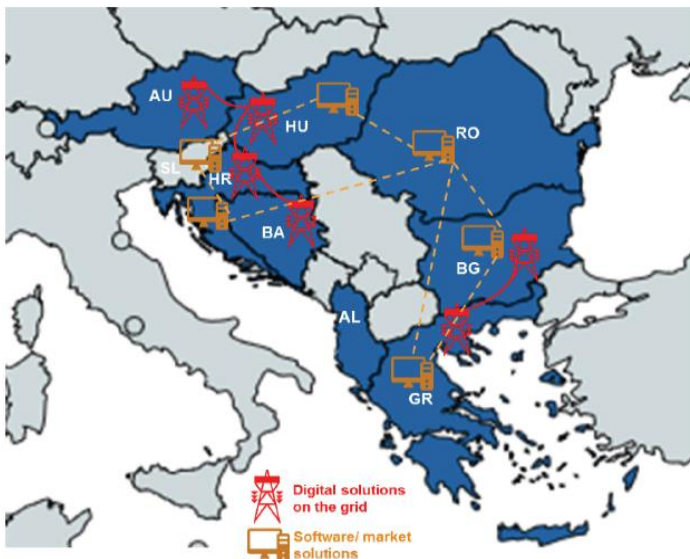


## About FARCROSS

The project will **propose state-of-the-art digital technologies into the power system**, in order to enhance and optimize the coordinated effort between TSOs and between TSOs-energy producers and establish a **next generation electricity market** which will operate on a regional basis and will **benefit from disperse assets and increased presence of RES**, thus creating incomparable economic benefits to the stakeholders of the chain.



## Consortium



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## FARCROSS

**FA**ilitating **R**egional **C**Ross-border Electricity **T**ransmission through Innovation

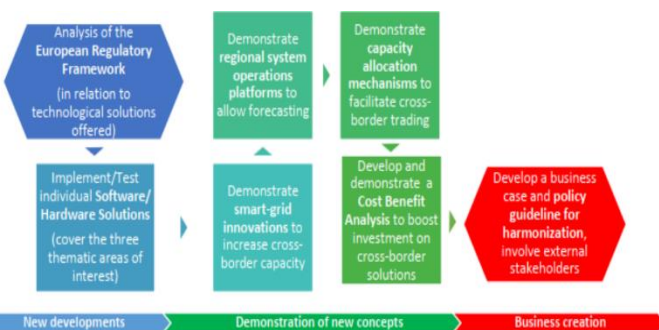
**FARCROSS** project will

- ✓ Connect major stakeholders of the energy value chain around Europe
- ✓ Demonstrate integrated hardware and software solutions
- ✓ Facilitate the “unlocking” of the resources for the cross-border electricity flows and regional cooperation
- ✓ Enhance the exploitation/ capacity/ efficiency of transmission grid assets



## FARCROSS Methodology


- Deep analysis of **the regulatory frameworks**
- Implementation of innovative **hardware and software tools**
- Development and demonstration of **forecasting engines**
- Development and demonstration of **smart grid applications**
- Development and demonstration of **innovative cross-border mechanisms**
- Development and demonstration of **cost benefit analysis tools**
- Development of new **guidelines for efficient harmonization**



## FARCROSS Demos


**Five demos in eight different countries** which will apply hardware and software tools to provide cross-border engagement, better harmonisation, flexibility solutions, forecasting services and further RES penetration.

 Demo A.1, **Unlocking Cross-Border Capacity** with Modular Power Flow Control Solutions (MPFC DEMO)

 Demo A.2, **Complex grid management technology** for handling cross-border transmission line capacity-related issues (DLR-H DEMO)

 Demo A.3, **Implementation of a Wide-Area Protection, Automation and Control system** (WAMPAC) applied to Cross-Border Transmission Systems (WAMS DEMO)

 Demo B, **Pan-European deep modelling framework** for improved system operation planning/forecasting and analysis on the inter TSO level (EUROPAN DEMO)

 Demo C, **Co-optimized cross-border capacity** auction algorithm (OPTIM-CAP DEMO)

## FARCROSS Impact

Increasing competition in the European Energy Markets

Supporting the Clean Energy Package ambitions

Enhancing regional cooperation in transmission grid

Creating Impact beyond the project lifecycle

Improving system security in the renewable energy context