



ETIP SNET

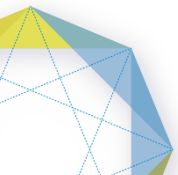
European Technology and Innovation Platform
Smart Networks for Energy Transition

12th ETIP SNET Regional Workshop
Parallel Session 1
Market based Energy Systems



Market based Energy Systems

WELCOME AND INTRODUCTION	<ul style="list-style-type: none">- Aris Dimeas – ICCS- Antonio Iliceto – ENTSO-E
99 SECOND PITCH	<ul style="list-style-type: none">- Álvaro Nofuentes – ETRA (TRINITY project)- Ilias Lamprinos – Intracom Telecom (FEVER project)- Aleksandra Krkoleva – FEEIT Skopje (CROSSBOW project)- Helena Gerard – VITO/EnergyVille (EU-SysFlex project)
PANEL DISCUSSION	<ul style="list-style-type: none">- Álvaro Nofuentes – ETRA (TRINITY project)- Ilias Lamprinos – Intracom Telecom (FEVER project)- Aleksandra Krkoleva – FEEIT Skopje (CROSSBOW project)- Helena Gerard – VITO/EnergyVille (EU-SysFlex project)



Welcome

Panellists

TRINITY - **Álvaro Nofuentes** - ETRA

FEVER - **Ilias Lamprinos** - Intracom Telecom

CROSSBOW - **Aleksandra Krkoleva** - FEEIT Skopje

EU-SysFlex - **Helena Gerard** - VITO/EnergyVille

Moderators

Aris Dimeas - ICCS

Antonio Iliceto - ENTSO-E

General organisation rules

- Switch off your microphone and Camera
- Only Panellists and Moderators will have Camera and Microsoft on

➤ Questions & Answer session

- Please write your questions in the chat on TEAMS



The entire workshop (including the parallel sessions)
will be recorded !

➤ accessing links

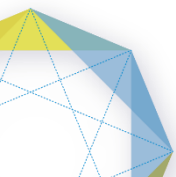
- They will be posted in the chat before each session change!

Join the conversation on Slido



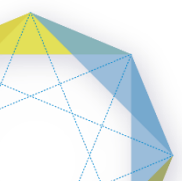
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**→ Parallel Session 1
'Market based Energy
Systems' at the top left**



Join the conversation on Slido

- *In which country is your company/organisation located? [No abbreviations, full country name in English]*
- *Which sector are you from?*
- *Please identify the main problems in European Energy Markets: e.g. liquidity , flexibility, interconnections, etc [one word]*



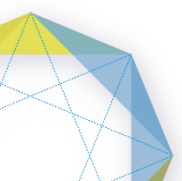
99-Second Pitches

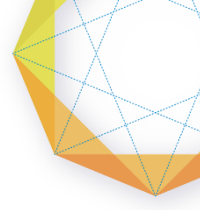
TRINITY - Alvaro Nofuentes - ETRA

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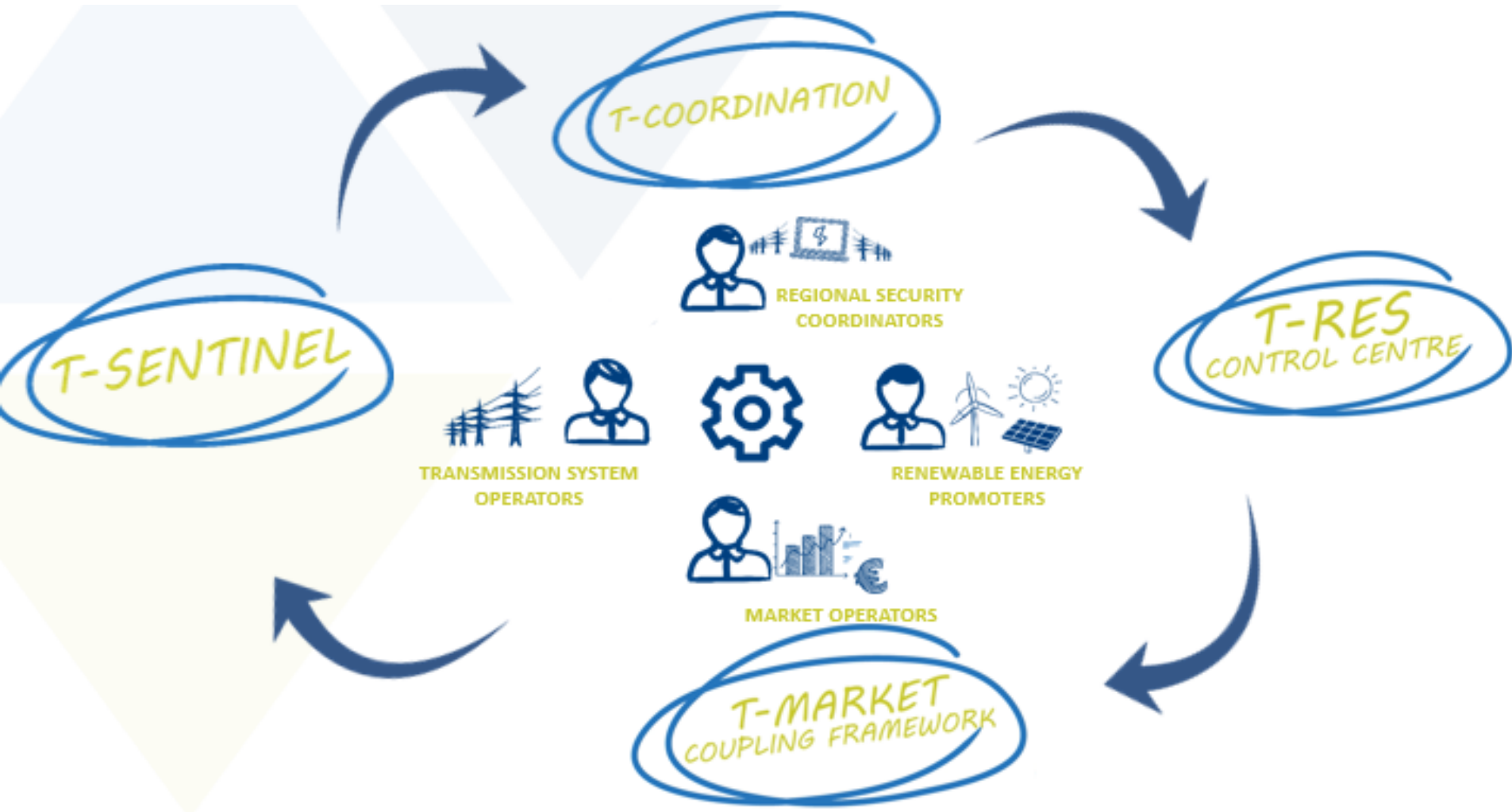
EU-SysFlex - Helena Gerard – VITO/EnergyVille

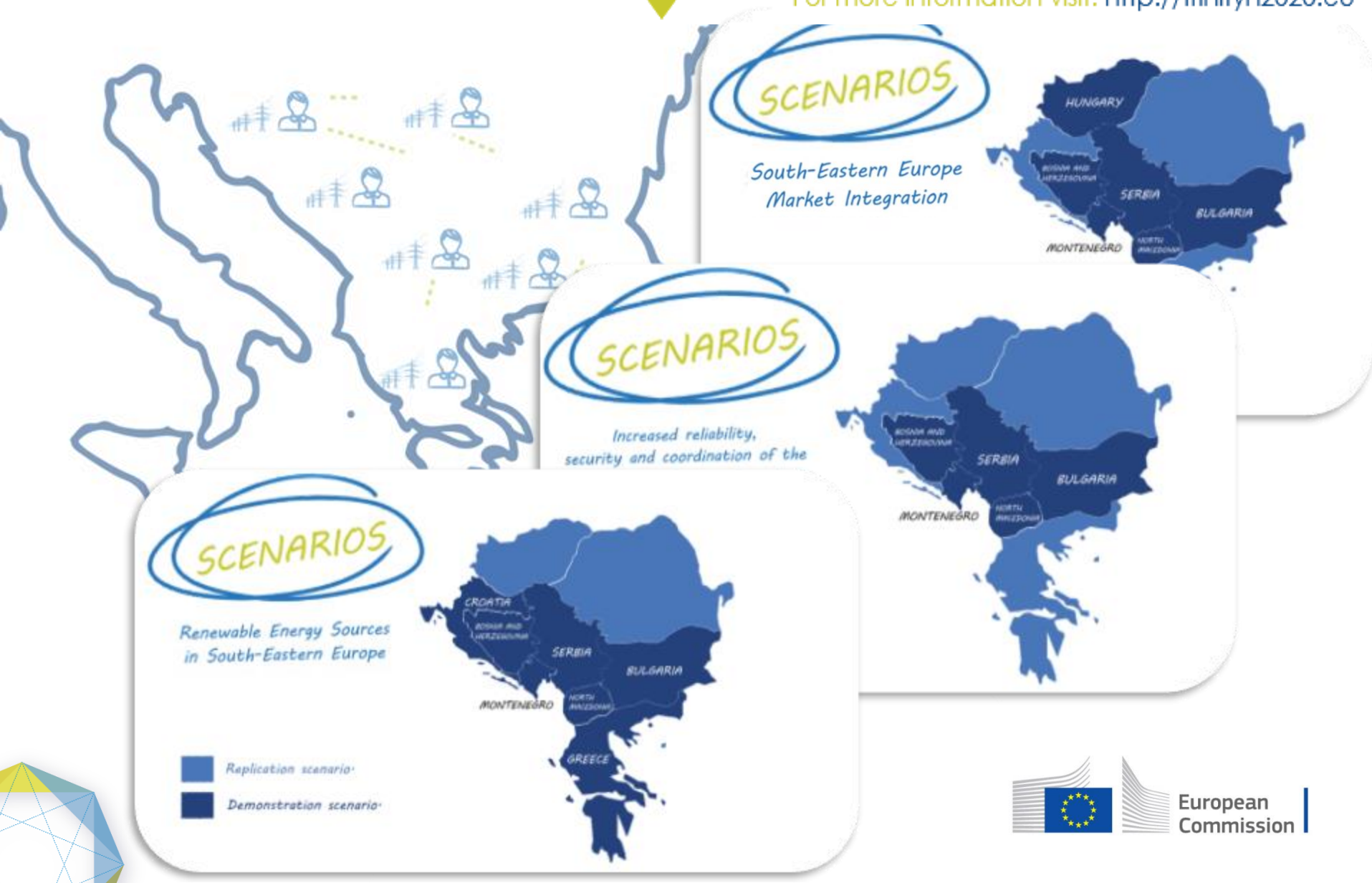


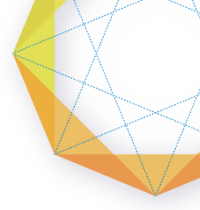


TRINITY

Alvaro Nofuentes - ETRA







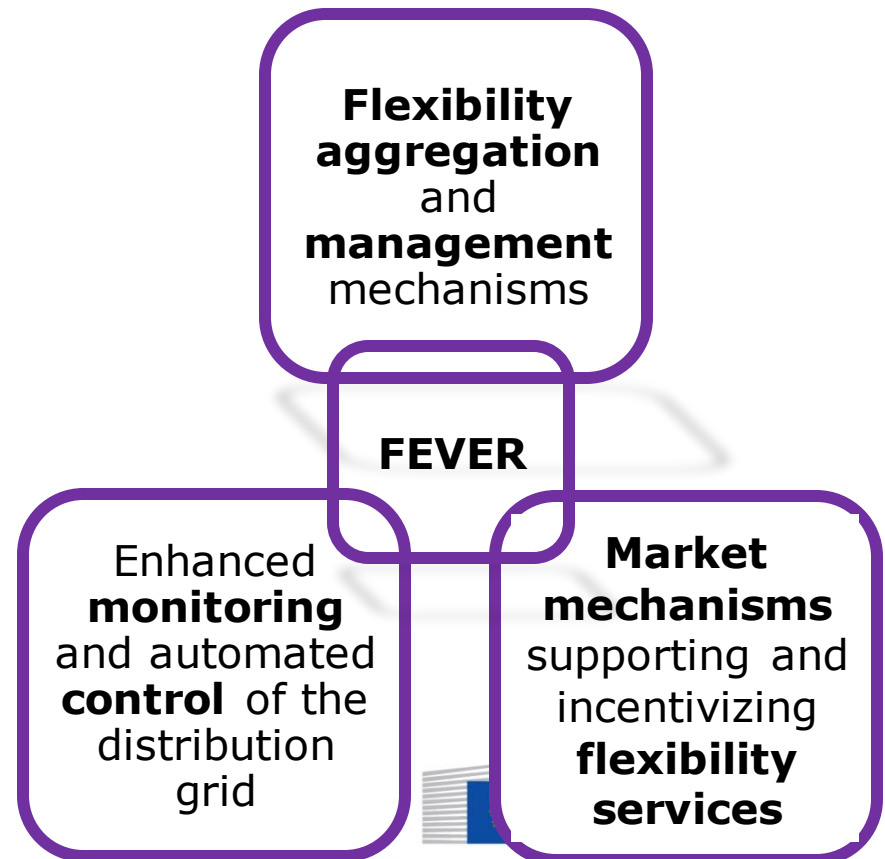
FEVER

Ilias Lamprinos - Intracom Telecom

FEVER ID and Scope

- ✓ Topic *“LC-SC3-ES-1-2019: Flexibility & retail market options for the distribution grid”*
- ✓ Budget *~10 M€*
- ✓ Project duration *42M*
- ✓ Start Date *01/02/20*
- ✓ Partners *17 (DSOs, Research Institutes, ICT solution providers, Universities, Utilities, Market Operator)*
- ✓ Countries *8*
- ✓ Demonstrators *3 + 1 Simulation*
- ✓ Coordinator *IntracomTelecom*

Design, develop and demonstrate almost market-ready flexibility-related solutions and services, aiming to increase security and resilience of the Distribution Grid, and operation under normal, critical and emergency conditions



Market-based energy system: The approach of FEVER

- ✓ Two-iterative optimization
- ✓ Multi-iterative optimization
- ✓ Trade cycles in continuous manner
- ✓ Flexibility in the form of reserve capacity or balancing energy

sim



Wholesale markets

Day ahead market

Intra-day market

Real-time market

- ✓ Vertically nested markets where different types of flexibility products are traded (energy; electricity regulation (up/down))

demo



Retail markets

P2P market

Local market

Regional market

Aggregator

BRP

DSO

P_n

P₂

P₁

Local
Energy
Community

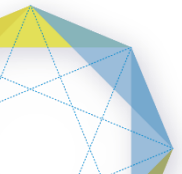
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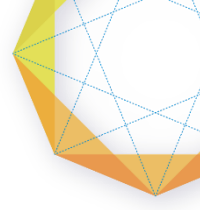
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European
Commission





CROSSBOW

Aleksandra Krkoleva - FEEIT Skopje



**CROSS BOrder management of variable renewable energies
and storage units enabling a transnational Wholesale
market**

Coordinator:

etra | +D

Participants:



CRE
Centrul Român al Energiei





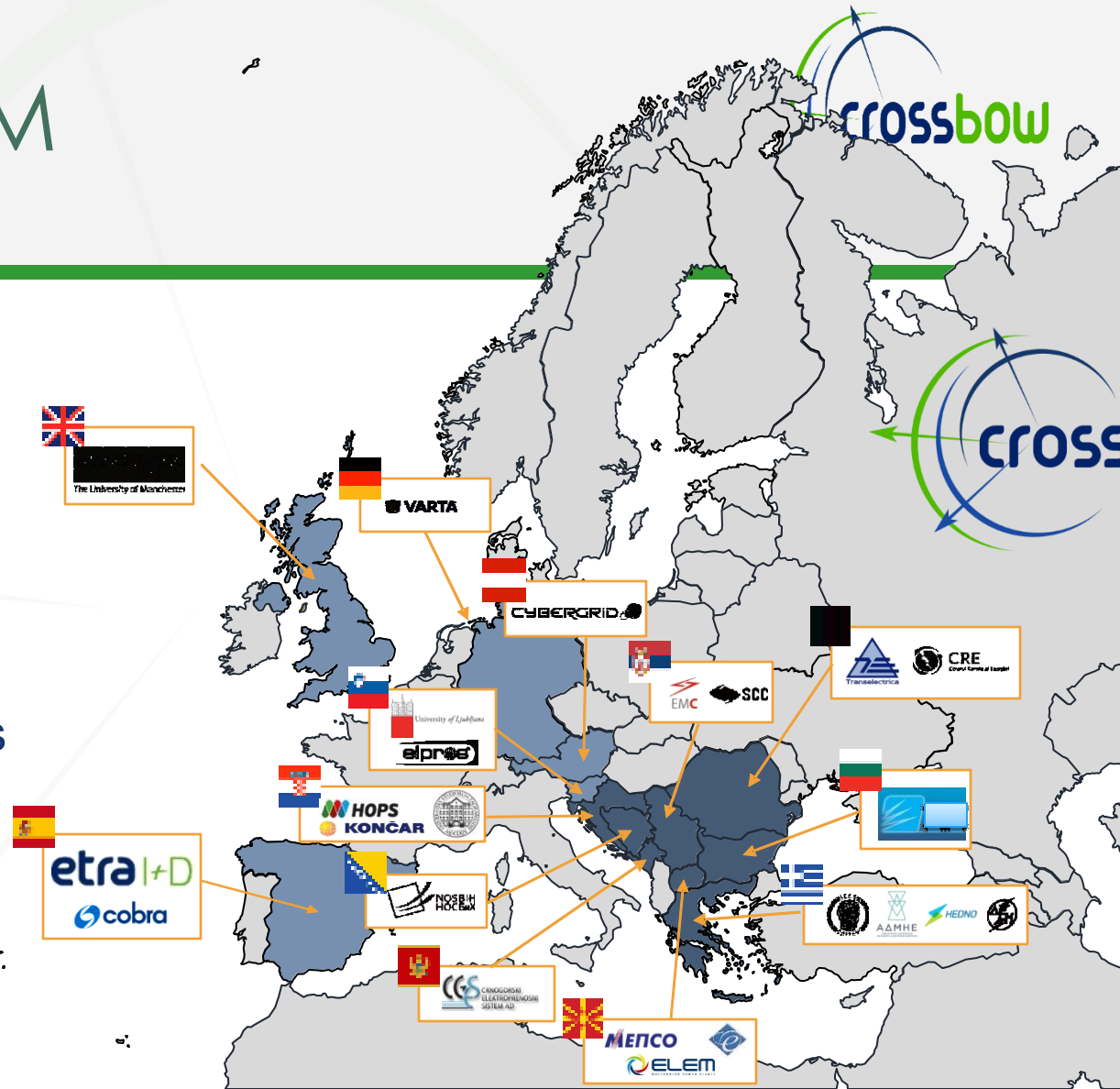
CROSS BOrder management of variable renewable energies
and storage units enabling a transnational Wholesale
market

PROJECT OVERVIEW

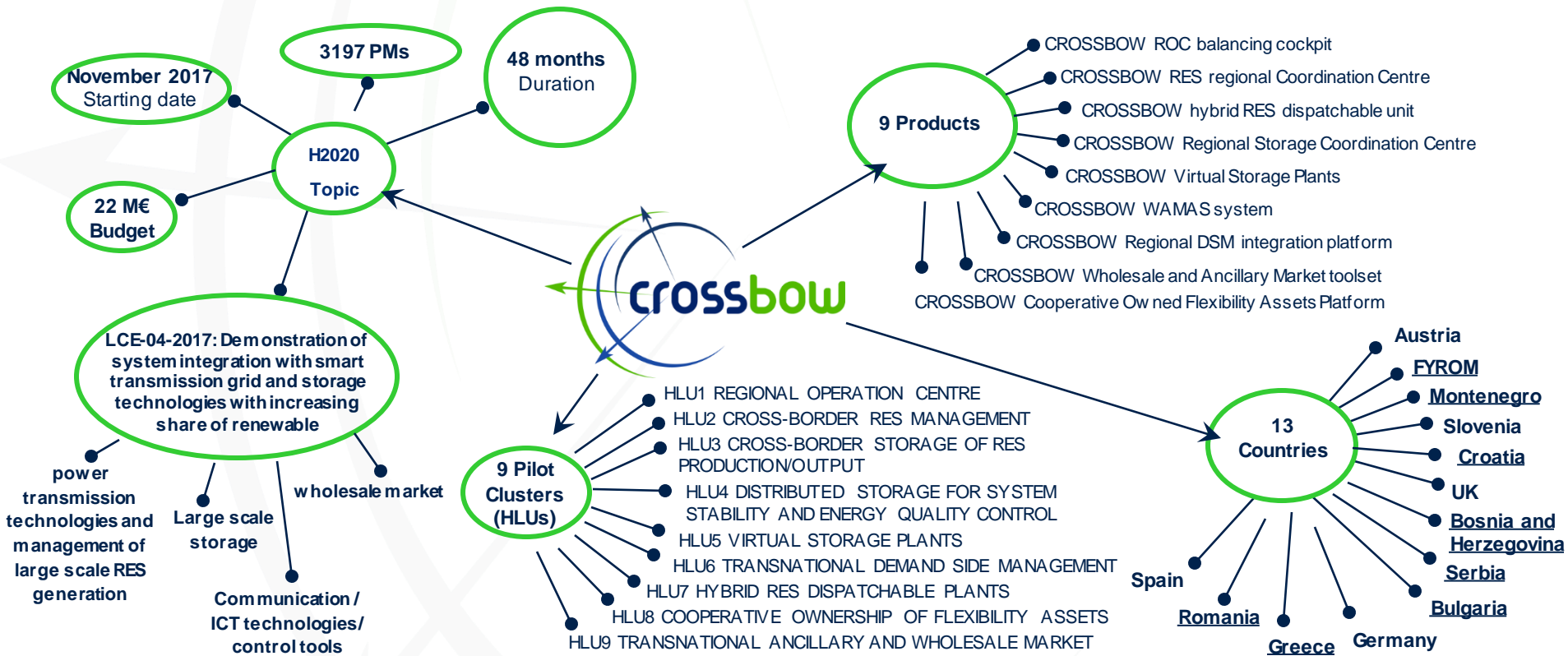
Introduction

CONSORTIUM

- 8 TSO
- 1 DSO
- 1 RSC
- 2 (+1) Large producers
- 5 (+1) Universities
- 6 Industrial partners
- 1 Industrial Association



PROJECT AT A GLANCE



STRATEGIC GOAL

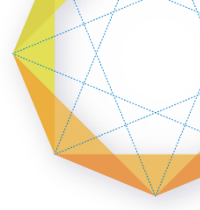


- CROSSBOW will propose the **shared use of resources** to foster cross-border management of variable **renewable** energies and **storage** units, enabling a higher penetration of clean energies whilst reducing network operational costs and improving economic benefits of RES and storage units.



Clean energy across Europe

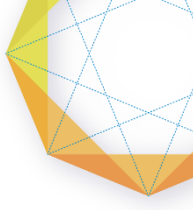
For more information visit: crossbowproject.eu



EU-SysFlex

Helena Gerard – VITO/EnergyVille

EU- SysFlex Project



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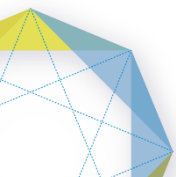


Do you think local energy markets are important?

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→ Parallel Session 1



Panel Discussion

Panellists

TRINITY project - **Álvaro Nofuentes** - ETRA

FEVER project - **Ilias Lamprinos** - Intracom Telecom

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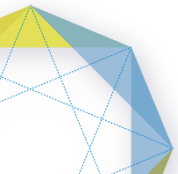
Moderators

Aris Dimeas - ICCS

Antonio Iliceto - ENTSO-E

Panel Questions

- *Have you designed a new market mechanism in your project?*
- *Have you developed tools for market participation? please provide some insights.*
- *What legal/regulatory barriers have you identified in your project?*
- *What else should be included in future research?*
- *How do you manage flexibility (DR, RES, etc) in the market environment? What kind of related market products have you developed?*
- *Have you developed innovative business models?*
- *Do you think that there is another important aspect for your project to be highlighted?*



Join the conversation on Slido



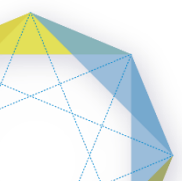
Please identify the main goal for European Energy Markets to be reached by 2030 [one word]

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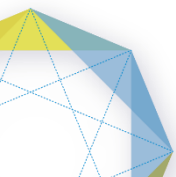
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Results from SLIDO



Q&A session





**Thank for your participation and
attention!**

**Please attend the
Plenary Session from 12:10-
13:00.**

