

# WEBINAR

December 12, 2018 - h.11.00 am CET

[www.cmcc.it](http://www.cmcc.it)

## Climate services in the finance sector: insights for users and providers of climate data and information

**Robin Hamaker - Taylor** - Presenter  
*Policy and risk analyst – Acclimatise*

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**Adriaan Perrels** - Discussant  
*Finnish Meteorological Institute*

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**Jaroslav Mysiak** - Moderator  
*Euro-Mediterranean Centre for Climate Change –  
RAAS Division*

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# NETWORK



# RESEARCH DIVISIONS

Advanced Scientific Computing (ASC)

Climate Simulation and Prediction (CSP)

Economic analysis of Climate Impacts and Policy (ECIP)

Impacts on Agriculture, Forests and Ecosystem Services (IAFES)

Ocean modeling and Data Assimilation (ODA)

Ocean Predictions and Applications (OPA)

Risk Assessment and Adaptation Strategies (RAAS)

REgional Models and geo-Hydrological Impacts (REMHI)

Sustainable Earth Modelling Economics (SEME)



# TOPICS

Modelling  
Policy Adaptation  
Agriculture Society  
Predictions Impacts  
Hydrogeology  
Forests Simulations  
Oceans Ecosystems  
Computing  
Services





**Publications**



**Events**



**Education**



**Communication**

**OUTREACH**



# Q&A session

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To participate in the Q&A Session, please use the “Questions” menu provided by the Go-to-Webinar system

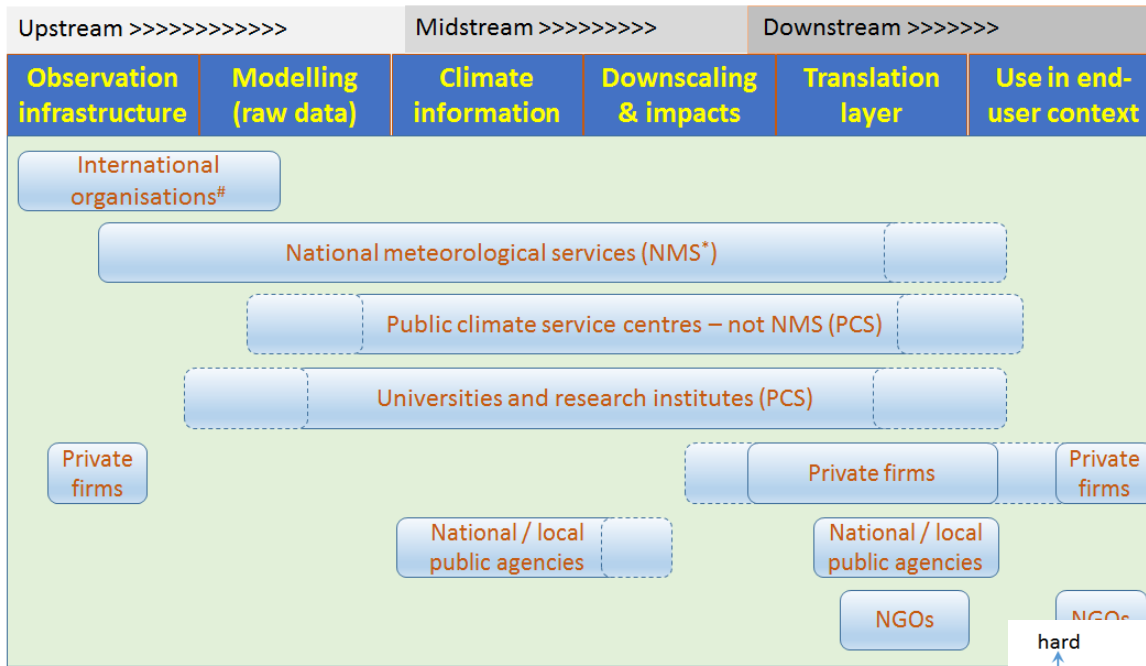


# EU-MACS: options for better uptake

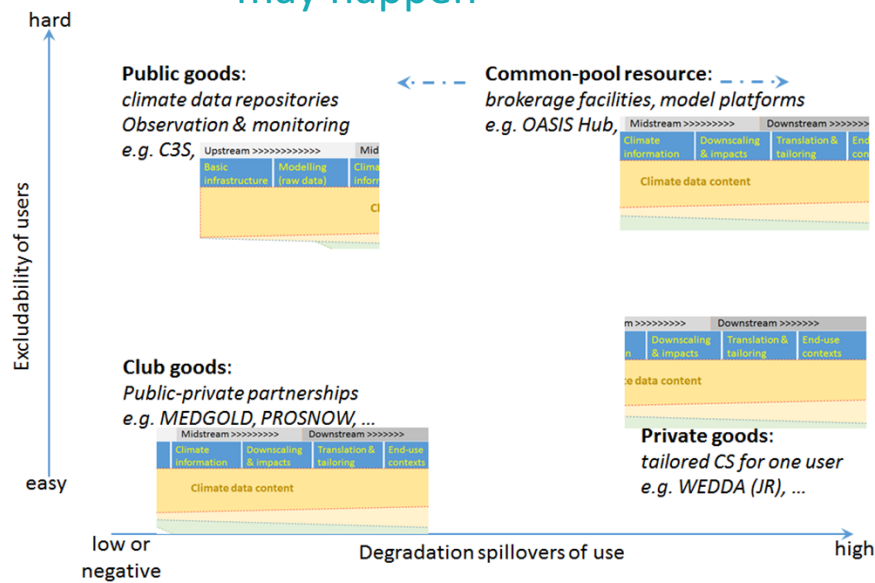
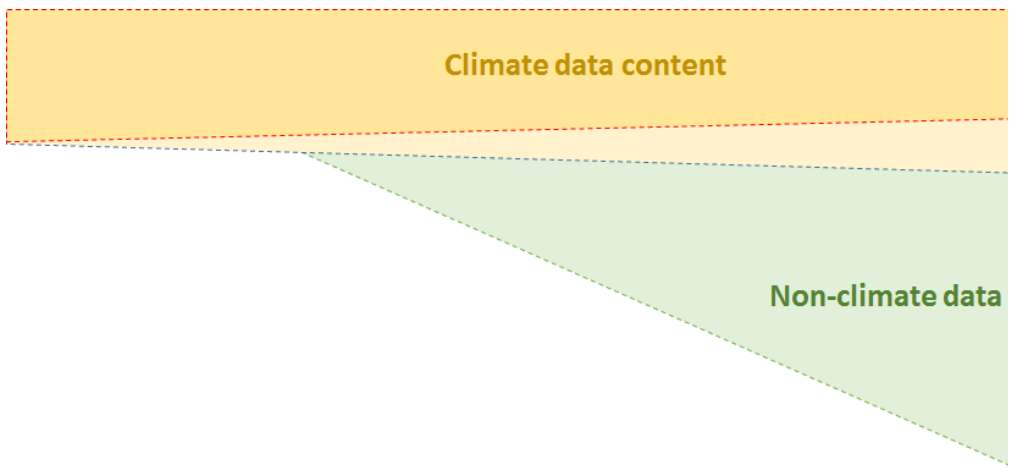
- **H2020 project 2016 – 2018**, twinned with MARCO project
- **Climate service:** the transformation of climate related data – often together with other relevant information - into customized information products, offered as such or embedded in consultancy and/or education
  - for the purpose of resilience and/or climate proofing and/or sustainability
- Assesses **drivers, obstacles and enablers** for climate service market development ... and considers the role of innovation
- Aims to promote **better matching** of supply options and user needs
- Engaged with stakeholders from **finance, tourism and urban planning**
- Proposes policies and measures for **three climate policy scenarios**
- Offers **tools and guidance** for users and providers
  - LivingLabs, Product matrix, Check lists, FAQs



# The challenge of diversity



- the value chain of climate services is diverse and evolving
- gradual shift from mainly public to mainly private when going from upstream to downstream
- increasingly collaborative structures
- in the long run a shake-out may happen





# EU-MACS - the consortium

Adriaan Perrels



Patrizia Pawelek



Andrea Damm



Raffaele Giordano



Jörg Cortekar



Ines Väitinen



Jaroslaw Mysiak



Robin Hamaker-Taylor



Peter Stegmaier

## Budgeting facts

Budget: 1 499 621 €  
Labour: 158.5 person months  
9 partners (of which 5 also in MARCO)  
Total team: 53 persons  
Start: 1.11.2016  
End: 31.12.2018

- Two different worlds meet
- Each have unique jargon; highly technical experts
- Many subdivisions / segments within each group
  - Finance has insurance, banking, investment
  - CS can be up-mid-downstream
- EU-MACS facilitates meeting of these groups

# Drivers encountered

- Changing regulatory landscape in Europe
  - Article 173: climate risk reporting
  - Central bank mobilization
  - HLEG on sustainable finance system & EC action plan
  
- TCFD recommendations
  - Physical climate risk on equal footing as transition risk / low carbon
  - Climate risks as financial risks (not ethical issue)

# Obstacles encountered

- Demand side
  - Low awareness
  - Lack of demand from the top of the investment chain
  - Information gaps around non-climate data
  - Capacity
    - Limited bandwidth to take on additional risk analysis
    - Skilled staff
- Supply side
  - Impact models/studies not packaged as a service
  - Data portals do not target existing risk assessment processes
  - Gaps in climate data and information

## MAPS & APPS

Focused

## EXPERT ANALYSIS

- Non-specific to a sector or group;
- Not related to specific decisions or decision-makers;
- Available freely or cheaply to all users;
- Meteorological and research institutes;
- Focused on *climate* data and information.

- Tailored to specific decisions and decision-makers;
- Focused on *climate*;
- Advisory firms or scientists;
- Typically chargeable.

Generic

Customised

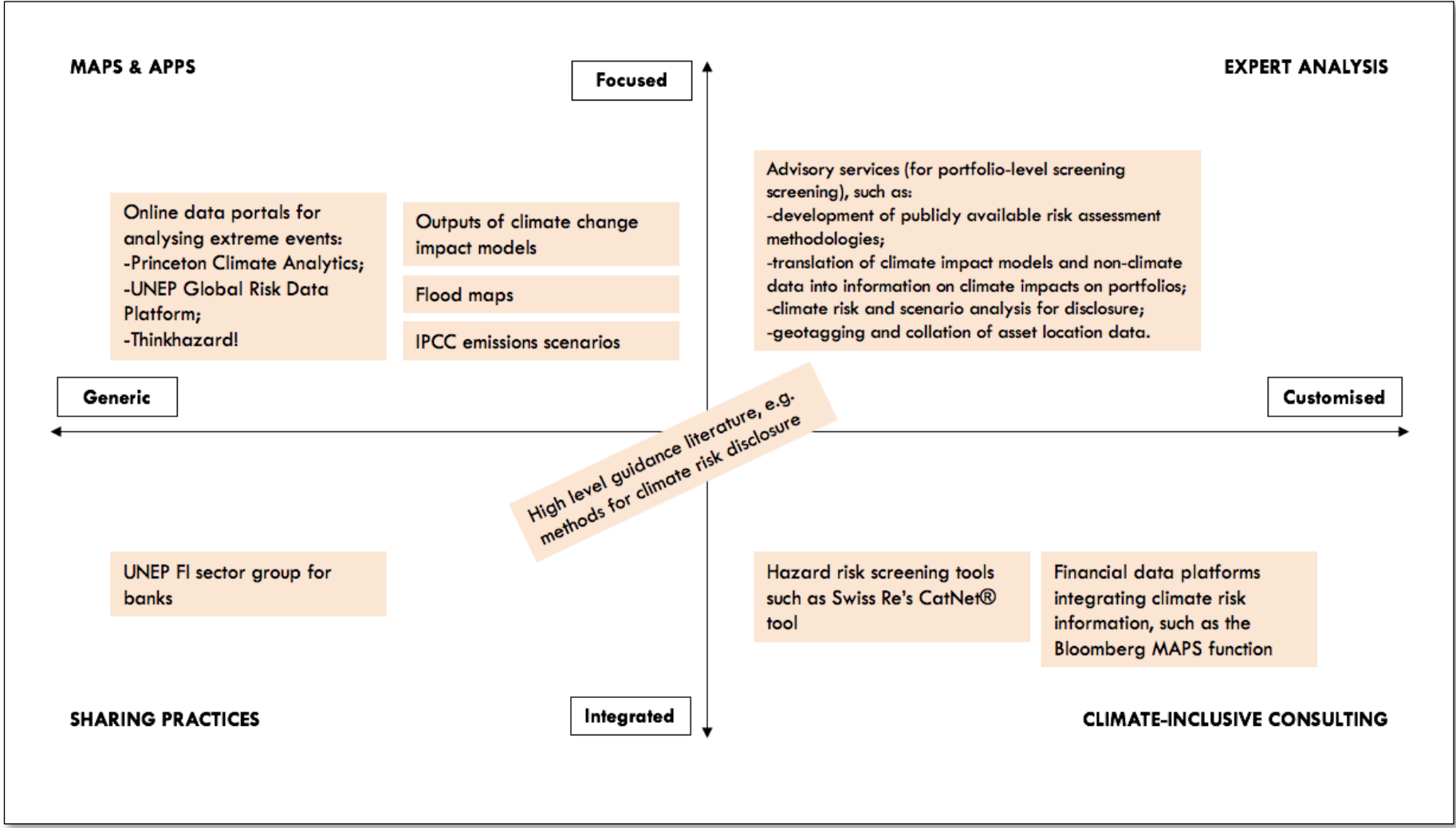
- More specific to a group of end-users;
- Platforms where data and information can be shared, climate can be integrated;
- Available to all users;
- Users can self-determine a package of services from available information.

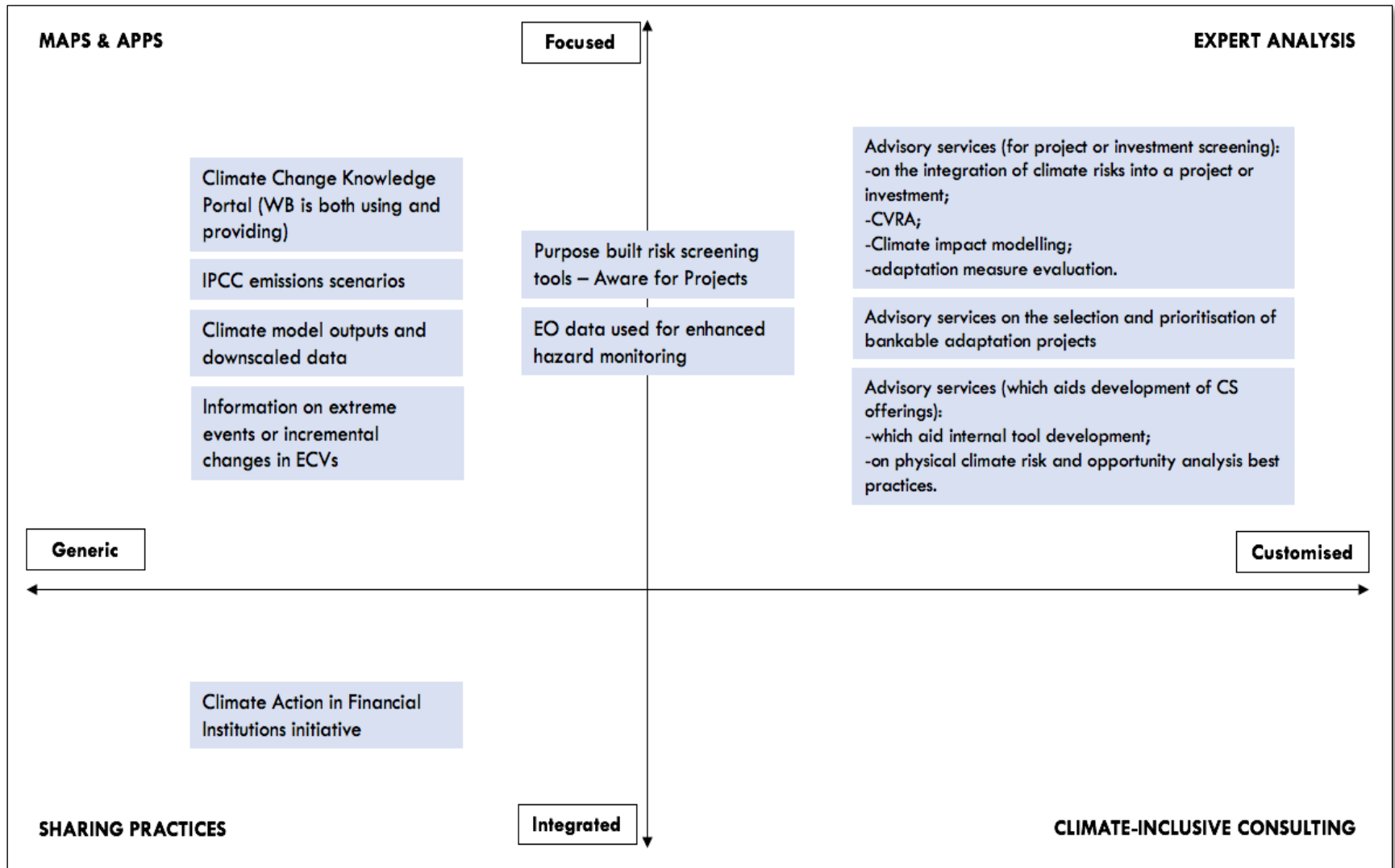
- Climate data and information is integrated into other processes or services;
- Tailored to specific decisions and decision-makers and contexts;
- Advisory or engineering firms;
- Chargeable.

## SHARING PRACTICES

Integrated

## CLIMATE-INCLUSIVE CONSULTING












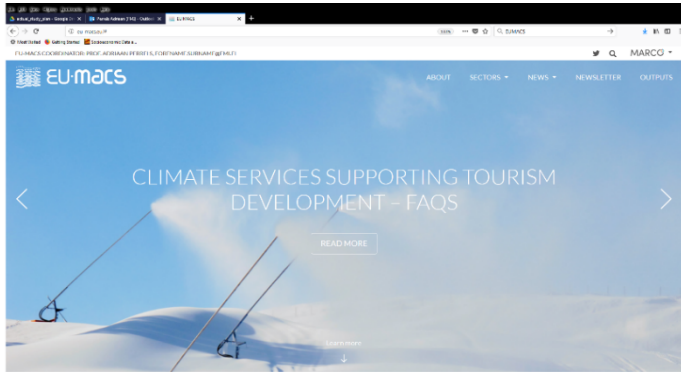


# Overview of other outputs

- Summary report (including CS matrix and more detail)
- Policy brief
- Interactive tools on website
- All available mid- late December 2018 at [eu-macs.eu/outputs/](http://eu-macs.eu/outputs/)



Participant	Type of organisation	Country
<b>FMI (coordinator)</b>  FMI	Met-services; climate & adaptation research;	Finland
<b>HZG-GERICS</b>  Helmholtz-Zentrum Geesthacht Zentrum für Material- und Küstenforschung	Climate services & research	Germany
<b>CNR-IRSA</b>  IRSA CNR	Hydrological research & consultancy, incl. adaptation	Italy
<b>Acclimatise</b>  ACCLIMATISE building climate resilience	Climate services provider	United Kingdom
<b>CMCC</b>  cmcc Centro Euro-Mediterraneo sui Cambiamenti Climatici	Climate research and services	Italy
<b>U_TUM</b>  unternehmertum Center for Innovation and Business Creation at TUM	Market start-up support for innovations	Germany
<b>U_Twente</b>  IGS INSTITUTE FOR INNOVATION AND GOVERNANCE STUDIES	Research in innovation mechanisms and policy	Netherlands
<b>JR</b>  JOANNEUM RESEARCH	Technical & social innovations for climate change issues	Austria
<b>ENoLL</b>  European Network of Living Labs	Promotion and support of Living Lab applications	Belgium



**Website:** <http://eu-macs.eu/#>

**Newsletter:** <http://eu-macs.eu/>



**In this issue**

Welcome  
by Peter Stegmaier

The stakeholder perspective:  
interview with Esko Kivisaari

Reports from recent events  
JPI Expert Workshop in Venice  
Climate Services at work in Brussels  
EU MACS Workshop in tourism in Graz

Upcoming activities and call for  
papers

Updates on project activities


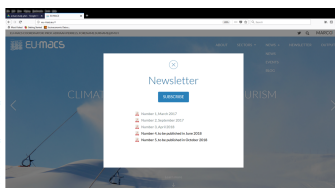
Recent publications

**Welcome**  
By Peter Stegmaier, University of Twente

Climate services  
are still a niche  
phenomenon. Ser-  
vice innovations  
tend not to be in-  
terly smooth in the  
beginning. There is  
still a lot of expec-  
tations, with  
user practices, bu-  
siness models, regu-  
latory  
structures, infrastructure and technology which  
makes it hard for them to compete on the market  
against established services or forms of 'strategic  
intelligence' (the latter we call 'incumbent regu-  
lators').

The specific market itself might even be not yet  
fully developed - or very small and already domi-  
nated by the few services that were able to es-  
tablish themselves in their niches. Newcomers will  
thus hardly gain a share, but rather have to find  
their own niches. Especially when innovations in-  
clude sustainability promises, market niches and  
user demands may not be ready yet, since the in-  
novations may differ radically from the prevailing.  
However, clever niche management will require  
to link niches at some point.

To explore climate services-related trends and  
processes that can have a potential to foster niche  
development, we carried out an explorative study  
(see next page) on the EU niche governance and  
procurement of innovation for climate services  
in global context, emerging (soft) standards, con-  
ventions, and ethical frameworks. We looked into  
neighbouring niche development (e.g. ecosystem  
services, climate engineering, platform capital-  
ism with FinTech and InsurTech), late relevant  
technological innovations (e.g. block chain, online  
information brokerage, internet of things, citizen  
science).


**TWITTER:** <http://eu-macs.eu/#>

## Publications:

- <http://eu-macs.eu/outputs/#>
- Climate Services – special issue with MARCO
- (spring 2019)
- Urban Climate – special issue (spring 2019)

## Further questions:

[adriaan.perrels@fmi.fi](mailto:adriaan.perrels@fmi.fi)

# Q&A session

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# CMCC - SISC WEBINAR

December 18, 2018 - h. 12.30 pm CET

## IPCC Special Report on impacts of global warming of 1.5°C: An overview of the main outcomes

**Marco Bindi** - Presenter  
*University of Florence*

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**Carlo Barbante** - Moderator  
*Italian Society for Climate Sciences (SISC),  
Istituto per la Dinamica  
dei Processi Ambientali (IDPA), CNR*

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Thank you for attending this CMCC webinar.

This webinar was recorded and will be uploaded on CMCC Youtube Channel: <https://www.youtube.com/CMCCvideo> and to the CMCC website: [www.cmcc.it](http://www.cmcc.it)

If you have any further question about the webinar, please email: [webinar@cmcc.it](mailto:webinar@cmcc.it)