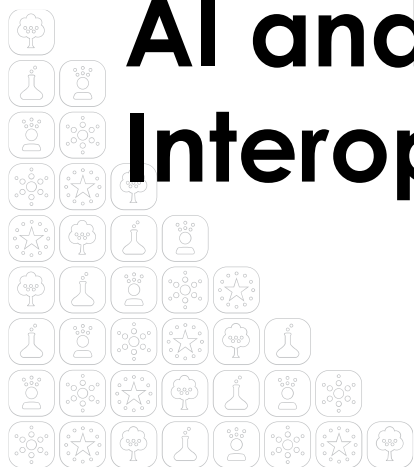




TRANSPORT and SMART CITIES WG MEETING

AI and mobility: Interoperable data and smart e-mobility



SHAPE ERRIN'S 2027 AGENDA

Respond to the annual member survey by **23 October!**

We want to hear about:

- your region's R&I priorities
- activities you'd like to see in our Working Groups
- how we can tailor our support services

Objectives

- Survey results shape network activities, offering maximum value to ERRIN members in 2027
- Gather input on 2027 priorities, topics and activities for the ERRIN Working Groups and Task Forces

In practice

- Each member should submit one input representing their entire regional ecosystem – please consult your stakeholders!
- Inputs will be discussed during strategy workshops and will provide a basis for the annual work plans



AGENDA

10:00	Welcome and set the scene <i>ERRIN Transport and Smart Cities WG leaders</i>
10:10	European policy perspectives on AI-enabled mobility and smart e-mobility <i>Bianca Jitea, DG CONNECT</i> <i>Hadrien Thebault, DG ENER</i>
10:40	POLIS work on the topic and collaboration <i>Zsofia Jakoi, POLIS</i>
10:55	Enabling AI-powered mobility through interoperable data infrastructures <i>Javier Esquillor, Capillar IT, Aragon Region</i>
11:10	Regional and local experience <i>Aragón</i> <i>Stavanger</i>
11:30	Q&A session and interactive discussion
11:50	Updates from the secretariat <i>Gaia Marotta, ERRIN</i>
12:00	Close of the meeting

AI and Mobility: from Interoperable Data to European-scale Deployment

ERRIN Transport & Smart Cities Working Groups | 21 October 2026

Bianca JITEA, Policy Officer

European Commission · DG CONNECT

From interoperable data to European deployment

Turning local innovation into scalable European mobility services

DATA SHARING & INTEROPERABILITY

- Connect mobility actors, modes and territories
- Enable trusted exchange across borders
- Make solutions reusable across ecosystems

EUROPEAN COOPERATION & SCALE

- Build on local and regional innovation
- Replicate successful mobility services
- Support AI, e-mobility and automation

From Data Availability → Interoperability Across Europe

Why interoperability matters to cities and regions

Mobility innovation is local, but its challenges cross borders

Today: fragmented ecosystems

- Data dispersed across operators, modes and territories
- Different standards, access rules and governance
- Difficult to replicate successful local services

Tomorrow: connected ecosystems

- Trusted exchange across public and private actors
- Reusable solutions across cities and regions
- Better foundations for AI, e-mobility and automation

The value is not more data, but better mobility services

EMDS: connecting existing ecosystems, not replacing them

A federated European approach to mobility data sharing

DATA ECOSYSTEMS

Cities & regions
National access points
Mobility operators
Private data spaces

COMMON CAPABILITIES

Discoverability
Interoperability
Trust and access rules
Governance

SERVICES AT SCALE

Multimodal mobility
Smart e-mobility
Logistics
AI-enabled mobility

Technical + semantic + organisational + legal interoperability

From pilots to lasting European capacity

Complementary roles across the EMDS journey

deployEMDS

DEPLOY & LEARN

Real urban and regional use cases

Practical lessons on data sharing

boostEDIC

CONNECT & SCALE

Cross-border cooperation

Interoperability gaps and reusable assets

Mobility & Logistics

Data EDIC

SUSTAIN & GOVERN

Future Member State-led venture

Long-term stewardship and sustainability

From isolated project results to shared capabilities that last

AI-enabled Mobility: linking data and real-world deployment

eCAVA and ADACities make the connection tangible

eCAVA | European ecosystem

Connects industry, Member States, cities and the Commission

Identifies conditions for autonomous mobility at scale

ADACities | Local deployment

Brings cities and industry together

Moves from pilots towards scalable and replicable autonomous services

EMDS can support the trusted data exchange and interoperability needed across deployments

Where regions can create value

Three practical intersections between mobility, data and AI

Smart e-mobility

Charging availability and demand

Links to grids and renewable energy

Cross-sector mobility–energy data

Connected & autonomous mobility

Road and infrastructure information

Traffic management and operational data

Replicable city deployments

Cross-border logistics

Freight and multimodal information

Interoperable national ecosystems

More efficient transport chains

Start with real user needs and measurable benefits

What is Needed from Cities and Regions

Europe's mobility data ecosystem will be built through cooperation

Bring forward concrete needs

Which datasets, services and interoperability gaps block deployment?

Build on existing assets

Connect local platforms and pilots → avoid parallel infrastructures.

Design for reuse

Share lessons, standards and governance models across regions and borders.

Engage in European cooperation

Link regional experience to EMDS, boostEDIC and ADACities opportunities.

Our shared goal: make European mobility innovation interoperable, replicable and scalable

ADACities: an opportunity for cities and regions to engage

From European ambition to local deployment — what you can do next

Engage with ADACities

Build on the Call for Expression of Interest: signal deployment ambitions and connect with European partners. Non-binding process.

Prepare for the Horizon Europe bridging call

Identify concrete deployment use cases and build partnerships ahead of the forthcoming funding opportunity.

EU Survey – matchmaking

Cities and regions: bring your deployment ambitions into ADACities

Thank you!

From local innovation to Connected European Mobility Ecosystems

European Commission · DG CONNECT

Strategic Roadmap for Digitalisation and AI in the Energy Sector

Hadrien Thebault

Policy Officer

DG ENER.B4 – Digitalisation, Competitiveness,
Research & Innovation



- The [Chips Act 2.0](#) to strengthen the semiconductor ecosystem and supply chain resilience, and boost domestic demand
- The [Cloud and AI Development Act \(CADA\)](#) to unlock the potential AI and cloud, to transform our industrial ecosystems and improve societal outcomes
- The [EU Open Source Strategy](#) to reduce dependencies across the entire technology stack
- A [Strategic Roadmap for Digitalisation and AI in Energy](#) to accelerate the rollout of sovereign digital and AI solutions in energy, while keeping risks in check



The Roadmap at a glance: 3 pillars, 7 flagships



PILLAR I

Energy for AI

- 1 Model tripartite agreement for data centres
- 2 EU rating scheme & minimum performance standards for data centres



PILLAR II

Digitalisation & AI for energy

- 3 Smart grid KPIs & faster smart meter rollout
- 4 AI models across the energy value chain



PILLAR III

Data for AI & energy

- 5 EU framework for cross-border energy data exchange & AI training



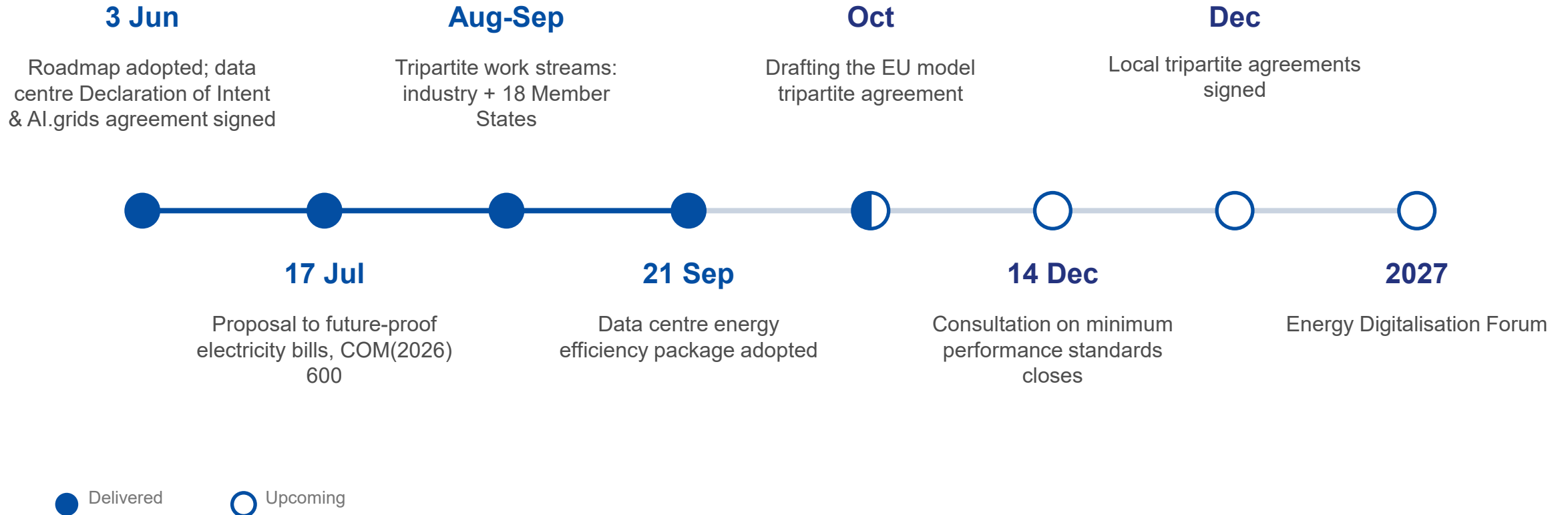
Trust, security, skills & implementation

CROSS-CUTTING

- 6 Safety of AI & cybersecurity of critical devices

- 7 Tracking progress & better energy data

Since June: what has moved



Flagship 1: Tripartite agreements for data centres

● WHY

12 → 28 GW

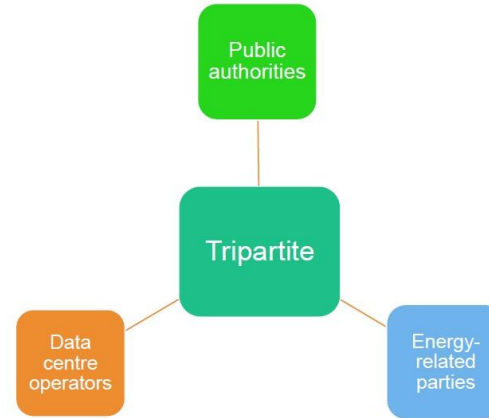
EU data centre capacity, 2025 → 2030 (expected)

~2.5%

of EU electricity consumption today, concentrated in a few hotspots

Connection requests are rising sharply – single sites now ask for capacity comparable to major industrial plants.

● WHAT



A voluntary, replicable model for local agreements between three sides.

- **Phase 1:** EU model agreement (autumn 2026)
- **Phase 2:** localised agreements, tailored to national / regional conditions

● SCOPE OF COMMITMENTS

Additional clean generation & PPAs

Better information for grid planning

Timely grid connections (incl. use-it-or-lose-it)

Flexibility & flexible connection agreements

Waste heat reuse & local value

Energy efficiency & water use

Flagship 1: Where the tripartite work stands



Flagship 2: Data centre energy efficiency package

WHAT WAS ADOPTED ON 21 SEPTEMBER

1

Report to Parliament & Council

Published

COM(2026) 500 – first assessment of the data reported by data centres and ways forward for a more sustainable sector.

2

Delegated Regulation: EU rating scheme

Adopted

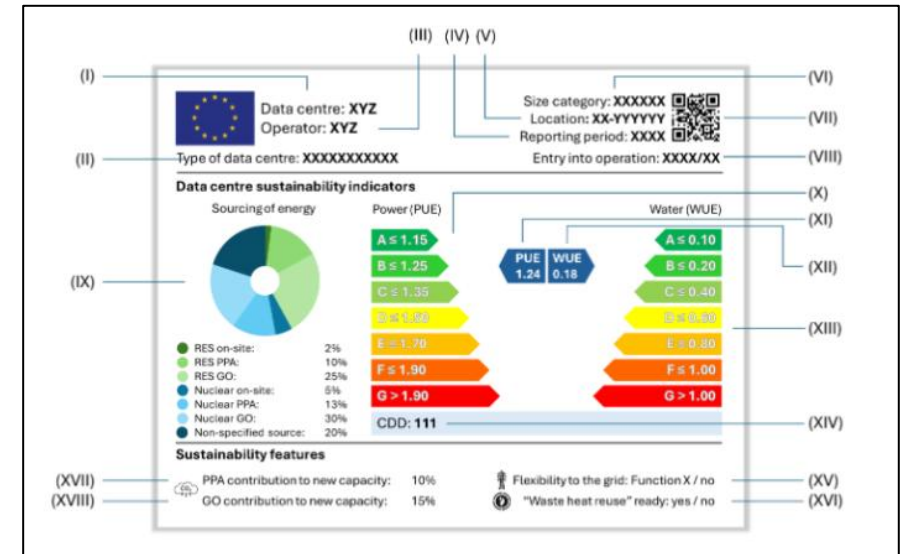
Energy efficiency, water efficiency, clean energy use, waste heat reuse and flexibility. Scrutiny by EP & Council; first labels in 2027.

3

Consultation on minimum performance standards

Open

For new and existing data centres – open until 14 December 2026 (see next slide).



Label template from the Delegated Regulation

Flagship 2: Towards minimum performance standards

● FROM TRANSPARENCY TO REQUIREMENTS

STEP 1

Reporting

Delegated Reg. (EU) 2024/1364 – KPIs into the EU database

STEP 2

Rating

EU rating scheme – adopted 21 Sep 2026, labels from 2027

STEP 3

Minimum standards

Consultation now; needs assessment by 2027

CONSULTATION CLOSES

14 Dec 2026

Public consultation & call for evidence on minimum performance standards for data centres in the EU

Flagship 3: Smart grid KPIs and smart meters

● WHY

€1.2 tn

grid investment needed 2024–2040 (€730 bn distribution, €430 bn transmission)

up to 40%

more network capacity from grid-enhancing technologies

But regulation still favours conventional expansion over smart solutions.

● WHAT THE PROPOSAL COM(2026) 600 DOES

Smart & digital solutions

Art. 18a(1)

Regulators must promote them via tariff incentives (Art. 18) and prioritise them in network development plans.

Smart grid indicators

Art. 18a(2)–(3) · 61(5a)

ACER recommendation, Commission implementing act, ACER progress reports – next slide.

Smart meters

Art. 18b

≥50% of final customers by end-2030, ≥75% by end-2033; cost-benefit assessment only beyond 75%.

Grid data exchange

Art. 18a(4)–(5) · 61(5b)

Mandatory exchange between TSOs and DSOs + voluntary reuse framework for R&I and AI.

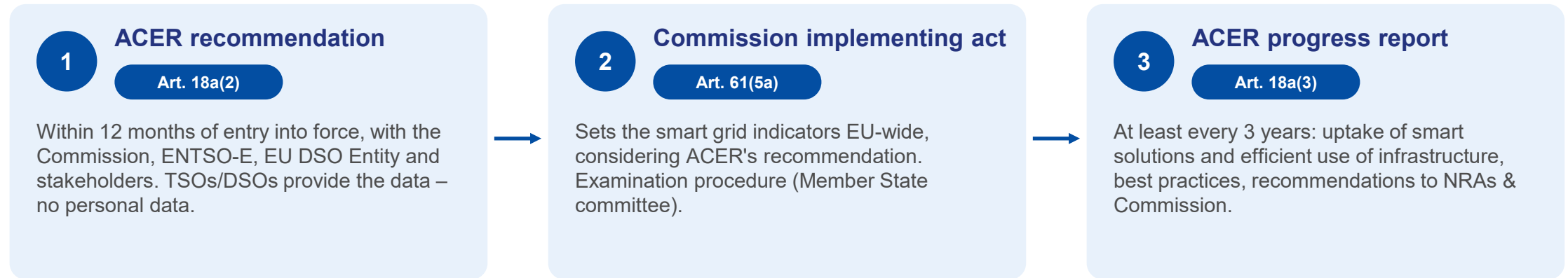


Proposal amending Regulation (EU) 2019/943 – now in co-decision

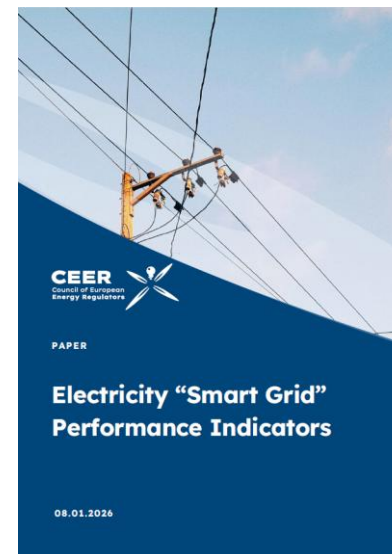
50% → 75%

Art. 18b – minimum coverage per Member State by 2030 → 2033 (one extra year if below 30% today)

Smart grid indicators: how it would work



- ACER and CEER reports – first proposals on smart grid indicators
- Art. 18a(1):** regulators must promote non-wire, smart and digital solutions



Flagship 4: AI.grids – European AI models for grids



Industry-led initiative building the first pan-European AI foundation model for grid operations.

54

organisations signed – grid operators, SMEs, research

20

Transmission and Distribution System Operators

€50 m

Horizon Europe: €30 m (2026) + €20 m (2027)

● MILESTONES

Jun 2026

Agreement signed

Q1 2027

Proof-of-concept models

End 2027

First operational models



Flagship 5: Energy data for smart services and AI

PRIMARY USE

Operational data exchange

- Cross-border interoperability for flexibility & bidirectional EV charging
- Coordinate interoperable national data hubs
- Builds on the Data4Energy / expert-group recommendations of 20 May

Art. 18a(4)

MANDATORY

SECONDARY USE

Pooling for research & AI training

- Trust frameworks for AI in energy
- Regulatory sandboxes & testing facilities
- Legal proposal: incentive for grid operators to cooperate + framework for secondary use

Art. 18a(5)

VOLUNTARY

TIMING

2026: assessment

2027: development of the EU framework

Result: trusted, harmonised energy data →

smart energy services that scale across borders, and AI models (e.g. AI.grids) trained on European data.

Flagship 6: AI safety and cybersecurity

1,500+

cyber-attacks per week on one energy utility in
2024 – 3× 2020 (IEA)

● CYBERSECURITY

Cybersecurity Act revision

ICT supply-chain requirements; basis
to ban high-risk inverters if needed

EU funds

Restricted for projects with inverters
from high-risk suppliers

Systemic risk assessment

Incl. solar installations – 2026

Security of supply review

Incl. cyber risks in critical energy
devices – 2026

● AI SAFETY & TRUST

- European AI energy safety transformation group
- AI regulatory sandboxes with Member States
- Guidance on high-risk AI systems (AI Act)
- Ethics opinion (EGE) on trustworthy AI governance in energy

Flagship 7: Tracking progress, better energy data

Energy Digitalisation Forum

Annual, from 2027

- Review progress on the Roadmap
- Spot regulatory bottlenecks
- Share good practice, address new developments

Better Energy Data initiative

Q4 2026

- Map and address gaps in energy data availability
- More detailed, interoperable, timely and accessible data

Thank you

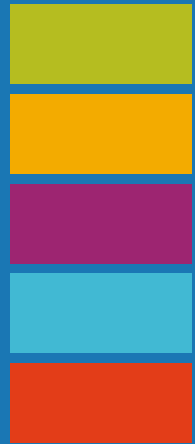


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European Regions Research and Innovation Network



POLIS Introduction

Views and challenges from public authorities

Zsafia Jakoi

Project Manager

Zjakoi@polisnetwork.eu



About POLIS

Peer-to-peer exchange

Policy & Advocacy

Research

Innovation

130 Cities, regions and
related entities

SUSTAINABLE
URBAN
MOBILITY
INNOVATION



NETHERLANDS

Amsterdam
 Arnhem-Nijmegen
 Eindhoven
 Emmen
 Gelderland
 Groningen
 Helmond
 Land van Cuijk
 Limburg
 North Brabant
 North Holland
 Overijssel
 Rotterdam
 South-Holland
 Stedendriehoek
 Súdwest-Fryslân
 The Hague
 Tilburg
 Twente
 Utrecht (City)
 Utrecht (Region)
 Westland
 Zeeland (Province)
 -
 Breda University of Applied Sciences
 CROW Kennisplatform
 Lantis
 Rijkswaterstaat
 Vervoerregio Amsterdam

IRELAND

Cork
 NTA (Dublin)

UNITED KINGDOM

TfGM (Greater Manchester)
 Glasgow
 Greater London
 London – LEPT

LUXEMBOURG

LIST

BELGIUM

Antwerp
 Bruges
 Brussels-Capital
 Flanders
 Ghent
 Hasselt
 Leuven
 Mechelen
 Schaerbeek
 -
 Way To Go
 IMEC
 KU Leuven
 MPACT
 VUB

PORTUGAL

Lisbon
 CIM Douro
 NOVA Cidade

SPAIN

A Coruña
 Barcelona
 Bilbao
 Catalonia
 Gipuzkoa
 Hospitalet de Llobregat
 Madrid
 Vic
 Vitoria-Gasteiz

ITALY

Bologna
 Perugia
 Pisa
 Puglia (Region)
 Ravenna
 Reggio Emilia
 Rome
 -
 Iuav University
 DIIES - University of Reggio Calabria

FRANCE

La Rochelle
 Lille
 Paris
 Ile-de-France Mobilités
 Tisseo (Toulouse)
 -
 CEREMA
 IFP Energies Nouvelles
 Université Gustave Eiffel

SWITZERLAND

SBB

NORWAY

Akershus
 Norwegian Public Roads Administration
 Ruter
 -
 Molde University College
 SINTEF AS
 TOI

SWEDEN

Gothenburg
 Örebro
 Stockholm

RISE
 VTI

FINLAND

Forum Virium (Helsinki)
 Helsinki-Uusimaa
 Turku

GERMANY

Baden-Württemberg
 Berlin
 Dresden
 FrankfurtRheinMain
 Hamburg
 Heidelberg
 Heilbronn
 Karlsruhe
 North Rhine-Westphalia
 Stuttgart
 -

DIFU

POLAND

Czestochowa

CZECH REPUBLIC

Prague

DENMARK

Aarhus
 Aalborg
 Central Denmark

HUNGARY

BKK Budapest

ROMANIA

Arad

BULGARIA

Sofia

CROATIA

Zagreb
 -
 University of Zagreb

SLOVENIA

Ljubljana
 -
 Urban Planning Institute of the Republic of Slovenia

AUSTRIA

Vienna

GREECE

Heraklion
 Thessaloniki
 Region of Crete
 -

CERTH

University of West Attica

CYPRUS

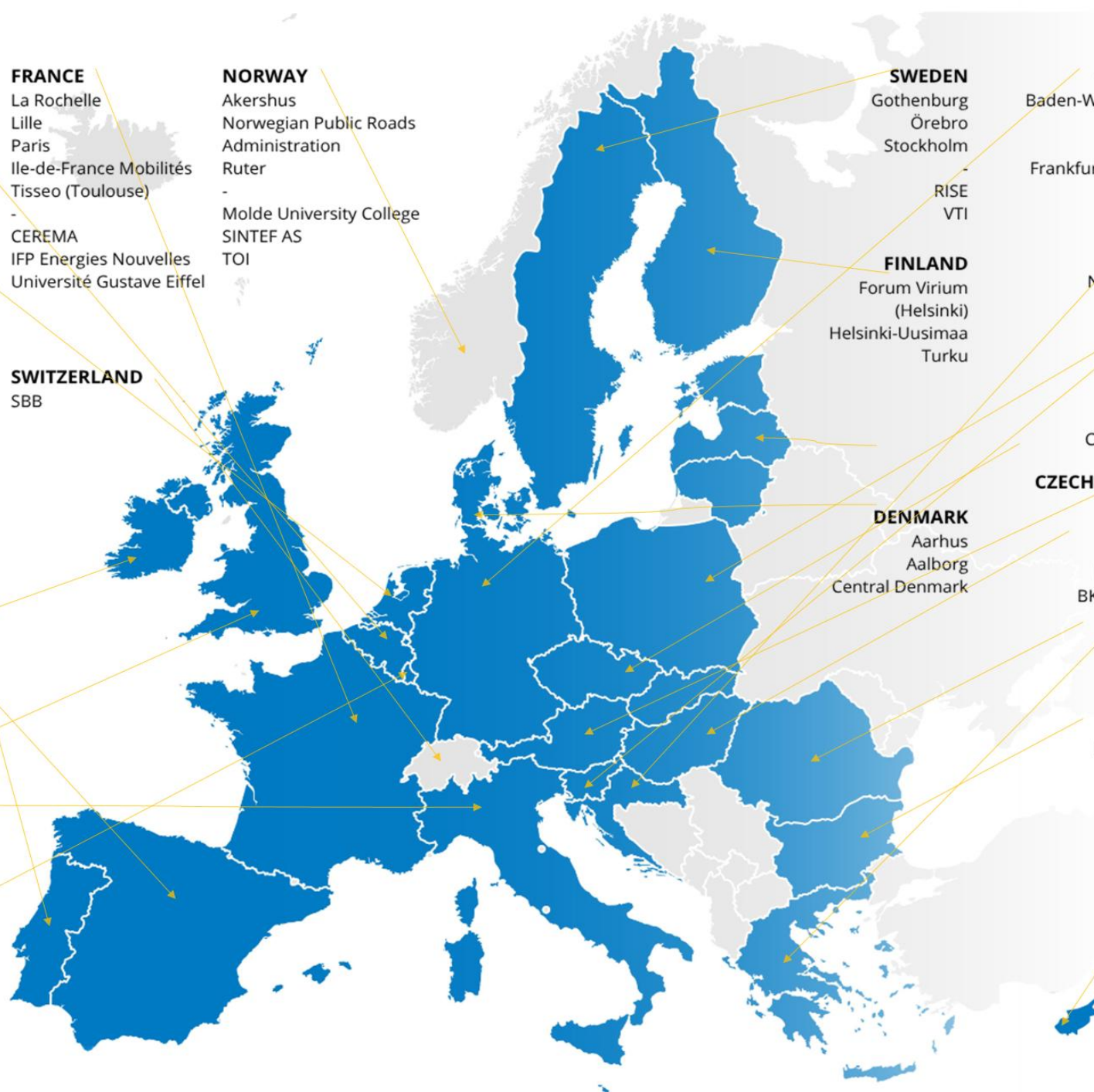
Strovolos

Ukraine

Lviv
 Mariupol
 Uman
 Zviahel

USA

MobilityData
 Open Mobility Foundation



Urban mobility challenges & policy goals



AIR QUALITY



MODAL SHIFT

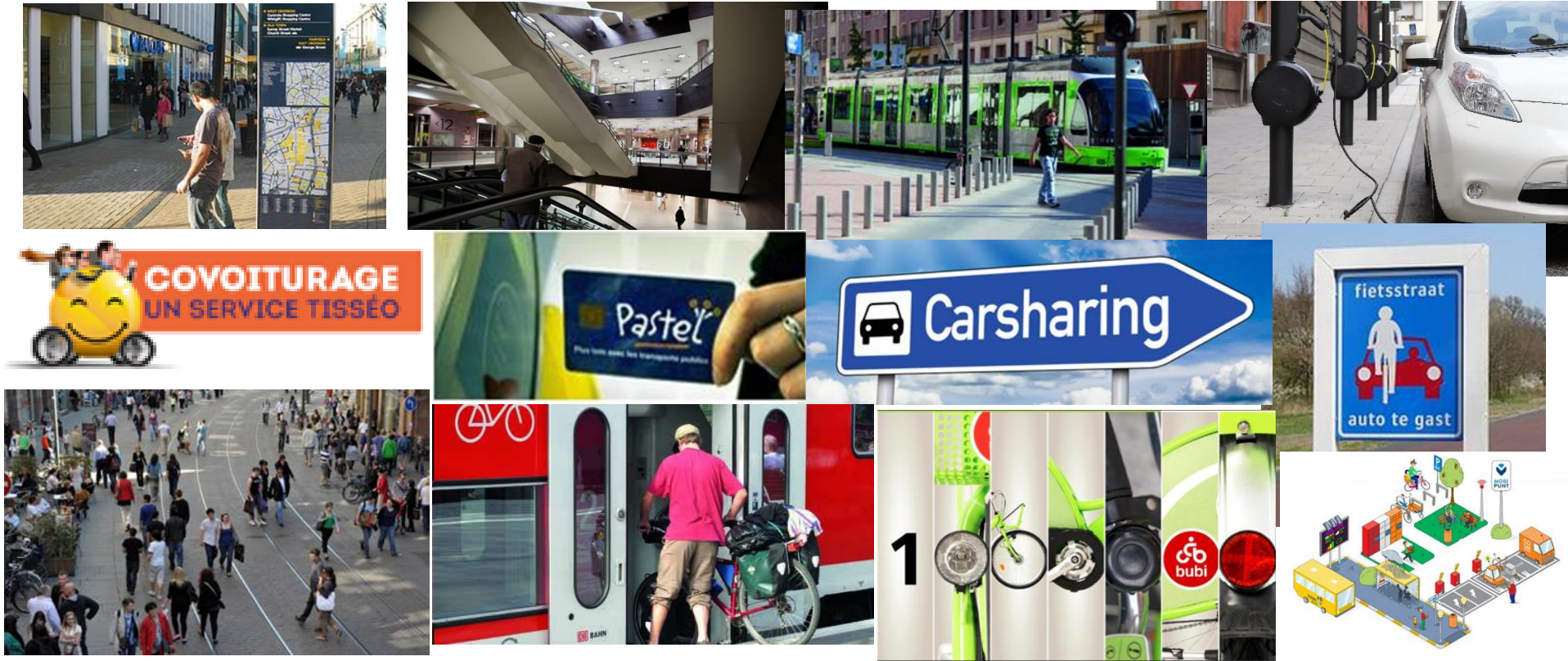


SAFER ROADS



DECARBONISATION

Sustainable Urban Mobility Ecosystem



User wants: Multimodal – Intermodal – Clean – Safe – Flexible – Affordable – Connected – User-centric – Inclusive – Shared – Healthy – Seamless ...

About the Working Group

The **Clean Vehicles & Air Quality Working Group** addresses challenges related to air pollution, noise, and clean mobility.

This year, the priorities of the WG are **compliance with new AAQD** (including non-exhaust emissions and enforcement/detection of high-emitters), **AFIR/EPBD implementation** (EV charging deployment, links with energy, parking, and SUMP) and **procurement of ZE municipal fleets** (both cars/vans and HDVs/buses/coaches)

You can find out more about the Working Group at:

<https://www.polisnetwork.eu/what-we-do/working-groups/clean-vehicles-air-quality/>

Coordinated by



Pedro Gomes
pgomes@polisnetwork.eu

With the support of



Zsófia Jakó
zjakoi@polisnetwork.eu

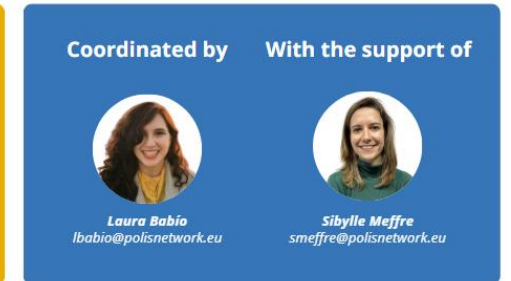
Chaired by

Angel López
Barcelona City Council (ES)



Ajuntament de
Barcelona

Smart Mobility & Traffic Systems



Upcoming priority topics

- **Multimodal traffic** and **network management**
- **Digitising transport infrastructure** and **regulations**
- **Data provision** in urban and regional areas
- **Connected, Cooperative and Automated Mobility**
- **Connectivity** and **C-ITS** as enablers of safer, more efficient, and sustainable urban mobility

AFIR & data requirements

AFIR Article 20: *By 14 April 2025, operators of publicly accessible recharging points and refuelling points for alternative fuels (...) shall ensure the availability of static data and dynamic data concerning alternative fuels infrastructure operated by them (...) at no cost.*

Commission Implementing Regulation (EU) 2025/655 of 2 April 2025

Adherence to DATEX II Specifications

Commission Delegated Regulation (EU) 2025/645 of 1 April 2025

Common technical requirements for a common API

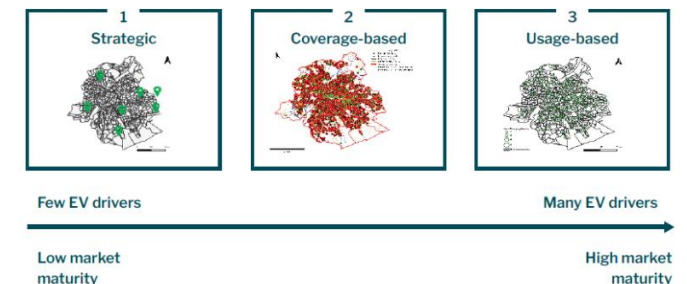
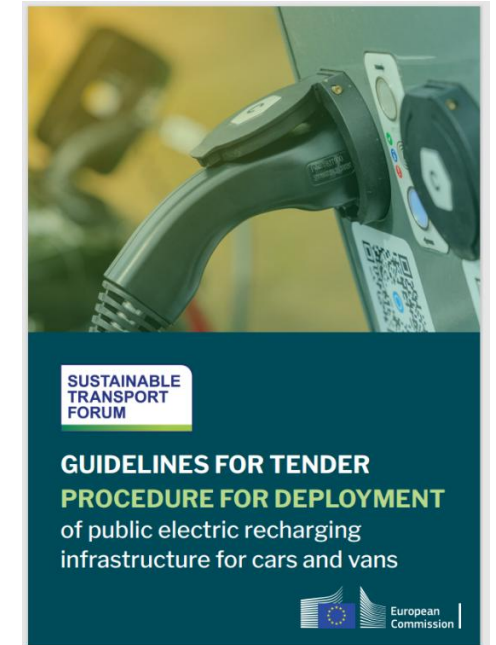
Commission Delegated Regulation (EU) 2025/671 of 2 April 2025

Additional data types

Opportunities from AF data

Data on AF infrastructure plays a crucial role:

- AFIR establishes that **data** (static and dynamic) should be **accessible** in a coherent manner in all MS
- AFIR data relevant to ensure that **end users** can make **fully informed decisions** on the recharging and refuelling of their vehicles
- But also, for **local and regional authorities** to properly **plan their investments** in recharging networks (from user-driven to data-driven approaches) and MS to produce **robust and realistic NPF**
- Improved **levels of service** for EV drivers and **integration** between electromobility, parking and urban planning policies (including **SUMPs**)
- **Integrated** with other types of data (RTTI, MMTIS...) it contributes to a sustainable urban mobility ecosystem



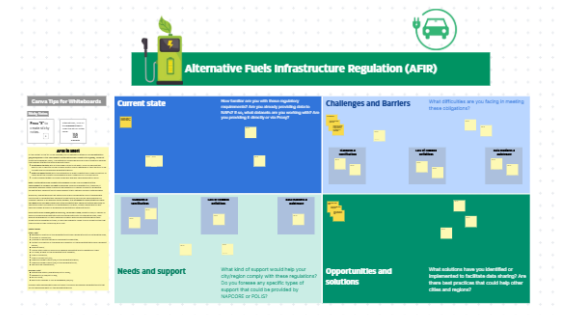
Local and regional authorities views on AFIR & data

Challenges

- Lack of awareness from LRAs on AFIR data requirements, and how cities can benefit (some are CPOs...)
- No clear “ownership” of competencies (EV recharging people ≠ data people)
- Lack of common legal governance (lack of clarity about the role of PAs vs NAPs vs CEAP/EAFO...)
- Roaming and payment services not governed throughout Europe, not even on a national level

Opportunities

- Positive impacts on the CPOs (interestingly, PAs not mentioned...)
- Increase in recharging point usage rate by sharing data (viability of business models, adoption of EVs...)
- Raise awareness and knowledge about the CPOs (and network coverage?)



Local and regional authorities' needs on AFIR & data

- **Increased know-how** and support to implement the EU legislation including best practice sharing
- Avoid a **two-speed** Europe when it comes to data collection, usage and sharing
- **Breaking of silos** between the electromobility people and the data sharing people
- **Financial support** to enable data collection and usage (and compliance with EU regulations)
- More dialogue structures between the different levels – can NAPCORE play a role in facilitating this?
- Comon **data standards** and **good, easy to use** data
- **Clarity** on **CEAP** and how it can support local data sharing (and the NAPs)
- **Fair** and proportionate **data exchange** between PAs and private stakeholders



Cooperation NAPCORE - POLIS



**Balancing parking,
EV charging, and
energy management**

29-30 SEPTEMBER 2026
LILLE, FRANCE

POLIS
CITIES AND REGIONS FOR TRANSPORT INNOVATION

POLIS-NAPCORE Workshop: Increasing mobility data sharing in European cities

20 October 2026
2:00 PM - 4:30 PM
Online

POLIS
CITIES AND REGIONS FOR TRANSPORT INNOVATION





About POLIS

POLIS is the network of European cities and regions working together to deploy innovative solutions for a more sustainable mobility.

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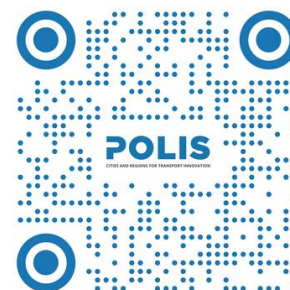
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www.polisnetwork.eu





Javier Esquillor, Capillar IT



Digitalisation as an Investment Journey for Citizen-Centric Regional Development

Francisco Vigalondo – Aragon Innovation Office – Government of Aragon

Brussels, 21 October 2026

What are the most meaningful lessons learnt within Aragon's digital policy that can be applied to what we have heard here?

- Aragon big ambition: building a Territorial Digital Twin => but also a little idea on how to do that.
- Main EJ insight: creating a region that learns faster, anticipate better and makes more informed decisions in the collective interest.

One idea would like to bring here: the concept of Public Intelligence.

- Technology alone does not transform a region. What transform a region is the ability to use data and digital tools to make better decisions ALL TOGETHER: citizens, institutions, business and researchers ("Penta-Helix approach).
- Digital infrastructure and AI are essential enablers, but citizen-centric regional development ultimately depends on our collective capacity to understand challenges, make informed decisions and act together.

From Fragmented Resilience to Public Intelligence

Resilience is no longer sector-specific and requires:

- **Integrated public capabilities** governing complex interdependencies
- **Collective societal capabilities** to respond to interconnected risks.



Emerging European Challenges

BUILDING INTERREGIONAL VALUE CHAINS: FROM DIGITAL TRANSFORMATION TO INVESTMENT READINESS*Methodology:*

- **Theory of Change:** Weiss, C. H. (1995). "Nothing as Practical as Good Theory: Exploring Theory-Based Evaluation for Comprehensive Community Initiatives for Children and Families." In *New Approaches to Evaluating Community Initiatives*. For an up-to-date treatment of Theory of Change in the EU context, see Janssen, M., Miedzinski, M., & Vankan, A. (2025). *Theory-based Evaluation of Transformative Innovation Policies*.
- **Market-Shaping State framework, (Mazzucato) :** Mazzucato, M. and Kattel, R. (2026). *Market-Shaping States: A new theory of public sector capacities and capabilities*. UCL Institute for Innovation and Public Purpose, Working Paper Series (IIPP WP 2026-03). ISSN 2635-0122. Available at: <https://www.ucl.ac.uk/bartlett/publications/2026/jan/market-shaping-states-newtheory-public-sector-capacities-and-capabilities>.
- **Digital Public Infrastructure (Mazzucato, Eaves & Vasconcellos):** Mariana Mazzucato, David Eaves & Beatriz Vasconcellos (2026) *Digital public infrastructure and the economics of public value: what is 'public' about DPI?* *Journal of Economic Policy Reform*, 29:2, 113-141, DOI: 10.1080/17487870.2026.2662285. Available at: <https://doi.org/10.1080/17487870.2026.2662285>

GLOBAL INVESTMENT TRENDS REINFORCE PUBLIC STRATEGIC CHOICES FOR INNOVATION

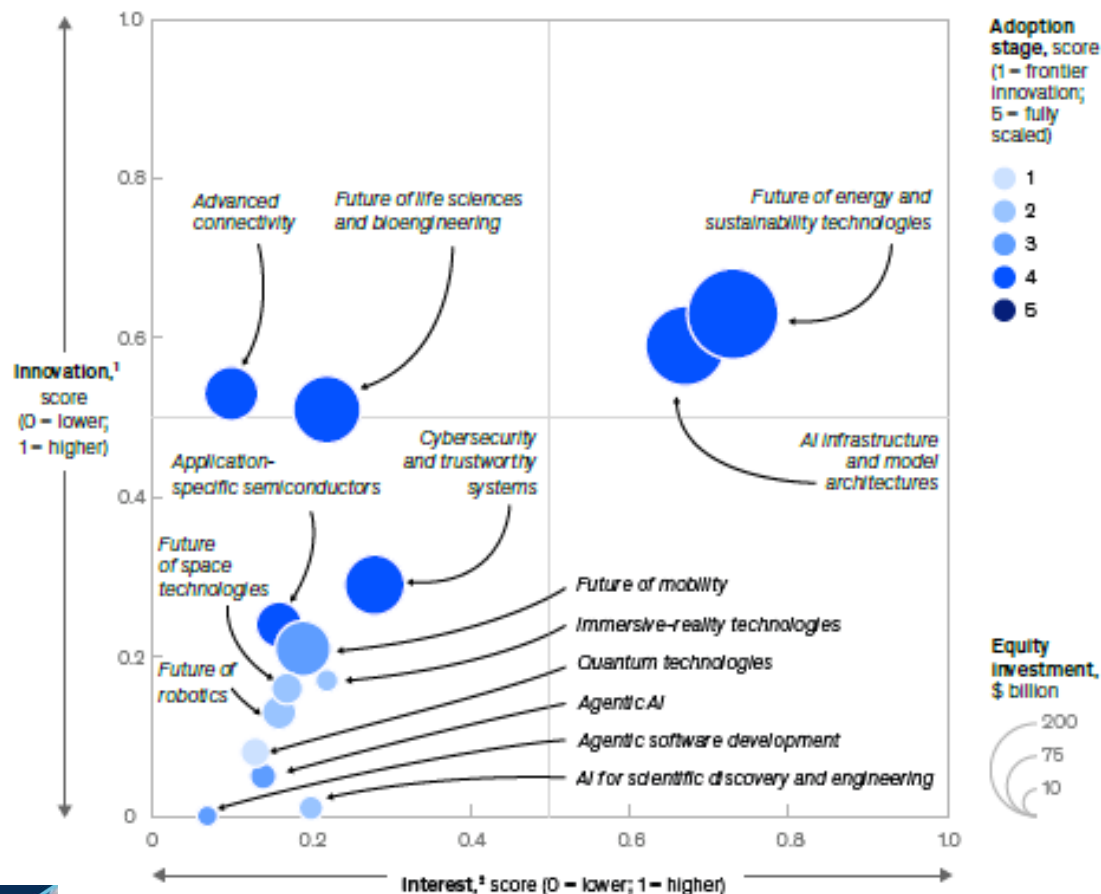


Europe's potential zone of AI sovereignty is narrow. Its frontier labs cannot at present compete financially with their American and Chinese competitors, and leading-edge chip production is far behind. But data is the one area where Europe can still be sovereign, and it is also the area with the greatest potential to generate growth.

The continent sits on a wealth of public-sector data, such as decades of health records and data collection by statistical offices. Its highly automated manufacturing sector generates a deep well of machine-readable industrial information. [European Commission estimates](#) put Europe's data economy at over €800bn, or more than 5 per cent of GDP, by 2030.



Innovation, interest, investment, and adoption, by technology trend, 2025



Each technology trend is scored based on its level of innovation, interest, equity investment, and adoption.

Note: Innovation and interest scores for the 14 trends are relative to one another. All 14 trends exhibit high levels of innovation and interest compared with other topics and are also attracting significant investment.

¹The innovation score combines the 0-1 scores for patents and research, which are relative to the trends studied. The patents score is based on a measure of patent filings, and the research score is based on a measure of research publications.

²The interest score combines the 0-1 scores for news and searches, which are relative to the trends studied. The news score is based on a measure of news publications, and the searches score is based on a measure of search engine queries.

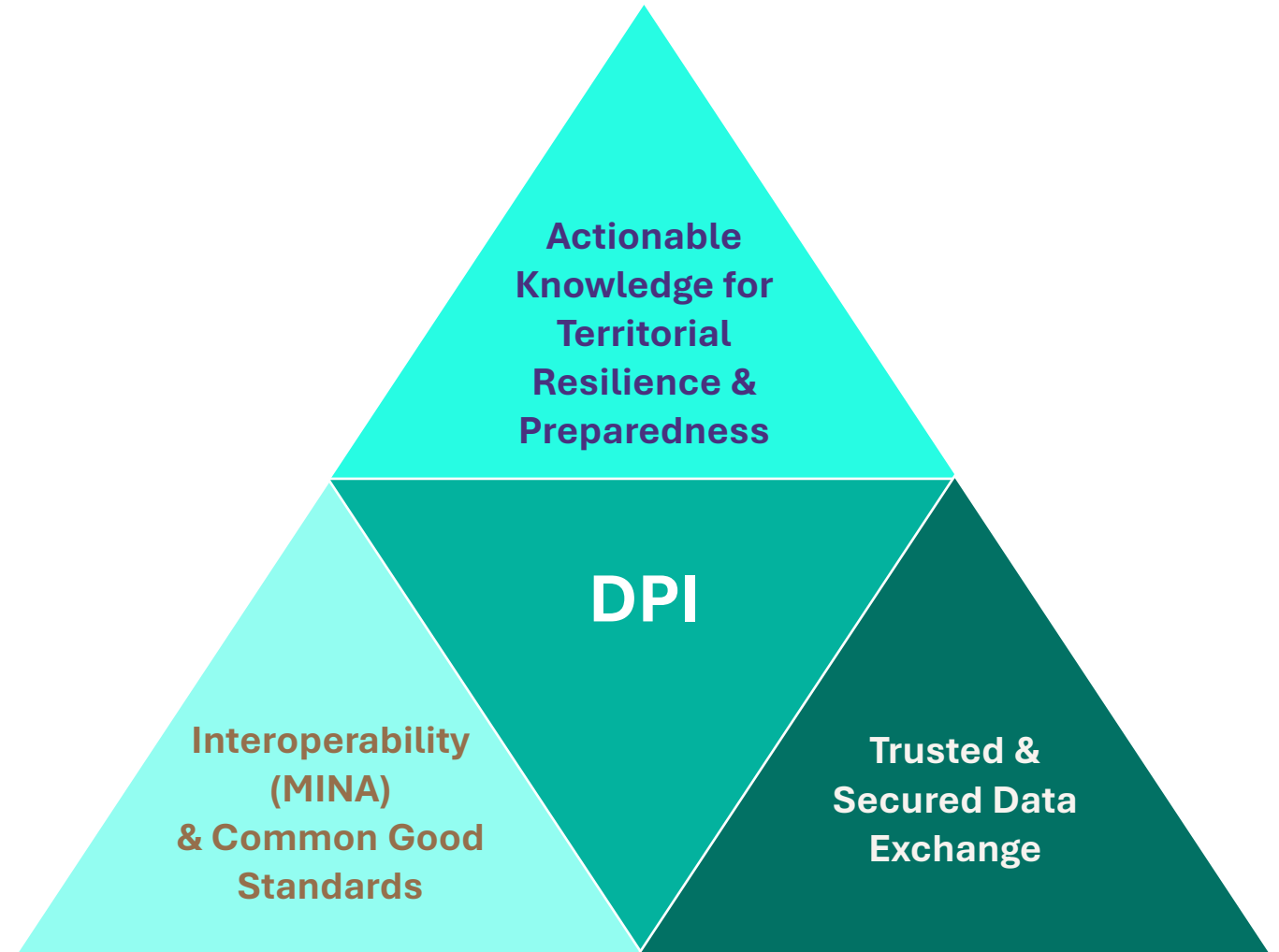
McKinsey & Company

'This phase of the energy transition is much more of a balance between inventing entirely new technologies and more about deploying them at scale, balancing affordability, resilience, and emissions. Grid capacity, transmission, storage, and interconnection are becoming the constraints that determine how quickly reliable, low-emission energy can be delivered. Behind-the-meter generation and management of energy are increasingly in focus. The leaders will be those who execute across technology, infrastructure, and policy at the same time.' – Mark Patel, senior partner, Bay Area (p. 133)



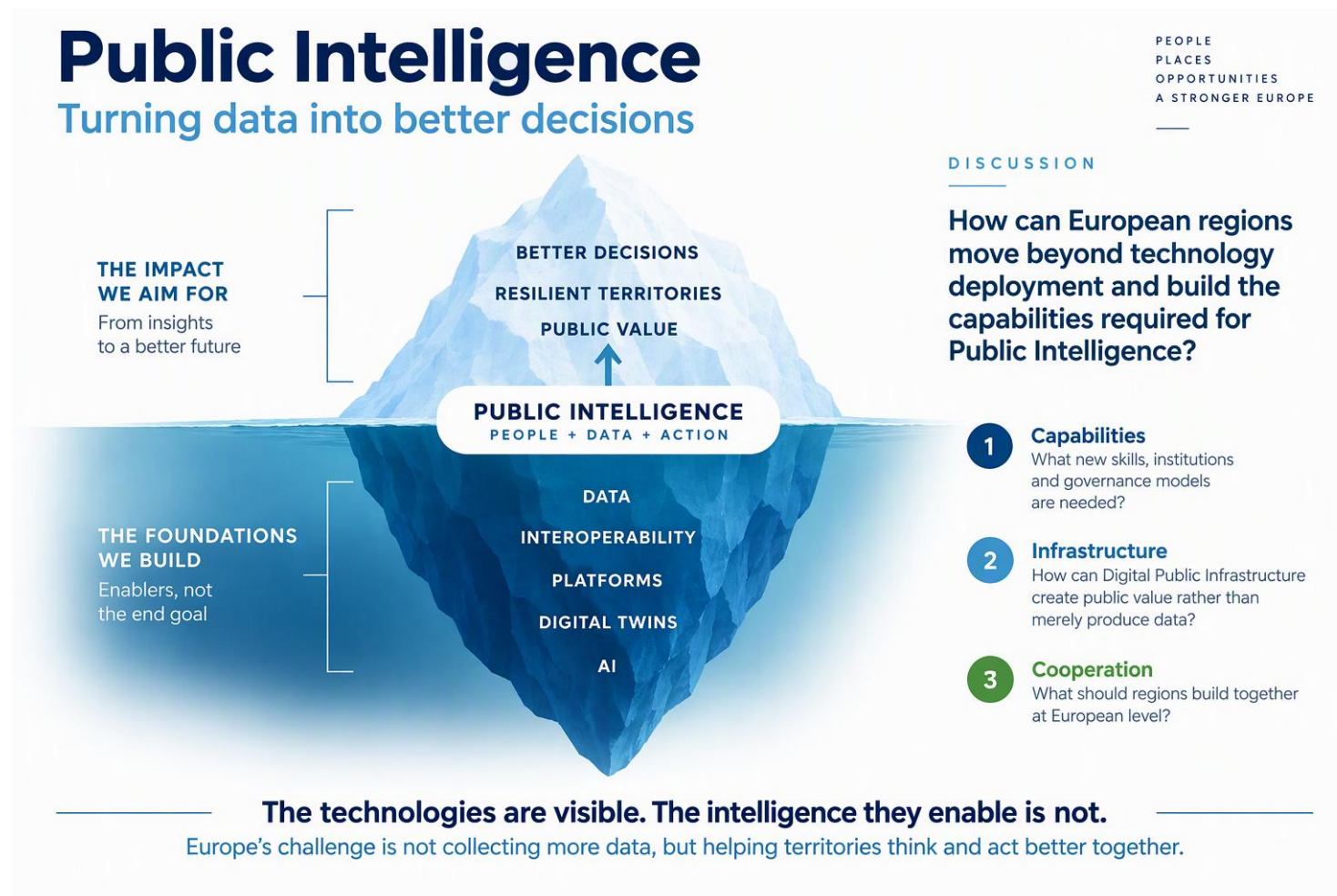
“Digital Public Infrastructure” enabling Public Intelligence

DPI should not be treated as neutral technology or merely as an efficiency-enhancing public good: their public character depends on explicit public values and governance oriented toward the common good.



Discussion:

- What should no European region have to build alone?
- Which common digital assets should ERRIN regions develop and govern together?
- How can ERRIN become a catalyst for Public Intelligence across Europe?





local example from Stavanger

Bjørnar Michaelsen

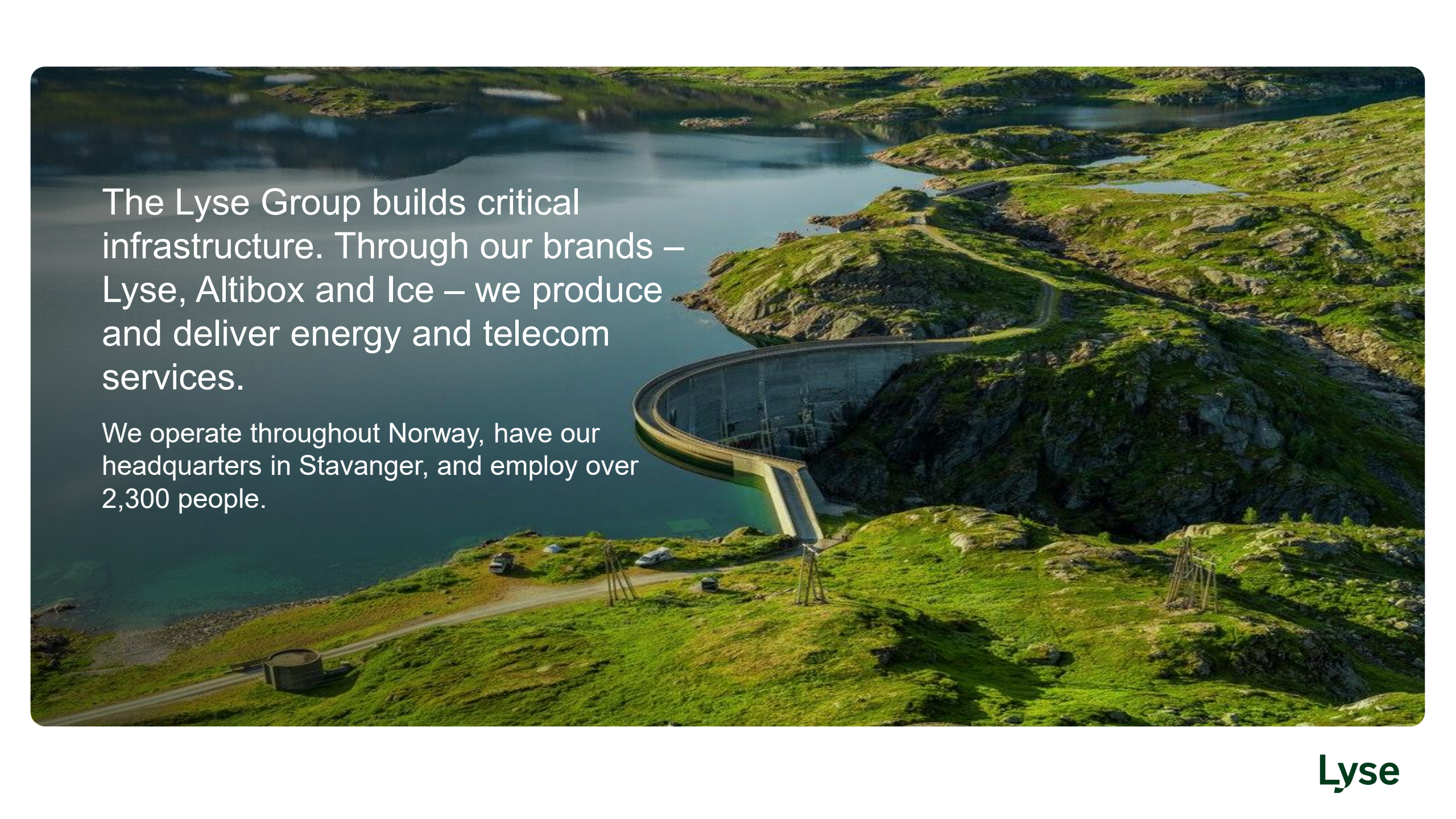


Lyse Agon

AI-Powered Charging for Electric Trucks

Lyse

Lyse is a Norwegian energy and telecom group, and has contributed to sustainable growth and community building for over 100 years

An aerial photograph of a large, curved concrete dam situated in a rugged, mountainous landscape. The dam is surrounded by lush green grass and rocky terrain. Behind the dam is a large reservoir of water. In the foreground, there are several small structures and a dirt road. The overall scene is a mix of natural beauty and industrial infrastructure.

The Lyse Group builds critical infrastructure. Through our brands – Lyse, Altibox and Ice – we produce and deliver energy and telecom services.

We operate throughout Norway, have our headquarters in Stavanger, and employ over 2,300 people.



Stavanger
45,753 %



Sandnes
19,531 %



Sola
8,741 %



Time
5,832 %



Klepp
4,229 %



Hå
3,785 %



Randaberg
3,279 %



Eigersund
2,951 %



Strand
2,532 %



Hjelmeland
0,994 %



Gjesdal
0,993 %



Lund
0,713 %



Bjerkreim
0,512 %



Sirdal
0,117 %



Suldal
0,117 %

Lyse in 2025



2 410 (+147)
Employees (permanent and temporary)



EUR
2.6bn.
revenue

Renewable energy

Hydro and
windpower



10,2 TWh

Average production

10,1 TWh (+0.6)

Production



119 000 (- 2000)

Electricity customers

Telecom

601 000 (+32 000)

Fiber customers

939 000 customers in the Altibox-partnership
(+32 472)

1 050 000 (+70 250)

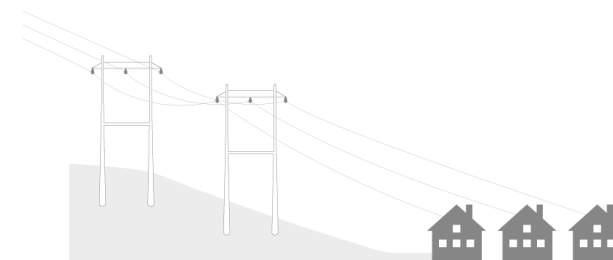
mobile customers

40 500 (-5 000) mobile broadband customers

Infrastructure og sirkular energy

167 300 (+1 550)

Power grid customers



Lyse

* Numbers in parentheses indicate changes from 2023.

Our mission

***We undertake the significant tasks
of electrification
and digitization***

And

**We shape a greener society and create
digital opportunities**

Lyse

Lyse Agon



Professional supplier of shorepower and electrification services.



Full-service provider of engineering, construction and operation of fast charging – specialising in heavy transport.



Engineering, construction and operation of battery systems.



Expertise in digitalisation, electrification and AI.



Our Journey into Heavy-Duty Charging

From the Elnett21 project to heavy-duty charging

Started as part of the Elnett21 project

Supporting a key player's transition to electric trucks

Close dialogue with our planned regular customers



~2%

of all electric trucks in Norway are operated by our biggest customer

Our charging hub

Exclusively for heavy-duty transport

16

charging points for heavy-duty vehicles

2.8 MW

total installed capacity

Supported by an AI-driven battery installation

Equipped with our own booking solution

Bookings secured for the next three years



Megalading

Smart booking for EV charging

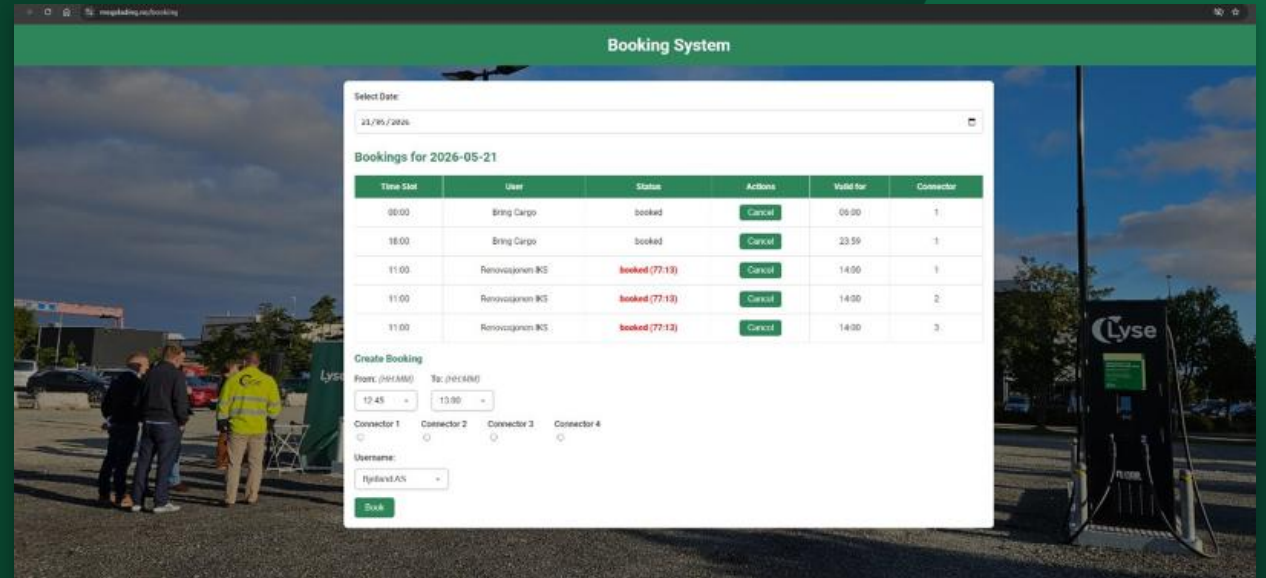
Enables **connector-level booking** at our charging hub

Makes charging more **predictable** for our customers

About half of all charging sessions are pre-booked

Booking data is sent to the connected battery system for **optimal control**

Overall, the booking solution simplifies everyday operations for all our customers, improves grid utilisation and optimises battery use



Lyse

Autonomous business operation – end to end

HAWK

Hazard & Anomaly Watch Kernel

- Checks the health status of installed equipment (event monitoring)
- "Self-healing" algorithms – fix faults automatically
- Anomaly detection attempts to detect any abnormal events in the grid
- Fault correlations – checks whether several faults belong to the same geographical area
- Detects the need for preventive maintenance.
- **Assesses whether there is a basis for a field assignment.**



WASP

Work Assignment & SLA Prioritization

Builds WOs and verifies order data against asset management:

- Classifies and prioritises orders
- SLA hours (time until field work must begin)
- Checklists
- Declarations of conformity

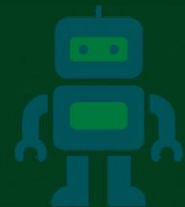


RSO

Resource Scheduling Optimization

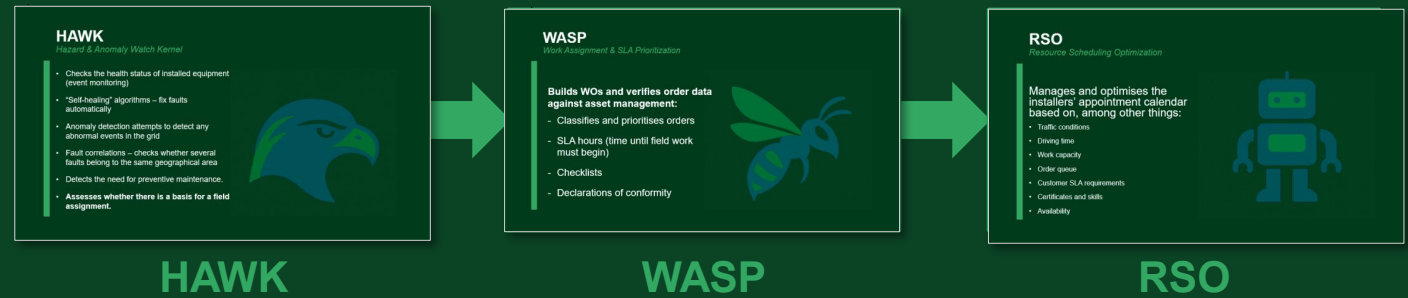
Manages and optimises the installers' appointment calendar based on, among other things:

- Traffic conditions
- Driving time
- Work capacity
- Order queue
- Customer SLA requirements
- Certificates and skills
- Availability



Autonomous business operation – end to end

- The health status of the charging facility network is **monitored** digitally and any need for actions is decided.
- Work orders are built and **prioritised** digitally.
- Installers' workdays are **planned**, managed and optimised digitally.
- Orders are **executed** and documented digitally.



ORBIT

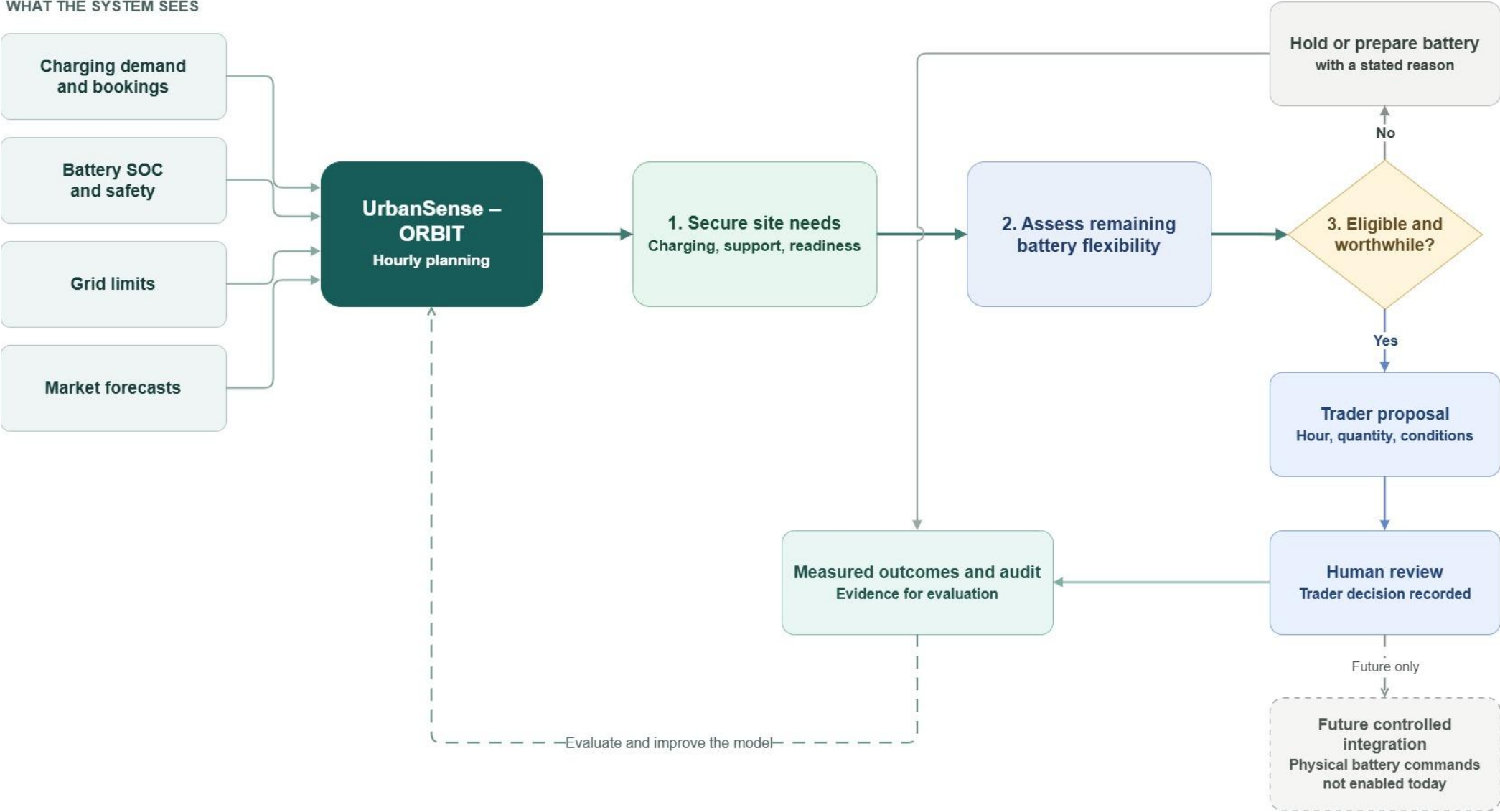
Optimization & Resource Balancing for Infrastructure Trading

Lyse

UrbanSense – ORBIT | From site needs to defensible energy decisions

What ORBIT does today: creates an hourly advisory, explains constraints, and separates trader decisions from physical execution.

WHAT THE SYSTEM SEES



The background is a dark green color with several curved, overlapping shapes in lighter shades of green, creating a modern, abstract design. The word "Lyse" is centered in the upper half of the image.

Lyse

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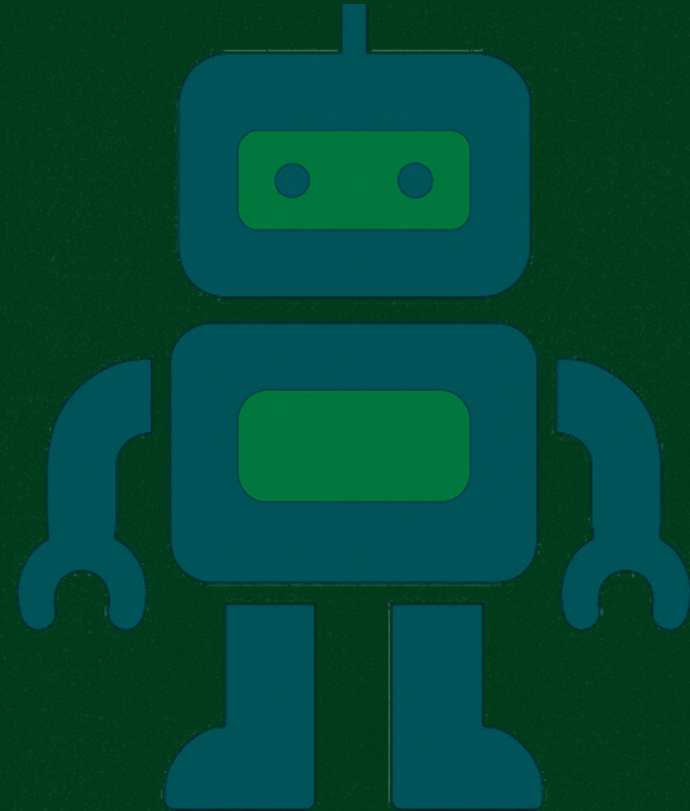


RSO

Resource Scheduling Optimization

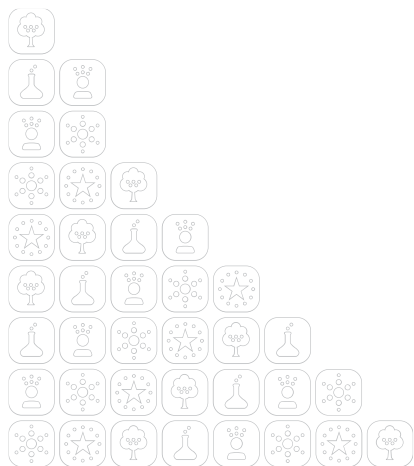
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Q&A



SHAPE ERRIN'S 2027 AGENDA

Respond to the annual member survey by **23 October!**

We want to hear about:

- your region's R&I priorities
- activities you'd like to see in our Working Groups
- how we can tailor our support services

Objectives

- Survey results shape network activities, offering maximum value to ERRIN members in 2027
- Gather input on 2027 priorities, topics and activities for the ERRIN Working Groups and Task Forces

In practice

- Each member should submit one input representing their entire regional ecosystem – please consult your stakeholders!
- Inputs will be discussed during strategy workshops and will provide a basis for the annual work plans

