



MIGRATE @ IRED Side Event Workshop

Vienna, Austria Oct. 2018



FACTS

Acronym: MIGRATE

Massive InteGRATion of power Electronic devices

- Framework Conditions:

+ Duration of Project: 48 month (Project Start on 1st January 2016)

+ Budget: 17.9 mio. € for the consortium (16.8 mio. € Horizon 2020

founded)





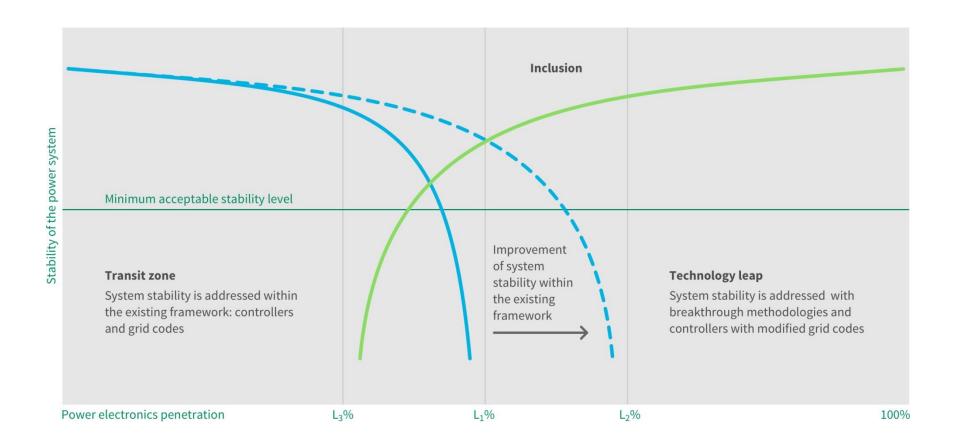
OBJECTIVE

The objective of MIGRATE is:

To develop and validate innovative, technology-based solutions in view of managing the pan-European electricity system experiencing a proliferation of Power Electronics (PE) devices involved in connecting generation and consumption sites.



OVERARCHING GOAL





EXPECTED IMPACT

Support to facilitate a low carbon energy system by

- + Maximisation of the amount of Renewable Energy Sources installed in the system while keeping the system stable.
- + Anticipation of future potential problems and challenges.
- + Clarification of the need of new control/protection schemes and possibly new connection rules to the grid

MIGRATE will provide requirements for future measures, methods and tools for a secure operation of the upcoming converter dominated power system.

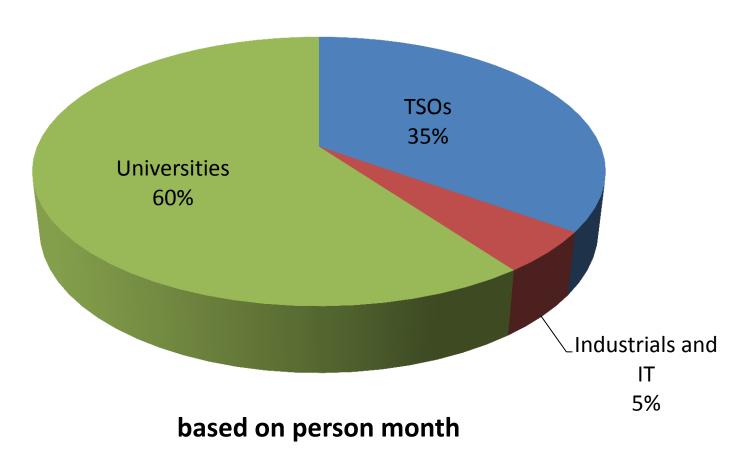


THE CONSORTIUM



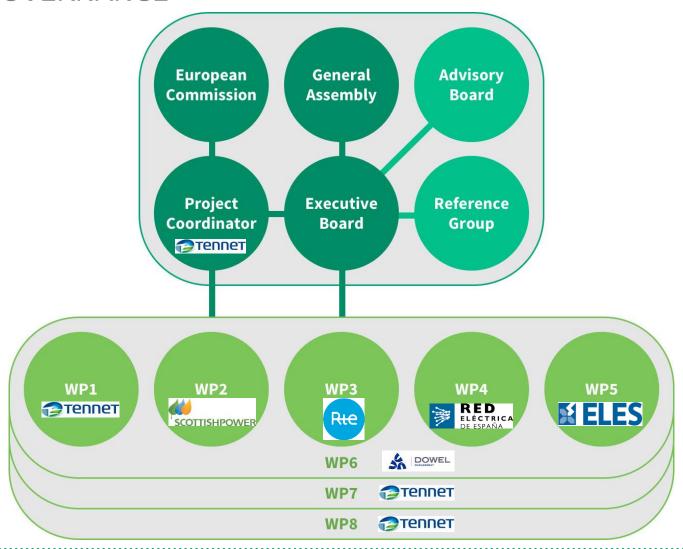


WORKLOAD PER TYPE OF PARTNER

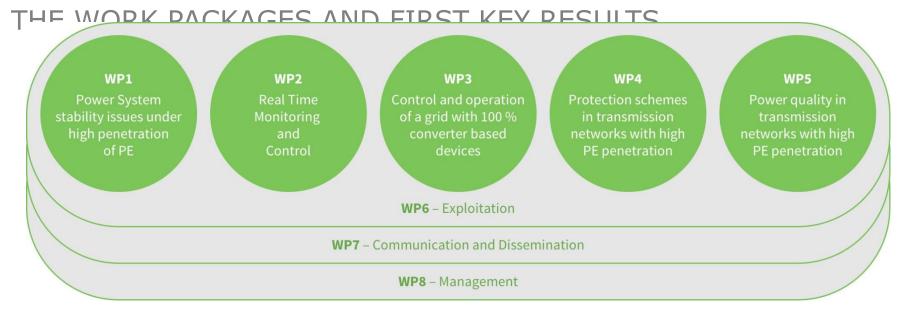




THE GOVERNANCE



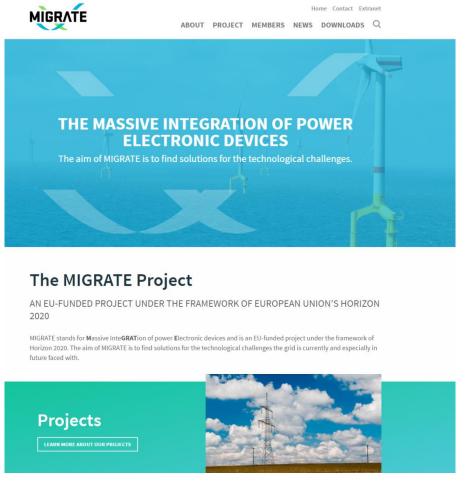




- WP1: Development of key performance indicators (KPIs) to estimate the distance to instability A forecasting tool for PE penetration was developed
- WP2: has demonstrated through a series of pilot tests that inertia can no longer be considered to act as a single centre of inertia, but should rather be considered as several interconnected clusters of inertia.
- WP3: Development of 3 different grid forming controls.
- WP4: Distance Protection is the most affected protection function when high penetration of PE
- WP5: PQ disturbance analysis on the Irish grid (roughly 60%PE)



WWW.H2020-MIGRATE.EU



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Thank you for your attention!

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