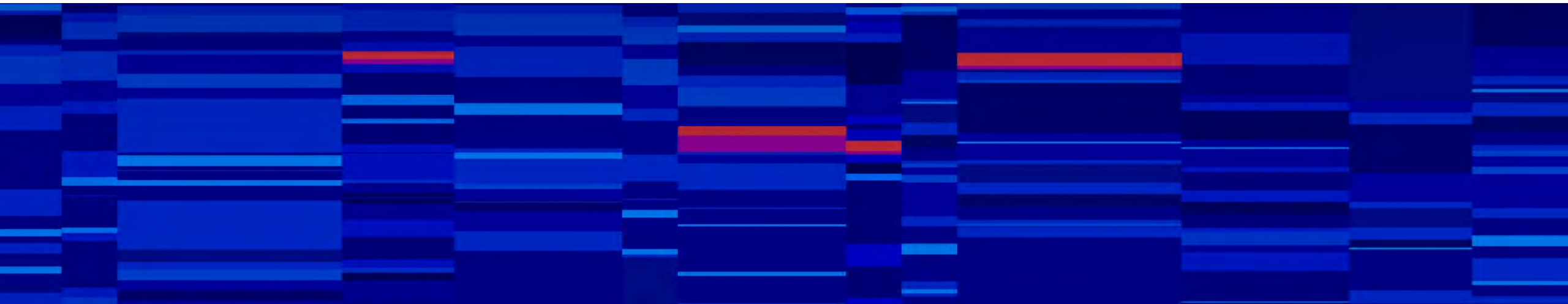


**EQUIGY**

—  
**crowd  
balancing  
platform**

# Unlocking Demand Response with Plug & Play Market Access

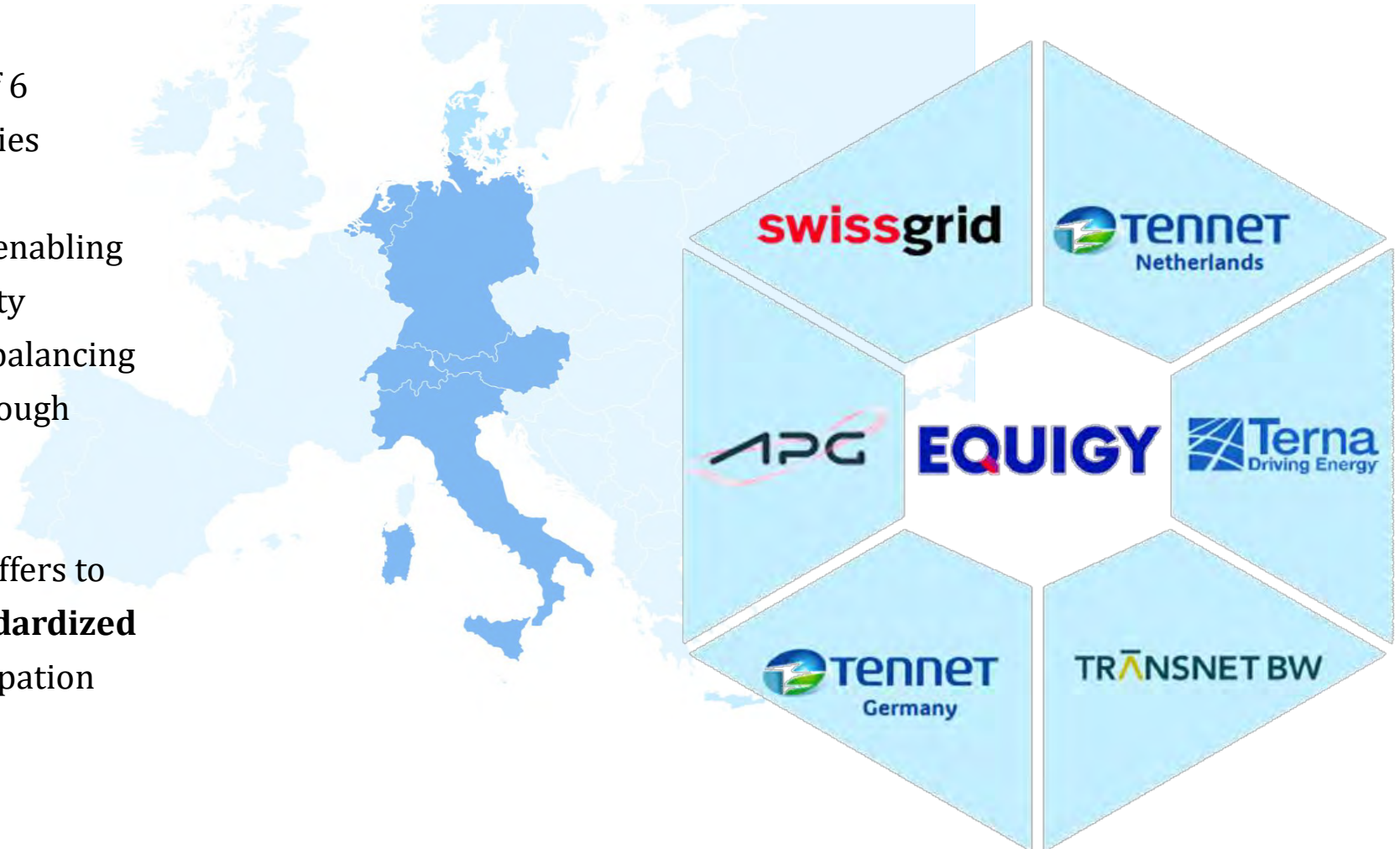
—  
**Martin van 't Verlaat**



# What is Equigy?

**EQUIGY**

- ✓ Non-profit **joint venture** of 6 European TSO's in 5 countries
- ✓ **Facilitates the market** by enabling smaller distributed flexibility resources to participate in balancing and redispatch markets through aggregation
- ✓ **Data exchange platform** offers to aggregators **easy and standardized access**, encouraging participation



# Flexibility challenges for TSO's

## Rapid growth of renewable generation

- Higher volatility (ramping and switching)
- Less plannable capacity
- Loss of system inertia

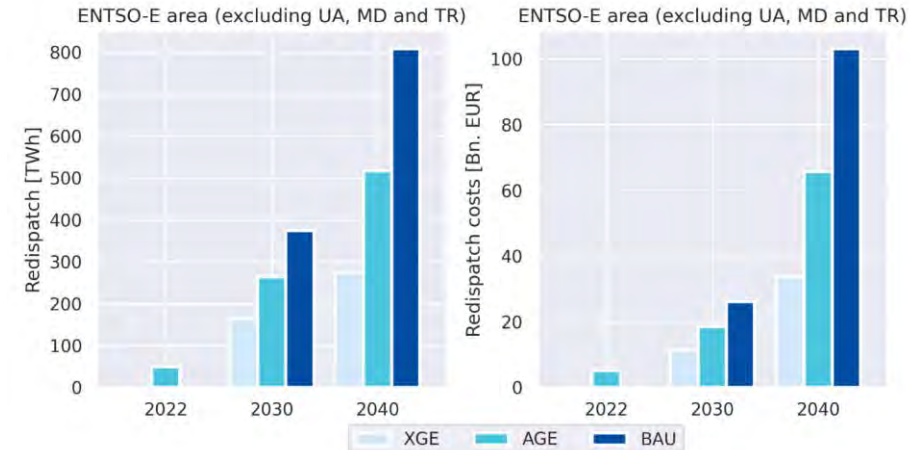
## Increasing electrification

- Massive uptake of electric mobility + heating
- New peaks and valleys in demand

## Physical grid limits

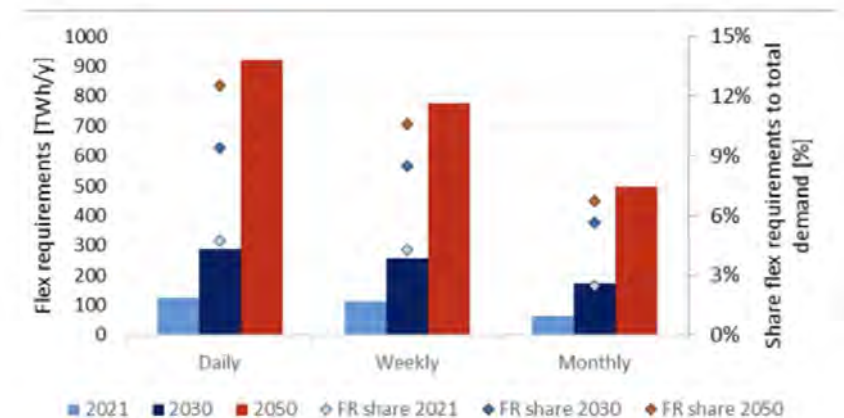
- Generation outside demand centers
- Grid reinforcement takes > 10 years
- Growing redispatch and curtailment

### Evolution of redispatch volumes and costs (source: JRC European Commission)



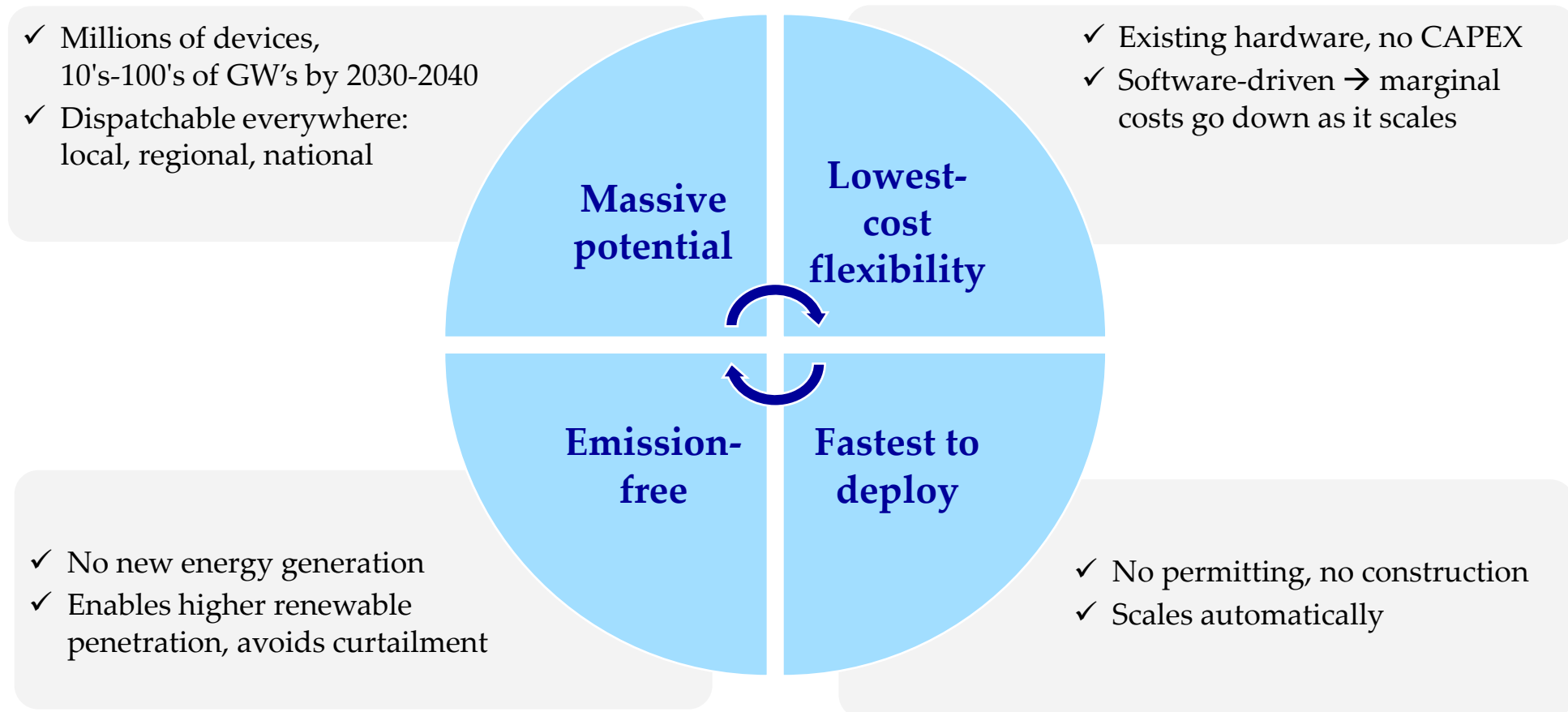
- + Curtailment of renewable generation:
- 50-120 TWh in 2030
  - 100-310 TWh in 2040

### Evolution of flexibility requirements (source: JRC European Commission)



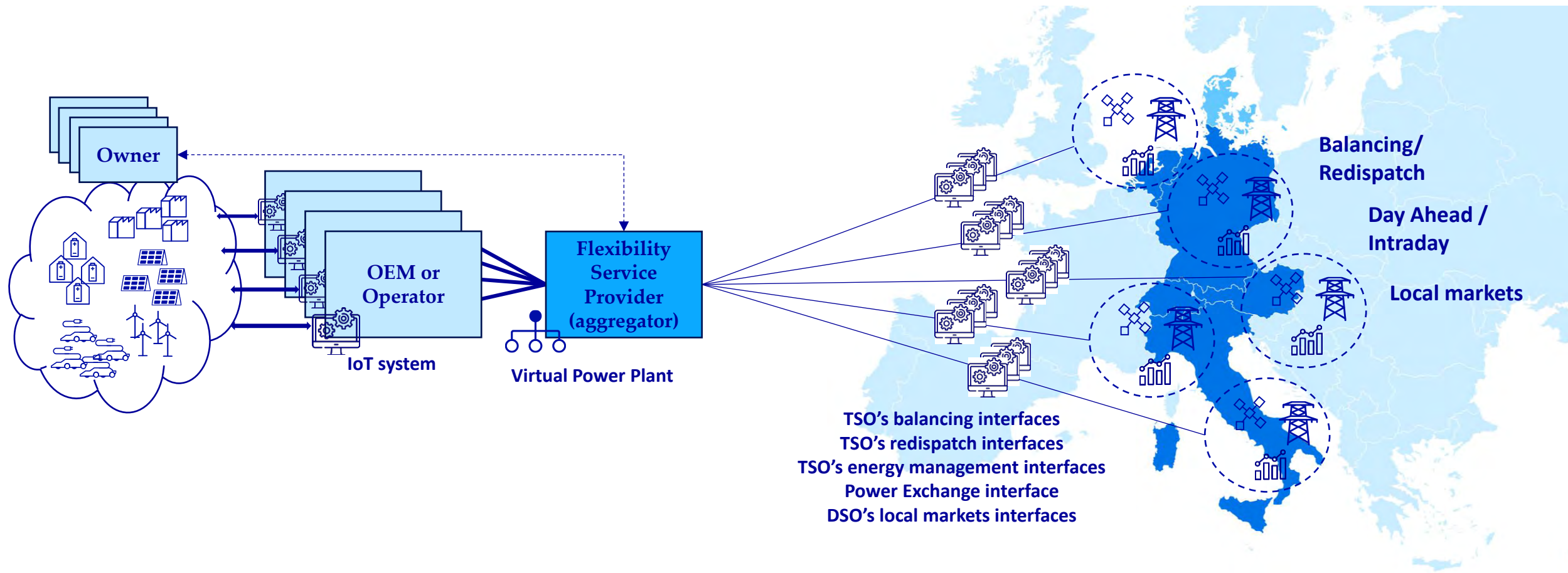
*TSO's need more flexibility to keep the grid safe. Demand response will play a significant role in the total flex mix.*

# Demand Management is a very attractive option



*Fastest, cheapest and largest source of flexibility for a Net-Zero power system. So why is adoption still slow?*

# How demand management delivers flexibility



*Demand-side flexibility requires a complex system with intelligent technology, many interfaces and partnerships.*

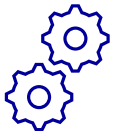
# The rules and digital infrastructure were designed when only a few large generating units delivered flexibility



## REGULATORY CHALLENGES



**FRAGMENTED PREQUALIFICATION REQUIREMENTS ON UNIT LEVEL**



**REGULATORY INCOMPATIBILITY**  
(e.g. double taxation, minimum bid sizes, cost based frameworks)



**METERING REQUIREMENTS ON UNIT LEVEL**

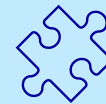


**FEAR OF GAMING**

## DIGITAL INFRASTRUCTURE CHALLENGES



**LACKING INTEROPERABILITY: DIFFERENT INTERFACES AND DATA FORMATS**



**COMPLEX AND COSTLY TECHNICAL CONNECTION REQUIREMENTS**



**DATA SILOES: DIFFICULT VERIFICATION AND TSO/DSO COORDINATION**

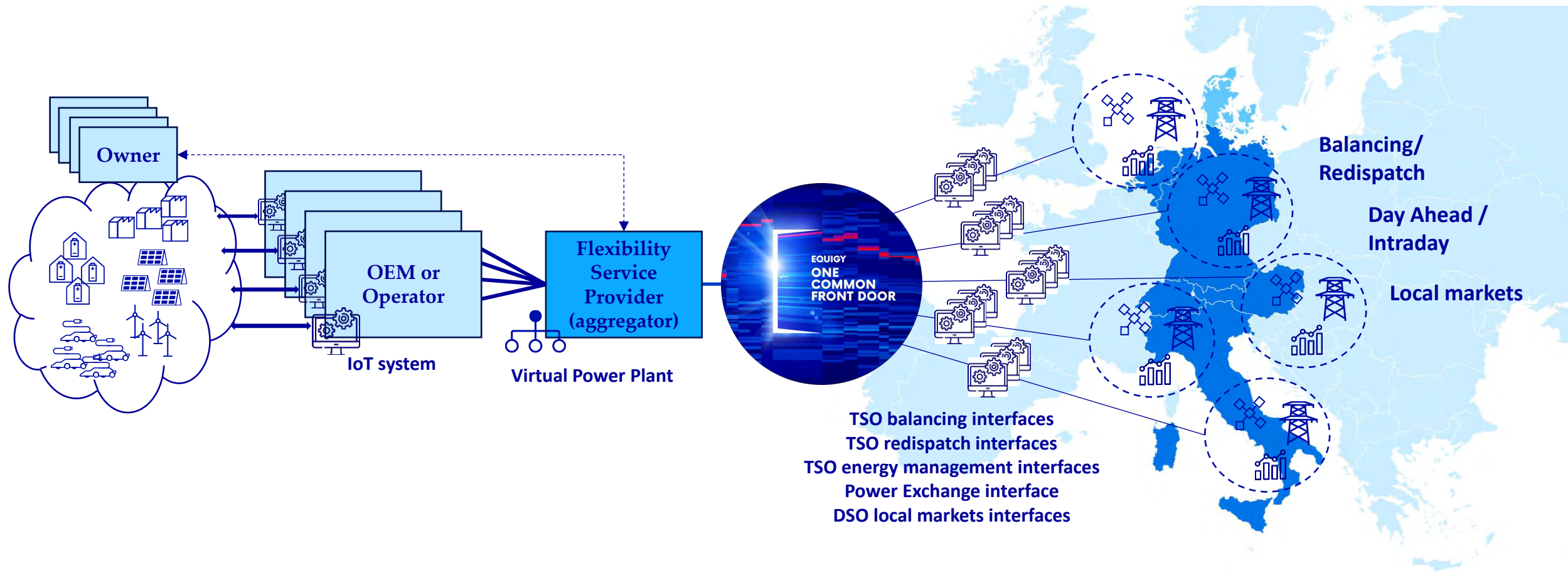
**FOCUS EQUIGY**

*On digital side, simplified and standardized data exchange is needed, with better visibility for TSOs and DSOs.*



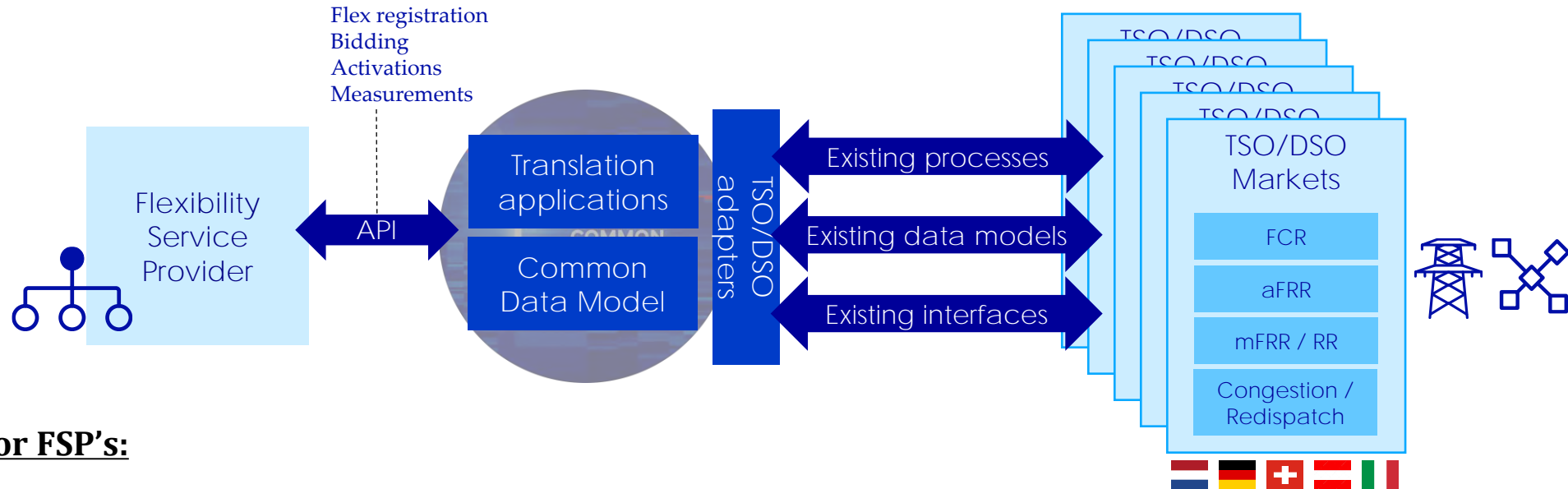
# Equigy's interoperability solution: one interface to different markets, inside and across countries

**EQUIGY**



*One interface is easier, faster and cheaper for flex providers, thereby encouraging more market liquidity.*

# Offering one standard to flex providers, and acting as translation engine to the different markets



## Benefits for FSP's:

- ✓ **Easy access and easy expansion across markets and countries**
- ✓ **Lower costs (single investment, single maintenance)**

## Benefits for TSOs/DSOs:

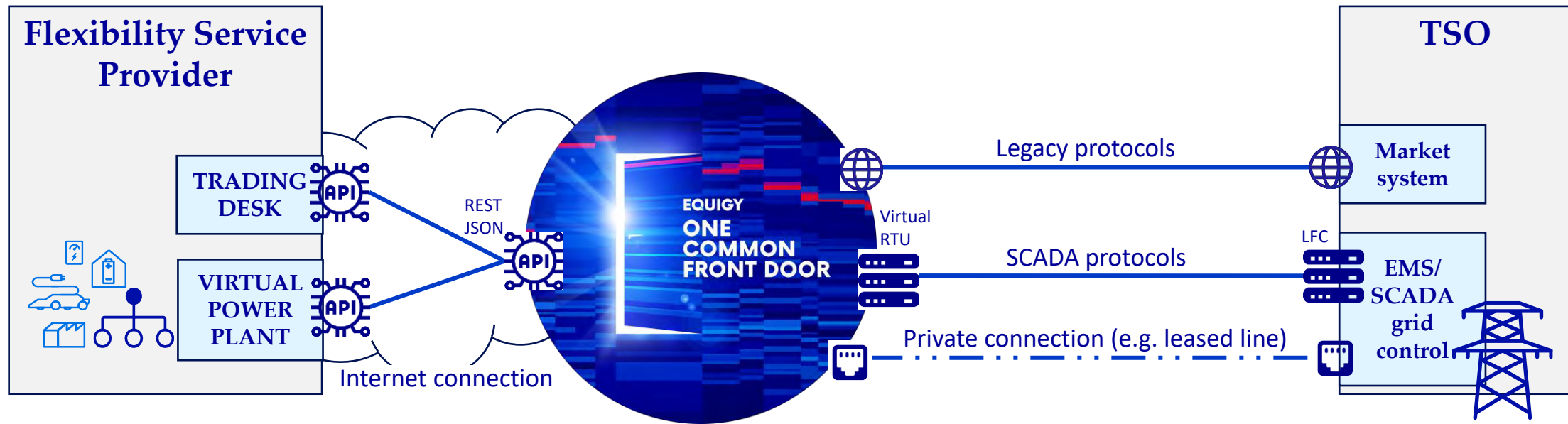
- ✓ **Increased participation and market liquidity**
- ✓ **Limited impact to existing systems and processes**
- ✓ **Compliance to upcoming regulation**

*Pragmatic approach to standardization of market access, also in line with upcoming regulatory requirements*



And simplifying interface and connection requirements, especially to the TSO EMS systems

**EQUIGY**

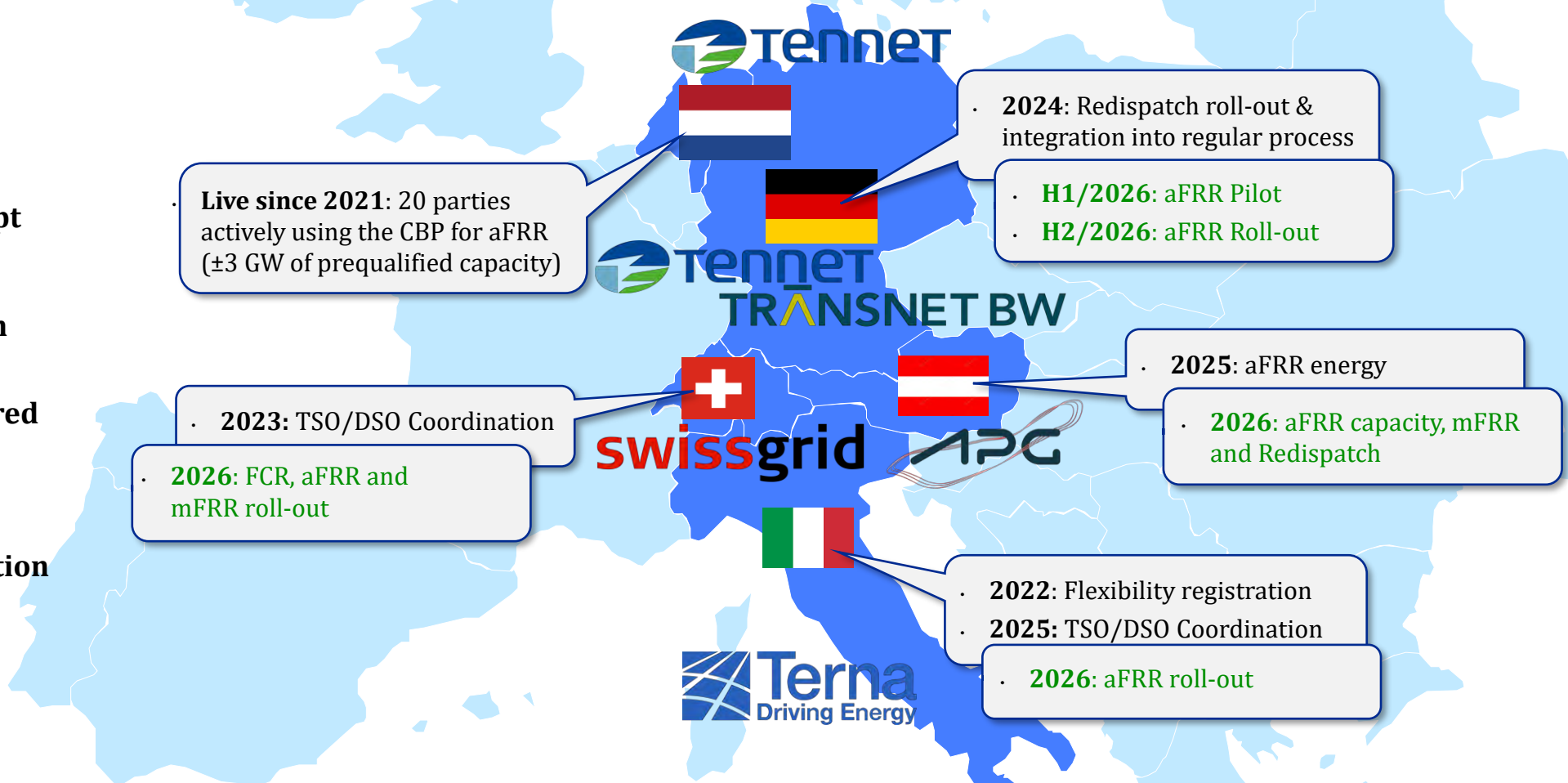


*Enabling cloud innovation to connect to TSO backbones*

# Equigy's current presence and 2026 roadmap

**EQUIGY**

- Until 2025: Mostly pilot projects, except for Netherlands
- 2026: Key year with many more market connections delivered
- Major step towards European market access standardization



*Preparing for more market connections and innovations after 2026*



**Martin van 't Verlaat**  
Chief Technology Officer at Equigy



# THANK YOU

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