INSIEME

TOGETHER TOWARDS THE COMMON EUROPEAN ENERGY DATA SPACE

MORE THAN A DREAM: FROM INT:NET AND EDSCP TO INSIEME

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2022-2025 DEVELOPMENT AND TESTING OF DATA SPACE CONCEPTS

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EDDIE
EUROPEAN DISTRIBUTED DATA INFRASTRUCTURE FOR ENERGY

mffbas

Enershare

eclipse

ENEDIS

datadis

ENERGINET

omega-x

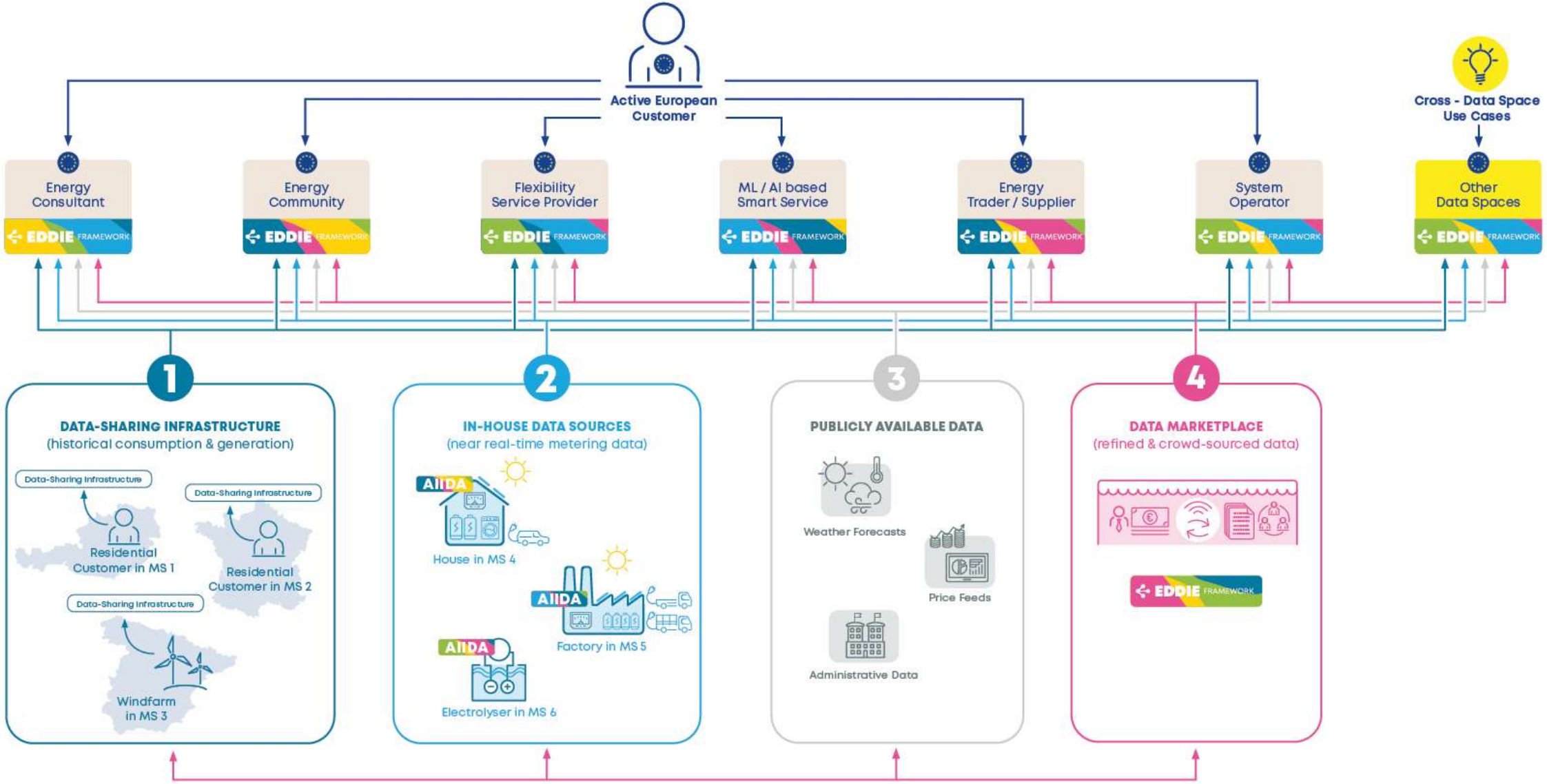
SYNERGIES

ONENET
one network for Europe

DATA CELLAR

EDA
energie wirtschaftlicher datenaustausch

PROJECT EDDIE – WRITE ONCE, RUN ANYWHERE



PROJECT ENVIRONMENT, HISTORY AND VISION

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)

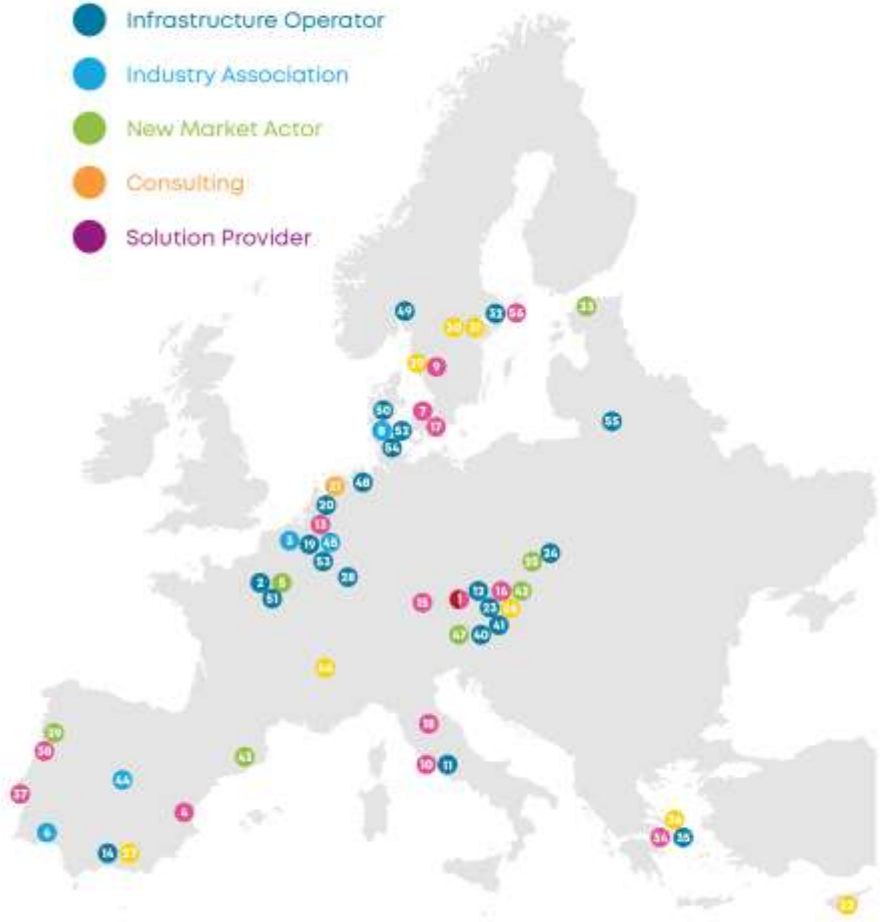
Piloting highest-priority twin transition challenges directly using the CEEDS

Deploy use cases in 15 EU countries

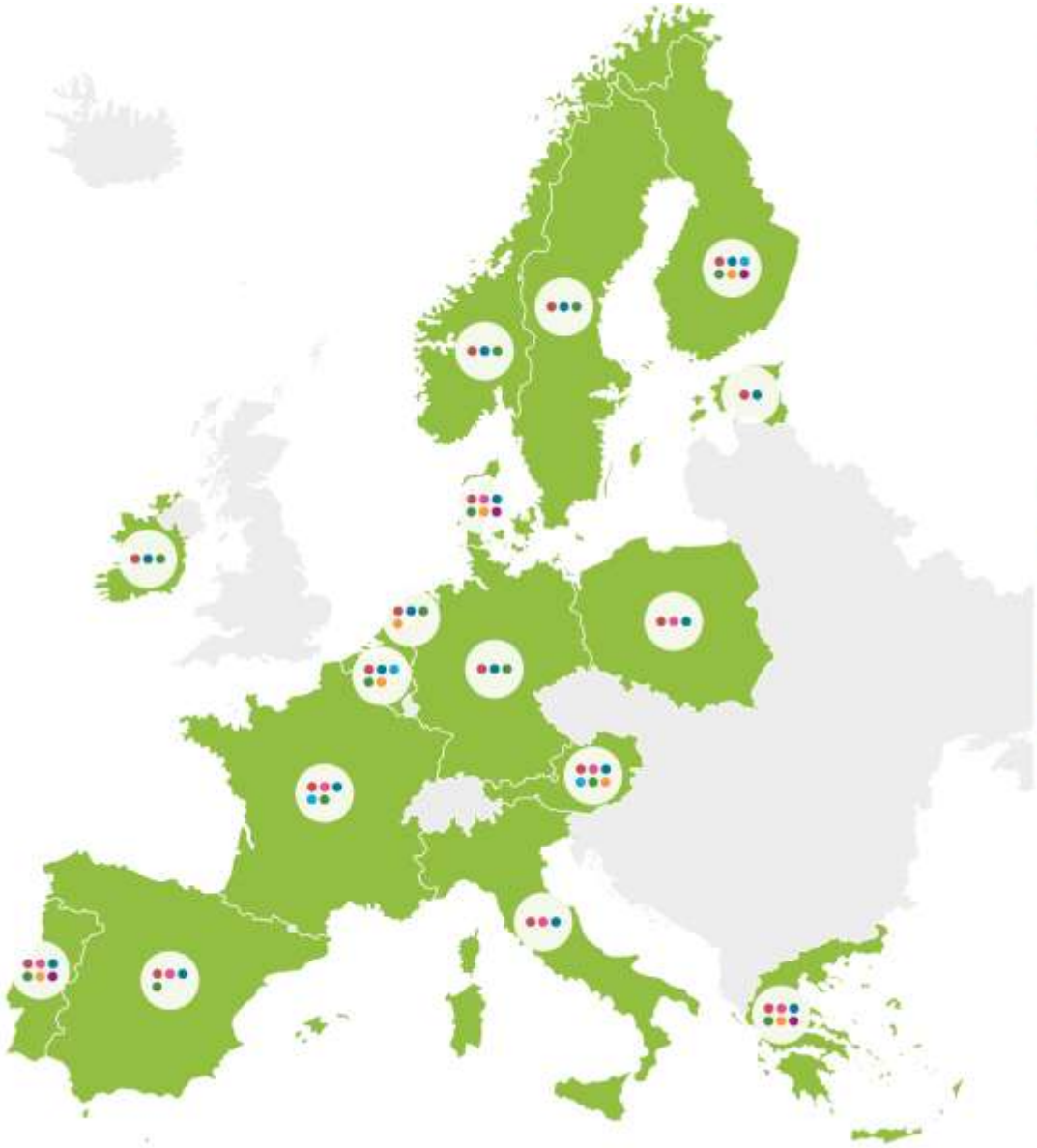
INSIEME BRINGS TOGETHER THE RIGHT PEOPLE

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. SUITES DATA INTELLIGENCE SOLUTIONS LIMITED
23. AUSTRIAN POWER GRID AG
24. TAURON DYSTRYBUCJA SPOLKA AKCYJNA
25. Operator Kiostra Energii Sp. z o.o.
26. EniteAI 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. Re Technologies OÜ
34. ETHNIKON 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 ENGENHARIA DE 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. EN00 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 El-NET A/S
55. Litgrid
56. Vattenfall AB R&D



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

Flexible Connection Agreement – Pilot Bene Büromöbel

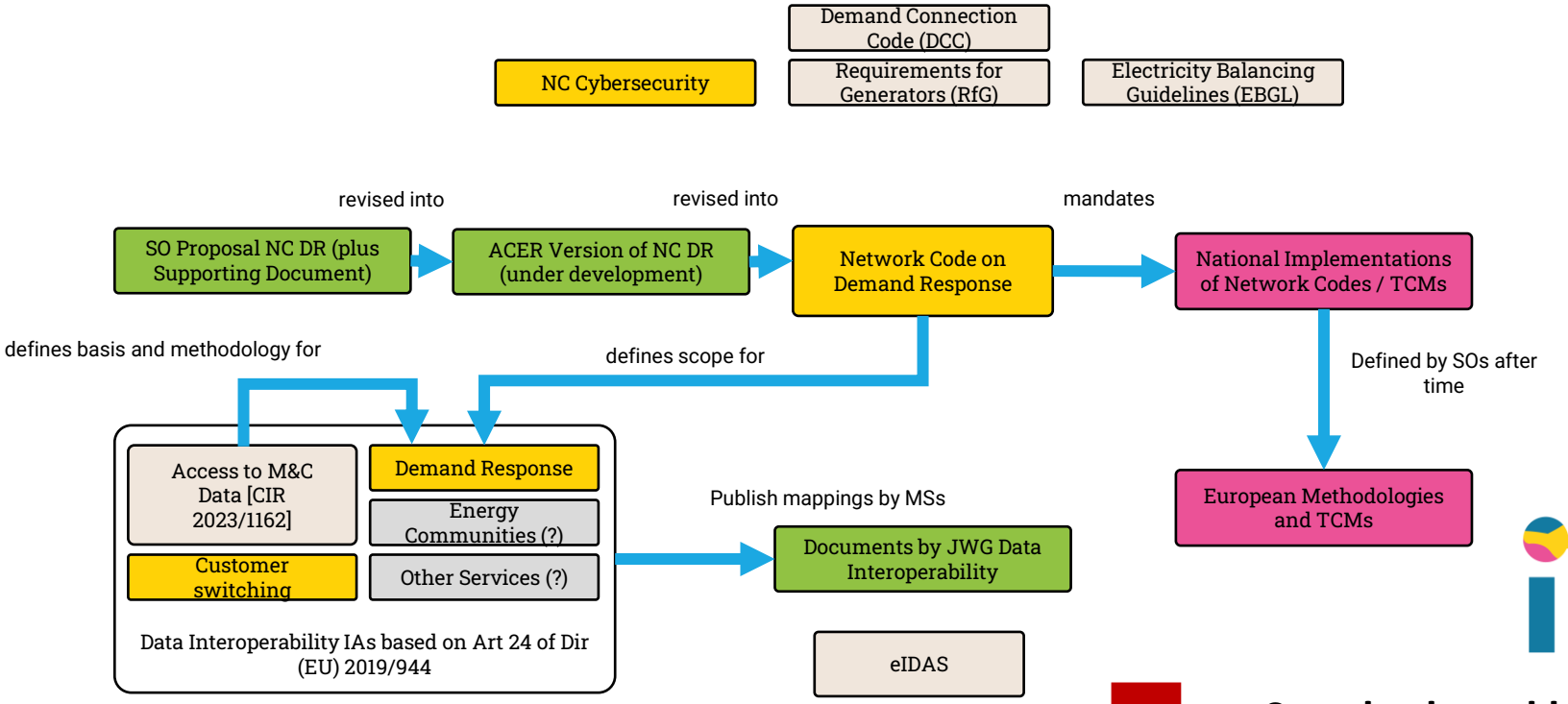
- Congested area due to high voltages in the medium voltage level
- Maximum installed power for new generation plants to avoid further congestions: 250kVA
- Bene Büromöbel PV affected by limitations
- Congestions mainly caused by water power plants
- Low simultaneities between PV and water power
- Bene has the opportunity for flexible connection aggrement
- Allow more PV grid injection in times with low water generation

- https://bene.com

bene
INSPIRIERENDE BÜROS. SEIT 1790.

NÖ Netz
EVN Gruppe

INSIEME COMES AT THE RIGHT POINT IN TIME



Standards and best practices needed <u>BEFORE</u>

Energy Data Space Cluster Projects
until Q2/2026

Establishment of Regulatory Basis for Flexibilisation
until Q1/2026

Implementation and national transposition of digital infrastructure
until 2030

INSIEME AS A REALITY-CHECK AND SANITY GATE

Network Code on Demand Response
(defines the WHAT)

Data Interoperability Implementing Acts
following Article 24 of Directive (EU) 2019/944 (streamlines the HOW and the way towards a single, digital and participative market)

Data4Energy Expert Group

- tackles innovation and accompanies legislation to fill important gaps
- Paves the way for the actual operationalisation of the CEEDS

INSIEME Project (as a reality-check and to prove-in-use regulation under development)

- extend, leverage and combine a federation of INT:NET data spaces
- deploy key twin transition digital instruments in a steamlined way across the Union
- pave the way for the final operationalisation of the Common European Energy Data Space

KEY NEXT STEPS

- **Cloud-edge structures** need to be integrated much closer and need to play a key role in CEEDS considerations
- Yet, **connectivity will create monopolisation effects**, and it needs to be defined clearly where the regulated domain ends, and where competition starts
- **There are things, that can‘t be solved via an organising instance.** The most pressing topic is IAM – here knowledge must be raised and implementation incentivised. **Solving this is THE KEY NEXT STEP in getting towards a Digital Single Market.**

- **Interface/ Claim Management between Regulated Domain and Market-based solutions is not yet clear.** This is a key prerequisite for future renumeration of costs and profits.
- **Open Source is key to a wide adoption of the CEEDS.** This calls for a more innovative approach to operationalization and business development.
- **In a distributed system with shared control, ensuring a consistent service level is key.** Key EDDIE and INSIEME participants are providing smart solutions to achieve this.
- Nevertheless, it will need **accountable organisations to manage the operation of a dependable CEEDS**.

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