



ENDORSE

ENDORSE (ENergy DOWnstReam SErvices) - Providing energy components for GMES

WPs 2 and 5: Users' Requirements and Assessment

WP7: Workshops

WP8: Towards the Market

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The concept: a user centred project

- Develop and validate pre-market downstream services in collaboration with well-defined end users
- Assess the conditions of self-sustainability with end-users
- To disseminate the achievements to foster the use by the renewable energy community
- To stimulate the market of downstream services



Type of Users

- **End users:** public authorities, local agencies, engineering bureaus, energy producers, investors, plant investors, maintenance services, electricity grid managers
- **Service industry:** potential providers of similar downstream services, associations of companies in energy business
- **Scientific community:** at large, particularly in environmental modelling



The End Users

- **Prime users:** interacting for product and service development
- **Extended panel:** provide feedback on services, involved in demonstration and assessment of sustainability
- **Existing service providers:** assess improvement introduced by the GMES core services

Core services and Prime Users

| Service code and short title | Prime-users and test area |
|---|--|
| S1: "Local Atlas Generation" | General Council of the Alpes-Maritimes Department ADEME PACA Cluster Capenergies Total SA, Test area: Provence, France |
| S2: "Design CSPS" S3: "Irradiance forecasts" | Enel Green Power SpA Test area: Sicily, Italy; North Africa Solar Millennium AG Test area: Andalusia, Spain; Baden-Württemberg, Germany |
| S4: "TMY" | Total SA Test area: Provence, France |
| S5: "CSP-GIS" | Kernenergien Test area: Morocco |
| W1: "Wind AEO" | SPE Luminus Test area: to be defined on an <i>ad hoc</i> basis, e.g., Flanders |
| E1: "Load Balancing" | SWU Netz GmbH, SWU Energie GmbH Test area: Ulm area, Germany |
| B1 "Mapping biomass potential" | Landesforstanstalt Eberswalde Test area: Brandenburg, Germany |
| B2 "Certification of sustainable bioenergy use" | Deutsche BiomasseForschungsZentrum Test regions in Europe |
| D1 "Lighting energy savings" | ESTIA SA Test area: Nantes, France |



Warning!

- Products and services shall serve a number of users **LARGER** than the prime users!
- Since the beginning, products and services aim at the **MARKET** and **NOT ONLY** at prime users!



Challenges

- It's not just 10 different services running under the same umbrella: we must harmonise approach
- We need replicability of services



WP2: Refinement and consolidation of users requirements - Months 1-19

- Enhancing and fully exploiting the liaison with the prime-users community for the identification and development of the ENDORSE products and services
- WP 2 is organised in two distinct and subsequent activities: Task 2001 deals with requirements about products and Task 2002 deals with requirements about pre-market services



Task 2001 Users' requirements for products- Months 1 to 3

Objectives

- to consolidate and fine tune the users' requirements from the prime-users
- to define the requested products and or enhancements - improvements in detail
- to provide inputs for product development (WP 4)
- to establish the user benchmark for validating products (WP 5, Task 5001)

Task 2001:activities



To develop the service in close cooperation with dedicated prime user(s), representative of a large number of users in other European regions

- information gathering about the users, the relevant products from GMES Core Services and other providers, and the context, documenting all factors that may affect the usability of the product
- users' requirements consolidation and fine tuning
- requirements specifications and product envisioning
- measurable benchmarks and terms of acceptance of the product features and quality of content by the stakeholders



Approach and methodology

- **Who:** iCons, in cooperation with the partner responsible for the developing of the various services
- **How:** flexible methodology to be adapted to the circumstances, e.g.: semi-structured interviews, for quick elicitation of ideas and concepts, or small focus groups to obtain a wide variety of user views and possibly a consensus
- **Output:** the set of user requirements will be presented in a document (D2.1) that will be the main input to WP 4 (month 3)



Task 2002 Users' requirements for services- Months 17 to 19

Objectives

- to fine tune and consolidate the existing user requirements to improve collaboration between users, researchers and experts a) to accelerate the development of pre-market services and b) to enhance existing operational services
- actually complete the previously developed products, by adding to them all the elements that make them operational (infrastructure, commercial, hw, interfaces)

This Task will involve prime-users and existing service providers.



Task 2002: activities

- The users will be also consulted about the market issues that may affect the acceptance of services
- This information will be further validated in WP 5
- Task 2002 will define and document the protocol to be used by the extended panel of users to test pre-market

Prime-users requirements for pre-market services and assessment protocol will be presented in D2.2 at month 19



Next steps

- iCons-partners responsible for product development: state of the art, fix bilateral meeting
- Development of a check list for information gathering (week 4)
- Collecting information (by week 8)
- Fine tuning (week 10)
- D2.1 (week 13)



WP5 Users' assessment – Months 13-29

- Assessment of products (M13-14) will be organised in small review groups with the supports of prototypes.
- Assessment of pre-market services (M28-29) will rely on the test of services, possibly in a remote way
- Collection of feedback will be organised through interviews aimed at collecting info and suggestions about the service and at verifying the market potential of the service



Next steps

- Consolidate list of users for the purpose of the extended panel

Goal: to identify a sample of 10 to 30 relevant potential users for each service to be contacted (first consolidated list by month 12)



WP7 Users' Workshops

- Thematic workshops with users for product and service demonstration
- Next steps: selection of events and workplan development



WP8 Towards the market (Months 21- 36)

- Objective: to provide guidance and recommendations to maximise the exploitation of the results of ENDORSE and integrate them in existing sectoral business practices.

This WP will deliver a market scenario (not a business plan) that will provide the framework conditions for delivering the service to the market