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TRANSVALOR

S1: « Generation of Local Atlases for Decision-Support in Solar Energy  
Policy Planning and Private Investment »

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# ENDORSE

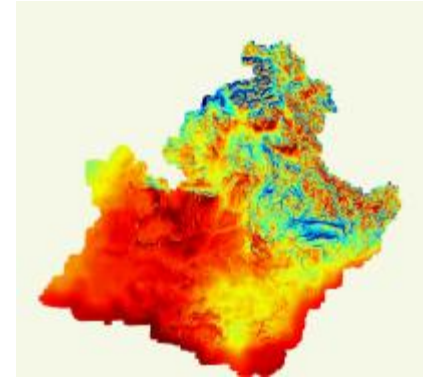


# Outline of the presentation of S<sub>1</sub>

- Definitions – Products
- Objectives of S<sub>1</sub>
- Users' needs
- State of the art
- Innovations
- Market
- Dissemination
- Measures of success

# Definitions – Product

- Atlas
  - A suite of georeferenced maps,
  - relative to solar energy,
  - recent, known quality, easily accessible
  - serving as a reference tool for local policies on energy and investor attraction
- Local: focus on a specific area, full exploitation of the information and resources of the site under interest



# Objectives of S1

- Generate local atlases, with different time steps
- Offering / combining a large panel of parameter maps:
  - Solar irradiation
  - Temperature
  - Height
  - Administrative / land-use
  - ...

*Users' requirements*

# Users' needs

- Need for better knowledge of **regional** potential of solar energy
- Need **cross-information** (administrative, land...) for decision-making purposes
- Need **recent** and **updated** data
- Need to know the **uncertainty** - quality of the data and assessment reports resulting from these data

# State of the art

- A few atlases, at national scale:
  - Australia,
  - USA,
  - Europe (scale 1/3 000 000)...
- Atlas content: solar irradiance
- Static: do not evolve anymore
- One-shot development => not replicable

# Innovations

- A higher spatial resolution suitable for local decisions
- Combination of irradiance and different other relevant parameters
- “One click gets all”
- Able to evolve with time
- Tools for the atlas validated by the community
- Easy replicability of the tools and methodology

# Market

- In Europe
  - Local agencies in charge of energy policy, local development, or business development
  - Investors,
  - Banks,
  - Energy and Consulting companies
- Can be extended to outside Europe depending on the availability of the input data.



# Dissemination

- Through the Web, Web service in SoDa (GEOSS and W<sub>3</sub>C-compliant )

# Measures of success

- Access to input data (irradiation, temperature)
- Successful implementation of Users' requirements
- Successful implementation of Users' recommendations after assessment (WP5)
- Availability of product (WP401)
- Availability of service (WP601)
- Demonstration of benefits by prime-users
- Replicability