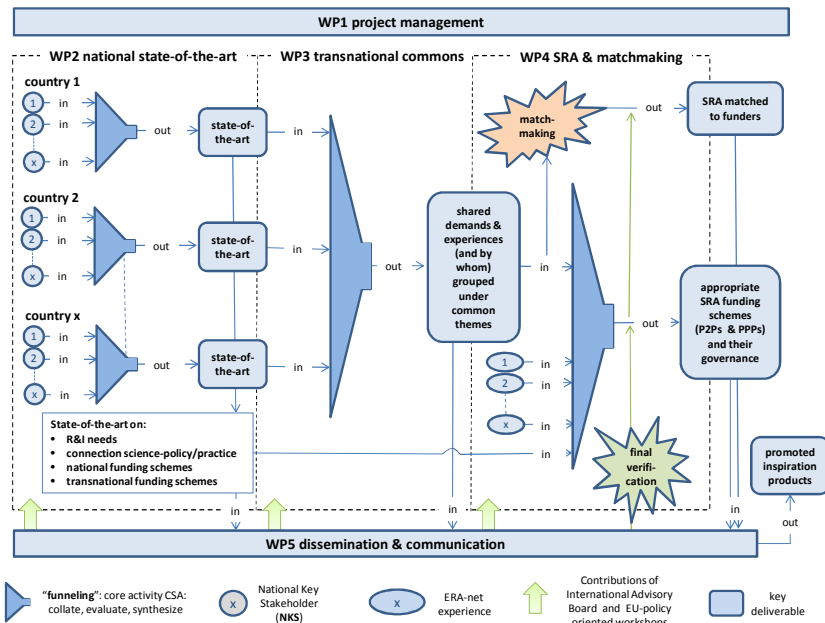
Public report WP 3:

- Enriched, updated and prioritised overview of the transnational shared state-of-the-art as input for WP4 to develop the SRA

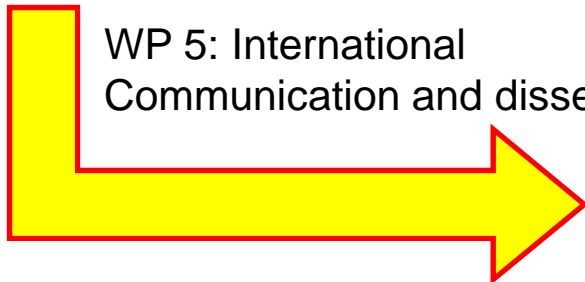
Public report WP 4:

- Document: Strategic research agenda to be verified (a), and verified (b)

Our Deliverables (public - 2)



WP 5: International Communication and dissemination



Website

Confidential Reports Consortium and Commission Services

- Results policy workshops and IAB recommendations
- Annual IAB reports

Public report :

- Recommendations for SRA implementation

Outlook

- Kick off meeting 1./2. April 2015 in Berlin
- National Workshops in autumn 2015
- National Reports on collated information in winter 2016
- National reports with a review and synthesis of the collated information in spring 2016

Thank you very much
for listening!

Detlef Grimski

Federal Environment Agency

Phone: +49 (0)340/2103-3266

Email: detlef.grimski@uba.de