EDDIE

EUROPEAN DISTRIBUTED DATA INFRASTRUCTURE FOR ENERGY

This project has received co-funding by the European Union's Horizon Europe Innovation Actions under grant agreement No. 101069510.

INSIEME

TOGETHER TOWARDS THE COMMON EUROPEAN ENERGY DATA SPACE

This work has been co-funded by the European Union's Digital Europe Programme under grant agreement No. 101194952.

PROJECTS EDDIE AND INSIEME

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Tuesday, May 26th 2025

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For Entarc.eu GmbH and University of Applied Sciences Upper Austria Co-Initiator and Technical Coordinator Projects EDDIE and INSIEME

USE CASE

24-7 Carbon-free Energy Matching and Granular Carbon Accounting

Dataspace for Granular Carbon Accounting

Data Collection

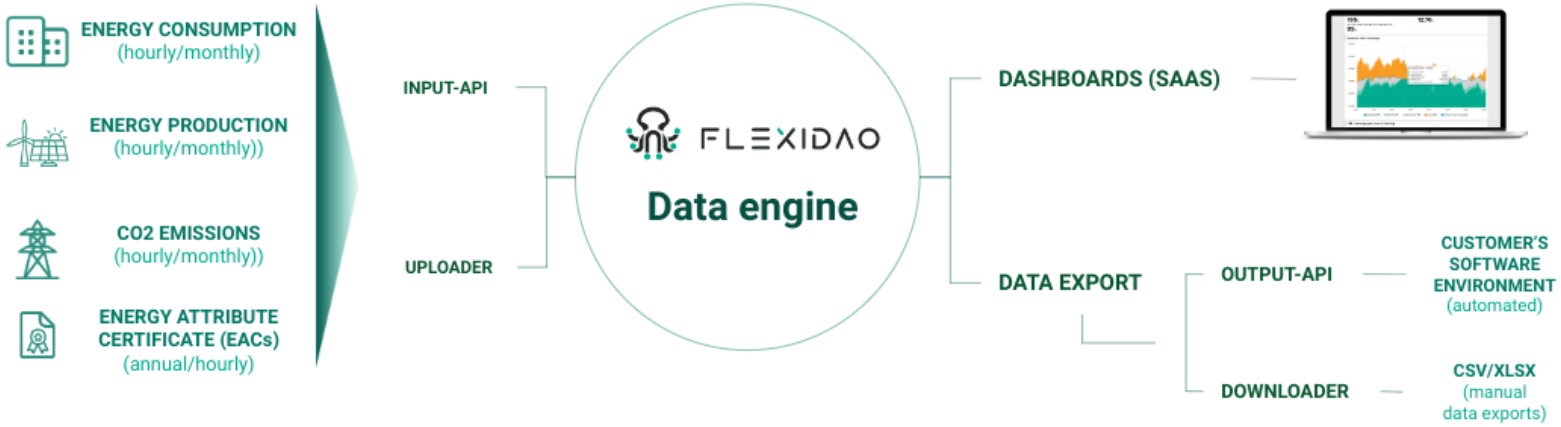
FlexiDAO can automate the collection of granular "Scope 2" data on its clients' behalf from different sources, or allow for manual upload.

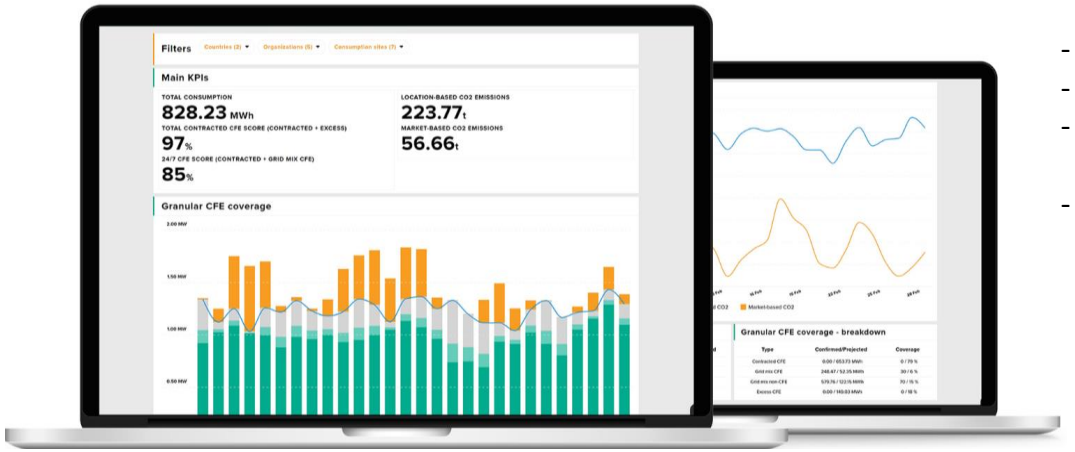
Data Aggregation

Data is ingested, cleaned and processed into relevant insights for decision making and reporting

Data Analysis

Customers can use Flexidao's SaaS dashboards to analyse information or can export the data to their software platforms to enable other use cases





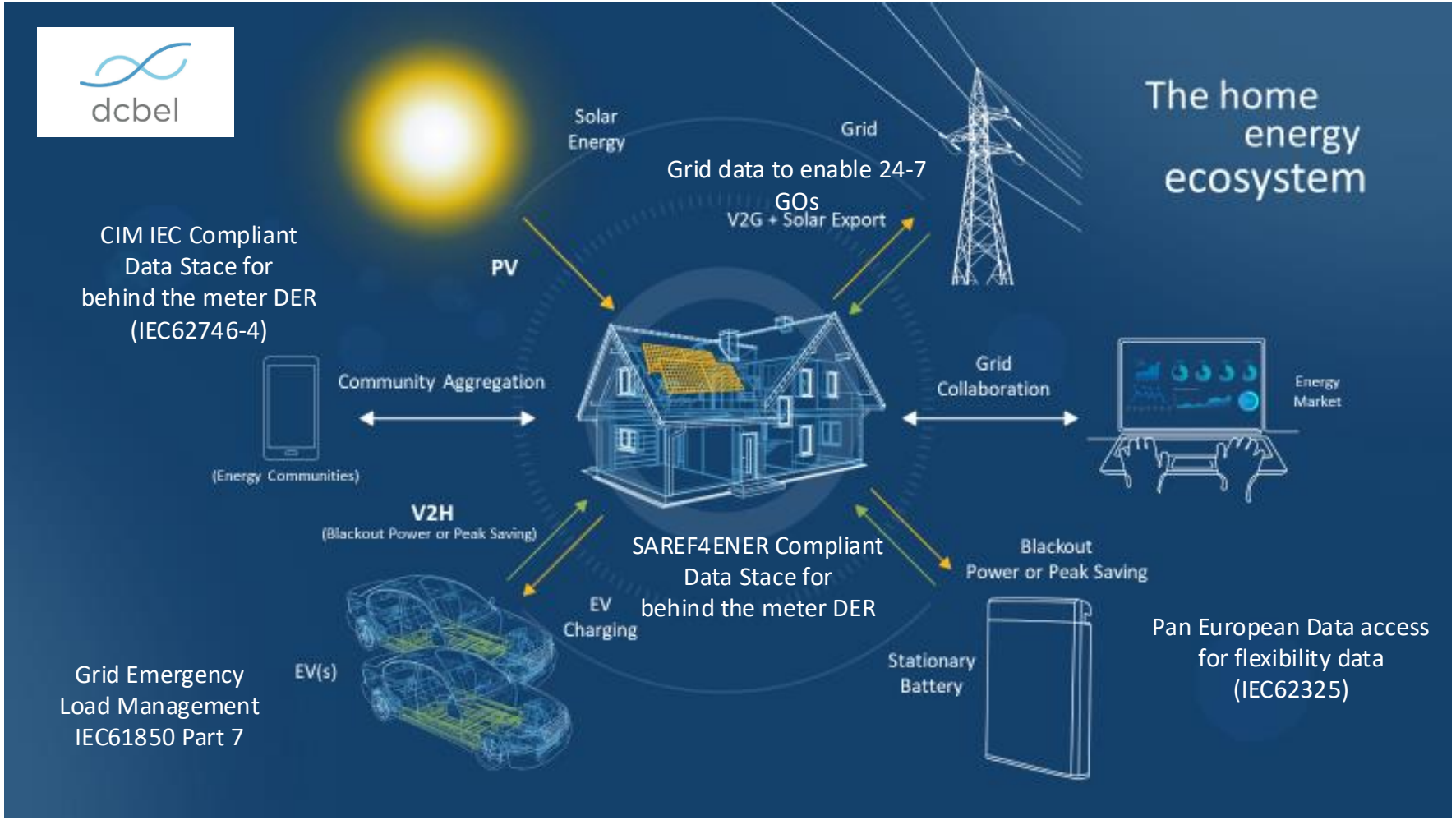
- Granular Scope 2 Carbon Accounting.
- Renewable energy procurement decisions.
- Renewable energy contracts, certificates and emissions in one place.
- Understand your 24/7 Carbon free performance and KPIs.

FLEXIDAO

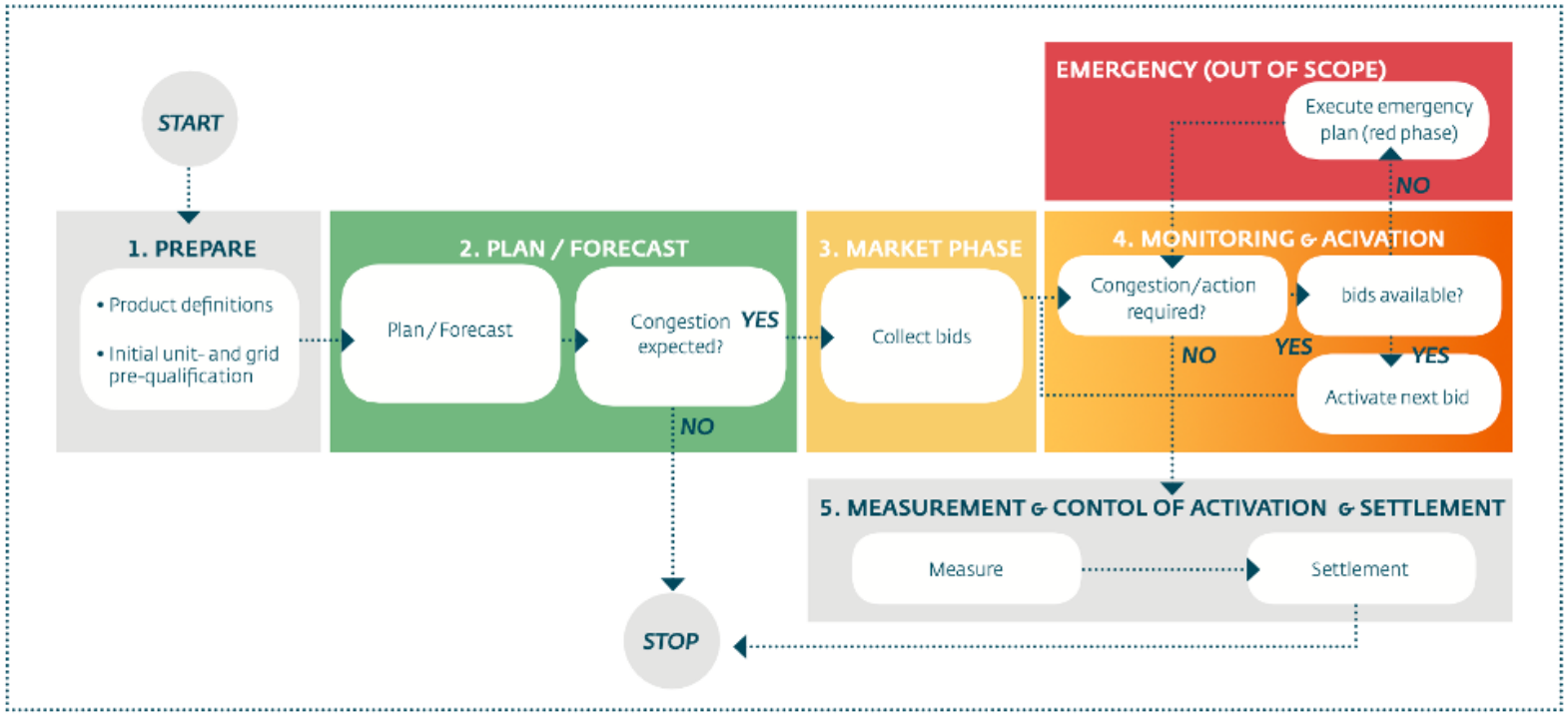
USE CASE

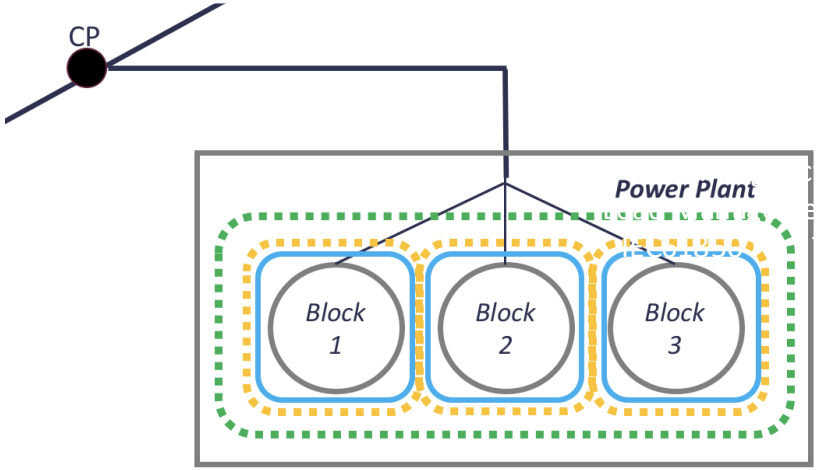
Residential Energy Optimisation in future Netzero homes integrating PV self consumption, storage and V2X

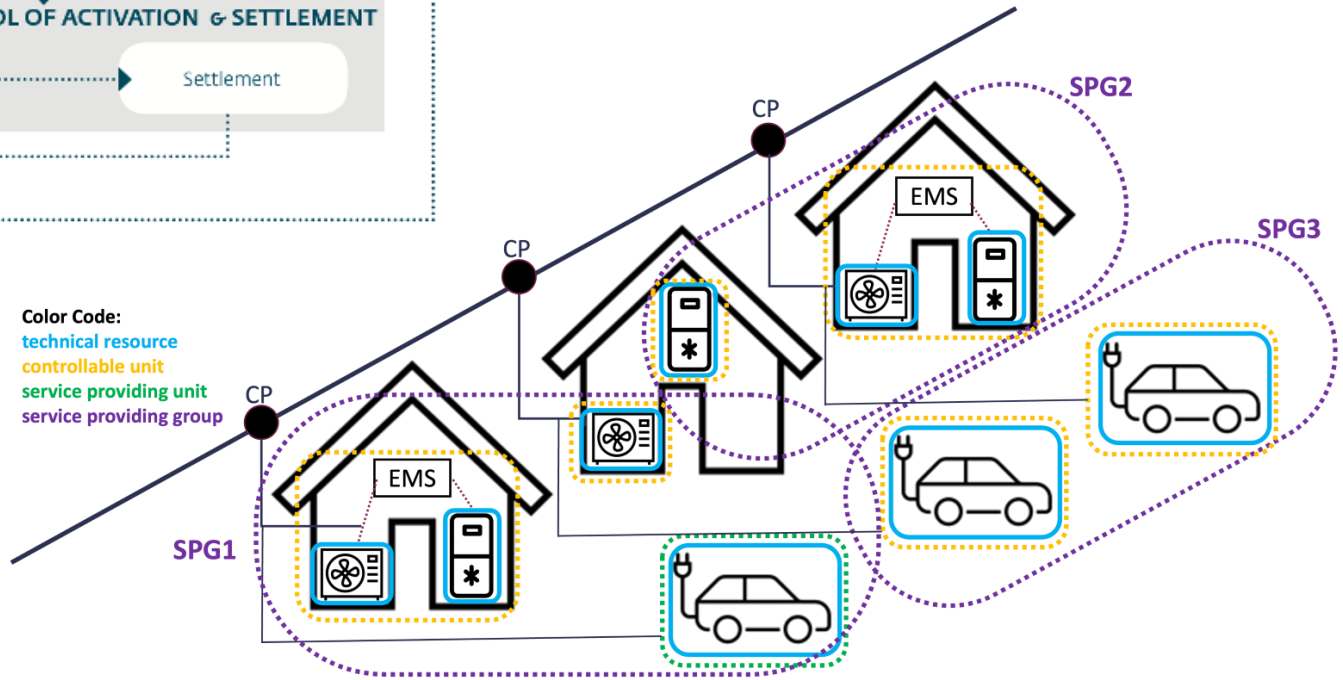
Dataspace for implicit Prosumer Participation



NETWORK CODE DEMAND RESPONSE





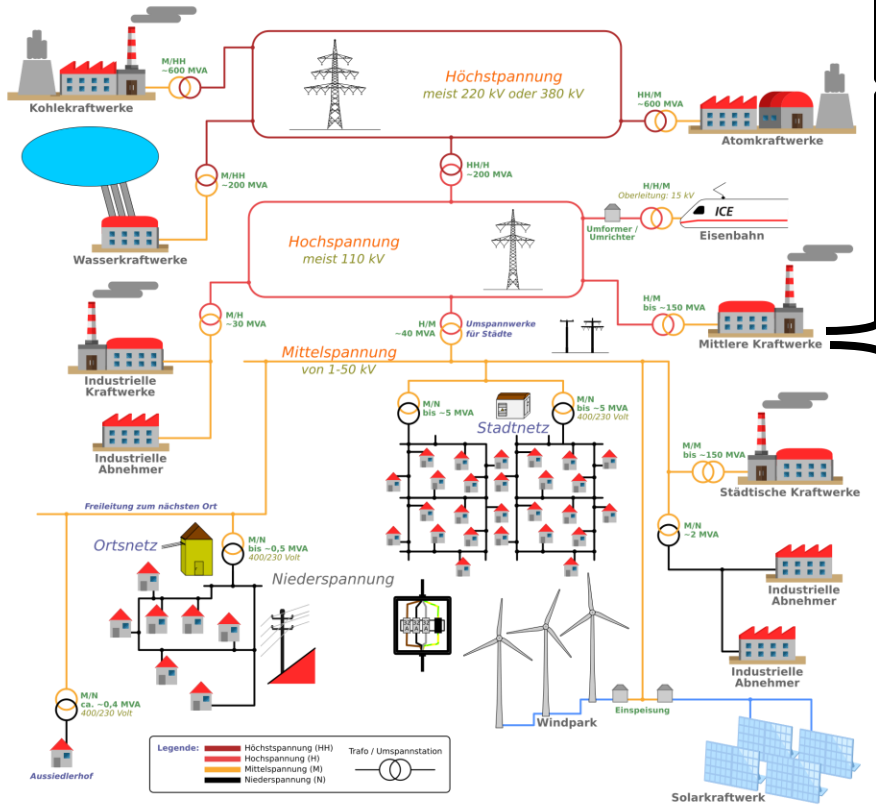


USE CASE

Virtual Power Plant for Renewable and C&I Demand side flexibility

(Future)

- DER Master data synchronization (day aheard)
- Automatic -BRP Switching
- Real-time DER performance monitoring
- Automatic metering and consumption data aquisition for settlement
- Tracking of Guarantees of Origins across value chains
- Operate across multiple Member States through harmonized interfaces



Follow-up H2020 call objectives

Current situation

- < 1000 Assets across Europe
- Limited spread across Memberstates
- Proprietary hardware for Realtime connectivity
- Difficulty to synchronize master data and reconcile settlements

Future targets

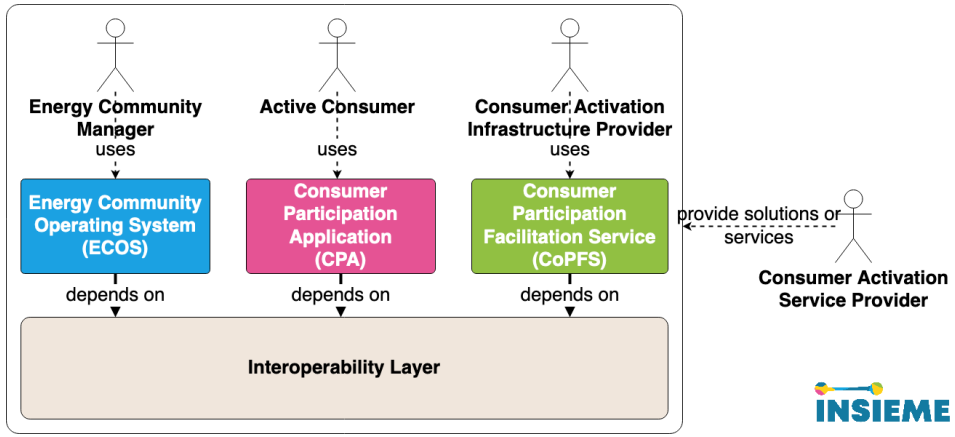
- Access > 10.000 Assets
- Harmonize market APIs across Member States
- Open hardware APIs
- Real-time master data synchronization & Guarantees of Origins
- Real-time DER switching

USE CASE

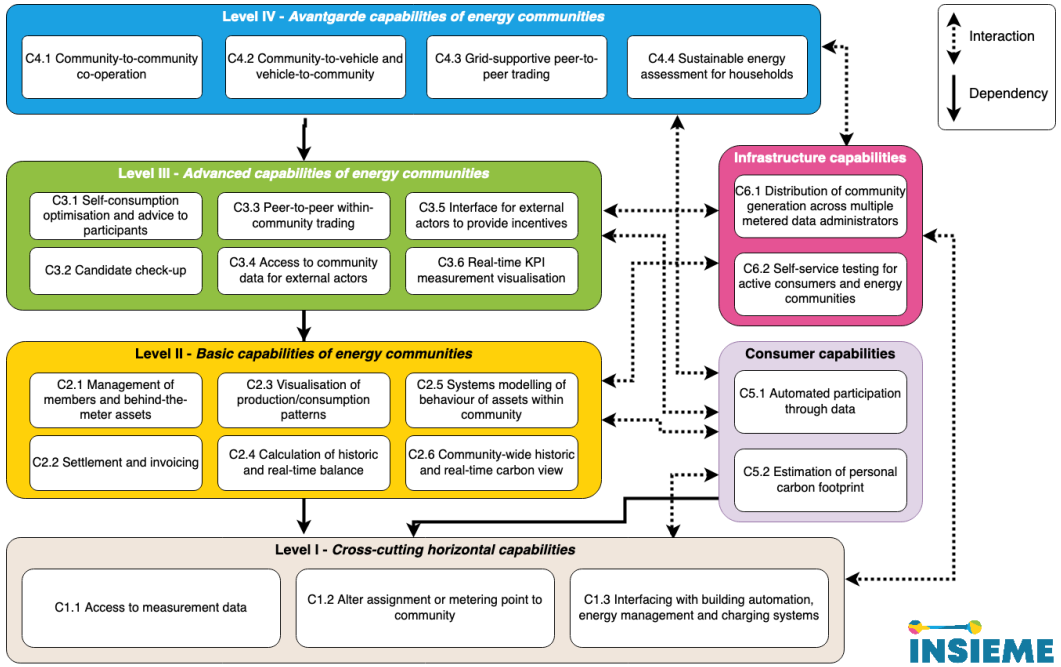
Digital multi-sided platforms for energy communities and P2P energy sharing/trading

(Future)

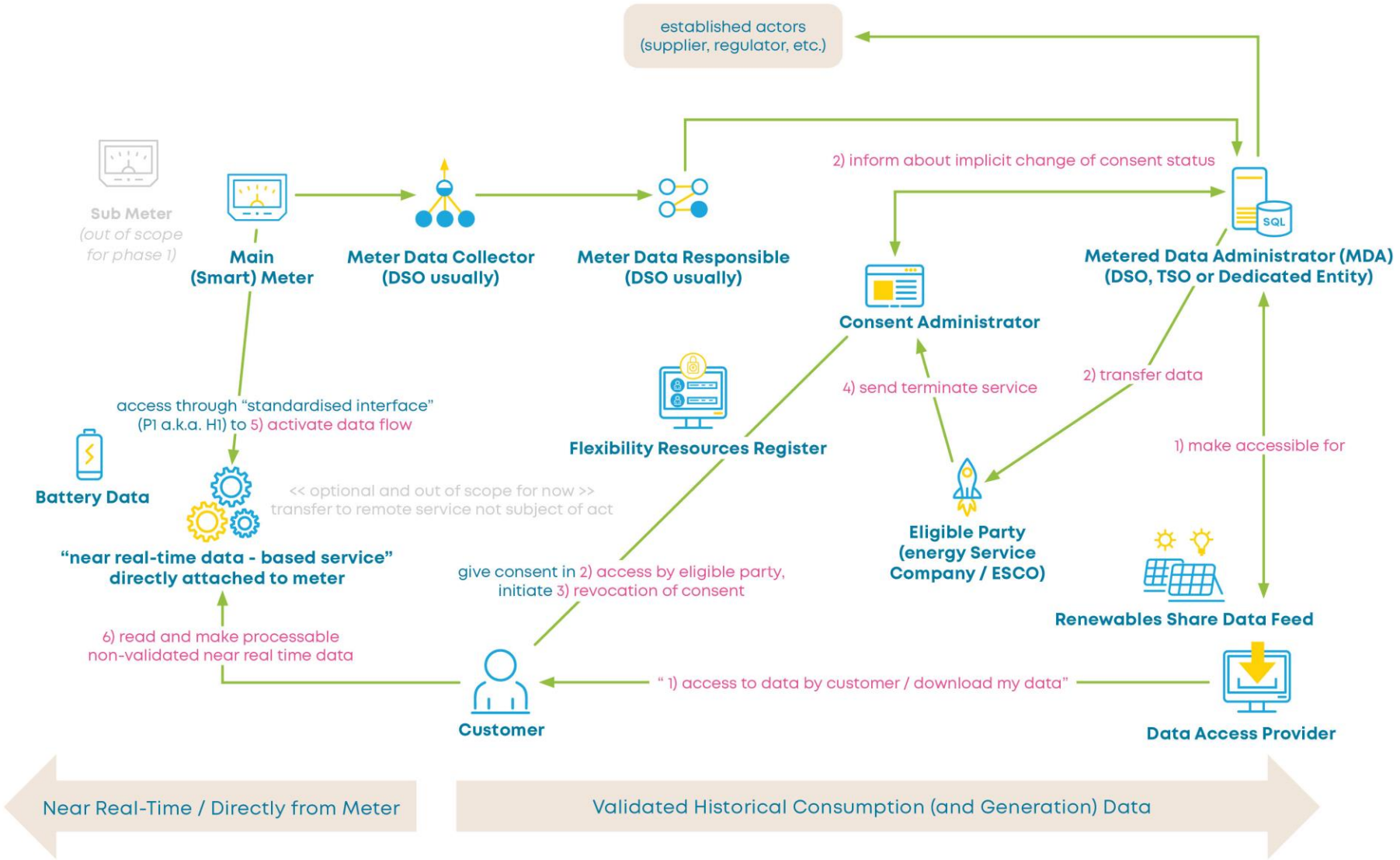
Dataspace for energy communities



Follow-up H2020 call objectives



PRESSING PROBLEM – LATE AVAILABILITY OF VALIDATED DATA



A DATA SPACE FOR A FLEXIBLE AND PARTICIPATIVE ENERGY SYSTEM

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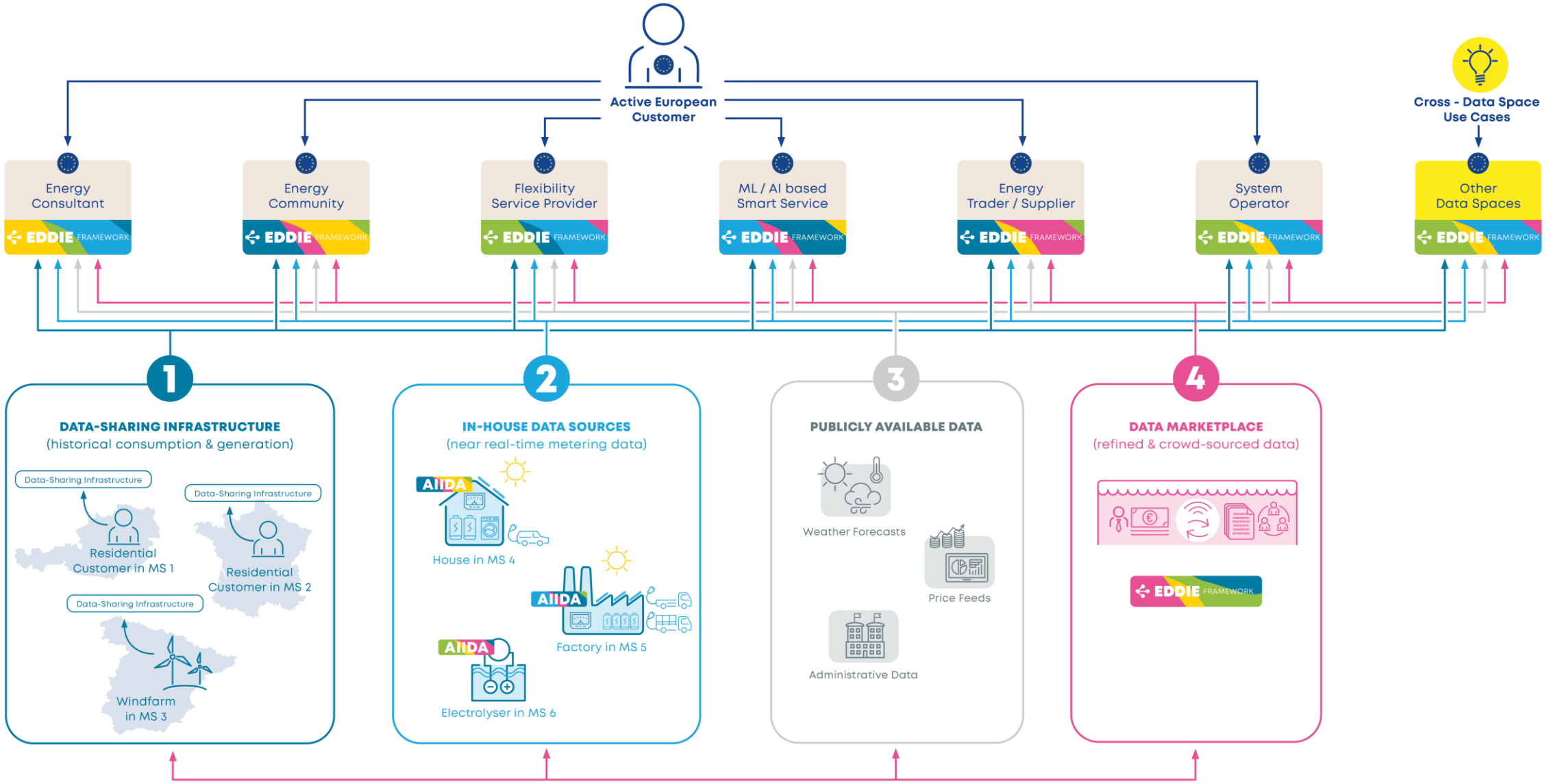

GEOGRAPHICAL SCOPE

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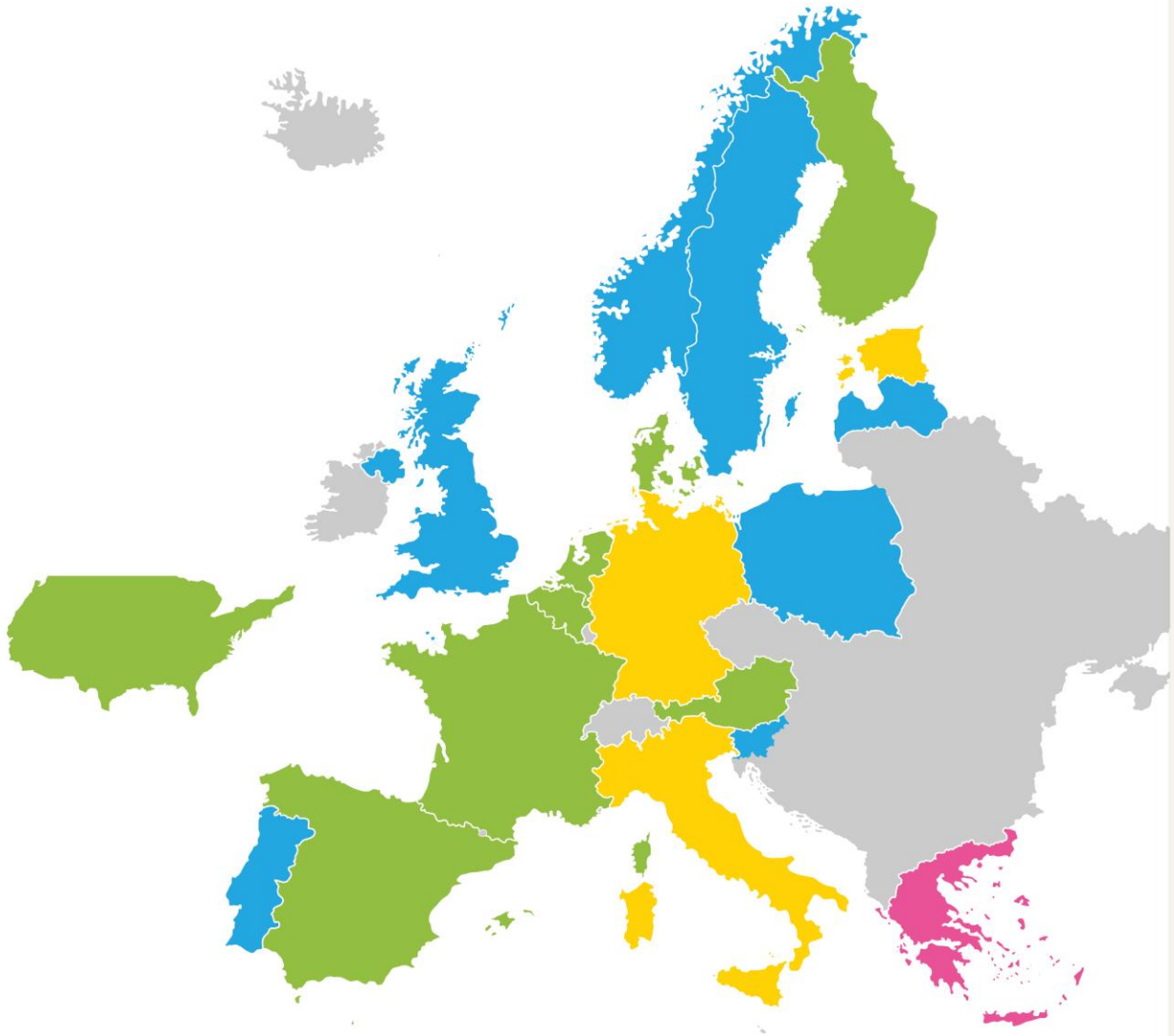


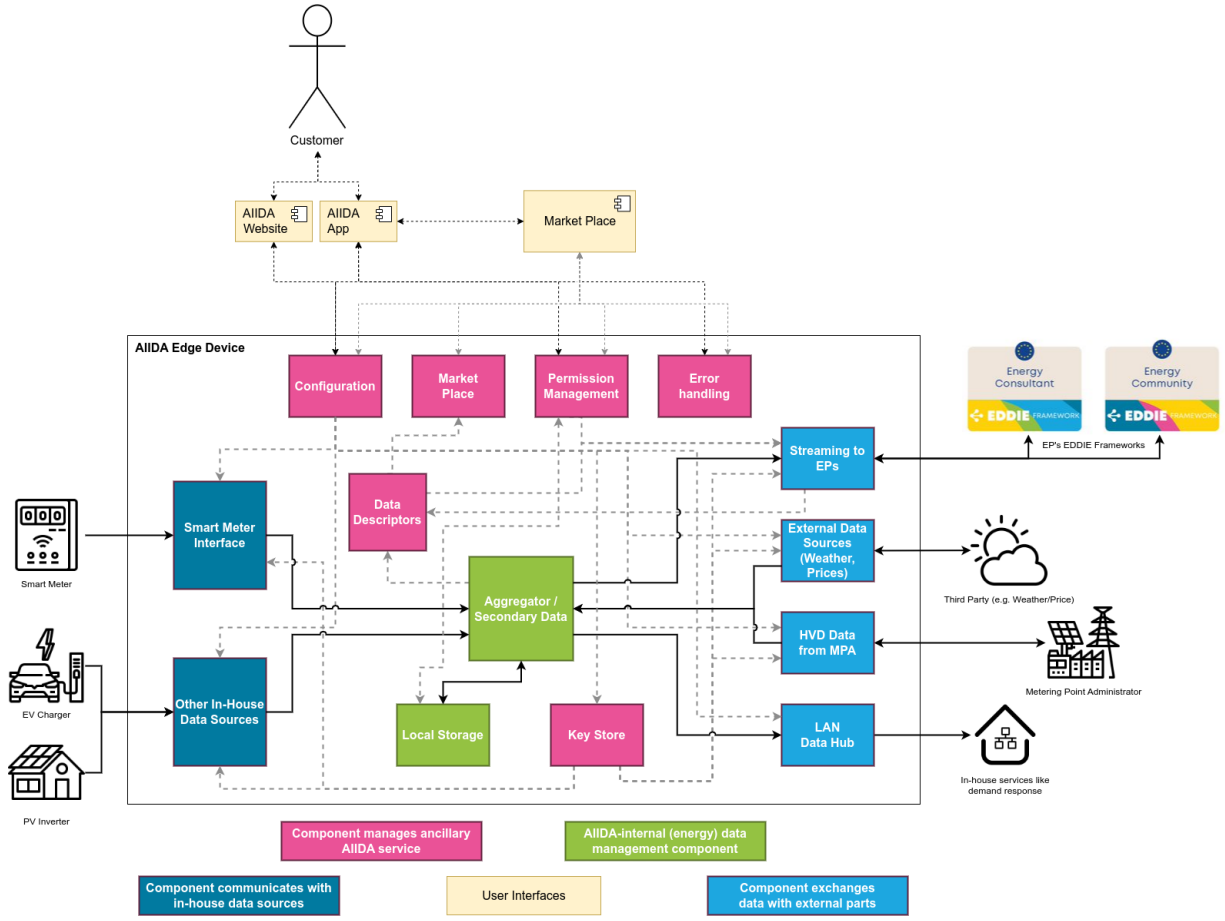
Done
- Austria
- Belgium
- Finland
- France
- Netherlands
- Spain
- USA (Greenbutton)

In Contact
- Great Britain
- Latvia
- Norway
- Poland
- Portugal
- Slovenia
- Sweden

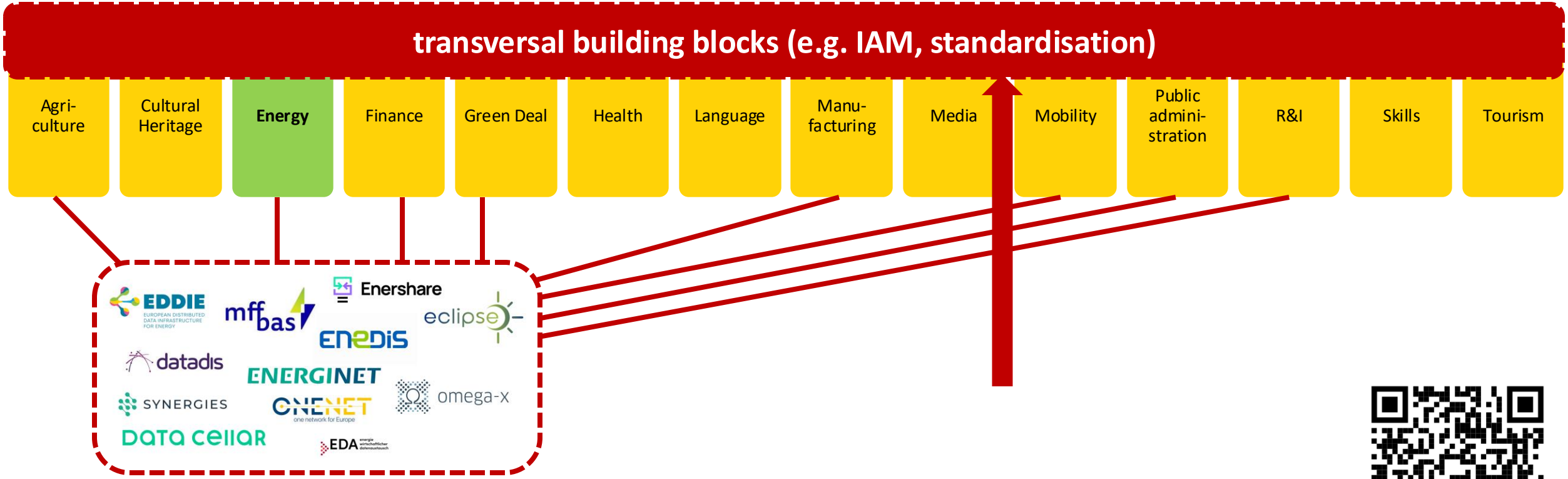
Delayed
- Estonia
- Germany
- Italy

Blocked
- Greece

AIIDA – ADMINISTRATIVE INTERFACE FOR IN-HOUSE DATA ACCESS



Common European Data Spaces for 14 Sectors



see https://digital-strategy.ec.europa.eu/en/policies/data-spaces

PROJECT ENVIRONMENT, HISTORY AND VISION

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INSIEME

INSIEME

FH OBERÖSTERREICH UNIVERSITY OF APPLIED SCIENCES UPPER AUSTRIA

Start: April 1st 2025

End: March 2028

Establishing a CEEDS by the sector for the sector

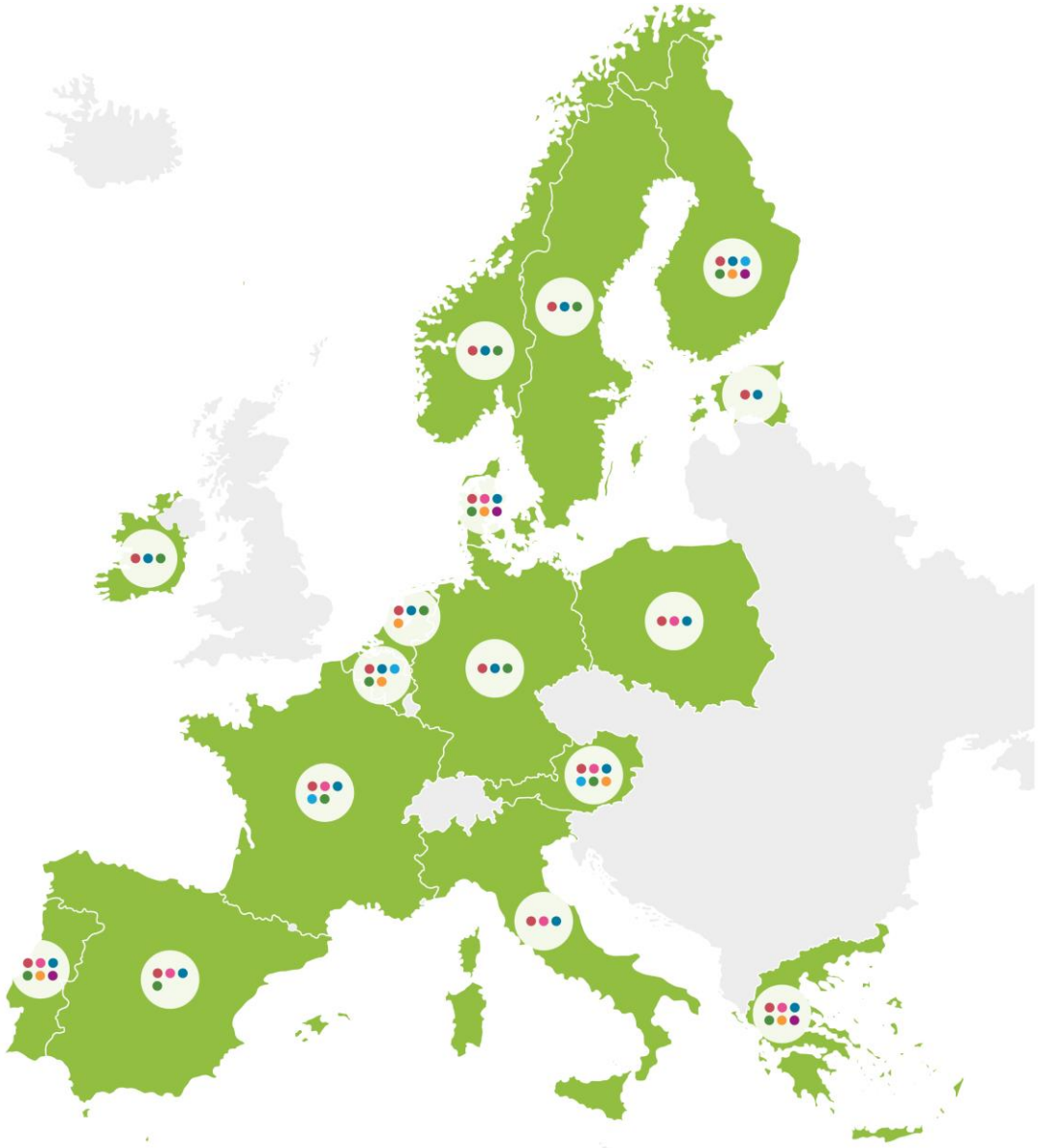
54 European Partners co-operating closely with European workstreams

16 Mio. EUR Budget

(8 Mio. EUR European co-funding out of Digital Europe Programme)

Tackling highest-priority twin transition challenges directly using the CEEDS

Deploy use cases in 15 EU countries



INSIEME Coverage & Use Cases

1. Energy Efficiency and Flexibility Management
2. Collective Self-Consumption
3. Grid Flexibility Services
4. Electromobility
5. Renewables Integration
6. Networks and Integration Planning
7. Smart Sector Integration

INSIEME BRINGS TOGETHER THE RIGHT PEOPLE

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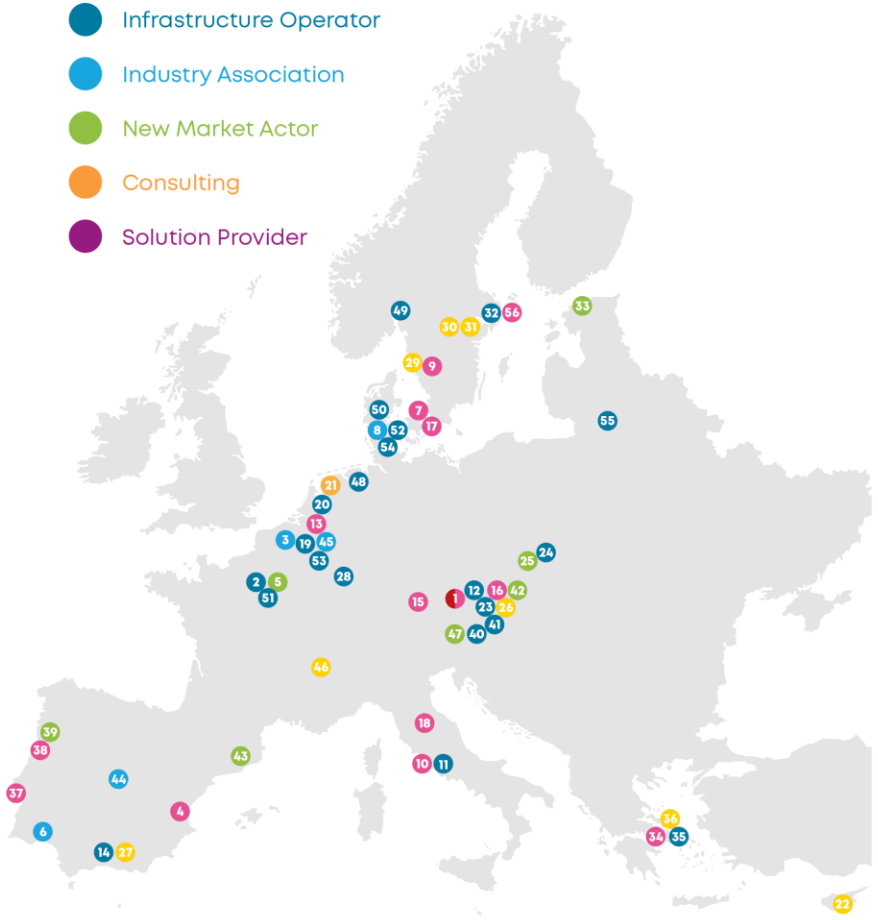
INSIEME

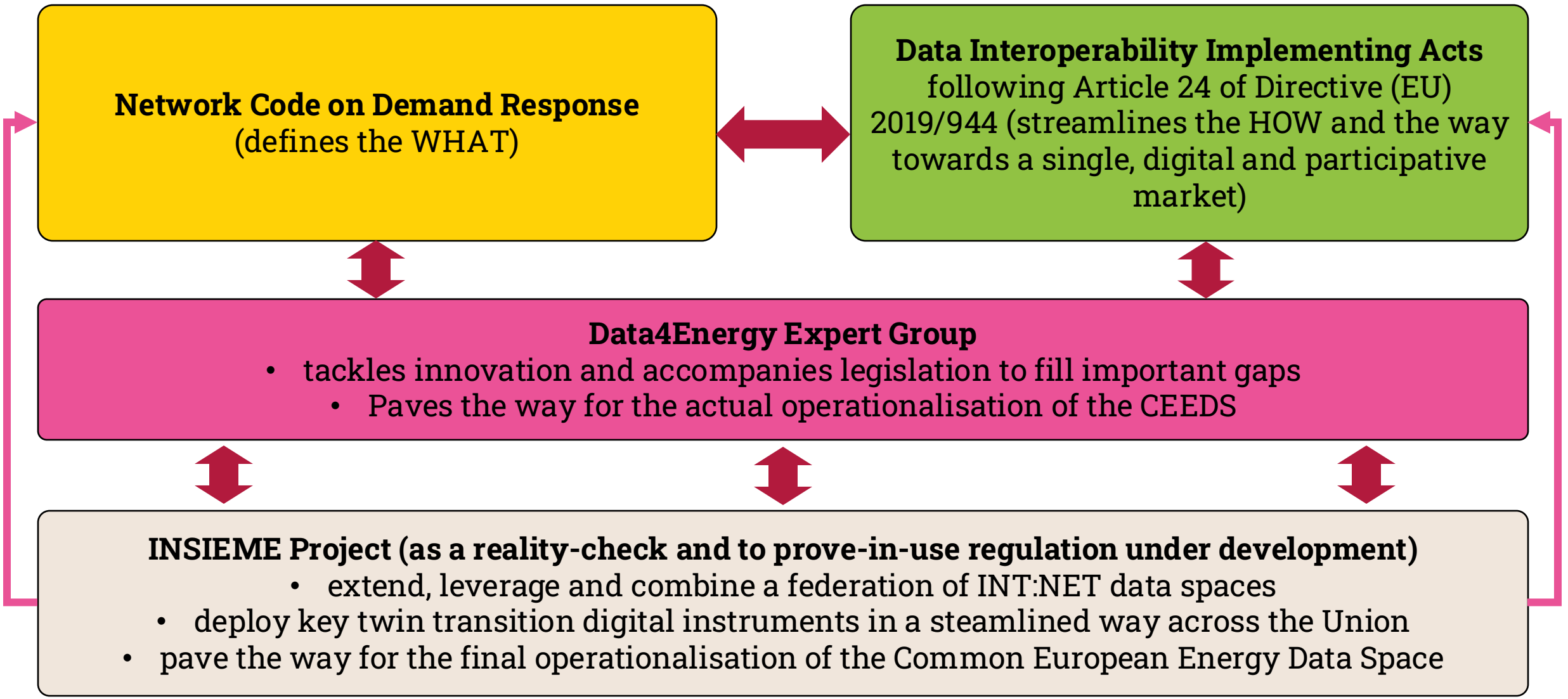
INSIEME Consortium

- Coordinator
- Research & Innovation
- Infrastructure Operator
- Industry Association
- New Market Actor
- Consulting
- Solution Provider



1. University of Applied Sciences Upper Austria (FHOOE); FH OO FORSCHUNGS & ENTWICKLUNGS GMBH (FHOOE)
2. ENEDIS
3. EUROPEAN RENEWABLE ENERGIES FEDERATION (EREF)
4. ETRA INVESTIGACION Y DESARROLLO SA
5. DIGITAL4GRIDS
6. ENERCOUTIM - ASSOCIACAO EMPRESARIALDE ENERGIA SOLAR DE ALCOUTIM
7. DANMARKS TEKNISKE UNIVERSITET
8. CENTER DANMARK DRIFT APS
9. RISE RESEARCH INSTITUTES OF SWEDEN AB
10. ENGINEERING - INGEGNERIA INFORMATICA SPA
11. ARETI S.P.A.
12. EDA ENERGIEWIRTSCHAFTLICHER DATENAUSTAUSCH GMBH
13. VLAAMSE INSTELLING VOOR TECHNOLOGISCH ONDERZOEK N.V.
14. CUERVA ENERGIA SLU
15. FRAUNHOFER GESELLSCHAFT ZUR FÖRDERUNG DER ANGEWANDTEN FORSCHUNG EV
16. UNIVERSITAT WIEN
17. COPENHAGEN BUSINESS SCHOOL
18. EUROPEAN UNIVERSITY INSTITUTE
19. EUROPEAN DISTRIBUTION SYSTEM OPERATORS FOR SMART GRIDS
20. ALLIANDER NV
21. Expert Modeller
22. SUITE5 DATA INTELLIGENCE SOLUTIONS LIMITED
23. AUSTRIAN POWER GRID AG
24. TAURON DYSTRYBUCJA SPOLKA AKCYJNA
25. Operator Klastra Energii Sp. z o.o.
26. EnliteAI GMBH
27. ADAION SMART GRID SOLUTIONS SL
28. Luxembourg National Data Service (PNED GIE)
29. VOLVO TECHNOLOGY AB
30. STATISTISKA CENTRALBYRAN
31. STATENS ENERGIMYNDIGHET
32. VATTENFALL ELDISTRIBUTION AB
33. R8 Technologies OÜ
34. ETHNICON METSOVION POLYTECHNION
35. IRON ANONYMI ETAIREIA ENERGEIAKON YPIRESION - HERON SOCIETE ANONYME ENERGY SERVICES
36. ORGANISMOS TILEPIKOINONION TIS ELLADOS OTE AE
37. REN - REDE ELECTRICA NACIONAL SA
38. INESC TEC - INSTITUTO DE ENGENHARIADE SISTEMAS E COMPUTADORES, TECNOLOGIA E CIENCIA
39. COOPERATIVE ELECTRICA DO VALE DESTE CRL
40. ENERGIENETZE STEIERMARK GMBH
41. NETZ NIEDEROSTERREICH GMBH
42. backbone.one GmbH
43. COMERCIAL VALLESANA DE SUMINISTROS SA
44. ASOCIACION DE EMPRESAS DE ENERGIA ELECTRICA
45. SMART ENERGY EUROPE
46. RENAULT TRUCKS SAS
47. ENIXI GMBH
48. ENFOR AS
49. STATNETT SF
50. EWII A/S
51. RTE RESEAU DE TRANSPORT D'ELECTRICITE
52. ENERGINET
53. ELIA TRANSMISSION BELGIUM
54. TREFOR EI-NET A/S
55. Litgrid
56. Vattenfall AB R&D

INSIEME AS A REALITY-CHECK AND SANITY GATE



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INSIEME TOGETHER TOWARDS THE COMMON EUROPEAN ENERGY DATA SPACE

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