



Our previous newsletter introduced the scientific work packages of the UMBRELLA project. This newsletter at hand deals with the prototyping and demonstration work packages. Additionally, the results from the iTesla - UMBRELLA 2nd Common Workshop are briefly discussed and the upcoming events are announced.

Past and upcoming events

iTesla - UMBRELLA Second Common Workshop

On January 14 the 2nd Common iTesla - UMBRELLA Workshop was held in Brussels. This was a great opportunity for everyone to get acquainted with the most recent results of both projects and to strengthen collaboration channels.



iTesla - UMBRELLA 2nd Common Workshop



Prof. Weber at InnoGrid2020+

InnoGrid2020+

Several members of the UMBRELLA project attended the InnoGrid2020+ conference on March 25-26. Two posters with project highlights were on exhibit. Prof. Weber from University Duisburg-Essen presented the UMBRELLA project during the Project Presentation session.

PSCC 2014

The Power Systems Computation Conference will be held at August 18-22 in Wroclaw, Poland. Four papers have been submitted by different work packages for this conference:

- ▶ "Impact of correlated infeeds on risk-based power system security assessment"
- ▶ "Probabilistic Cascading Event Risk Management"
- ▶ "Risk-Constrained Optimal Power Flow with Probabilistic Guarantees"
- ▶ "Forecast of vertical reactive loads considering the influence of renewable energy sources using artificial neural networks"

Event invitations

29th of August 2014:

CIGRÉ Session 2014, Paris, exhibition booth #123 diagonally opposed to the entrance of SC C2 poster session at hall PASSY on the first floor of Palais de Congrès.

23rd of October 2014:

UMBRELLA Workshop on System State Modelling and Toolbox Design, Brussels, ENTSO-E premises.

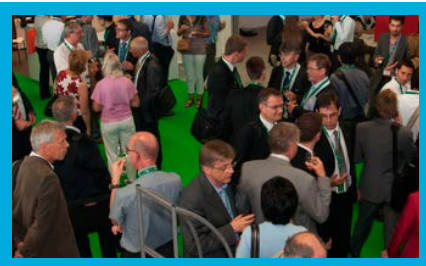
This workshop will address the results acquired from an internal workshop to be held in Ljubljana (September 29-30). The three scientific work packages introduced in Newsletter 2013/1 will present the developed methods and their results. The prototyping and demonstration work packages then will explain how these capabilities can be implemented for testing and demonstration.

For more information and registration please visit:

<https://www.entsoe.eu/news-events/events/Pages/Events/UMBRELLA-Workshop-on-System-State-Modelling-and-Toolbox-Design.aspx?EventWorkshopId=158>

UMBRELLA project main objectives:

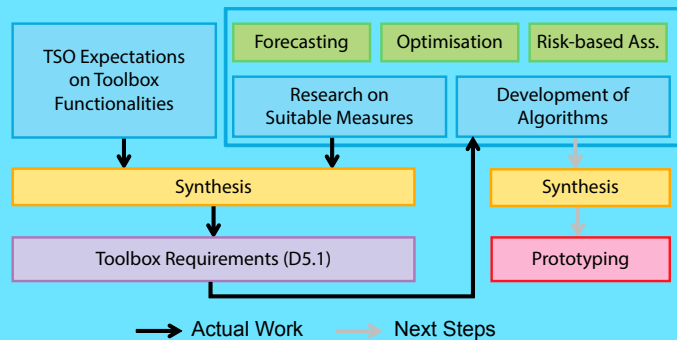
- ▶ Develop an innovative toolbox to support the decentralised grid security approach of TSOs.
- ▶ Demonstrate the enhancement of existing and running procedures by utilisation of the developed toolbox.
- ▶ Provide a scientifically sound basis to support common TSO decisions.



CIGRÉ 2014 Paris Conference

During the 29th of August 2014 the UMBRELLA project will be present in the Exhibition that accompanies the CIGRÉ Session 2014 in Paris. The UMBRELLA booth #123 will be located opposite to the entrance to SC C2 Poster session. Several members will be present to discuss the most recent results with you.

WP5: Synthesis and Prototyping



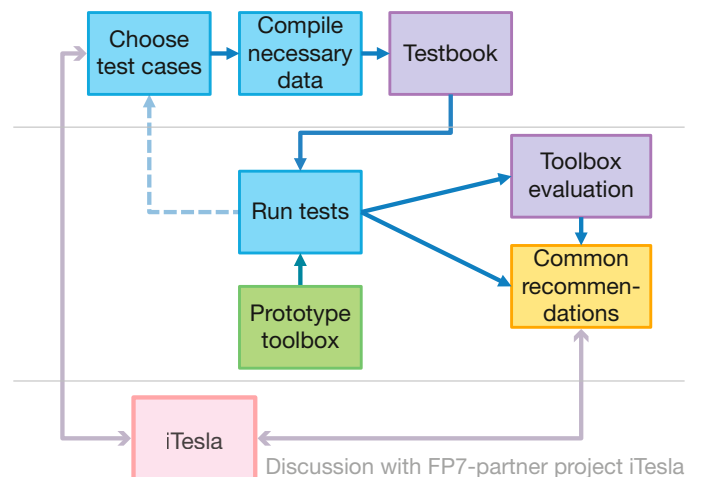
This work package focuses on making a distinction between functional and data requirements, data provision and exchange between functionalities as provided by the scientific work packages and the specification of data characteristics. The different functionalities of the toolbox require specific input data, which makes data provision and exchange a major challenge. To make sure this will become a success, intensive communication and meetings with the scientific work packages have been set up. Research is still in progress regarding the specifications of the data characteristics (format, granularity etc.).

Responsible partner: 

WP6: Demonstration and testing

In this work package, the functionality of the developed toolbox is demonstrated and tested regarding TSO operating principles. To do this, the toolbox will be employed on appropriate historic test cases. This work package is still in an early stage and further European harmonization is required, especially regarding data definitions, data formats and data handling.

Responsible partner: 



Several deliverables of the UMBRELLA Project can be found at:
<http://www.e-umbrella.eu/documents>

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