European Commission

Transforming Science into Innovation for Civil Protection and Efficient Disaster Risk Reduction

Philippe QUEVAUVILLER

"Security Research and Industry" unit

DG Enterprise and Industry

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Policy drivers

Internal Security Strategy (2010)

- **Serious and organised crime**
- **Terrorism**
- **Cyber-crime**
- **Border security**
- **Natural and man-made disasters**

Innovation Union

- **Strengthen the innovation chain and boost levels of investment throughout the Union**

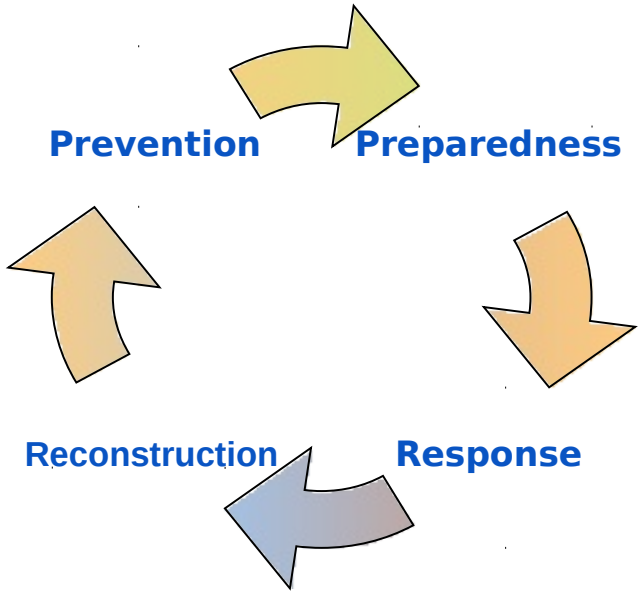
UN Hyogo Framework for Action

Linking the actors and policies throughout the disaster management cycle

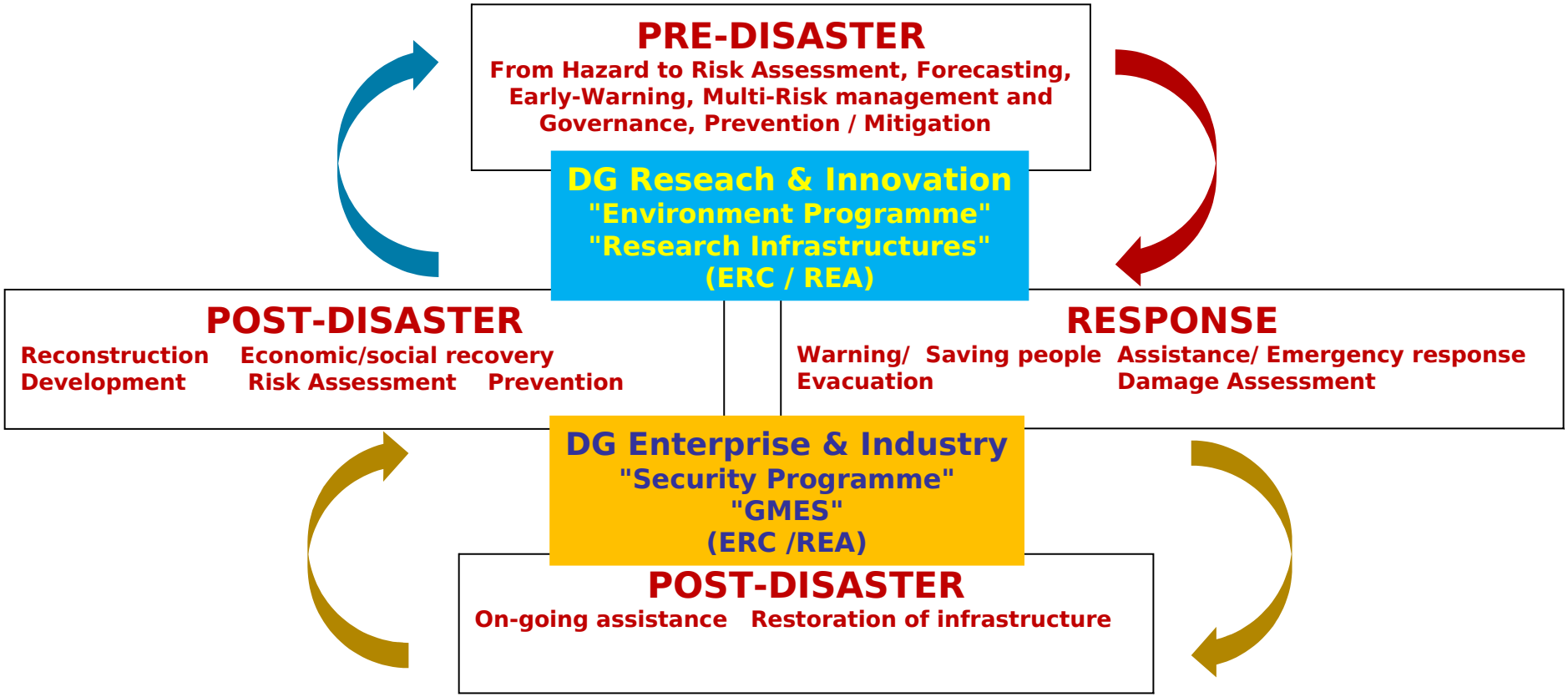
Making existing instruments perform better for disaster prevention

Guidelines for minimum standards for disaster prevention

Development of a risk management policy



Research contributing to the Disaster Risk Management Cycle



Needs to link with policy milestones – ex. floods

ICY
ELOPMENT

DESIGN
POLICY

SEARCH,
SCIENTIFIC PROGRESS,
POLICY INTEGRATION

P
IN
TION

POLICY

Security theme : objectives

- ✓*Develop technologies and produce knowledge to ensure security of citizens from threats such as terrorism, (organised) crime, natural disasters and industrial accidents.*
- ✓*While respecting fundamental rights*
- ✓*Ensure optimal use of technology for the benefit of civil European security*
- ✓*Stimulate co-operation of providers and users*
- ✓*Improve competitiveness of the European security industry*
- ✓*Mission oriented results*
- ✓*Exclusively civil oriented and clear European added value*
- ✓*In coordination with EDA*'s activities*

**European Defence Agency*

FP7 Security Research
Specific issues

Active involvement of end users is considered of utmost importance:

- **Direct participation of user organisations implementing research actions**
- **Other forms of indirect participation might also be followed**

Networks of security research stakeholders are key in disseminating results to end users, national public authorities and citizens

FP7 Security Research
Specific issues

European Commission

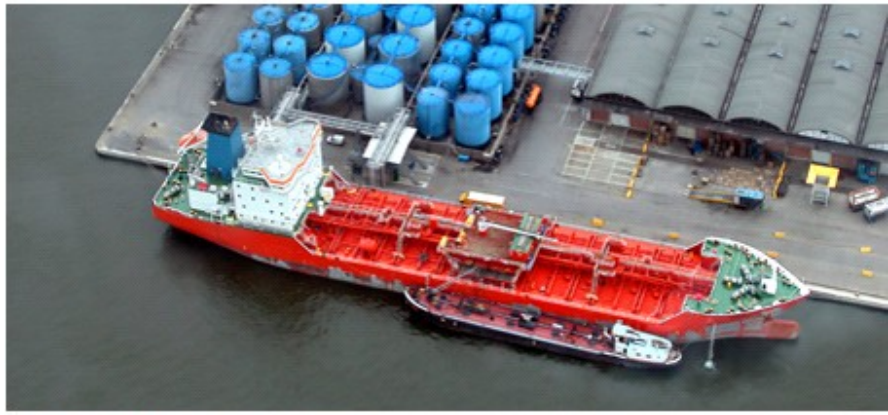
Societal impact of the proposed technologies must be addressed

Ethical issues are essential in the core of the project development

Dual use technologies (both civilian and defence applications) might be covered (EDA coordination)

Standards are crucial for interoperability

Concrete achievements are strongly encouraged (expected impact)

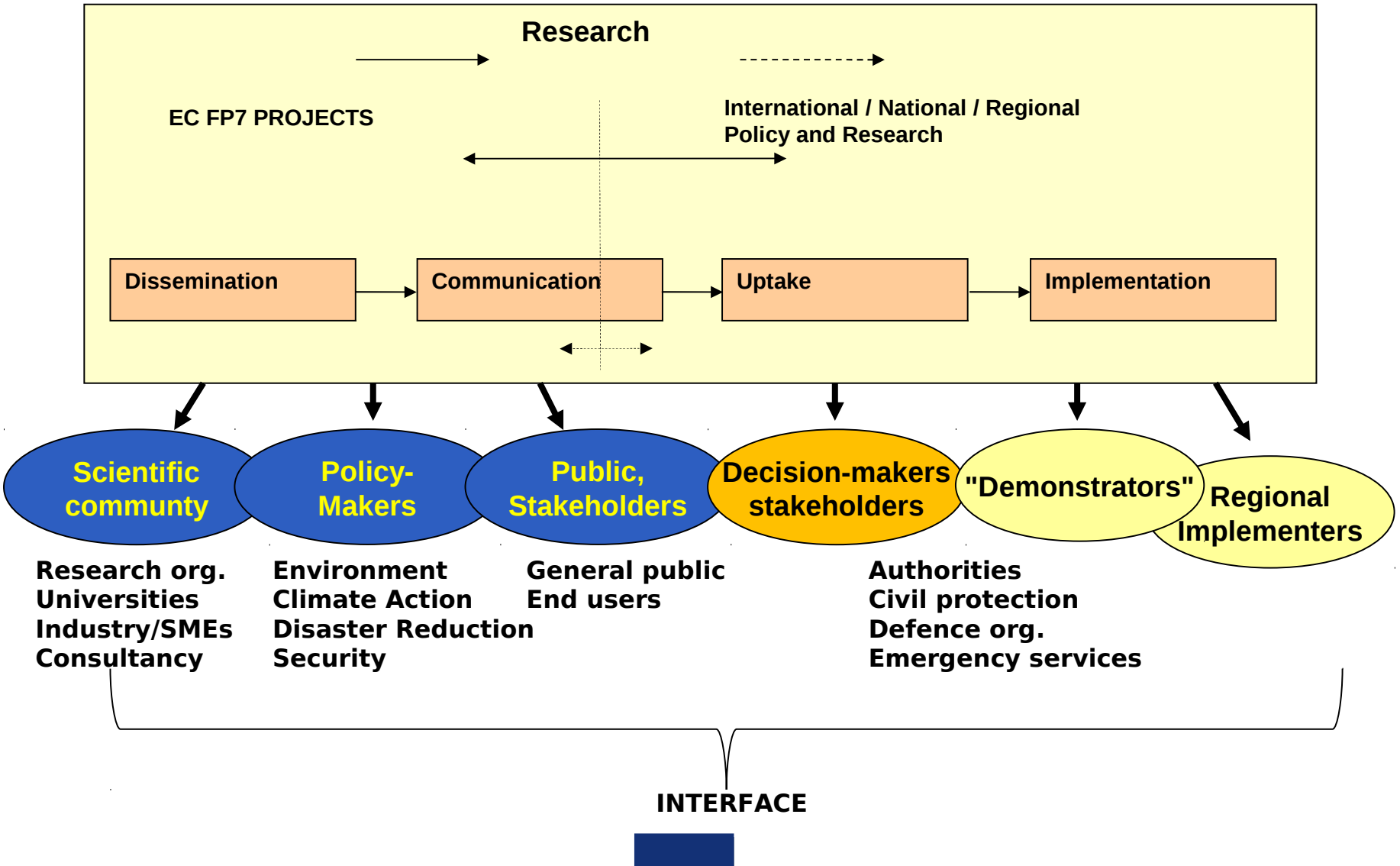


Interactions between research and policies

Support to EU policies

- the EU internal security strategy
- the Stockholm programme
- the EU disaster response capacity
- the EU Civil Protection Mechanism (ECHO)
- border surveillance (FRONTEX, EUROSUR)
- the EU CBRN and Explosives Action Plans (HOME)
- the Critical Infrastructure Protection (HOME)
- Health Security (SANCO)
- violent radicalisation, privacy and data protection (JUST)
- Transport (MOVE)
- *CBRN Centres of Excellence (DEVCO +JRC-EEAS-UNICRI)*
- *European Framework Cooperation EC-EDA (NRBC)*

Research Implementation



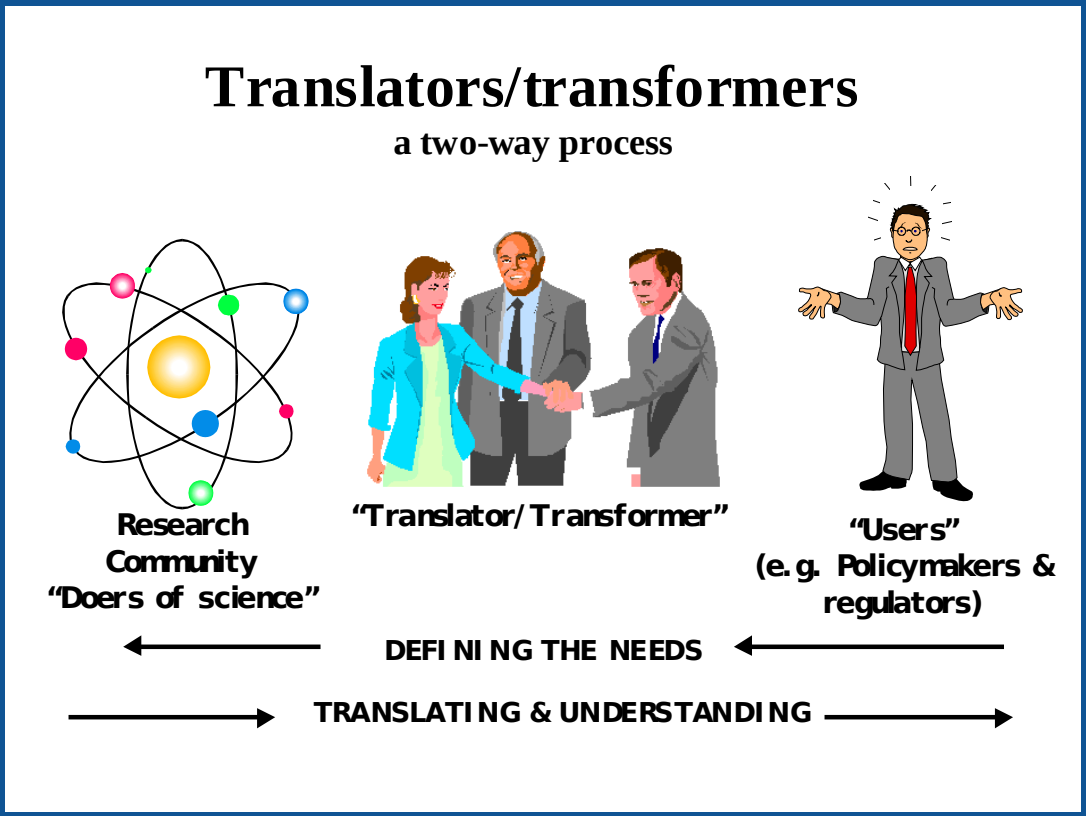
Needs for "mediation" mechanism

who - is your audience or the users of the information?

what - do they need to know?

how - is it best presented?

when - do they need the information?



How to ensure an efficient „transforming“ work?

Courtesy of Peter Allen-Williams (IWRM.Net) & Bob Harris

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Research

A simple route?

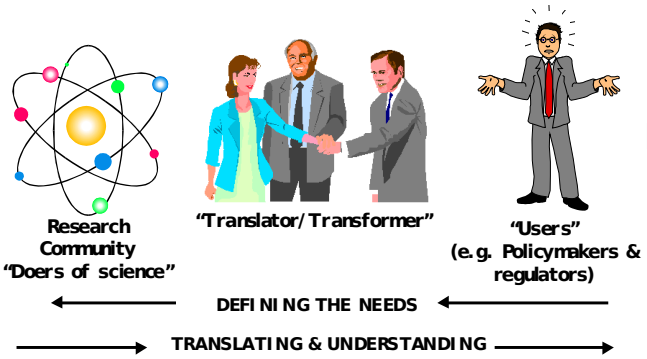
Policies

Translators/transformers

a two-way process

Numerous universities, research organisations

One main communication language: EN



Courtesy P.A. Williams & R. Harris

28 EU Member States

More than 120 River Basin Districts

More than 320 Regions

243 EU Official languages

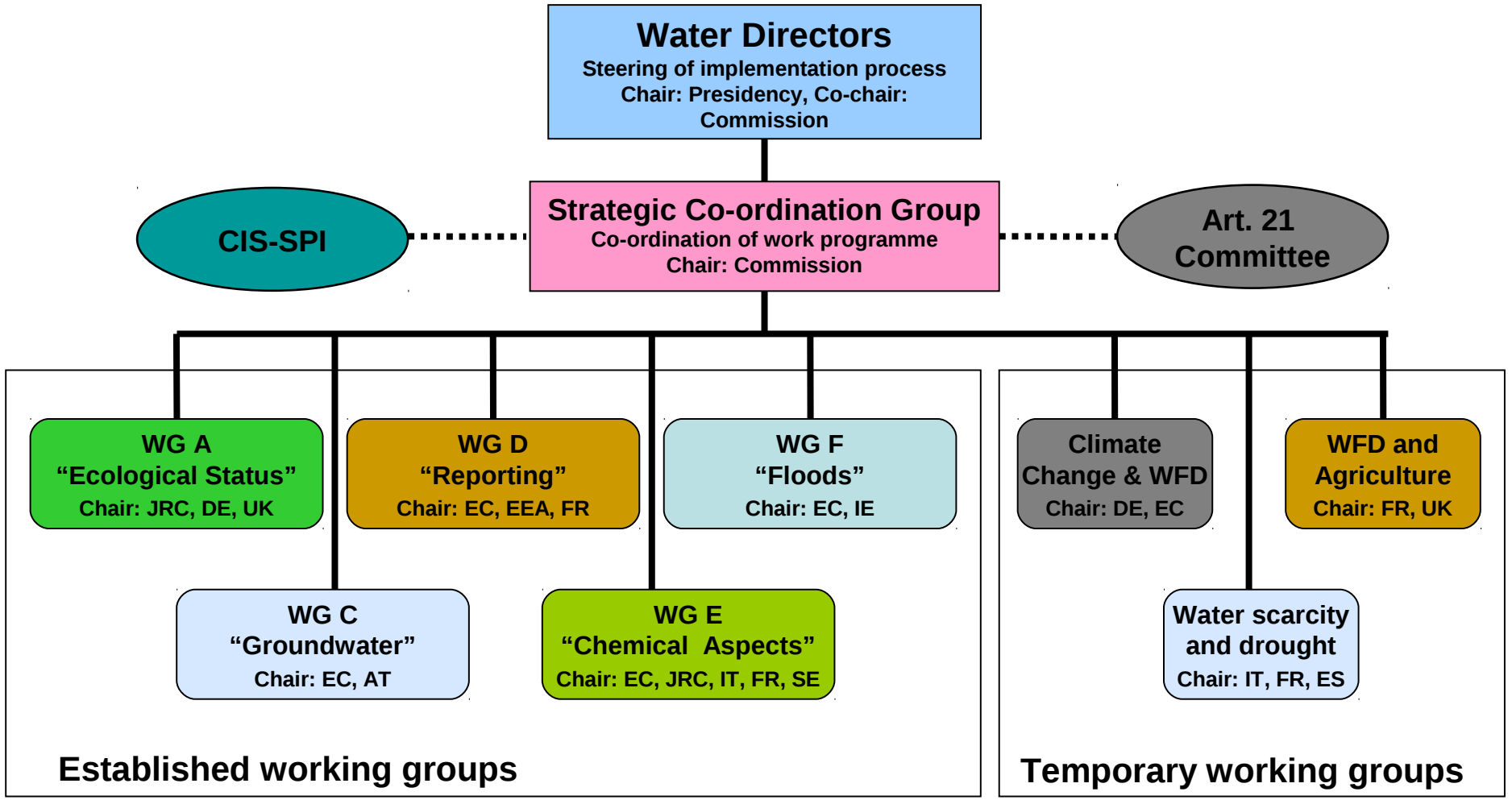
Knowledge providers

Still simple?

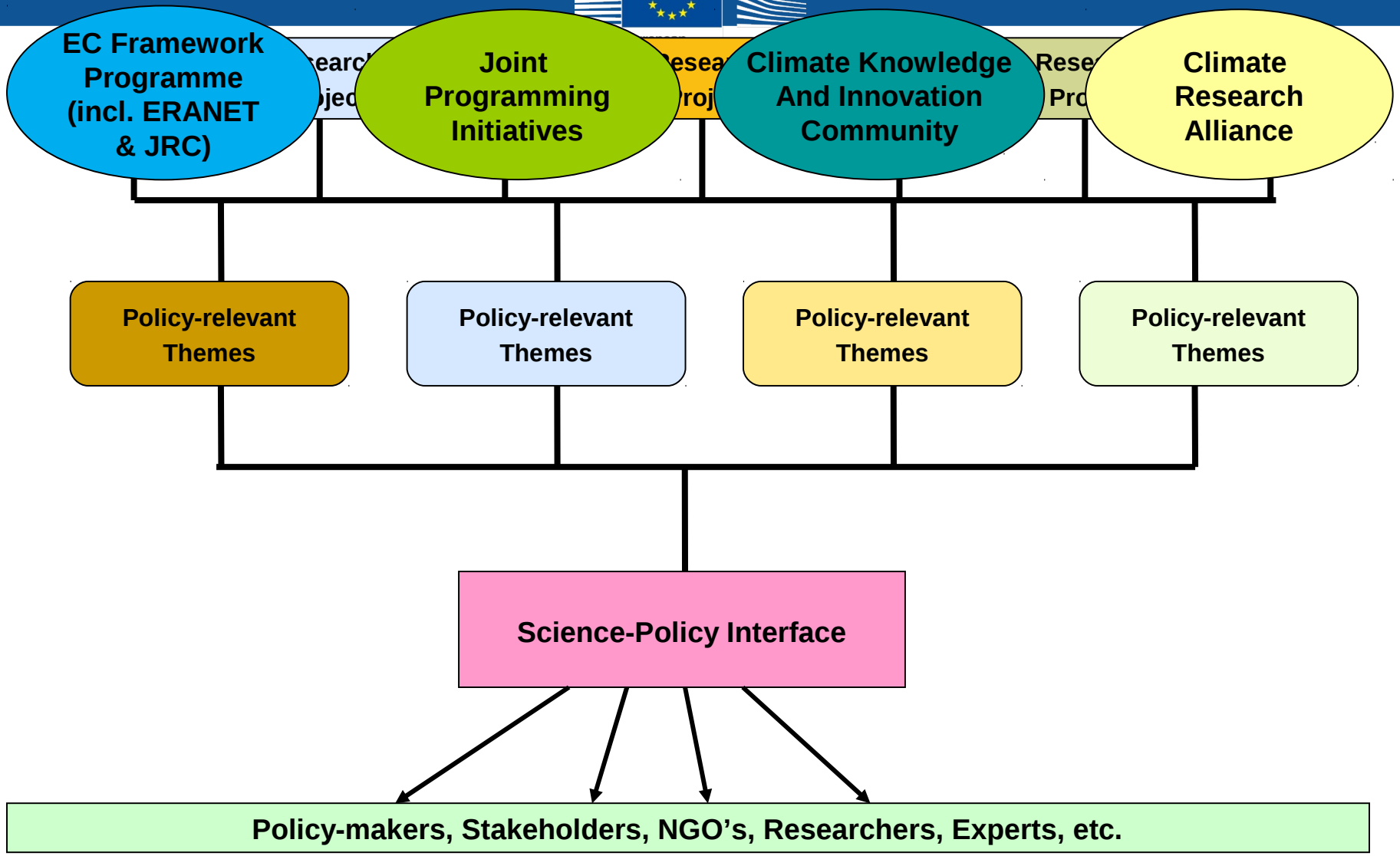
Policy implementation

Stakeholders, Industry, citizens

Policy implementation: example of strategic approach in the water area



Towards science-policy interfacing?



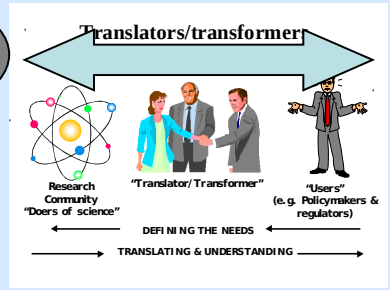
Role for the EU: Implementation Strategy

INTERNATIONAL (Research funding)

Research

Research findings, Scientific literature

Int[al] actors



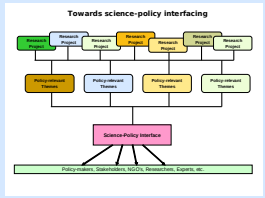
Policies

INTERNATIONAL (UN, EU)

Int[al] actors

Design and Reviews

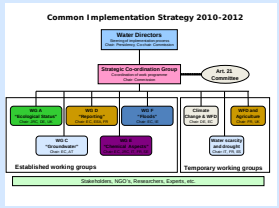
European Research Area



'Science Digests'

ACCESS TO STATE-OF-THE-ART KNOWLEDGE

SCIENCE-TO-POLICY & POLICY-TO-SCIENCE BRIEFS



'Policy Digests'

Common Implementation Strategy

Role for the Member States: Networking, Transfer and Implementation

NATIONAL (Research funding & implementation)

Research findings, Technical guides

Nat[al] actors

TECHNICAL RECOMMENDATIONS

NATIONAL (Implementation & Reporting)

Nat[al] actors

Reports, Guidelines

National Progr.

Implem. Strategies

REGIONAL (Implementation)

Research findings, 'Cooking recipes'

Reg[al] actors

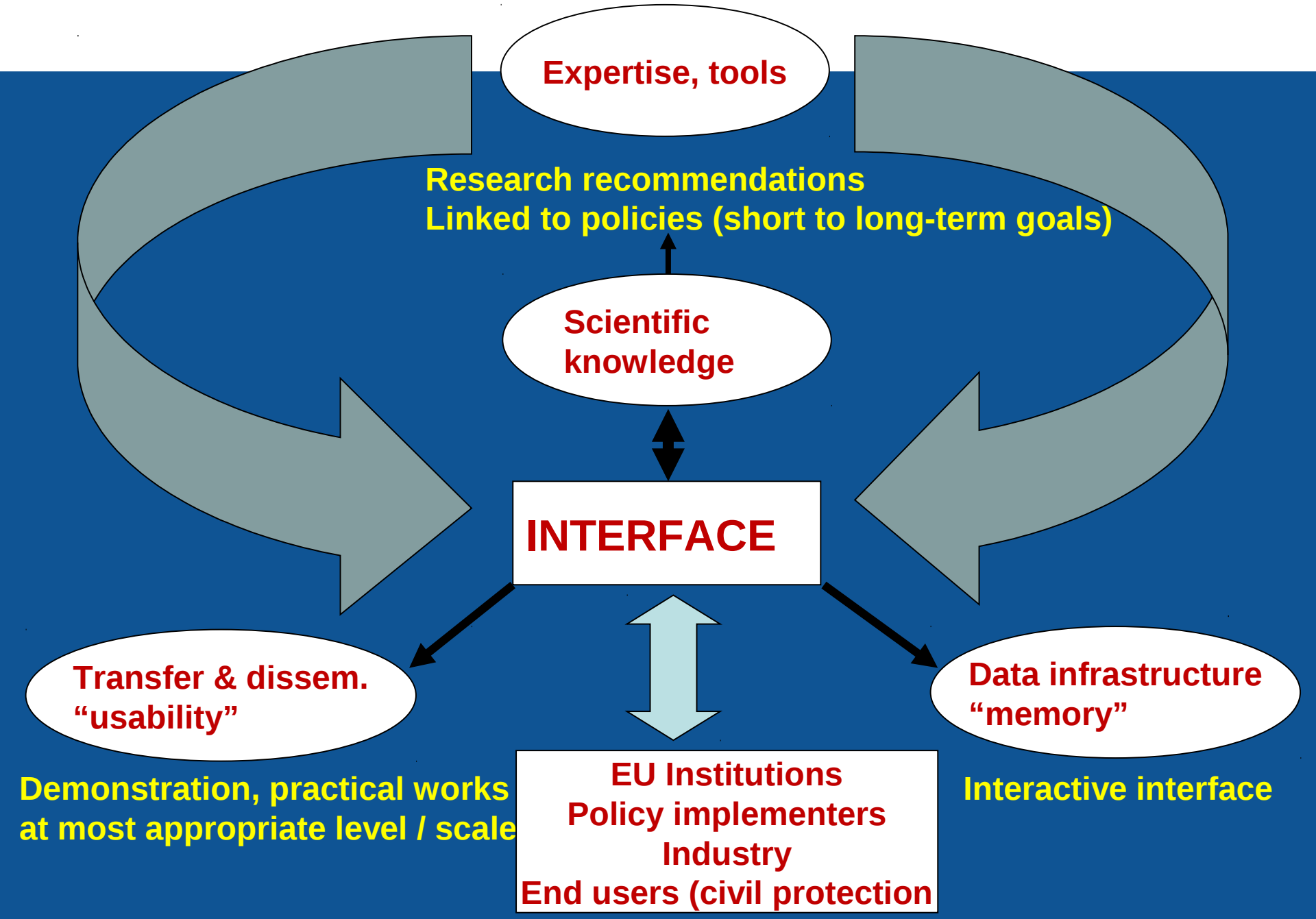
STANDARD OPERATING PROCEDURES

REGIONAL (Implementation)

Reg[al] actors

Operational level

The challenge



"Secure Society" in Horizon 2020: Mission areas

1. Fighting crime and terrorism

2. Strengthening security through border management

3. Providing cyber security

4. Increasing Europe's resilience to disasters (includ. critical infrastructure protection)

5. Ensuring privacy in the Internet and enhancing the societal dimension

6. 'Dual-use' technologies

Detailed information on :
http://ec.europa.eu/research/horizon2020/index_en.cfm

Conclusions
Some challenges…

- **Challenge 1 – Increasing and streamlining communication of knowledge derived from EU research projects to reach targeted audiences: needs for professional communication strategy with various vectors, e.g. layman factsheets, tailored seminars, established dialogue at all project steps, e-leaning etc.**
- **Challenge 2 – Improving accessibility and transfer of research results through a "cascade-type" communication, e.g. factsheets, guidance documents, technical guidelines discussed and agreed among scientists, policy-makers and stakeholders, with established links to demonstration / capacity building initiatives at regional/local level**
- **Challenge 3 – Strengthening the Science-Policy-Industry Interface to become results-oriented: linked to the above needs and challenges and requiring an effective "institutionalised" transfer mechanism with professional "mediators"**

Thank you for your attention!