

EUPORIAS

A quick introduction to the project

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Water sector workshop
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@euporias



Overview

EUPORIAS: European Provision Of Regional Impact Assessment on a Seasonal-to-decadal timescale

EUPORIAS is financed by the European Commission through the Seventh Framework Programme for Research (Theme Six, Environment) – running from November 2012 to January 2017.

The Met Office coordinate the project that gathers 24 partners (EU contribution = 8,9 million €).

Project vision: Increase the ability of EU business and authorities to make effective decisions in climate-sensitive sectors.

Different partners focus on the WATER sector, mainly CETaqua, AEMET, IPMA and University of Leeds

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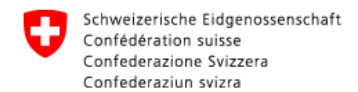
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World Health Organization

LUND UNIVERSITY



Tourisme Transports Territ
Environnement Conseil



UNIVERSITY OF LEEDS



PARTNERS

Climate forecast providers

Met Office (UK)
MeteoSwiss (Switzerland)
Univ. Cantabria (Spain)
AEMET (Spain)
DWD (Germany)
Météo France (France)
KNMI (Netherland)
SMHI (Sweden)
IPMA (Portugal)
IC3 (Spain)



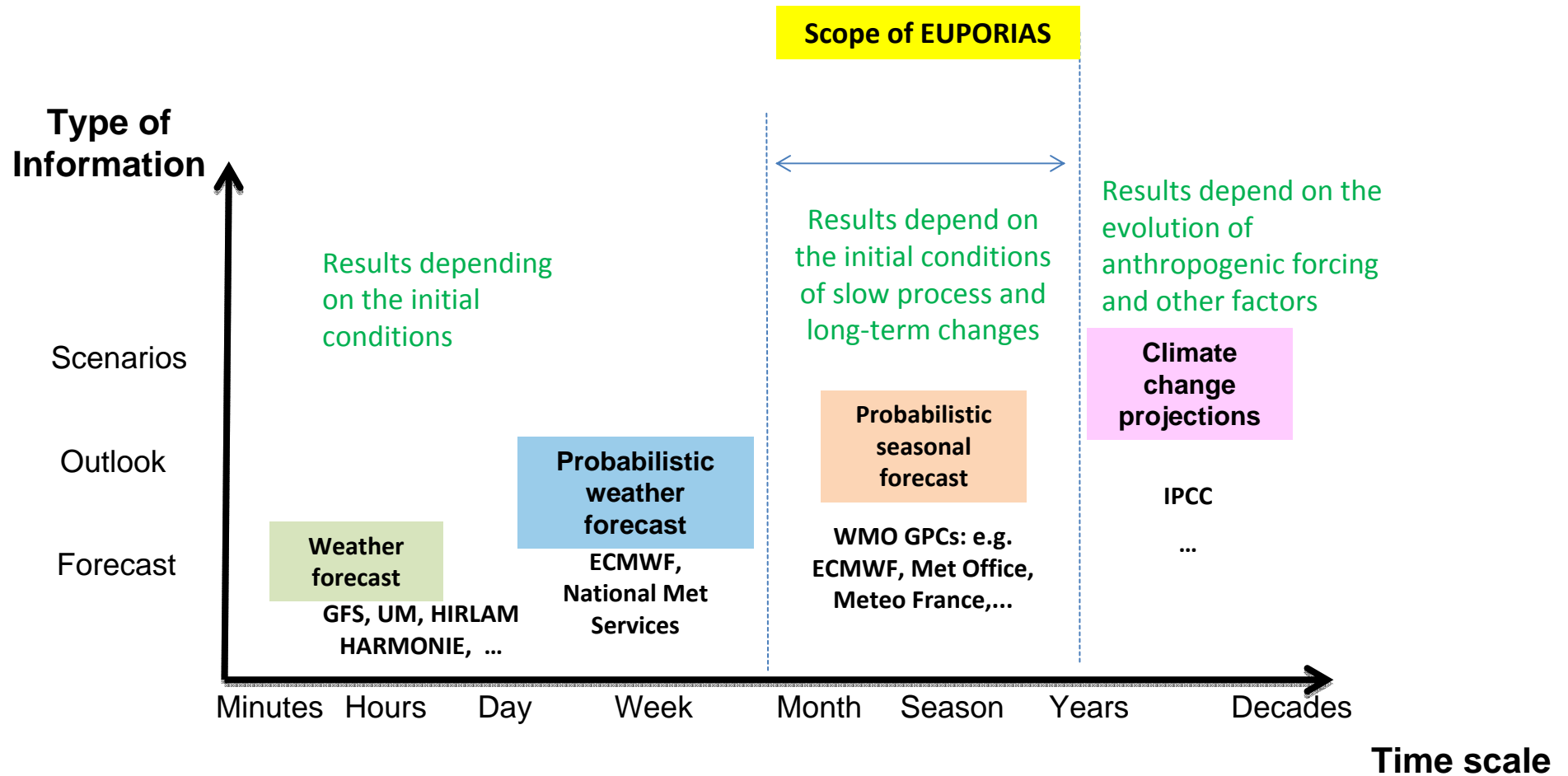
End-users/decision makers

ENEA (Italy - Energy)
Wageningen Un. (Netherlands – Water, Agr.)
CETaqua (Spain - Water)
TEC (France - Tourism)
IC3 (Spain, Energy, Health)
Un. of Lisbon (Energy, Water, Forestry)
EDF (France - Electricity)
WFP (World /Italy- Food)
WHO (World / Switzerland - Health)
Un. of Leeds (UK - ?)
Un. Lund (Sweden – Forest)
Predictia (Spain – Transport)

Software/service provider

DHI (Denmark, Water & environment DSS)
Predictia (Spain, Web-based data mining solutions)
KNMI (Netherland, Climate database)
Météo France (France, River flow forecast)
Met Office (UK, winter water services...)

Overview



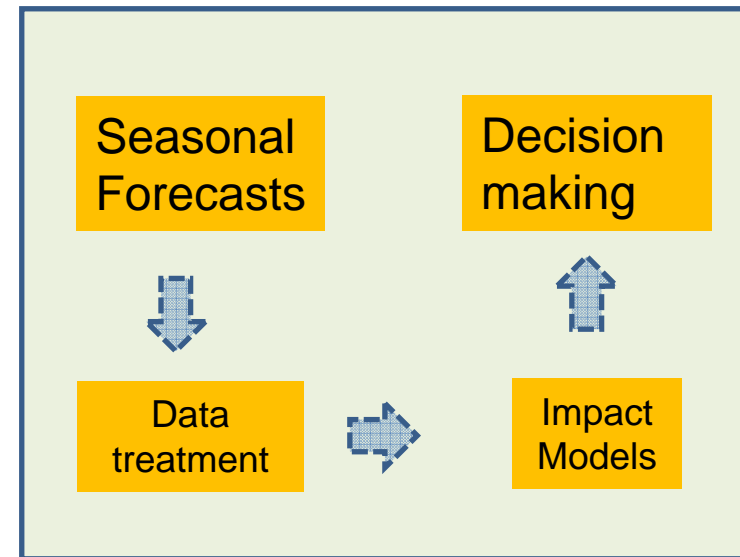
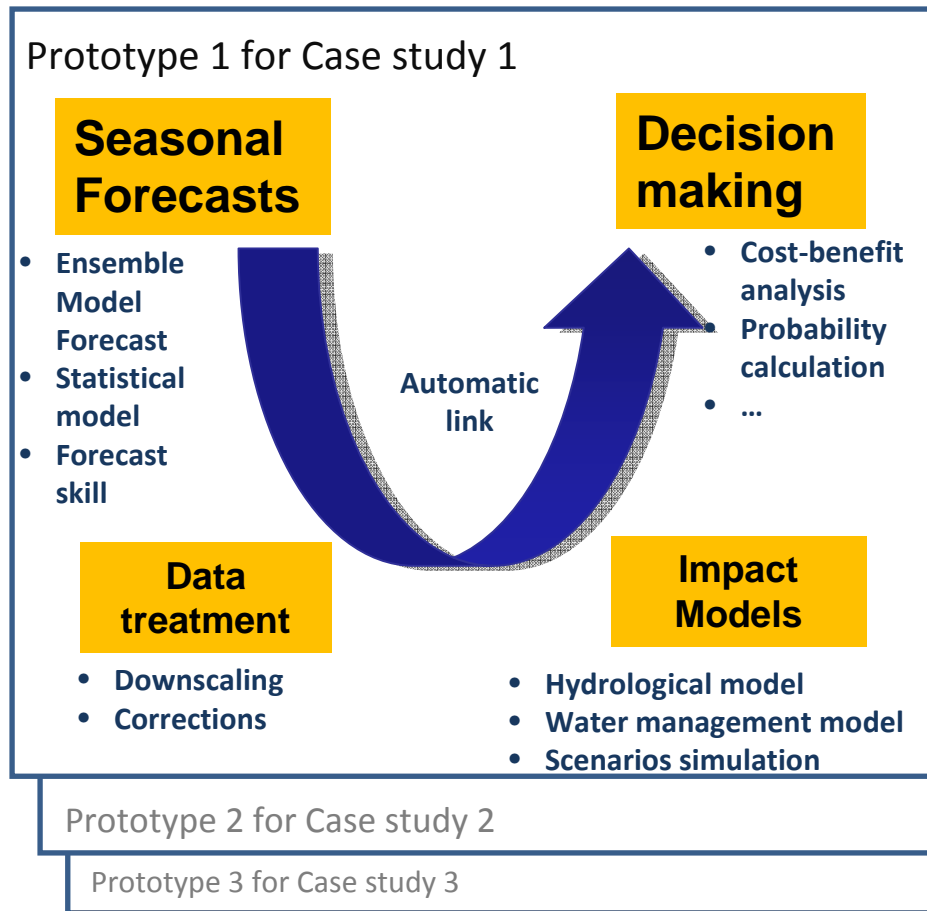
Objectives

1. To develop and deliver a reliable and trusted impact prediction system for **two or three semi-operational prototypes**. These will provide working examples of 'end-to-end' climate-to-impacts-to-decision-making services operating on the Seasonal and Decadal (S2D) time scales.
2. To assess and document key knowledge gaps and vulnerabilities of important sectors (e.g. Water, Energy, Transport, Food security, Health, etc.) along with the needs of specific users within these sectors, through close collaboration with project stakeholders.
3. To **develop a set of standard tools and techniques** tailored to the needs of stakeholders for calibrating, downscaling, and modelling sector-specific impacts on S2D timescales.
4. To develop a knowledge-sharing protocol necessary to promote the use of these technologies.
5. To assess and document the current marketability of climate services in Europe.

Objectives

2 or 3 semi-operational prototypes

Set of standard tools and techniques



Partial applications in other case study

EUPORIAS' structure

Three main blocks:

RT1: **understand**

- Users needs and current use of S2D
- Sector specific vulnerability

RT2: **improve**

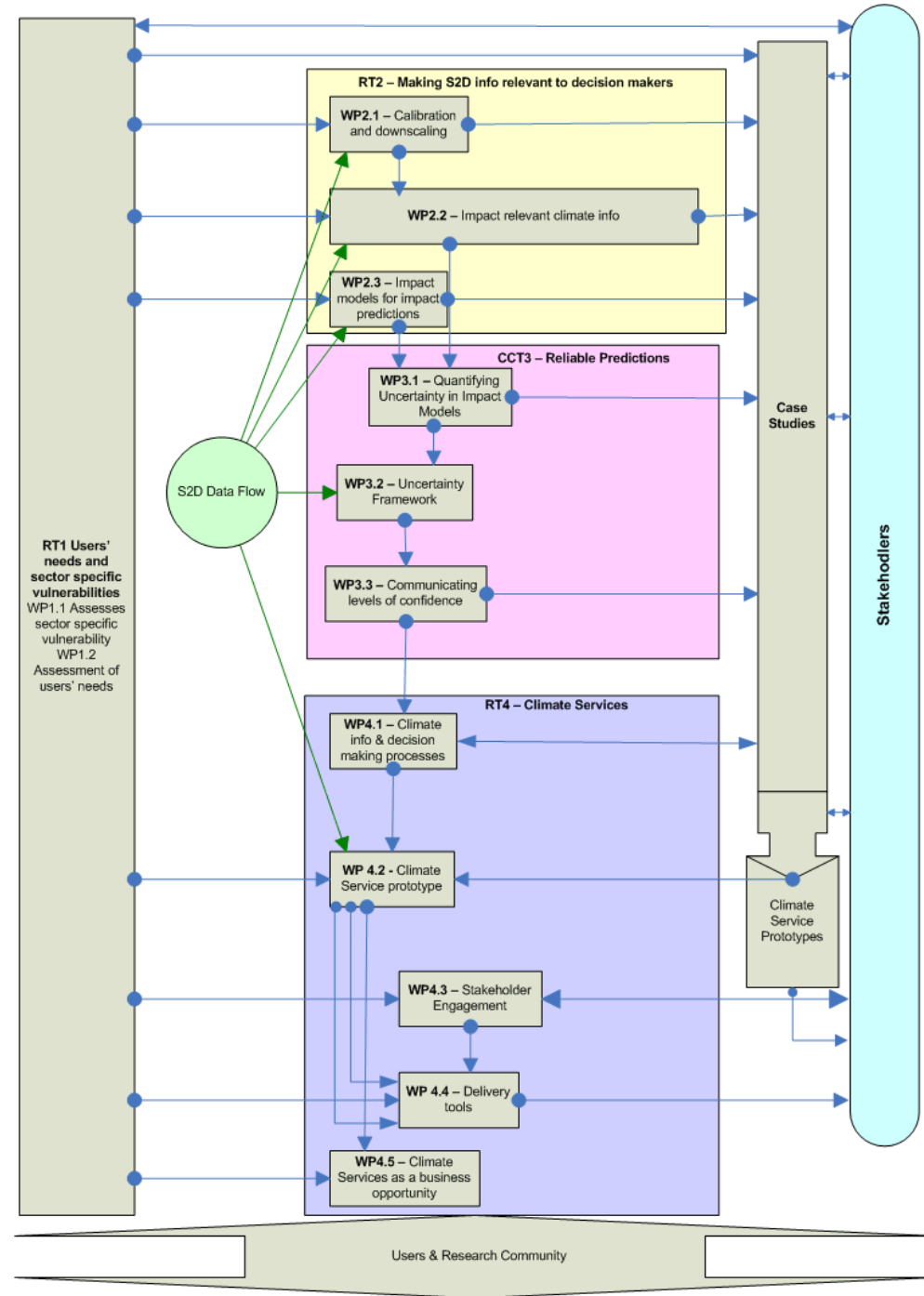
- Decision-relevant scales: downscale
- Decision-relevant parameters: impact models and post-processing

CCT3: **Uncertainty**

- Impact models' uncertainties
- Combining uncertainties
- Communicating level of confidence

RT4: **engage and demonstrate**

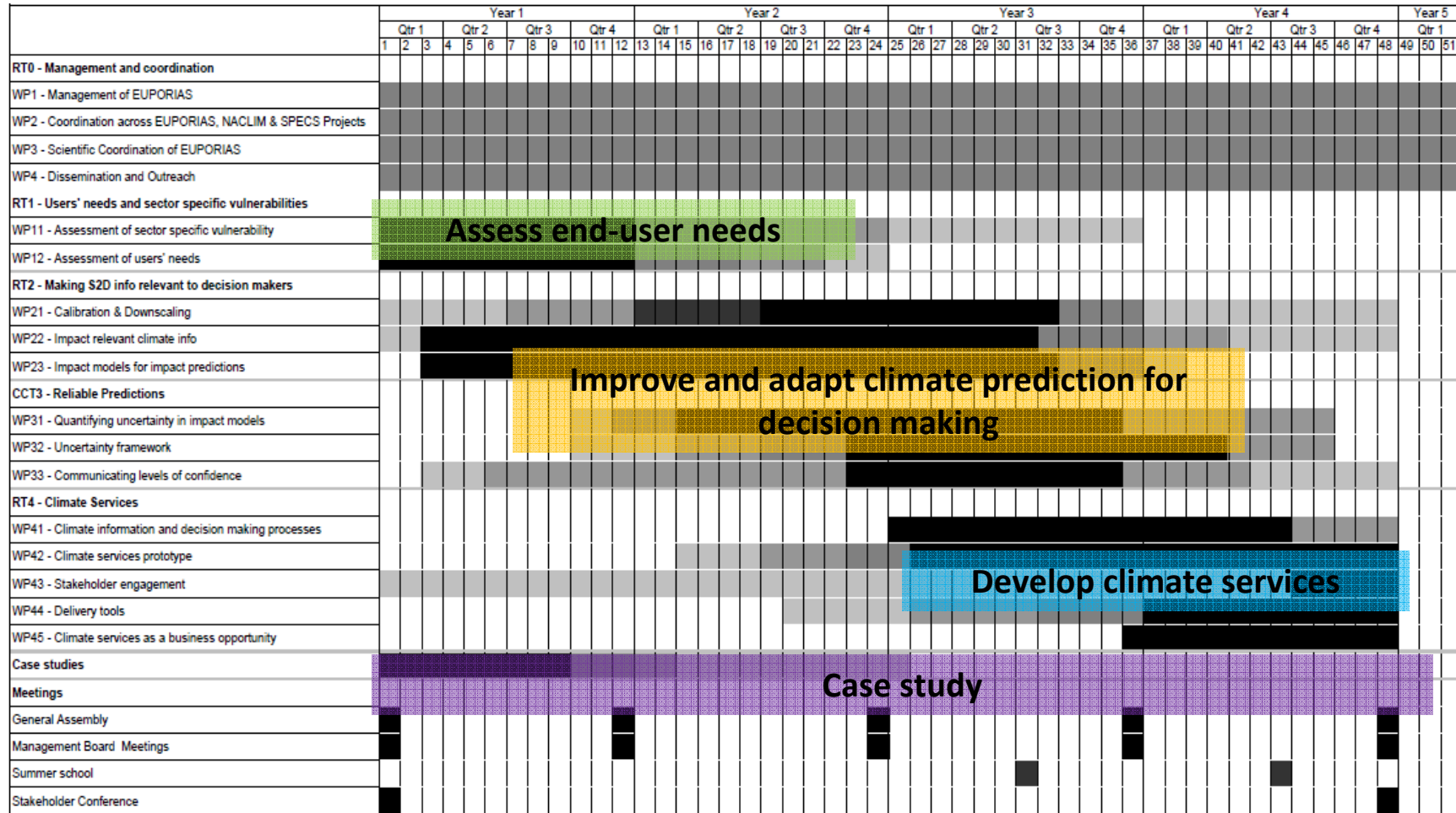
- Decision making process
- Climate service prototypes
- Delivery and engagement
- Business opportunity



Agenda

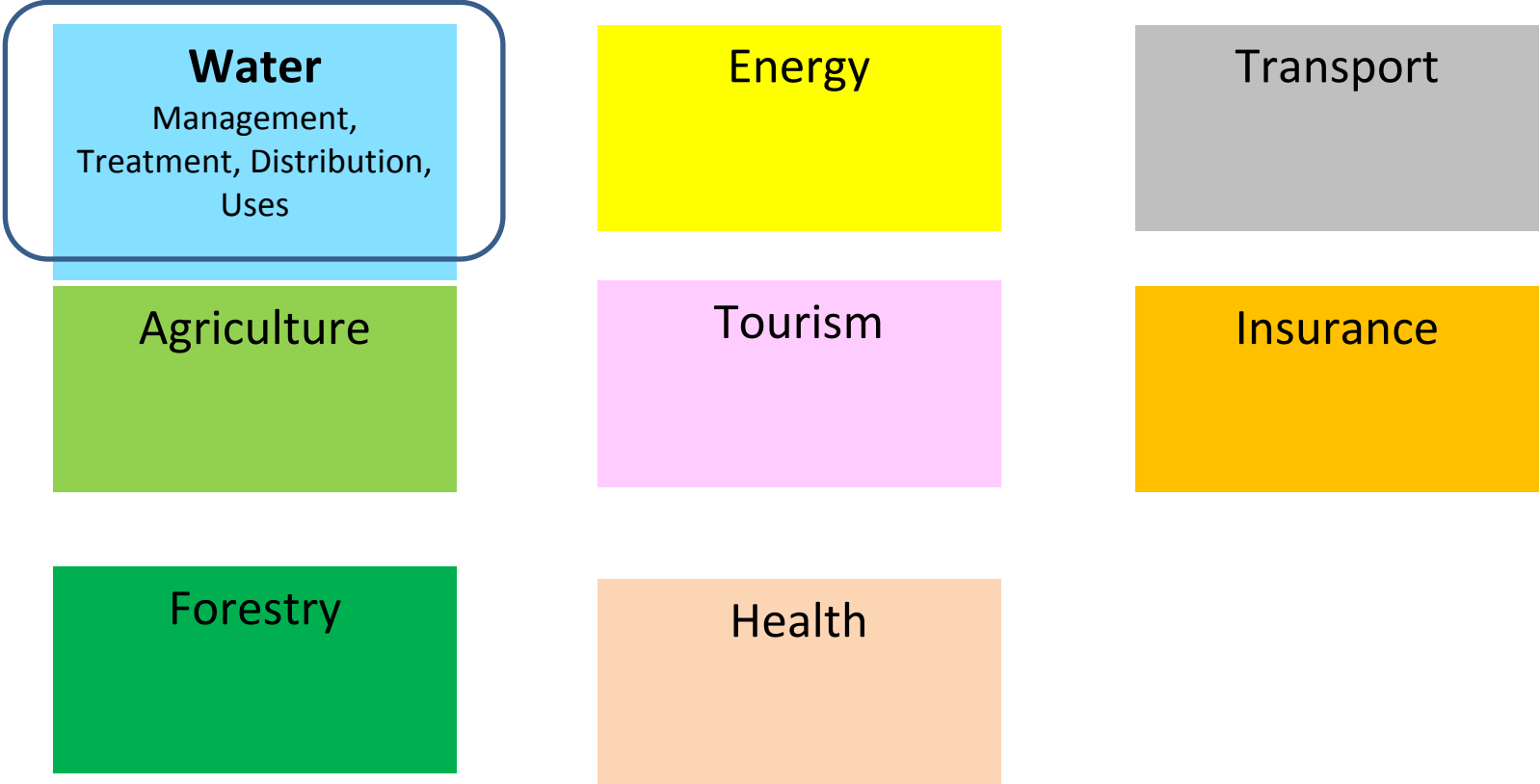
Nov 2012

Jan 2017



NB. The darker the shading indicates the greater intensity of activity in a task

SECTORS Targeted



EUPORIAS



ELFORSK

ELFORSK – SWEDISH ELECTRICAL UTILITIES' R&D COMPANY



nationalgrid



World Meteorological Organization
Weather • Climate • Water



Ministério da Agricultura,
Mar, Ambiente e
Ordenamento do Território

DGADR
Direcção-Geral
de Agricultura e
Desenvolvimento Rural



Swedish Civil
Contingencies
Agency



LÄNSSTYRELSEN
ÖSTERGÖTLAND



Muchas Gracias

Merci, grazie, thank you, gracias, tak, danke, obrigado, multumesc, tack

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