



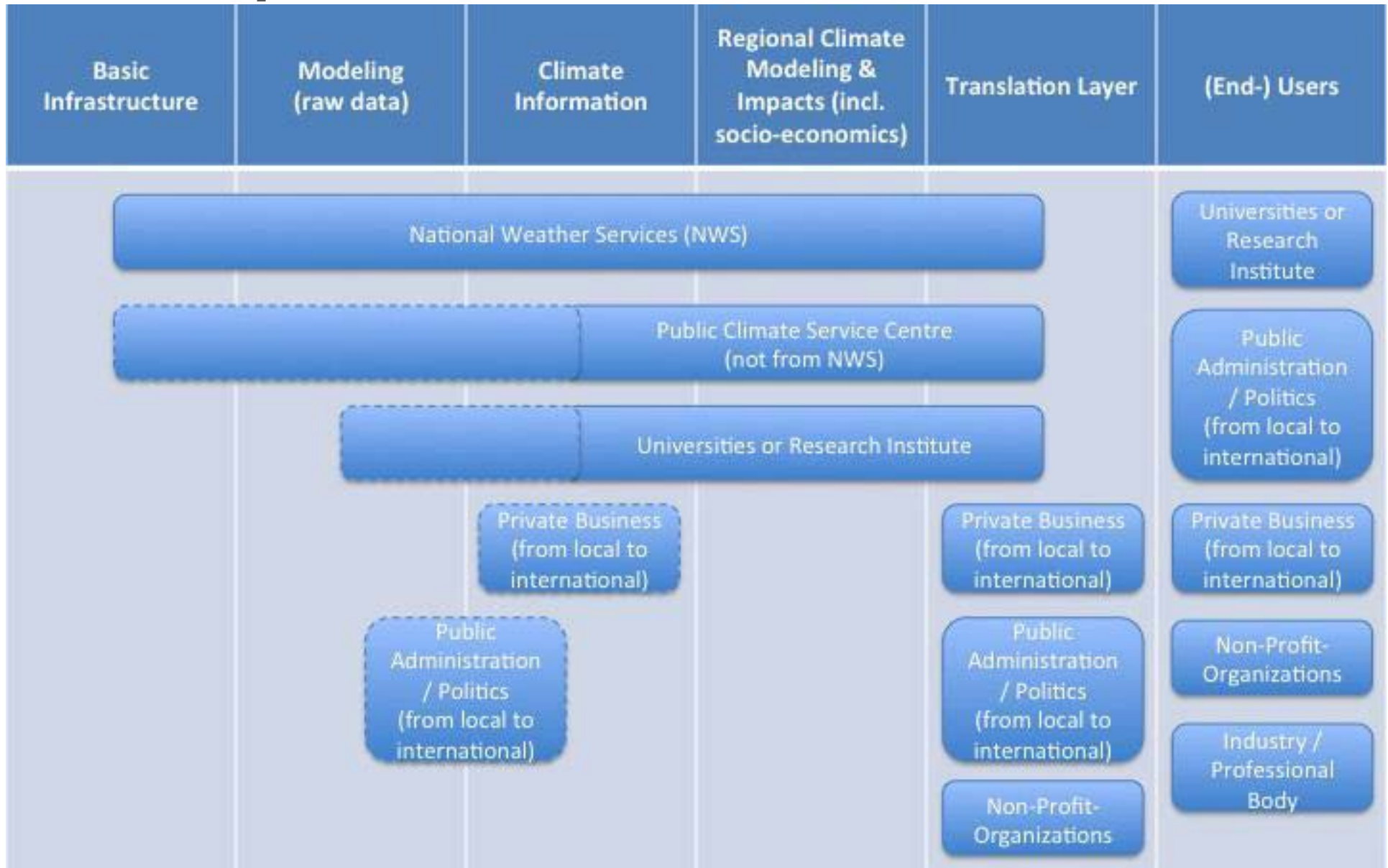
Typologies of Climate Services

Jörg Cortekar

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Users, providers and intermediaries



■ Key message

- Many different types of users
- Asking for many different types of services with different characteristics, e.g.
 - **Types of services**
 - **Types of providers**
 - **Sectorial focus**
 - Resolution in terms of time and spatial scale
 - Quality controlled



Background

European Research Area
for Climate Services







- Transnational initiative of national **funding bodies** to align climate-related **research** across Europe
 - Strong interest in getting a better understanding of the **climate services arena** in the JPI Climate member countries
 - Mapping of CS providers and their **climate services related activities** via an online survey
 - **Joint effort** of representatives (nominated experts) of eighteen countries
- **Science- / research-centred** approach




- H2020 projects on **market research**
 - MARCO: Defining climate service **market characteristics** and foresight into market growth
 - EU-MACS: assess **constraints and enablers** for the uptake of climate services and growth of the market
 - Partners from research, private business, public-private-partnerships
 - Strong focus on the commercial part of the market
- More **business-centred** approach



Types of services

 	 
Data, processed data, metadata	Measurements (i.e. instruments and technologies for measurement and calibration)
Graphics, maps	Operations (i.e. Collection and provision of raw data)
Tools and methods	Modelling
Synthesis & assessment reports	Data management (Provision of calibrated data sets, data archiving, data certification and data sales)
Consultancy	Processing & re-analysis
Guidance	Advisory services, e.g risk assessments and decision-support tools
Workshops	Publications
Capacity building	<i>Capacity building</i>
	Other consulting, e.g. advise on corporate statements to shareholders

Types of providers

 	 
(Extensions of) National meteorological services	(Extensions of) National meteorological services
Public climate service centres (not from national meteorological services)	Public climate service centres (not from national meteorological services)
Universities or research performing organisations	Universities or research performing organisations
Non-profit-organisations / NGOs	Non-profit-organisations
Private businesses	Industry or professional bodies
	Public administration / politics
	Industry / large companies
	SME
	Start-ups

Types of sectors

- Different segmentations possible, e.g. according to national accountings (ISIC / NACE), policy / societal domains



20 sectors in accordance with policy / societal domains such as

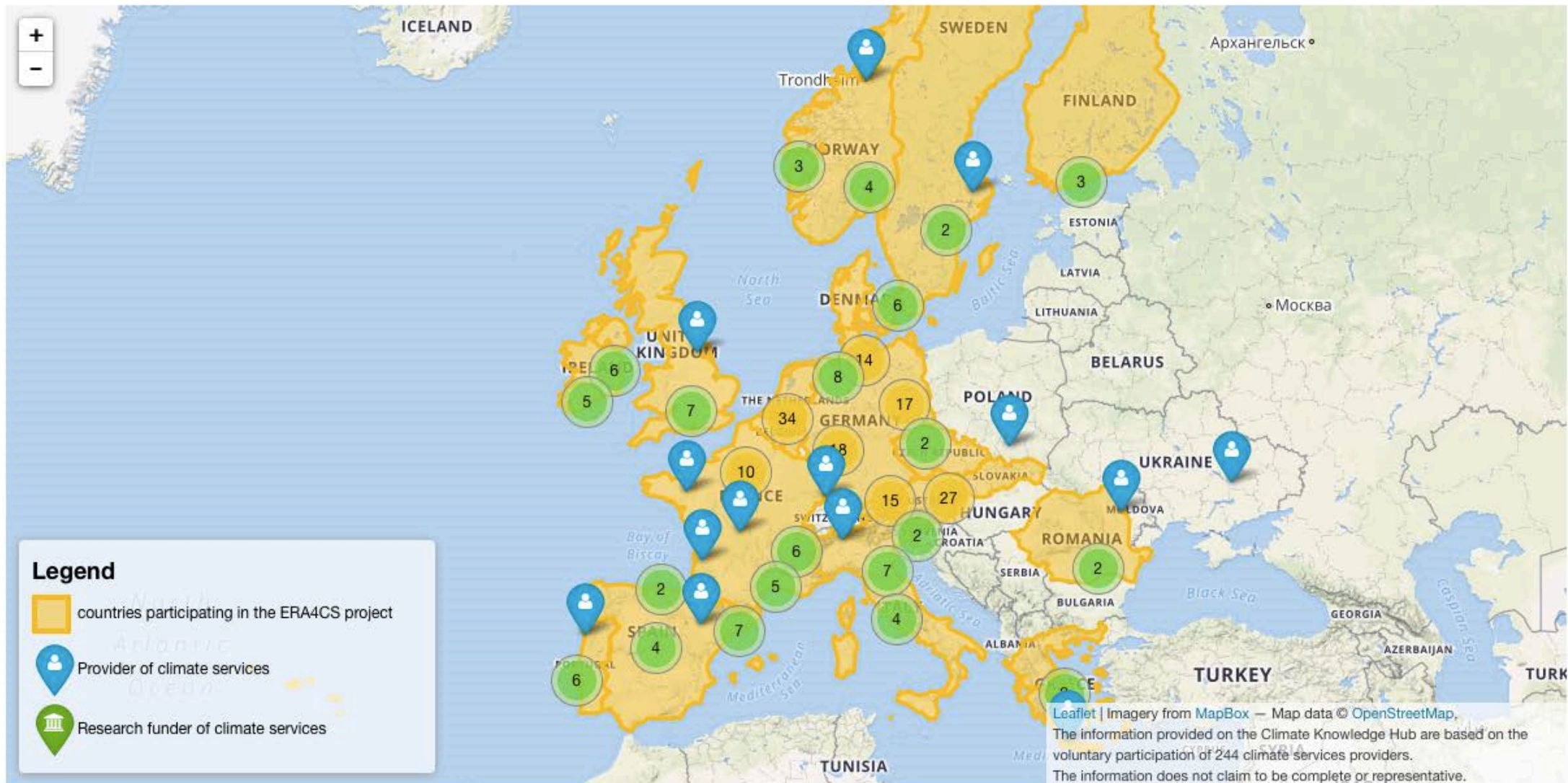
- Agriculture
- Finance & Insurance
- Water
- Energy
- Catastrophe management / DRR
- Ecosystems management / Biodiversity
- (Critical) Infrastructures
- Urban / spatial planning

24 “sectors“ based on a business-oriented approach

- Utilities (incl. water, waste, energy)
- Transportation and logistics
- Exploration
- Legal & financial
- Tourism & leisure
- Hospitality
- Biotechnology

Search (min. 4 characters) - separate criteria with ' and ' - e.g. 'consulting and germany'

Clear



Legend

- countries participating in the ERA4CS project
- Provider of climate services
- Research funder of climate services

Leaflet | Imagery from MapBox — Map data © OpenStreetMap.
The information provided on the Climate Knowledge Hub are based on the voluntary participation of 244 climate services providers.
The information does not claim to be complete or representative.

KNMI



Services

Service 1

Question	Answer
Keywords	<ul style="list-style-type: none">• Climate observations
How would you classify the climate service product?	<ul style="list-style-type: none">• Processed data• Data• Graphics, maps• Meta data• Tool• Method• Synthesis (report)• Consultancy• Guidance• Workshop• Other: guideline_manual
Who are the targeted users / clients of this service?	<ul style="list-style-type: none">• Researchers• Consultancies• Public decision makers / politicians• General public and media
In developing this service or parts thereof is there collaboration with	
If this service requires data, do you use your own data or do you obtain data/information from another data provider?	

■ Conclusions & questions

- Typologies of climate services vary according to the underlying question(s)
- Should be balanced, i.e. neither too broad, nor too narrow
- Which are relevant ones – from a users' perspective? Is there consensus on at least some basic dimensions / descriptors?
- What about capacity building – CS yes or no?
- What about, e.g. advise on corporate statements to shareholders – CS yes or no?