

# CLIM-RUN



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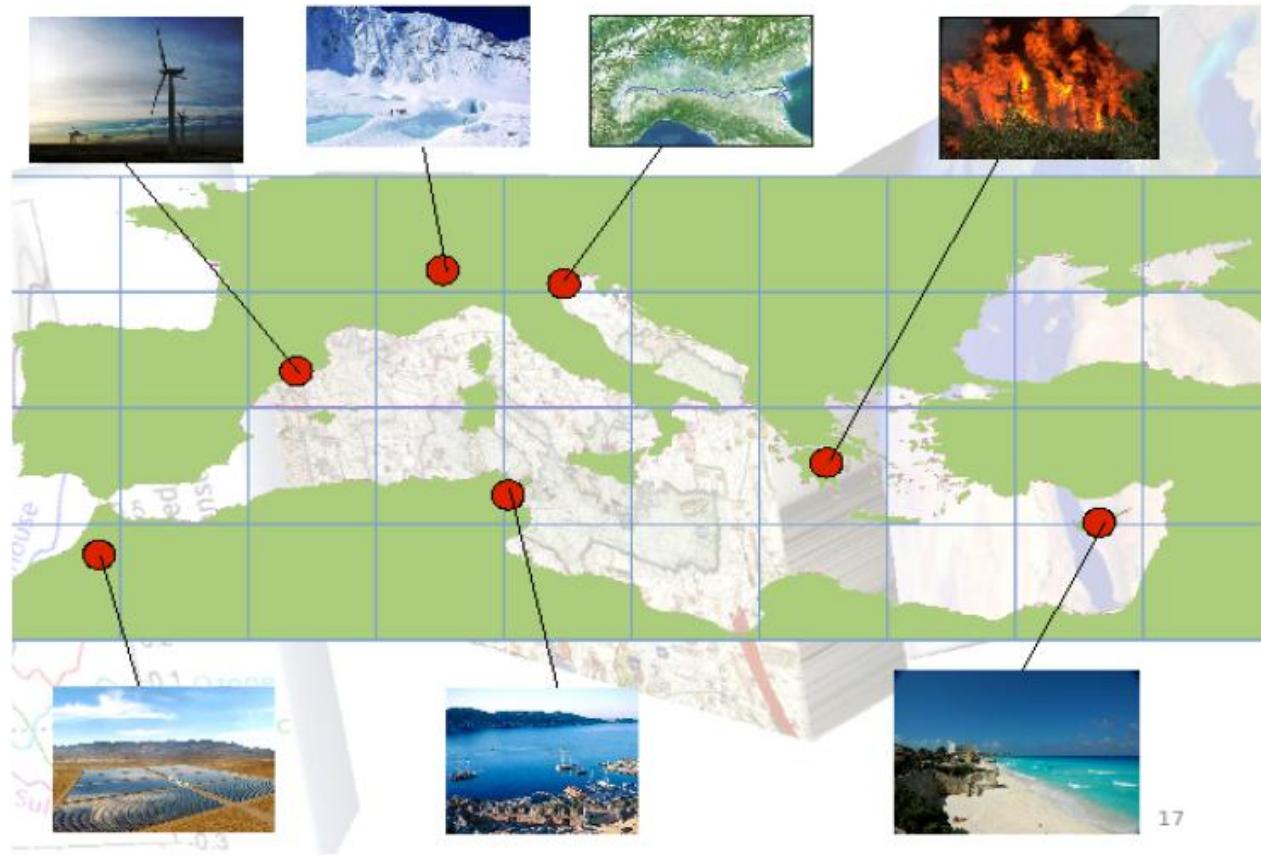


**Facilitating a stakeholder-led approach to the development of Mediterranean climate services: co-ordinating the CLIM-RUN case studies**

**Clare Goodess  
(Climatic Research Unit, UEA)  
and the CLIM-RUN Climate & Stakeholder Expert Teams)**

**<http://www.climrun.eu>**





17

**Tourism:** Tunisia, France (Savoie), Cyprus, Croatia - next talk

**Energy:** Spain, Morocco, Cyprus, Croatia

**Wild Fires:** Greece (Spain) – poster XY315

**Integrated Case Study:** North Adriatic – Veneto/Venice – poster XY316;  
Croatia

# CLIM-RUN Objectives



- How to identify user needs? (WP4, WP5-8)
- How to initiate and maintain/develop stakeholder involvement? (WP1, WP4, WP5-8)
- How to prepare modeling tools and observational data and products? (WP2, WP3)
- How to develop a Climate User Interface prototype? (WP1)
- How to develop a more generic protocol? (WP1)
- How to develop Climate Services training? (WP9)

Seasonal forecasts, through decadal prediction, to climate projections

# Key CLIM-RUN stages

- Stage setting (complete)
  - first stakeholder workshops
- Mapping the issues (complete)
  - perception and data needs questionnaires
- Iterative consultation and collaboration (ongoing)
  - including two training workshops (Oct 2012/Aug 2013)
- Consolidation and collective review/assessment
  - second stakeholder workshops (February 2013)
- Going forward: synthesis and recommendations
  - final workshop and end of project (February 2014)

# Identifying and selecting stakeholders

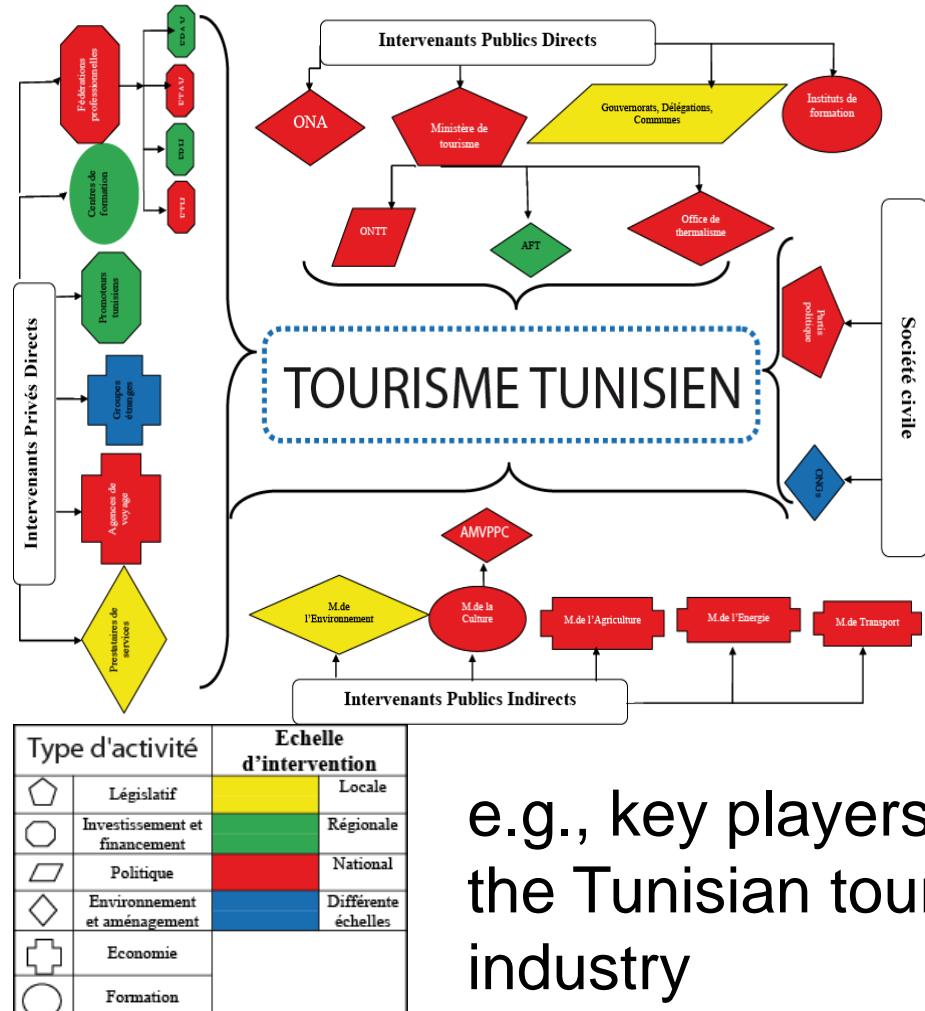


e.g., Venice case study used ranking (from WP1) based on:

- importance
- influence
- effects
- relevance
- attitude



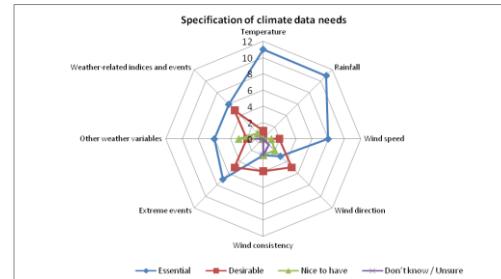
Level	Veneto	Friuli Venezia Giulia
National	Civil Protection, regional office	Civil Protection, regional office
Inter-regional	<ul style="list-style-type: none"> <li>Autorità di bacino delle Alpi Orientali</li> <li>Autorità di bacino dell'Alto Adriatico</li> <li>Autorità di bacino del Po</li> </ul>	
Regional	<ul style="list-style-type: none"> <li>ARPAV</li> <li>Segreteria regionale per l'ambiente</li> <li>Segreteria regionale per le infrastrutture e l'urbanistica</li> <li>Genio Civile (Regione Veneto)</li> <li>Segreteria regionale per la cultura e turismo</li> <li>Pesca ed acquacoltura</li> <li>Servizio idrico integrato: ATO</li> <li>Industria</li> <li>Energia</li> </ul>	<ul style="list-style-type: none"> <li>ARPA FVG</li> <li>Sviluppo sostenibile</li> <li>Urbanistica e pianificazione territoriale (incluso infrastrutture)</li> <li>Aree naturali e biodiversità</li> <li>Ente tutela pesca</li> <li>Servizio idrico integrato</li> <li>Industria</li> <li>Energia</li> <li>Turismo</li> </ul>
Independent Authorities	<ul style="list-style-type: none"> <li>Port Authority of Venice</li> <li>ASPO Chioggia</li> <li>Magistrato delle acque di Venezia</li> <li>Consorzio di Bonifica Adige Po</li> <li>Consorzio di Bonifica Delta Po Adige</li> <li>Consorzio di Bonifica Adige Euganeo</li> <li>Consorzio di Bonifica Bacchiglione</li> <li>Consorzio di Bonifica Acque Risorgive</li> <li>Consorzio di Bonifica Piave</li> <li>Consorzio di Bonifica Veneto Orientale</li> </ul>	<ul style="list-style-type: none"> <li>Port Authority of Trieste</li> <li>ASPO Monfalcone</li> <li>Consorzio di Bonifica Bassa Friulana</li> <li>Consorzio di Bonifica Cellina Meduna</li> <li>Consorzio di Bonifica Ledra Tagliamento</li> <li>Consorzio di Bonifica Pianura Isonzina</li> </ul>
Parks and reserves	<ul style="list-style-type: none"> <li>Parco Regionale Veneto del Delta del Po</li> <li>Riserva Naturale Bocche di Po</li> <li>Riserva Naturale Integrale Bosco Nordio</li> </ul>	<ul style="list-style-type: none"> <li>Area Marina Protetta di Miramare</li> <li>Riserva Naturale della Foce dell'Isonzo</li> <li>Riserva Naturale Foci dello Stello</li> <li>Riserva Naturale della Valle Cavanata</li> <li>Riserva Naturale delle Falesie di Duino</li> <li>Riserva Naturale regionale laghi di Doberdò e Pietrarossa</li> <li>Riserva Naturale della Val Rosandra</li> <li>Biotope Magredi di San Canciano</li> </ul>
Provinces	<ul style="list-style-type: none"> <li>Venezia</li> <li>Rovigo</li> </ul>	<ul style="list-style-type: none"> <li>Trieste</li> <li>Gorizia</li> <li>Udine</li> </ul>
Municipalities	<ul style="list-style-type: none"> <li>San Michele al Tagliamento</li> <li>Caorle, Eraclea</li> <li>Jesolo</li> <li>Cavallino-Treporti</li> <li>Venezia</li> <li>Chioggia</li> <li>Rosolina</li> <li>Porto Viro</li> <li>Porto Tolle</li> </ul>	<ul style="list-style-type: none"> <li>Muggia</li> <li>Trieste</li> <li>Duino Aurisina</li> <li>Monfalcone</li> <li>Staranzano</li> <li>Grado</li> <li>Marano Lagunare</li> <li>Lignano Sabbiadoro</li> </ul>



e.g., key players in the Tunisian tourism industry

# The ‘who’ and the ‘what’

- Who are the climate services stakeholders?
  - Why is climate variability and change relevant to them?
  - How do climate issues fit within their decision making mechanisms and their perception of risk?
- What do they need/want from climate services?
  - Specific data
  - Analysis tools
  - Guidance and training
  - Other things.....



**Information has come from:**

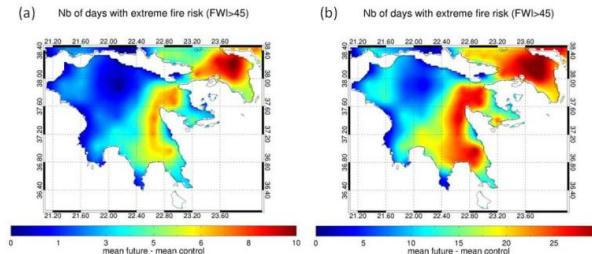
- Perception & data needs questionnaire
- Stakeholder interviews
- Local workshops (15 events)

## So ‘what’ do stakeholders need?

- Temp & prec and derived indices
- Wind (speed, dir., ‘consistency’) snow, humidity, cloud
- Radiation (esp. DNI for solar energy)
- Temp & prec extremes (based on fixed thresholds)
- Sea bathing water T, SLR, storm surge, wave height
- Local winds (Bora, Scirocco) and dust storms
- Tourism comfort indices & Fire Weather Index
- More interest in next 20-30 years (50 years at most)
- i.e., seasonal/decadal rather than ‘climate’

# How to meet stakeholder needs?

- ‘Translation’ process – Climate Expert Team (CET)
- Categorising needs (observations/simulations):
  - not possible to provide
  - already available
  - easy to provide
  - able to provide, but with a lot of work
- Production of first examples of products and outputs
- Definition of new modelling tools required
- Iterative discussion with stakeholders (through SET)



# Moving forward: some issues to think about



## Questionnaire design:

- flexibility vs consistency; level of detail

## Stakeholder engagement:

- difficulties and differences in this and expertise/motivation
- demonstrating the value of climate services
- differences between ‘useful’, ‘usable’ and ‘being used’

## The next steps

- Continue to translate and implement user needs
- Use a range of methods and approaches (e.g., newsletters, briefing notes and other web-based material) to facilitate continuing stakeholder engagement
- Try to improve participation in areas where engagement is weak

Aris Bonanos, Philip Bourdeau, Čedo Branković, Adriana Bruggeman, Sandro Calmanti, Adeline Cauchy, Jean Chapoutot, Katarina Charalambous, Melanie Davis, Paco Doblas-Reyes, Clotilde Dubois, Christos Giannakopoulos, Valentina Giannini, Filippo Giorgi, Silvio Gualdi, Panos Hadjinicolaou, Maria Hatzaki, Latifa Henia, Manfred Lange, Robert Pasicko, Anagyrous Roussos, Paolo Ruti, Peter Schmidt, Samuel Somot

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