



This slide deck contains the presentations from 1st Miles event on energy, innovation, and great beers on May 8th, 2026.

Altogether, approx. 100 personally invited customers, stakeholders, and friends of the house enjoyed the afternoon.

Pictures and more information is available at [1st Miles web site](#).

301,425,939 DKK

The amount 1st Mile has raised for projects the past two years.

Today's program

MESSAGES

04

- 01** The entrepreneurial journey of Gamma Brewing Company - from hobby project to microbrewery and bar.
Jakob Houmøller · Co-founder & CEO, Gamma Brewing Company
- 02** What drives a transformation.
Søren Houmøller · CEO, 1st Mile
- 03** The energy system today.
Prof. Jacob Østergaard · Head of Division, Power & Energy Systems, DTU
- 04** Soft and hard funding for new green technologies.
Maria Battistel · Scientific Lead, 1st Mile

PITCHES

06

- 01** How graphite from the Amitsoq deposit in Greenland will disrupt the global value chain for lithium-ion batteries.
Stefan Bernstein · CEO, GreenRoc Strategic Materials
- 02** Digging gold in Australia using Danish energy storage technology.
Henrik Pranov · CEO, Heliac & Heliac Australia
- 03** Change the fuel, not the engine – from one drop to one million tons of biocrude.
Anders Kristoffersen · COO, Kvasir Technologies
- 04** Ultra-pure Float Zone silicon for semiconductors in the green transition.
Sune Bro Dunn · CTO, Topsil GlobalWafers
- 05** Preserving privacy while unlocking critical energy data.
Lesia Mitridati · Assistant Professor, Wind & Energy Systems, DTU
- 06** What everyone else got wrong with small-scale wind turbines.
Andreas Oxholm · Founder & CEO, KiteX



· F R I D A Y 8 M A Y 2 0 2 6

What drives a *transformation?*

Patterns from history. Lessons for the energy transition.



STORY ONE · c. 1450

The Caravelle



*A new ship
for new horizons*

*Lighter.
Faster.
Windward-capable.*

STORY ONE

A vessel + a way to find your way



THE CARAVELLE

+



THE COMPASS

STORY ONE

Invention. Application. Adoption.

01 • INVENTION



Compass + Caravelle

02 • APPLICATION



Navigation + Ocean Travel

03 • ADOPTION



Global trade

STORY ONE

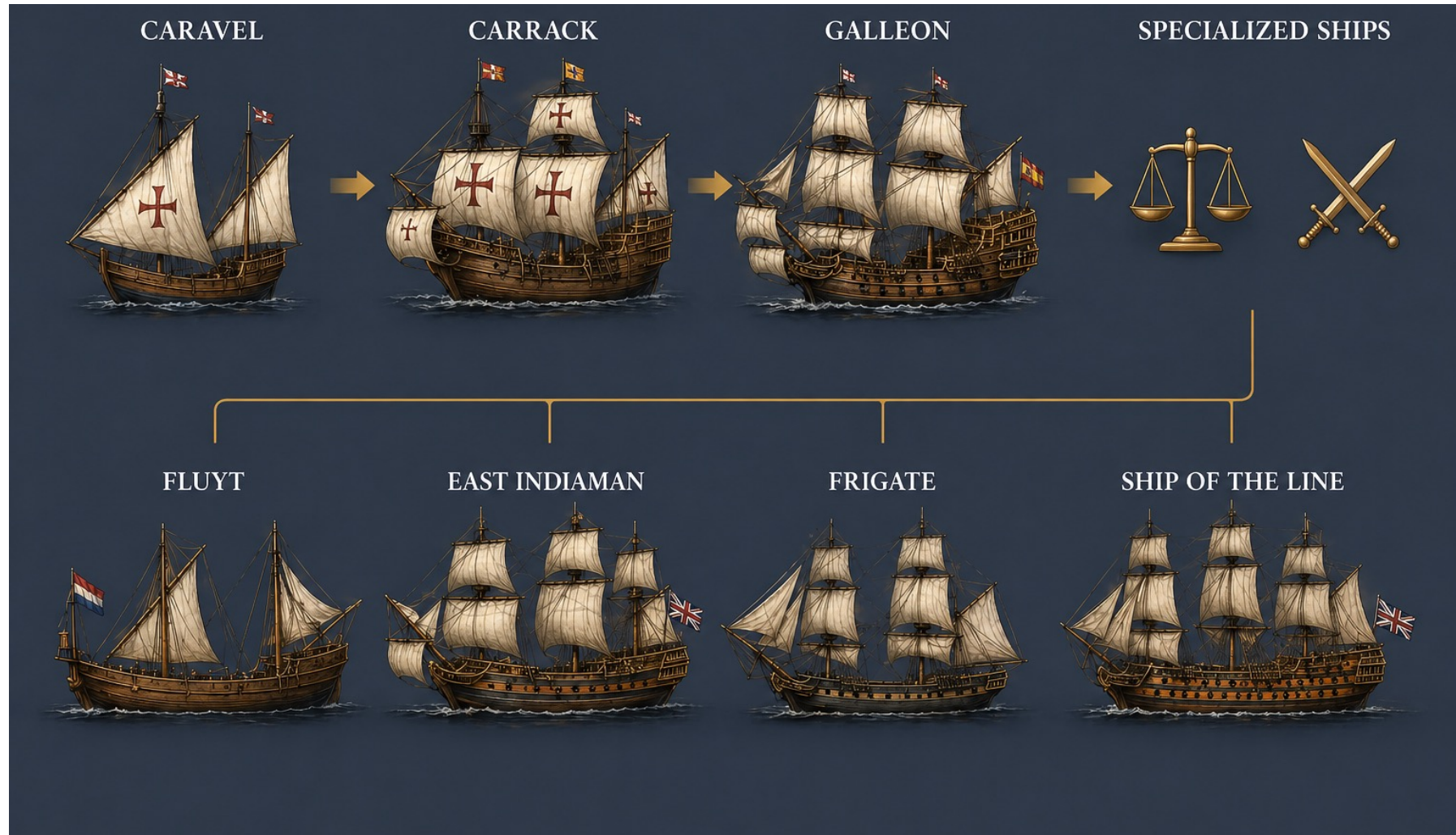
What does it take to drive such innovation?



These four show up when a technology breaks through

But breakthrough is not the same as scale

Ship design evolved with the need



STORY ONE

And what makes innovation scale?

PRIMARY DRIVERS



SCALING DRIVERS



Four drivers can create the breakthrough. Five more determine whether it scales.

Raising water with fire

“

A new invention for raiseing of water and occasioning motion to all sorts of mill-work by the impellent force of fire.

THOMAS SAVERY · ENGLISH PATENT · 1698



STORY TWO

1. Giovanni Branca
1629



2. Marquis of Worcester
1663



3. Denis Papin
1663



4. Savery's Miners Friend
1698



5. Thomas Newcomen
1712



6. Thomas Newcomen
1715 (improved)



7. Jacob Leupold
1720



8. John Calles
1725



9. John Cally
1725



10. John Theophilus
Desaguliers
1727



11. John Smeaton
1733



12. Jonathan Hornblower
1735



13. John Hadley
1739



14. William Murdock
1760



15. Matthew Boulton
1763



16. Nicolas Joseph Cugnot
1769



17. Symington Brothers
1776



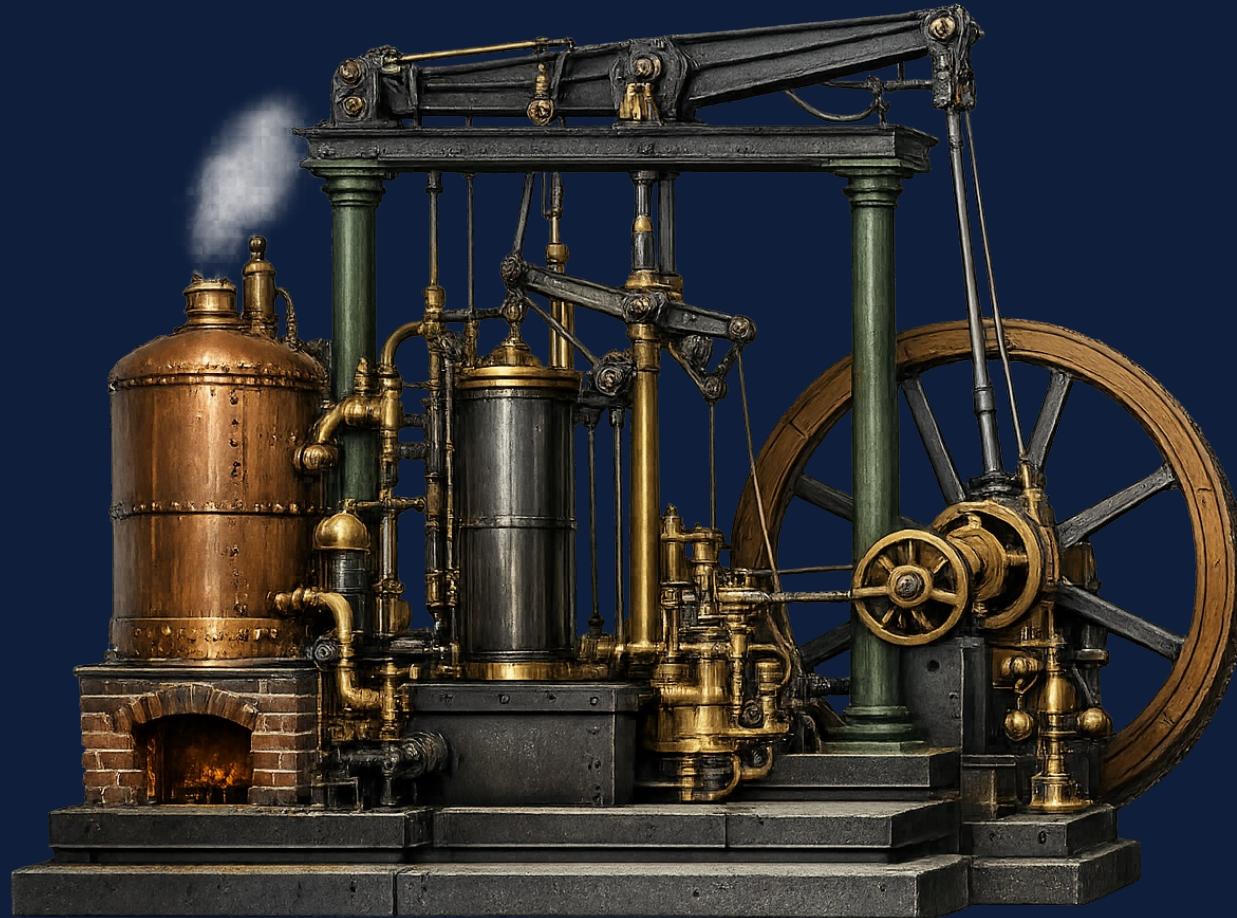
18. James Pickard
1780



STORY TWO · 1769

Then came Watt

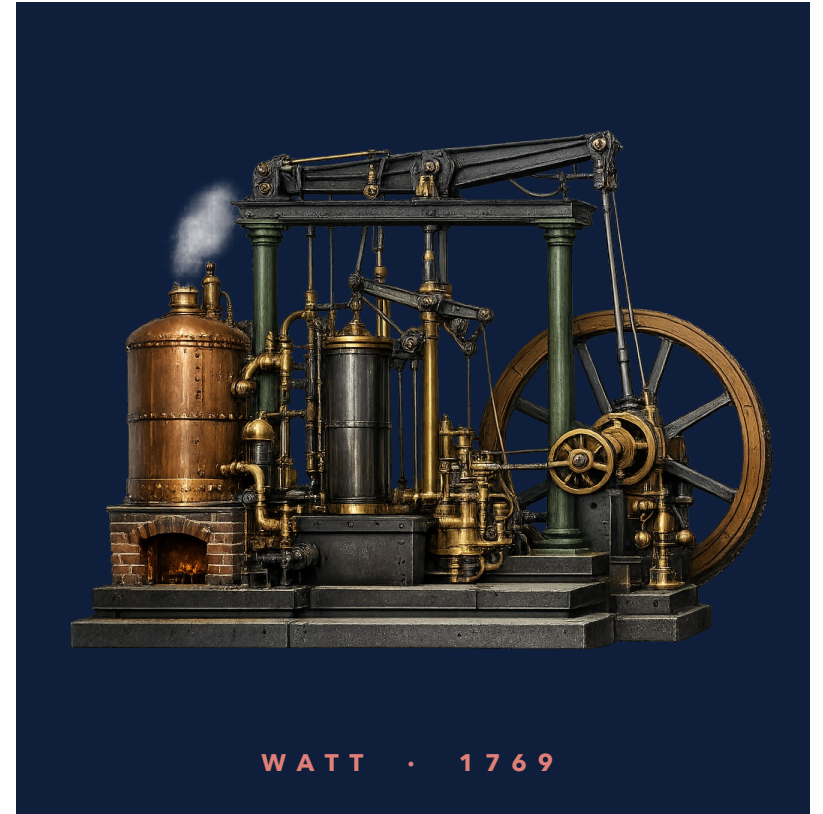
*Same problem.
A different machine.*



*Separate condenser.
A workable engine.*

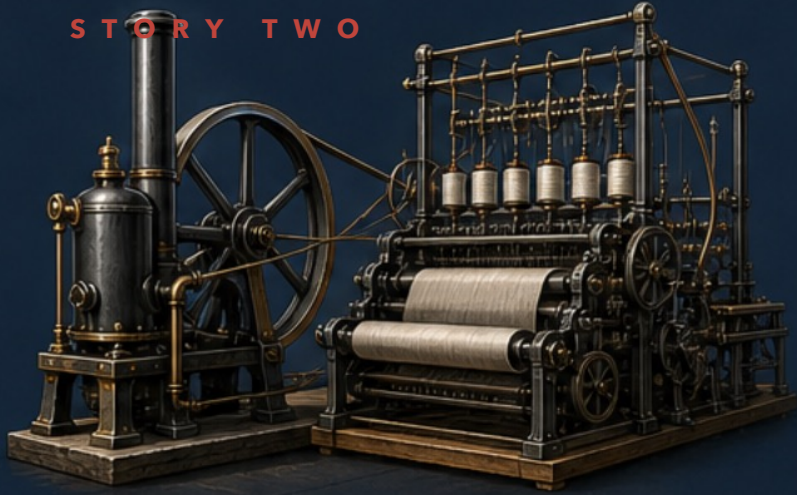
Why did Watt's steam engine win?

- 01** Rotary motion
Useful work, continuously.
- 02** Double-acting
Power on the up-stroke and the down-stroke.
- 03** Piston sealing
Tight tolerances kept the steam in.
- 04** Boulton partnership
Capital, factory, and a route to market.
- 05** The horsepower
A unit customers could buy and compare.

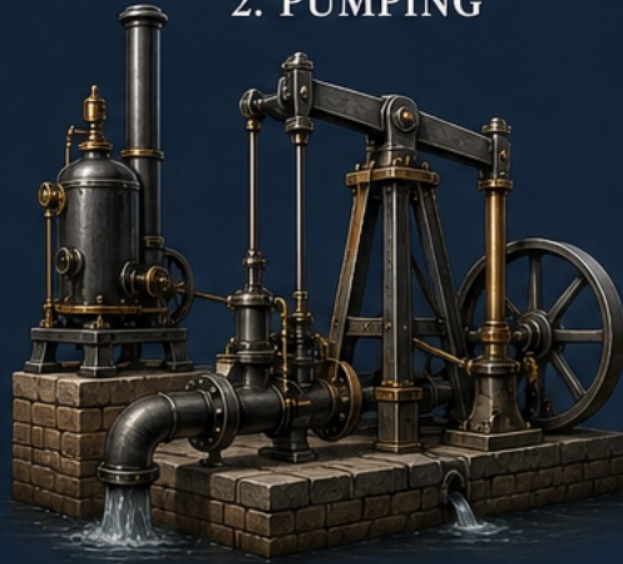


1. TEXTILE INDUSTRY

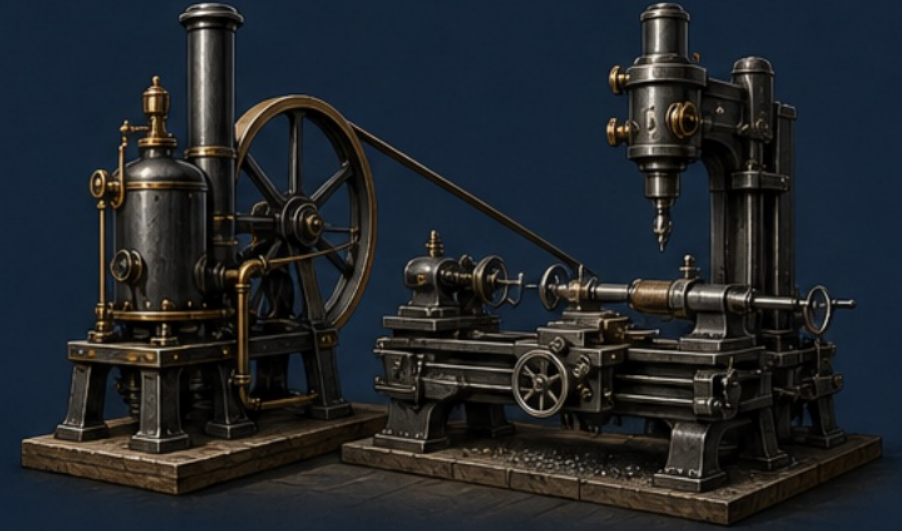
STORY TWO



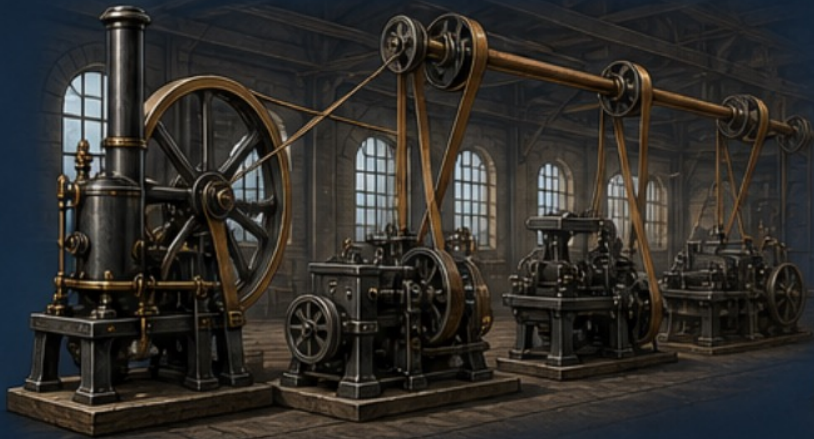
2. PUMPING



3. MACHINE TOOLS



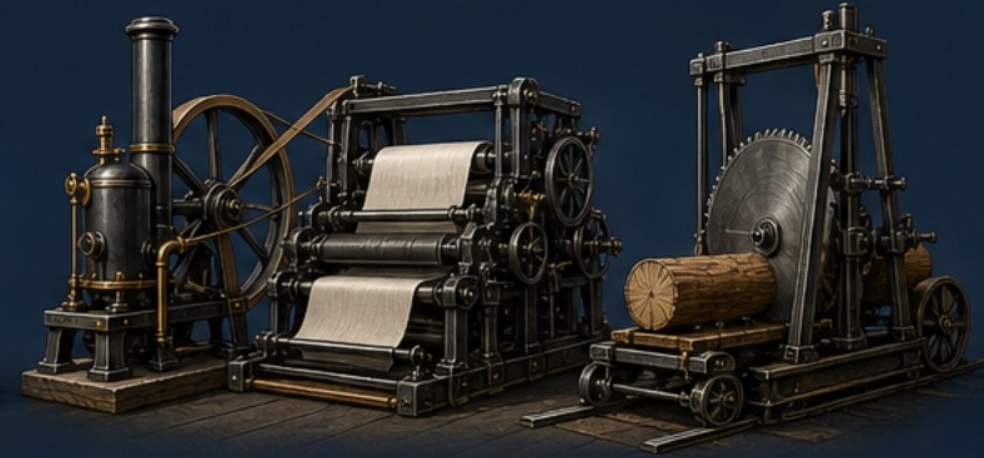
4. POWER TRANSMISSION



5. FOOD & PROCESSING



6. PAPER, PRINTING & SAWMILLS



*How would you rank
the importance of these drivers?*

How would you rank importance of these drivers?

TIER 1 · 01

Need / Threat

A clear problem or pressure that creates demand for a solution.

TIER 1 · 02

Technology

A solution that is mature enough to address the need.

TIER 1 · 03

Timing

The right conditions are in place: market readiness, infrastructure, policy, and attention.

How would you rank importance of these drivers?

TIER 1 · 01

Need / Threat

A clear problem or pressure that creates demand for a solution.

TIER 1 · 02

Technology

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TIER 1 · 03

Timing

The right conditions are in place: market readiness, infrastructure, policy, and attention.

When need, technology, and timing align



7 yrs → 8 mo

mRNA vaccine

A clear health threat met a mature scientific platform and urgent public investment.



5 yrs → 7 mo

LNG re-export

Existing infrastructure was rapidly repurposed when Europe's energy supply routes changed.



7 m / yr in 2026

Ukrainian drones

Mature drone technology scaled quickly under urgent battlefield demand.

Different sectors, same pattern: clear need, ready technology, right timing.

TIER 2 & 3 DRIVERS

What helps innovation scale

TIER 2 • SCALING DRIVERS

Capital

Funding that matches the time, risk, and scale of the journey.

Competences

The right expertise to move from concept to execution.

Policy

Rules, standards, and incentives that make adoption possible.

TIER 3 • MULTIPLIERS

Ecosystems

An active network of partners, suppliers, and customers.

Structures

Institutions, markets, and finance systems able to absorb the new.

WILDCARD

Luck.

The bit you can't plan for, but you can position for it

the mile

The transition of the energy system *has it all.*

Today's presentations show pieces of the puzzle.

Need

Tech

Timing

Capital

Competences

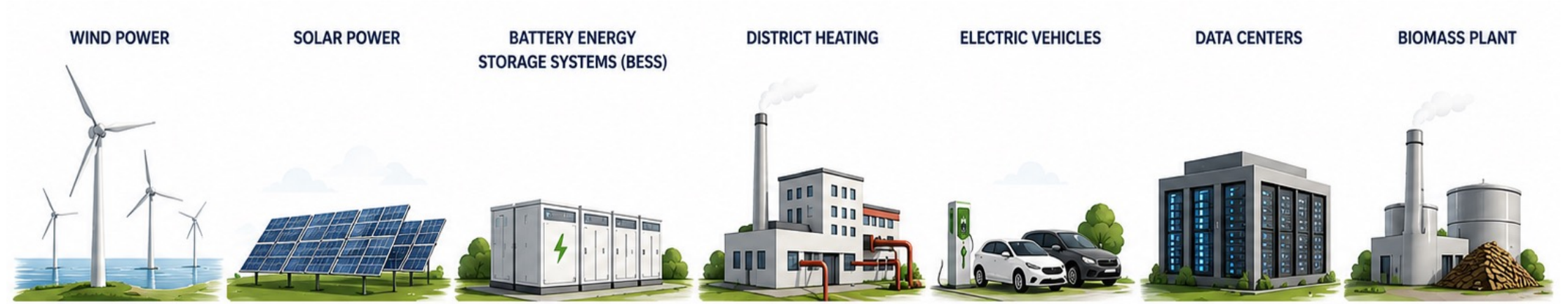
Policy

Ecosystems

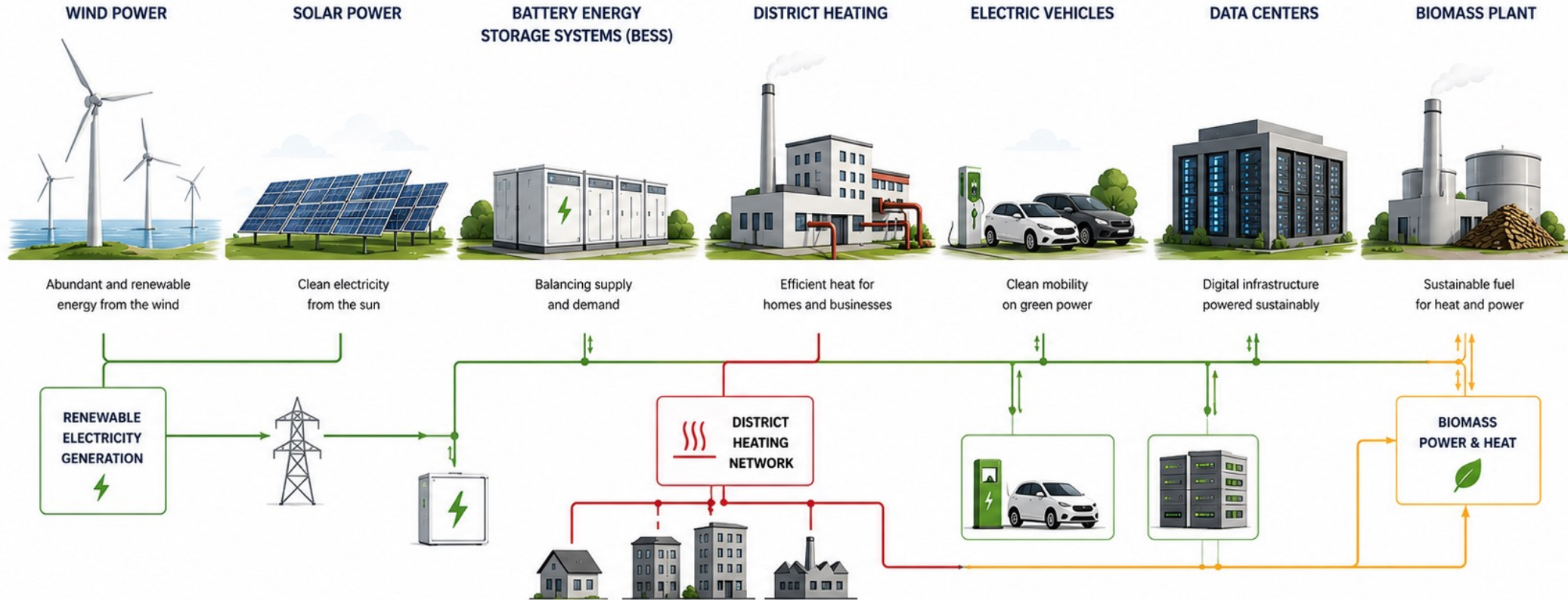
Structures

Luck

Individual technologies



Interaction between technologies



HIGH SHARE OF RENEWABLES
Wind and solar are the backbone of Denmark's energy system



FLEXIBILITY AND BALANCE
BESS and smart solutions ensure stability and secure supply



SECTOR COUPLING
Electricity, heating, mobility and industry work together



ELECTRIFICATION OF SOCIETY
EVs, data centers and industries run on clean electricity

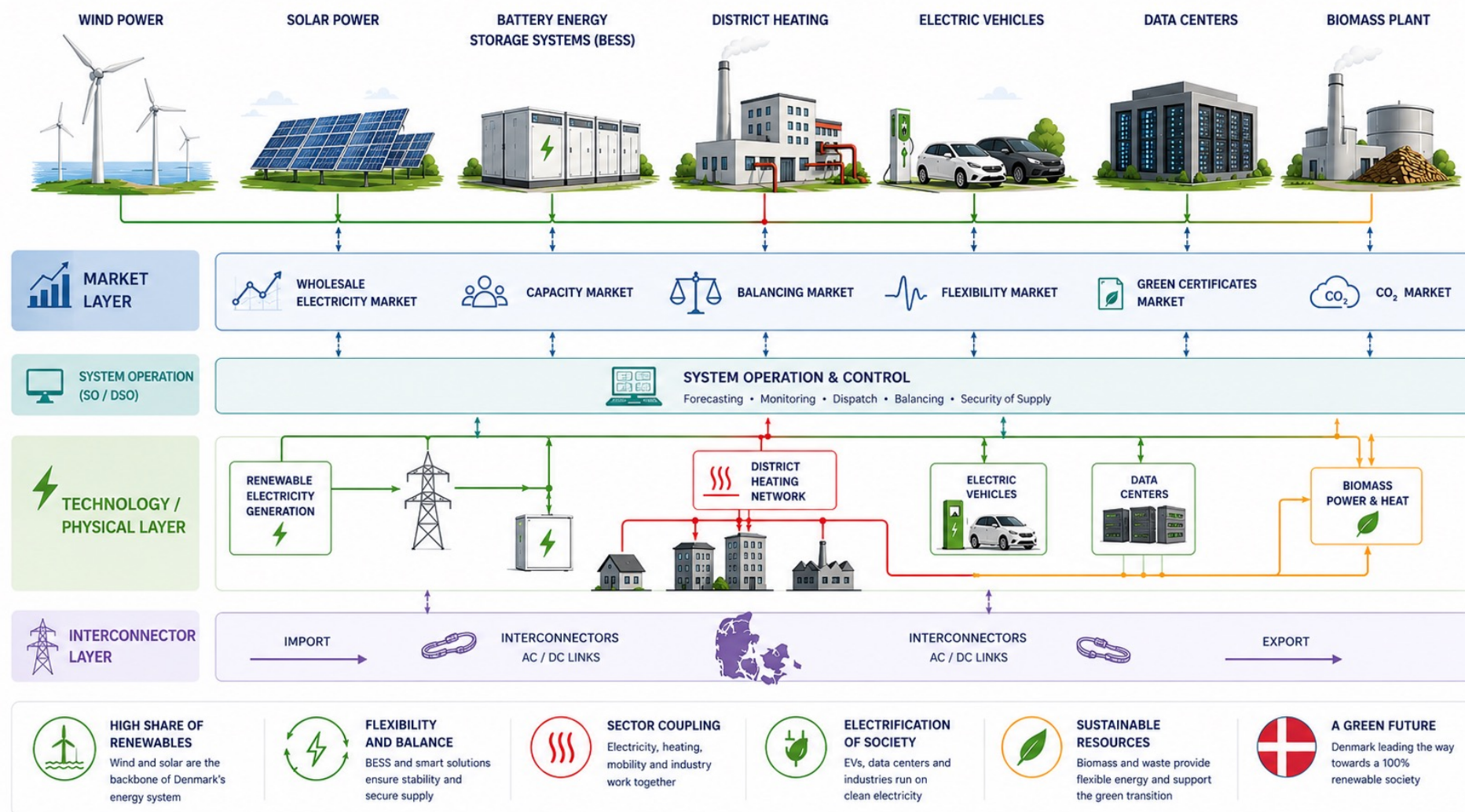


SUSTAINABLE RESOURCES
Biomass and waste provide flexible energy and support the green transition



A GREEN FUTURE
Denmark leading the way towards a 100% renewable society

Interconnector and trade layers



The cost of transition, or the cost of delay?

POWER GENERATION

€85 bn

per year, in new investments in power generation, towards 2050.

POWER INFRASTRUCTURE

€120 bn

per year, for system integration grids, interconnectors, flexibility.

“The Iran crisis: oil-price hikes plus all-in costs amount to an extra €150-300 bn in annual costs for the EU.”

Ursula Von Der Leyen

€150-300 bn

*extra annual cost to the EU
from a single oil-price shock*

The question is not whether Europe pays. It is what Europe pays for.

Prof. og Divisionschef Jacob Østergaard
8. maj 2025, 1st Mile Stakeholder Event

Energiteknologisk udvikling i energisystemet

A high-angle, wide shot of a very dense crowd of people walking along a city sidewalk. The crowd is diverse in age and appearance, filling the entire width of the frame. To the right of the crowd is a modern building with a dark facade and large glass windows. In the background, a yellow tram or bus is visible on the street. The overall scene suggests a busy urban environment.

The power system is a safety-critical system





1. Storms & Hurricanes
2. Heatwaves & Droughts
3. Wildfires
4. Cold Spells & Snowstorms
5. Dunkelflaute (Dark & Windless Periods)
6. Flooding & Storm Surges

A

The Atlantic

TEKNOLOGI

Rapport: Energisektoren ramt af det 'hidtil mest omfangsrige' cyberangreb

Indicier peger på, at russiske statshackere kan have stået bag et større cyberangreb, der ramte dansk kritisk infrastruktur i foråret. I værste fald kunne over 100.000 danskere have stået uden strøm eller varme.



Aktindsigt afslører: Seks danske energiselskaber ramt i globalt hackerangreb

Forsyningsselskaber | 13. april 2021 kl. 05:00

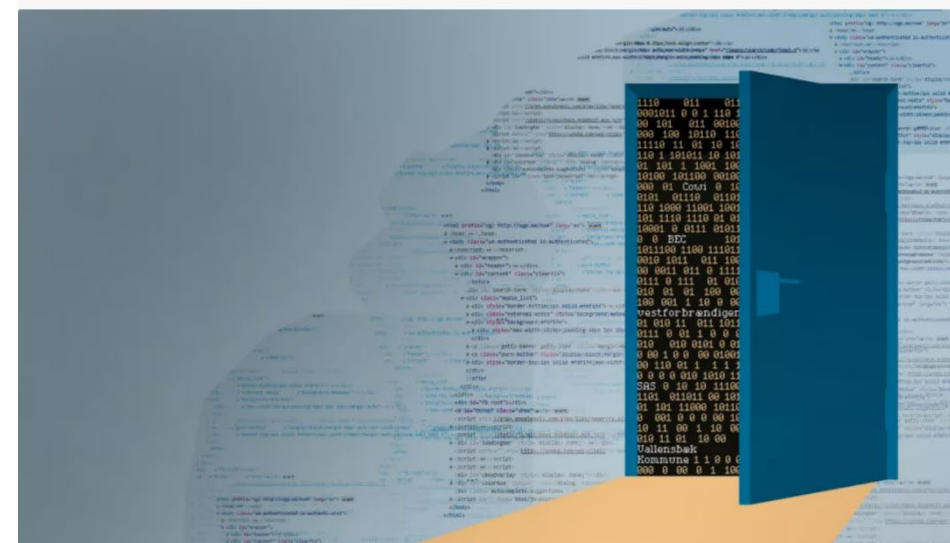


Illustration: Iskra Dinkova.

Det globale hackerangreb, kendt som Solarwinds-angrebet, har ramt adskillige virksomheder på tværs af sektorer i Danmark. Nu afslører en aktindsigt, at hacket har ramt noget bredere i energisektoren end tidligere meldt ud.



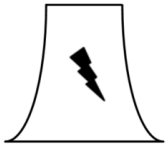
Adam Fribo

Redaktionschef

Følg +

The Electrical Properties Change Fundamentally

Based on large stabilising power plants

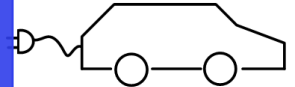


Cessna 172
Skyhawk

Based on fast-acting power converters

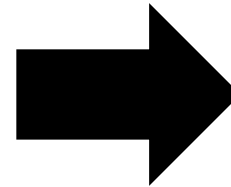


F-117
Nighthawk



Existing properties:

- Slow dynamics (second-scale)
- Fault are slow
- Fault detection easy
- Large mechanical generators form the 50 Hz grid
- Stability and protection methods matured over 100 y.



Future properties:

- Very fast dynamics (μ s and ms-scale)
- Faults propagates momentary
- Fault detection difficult
- Forming of the 50 Hz grid not fully understood
- Stability, control and protection not fully understood

Root cause tree

The blue boxes correspond to factors that contributed to the incident and on which the Expert Panel is making recommendations.

The white boxes correspond to additional elements or explanations that allow to understand how the incident developed.

X Link to recommendation number

Abbreviations

aFRR	automatic Frequency Restoration Reserve
BRP	Balancing Responsible Party
CESA	Continental Europe Synchronous Area
DRS	loss of synchronism protection (Débouclage suite à Rupture de Synchronisme)
PSS	Power System Stabiliser
Q-reference	reference reactive power (as defined in § 2.6.6)
RES	Renewable Energy Sources
RFG	Requirements for Generators Network Code
SPS	Special Protection Scheme

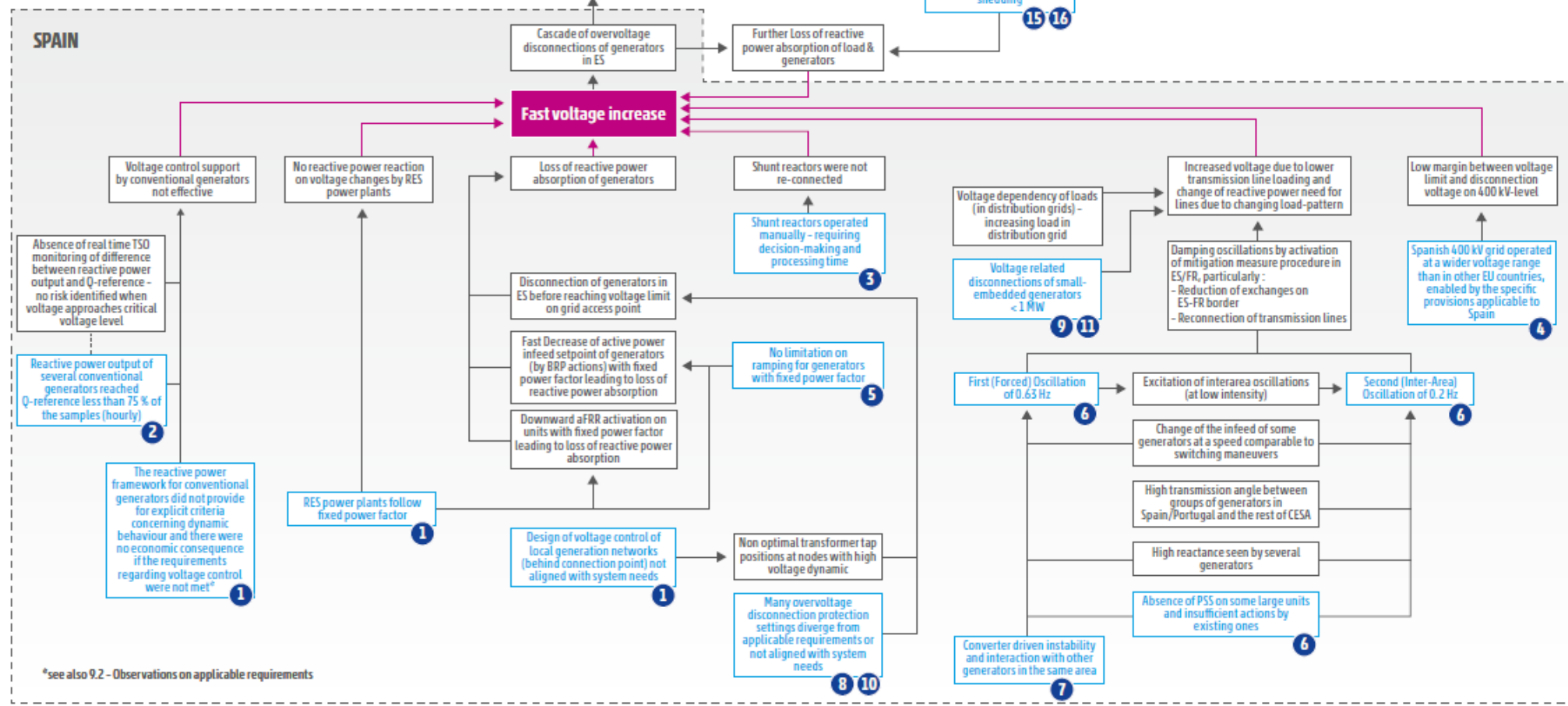


Figure 1-15: Root cause tree

New
threats

**Society-
critical**

New system
properties

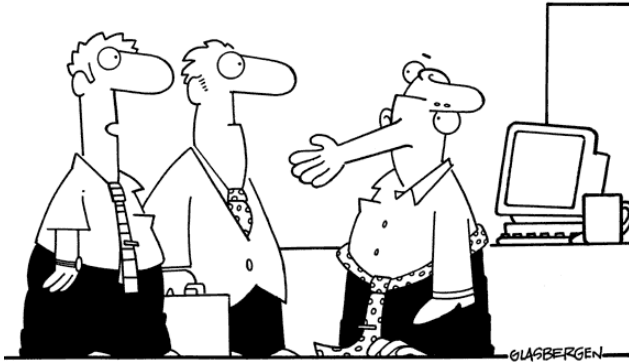
Increasing
complexity

The Iberian blackout, April 28, 2025, left 60 million people without power

Can we ensure secure operation in tomorrow's power system?

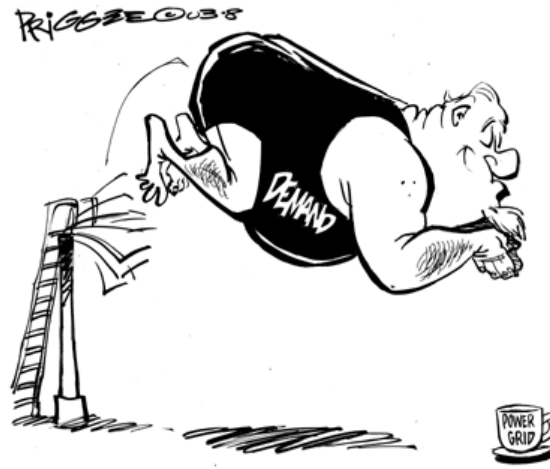


The power system is designed against single random faults
→ N-1 criteria



"That's our CIO. He's encrypted for security purposes."

2. Cyber-security



3. Adequacy



4. Stability



"I envisioned something a little more... robust... I guess."

1. Robustness

RESILIENCE



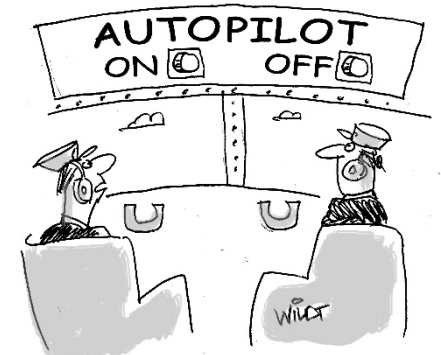
"My ability to adapt is the key to my success."

7. Adaptability



"The doctors say I'll soon be back on my feet."

6. Recoverability

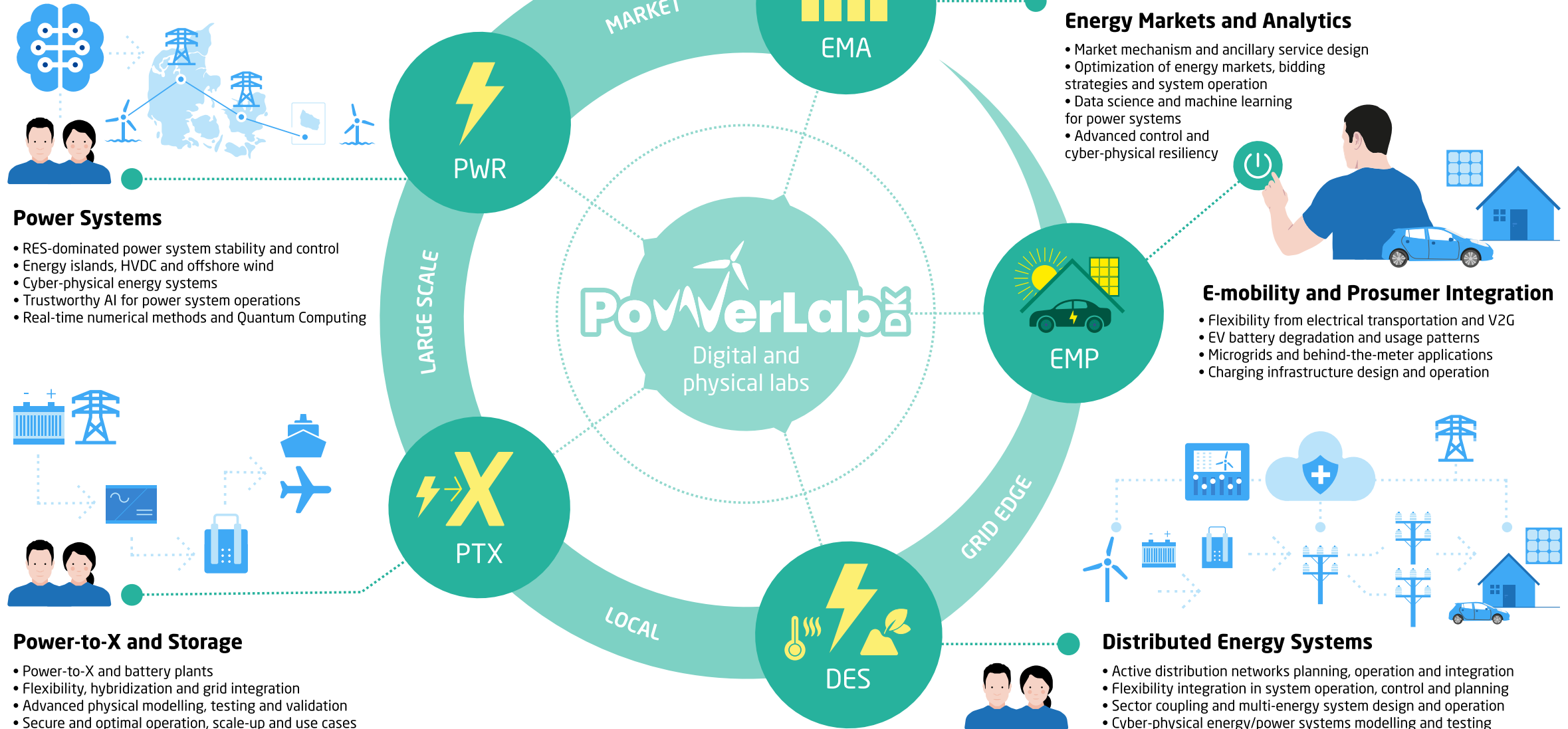


"Maybe they've oversimplified the cockpit controls."

5. Controllability and operational flexibility

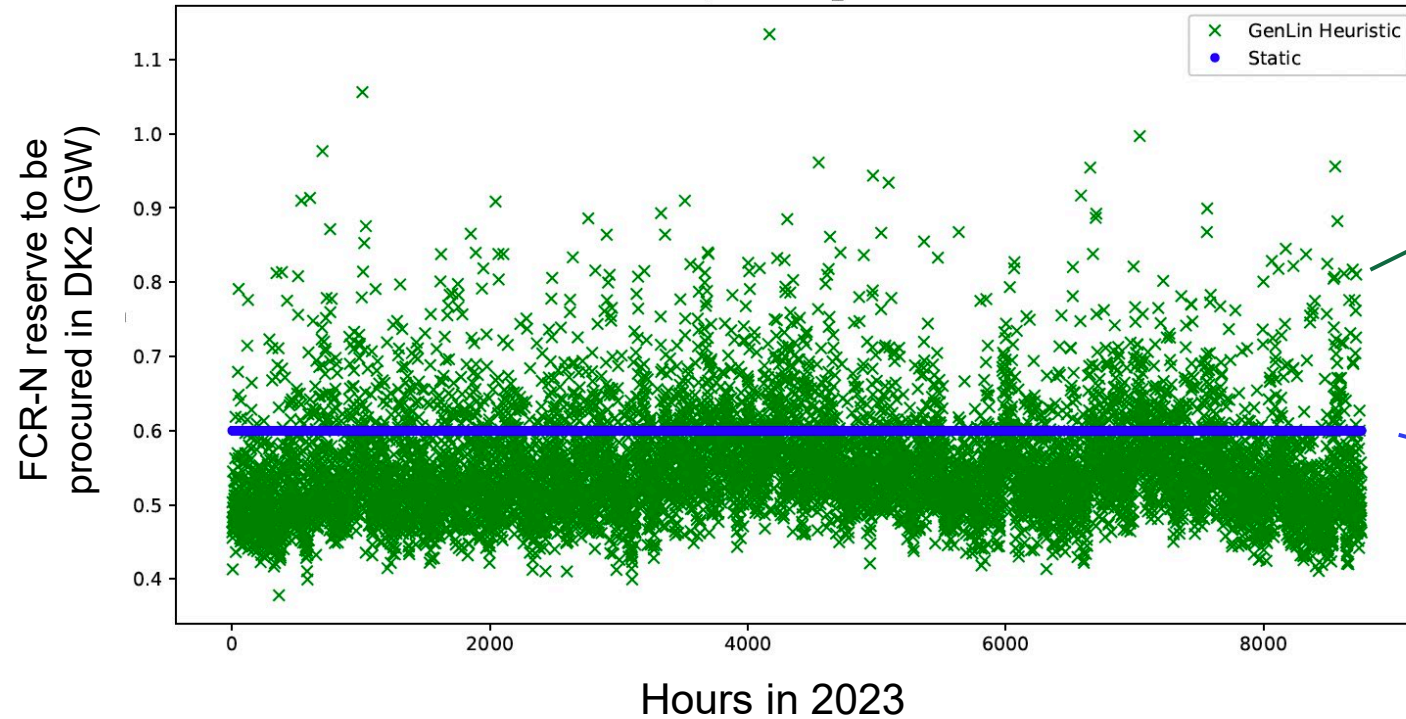
DIVISION FOR POWER AND ENERGY SYSTEMS

Designing a resilient, renewable-based energy system.



Data-driven dynamic frequency reserve dimensioning

Using a diffusion process to model frequency dynamics, calibrated with 300 million frequency data points from the Nordic grid, 2023



Dynamic (time-varying) volume of FCR-N* to be procured
Annual procurement: 5,256 GW
(our proposal)

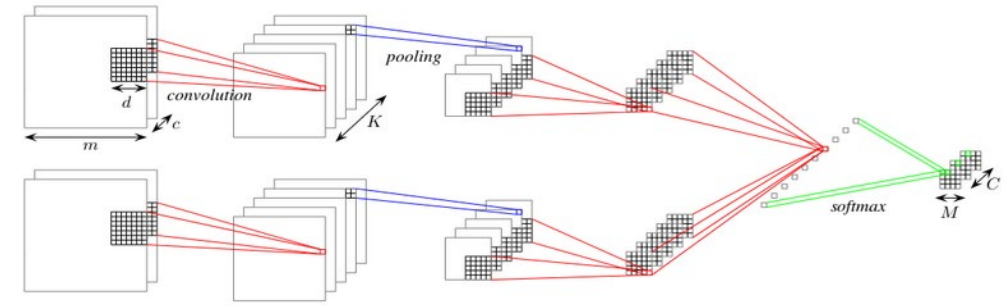
Fixed volume
(600 MW per hour)
Annual procurement: 5,256 GW
(current practice)

Improvement of grid reliability by reducing the probability of frequency deviation outside the 49.9-50.1 Hz range **by 37%**, while maintaining a target safety level of 98%

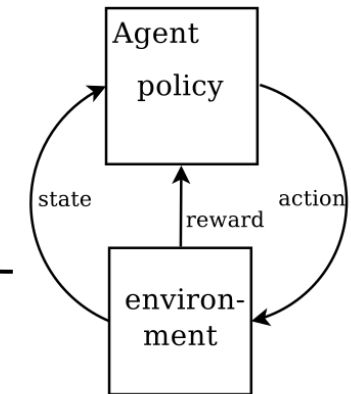
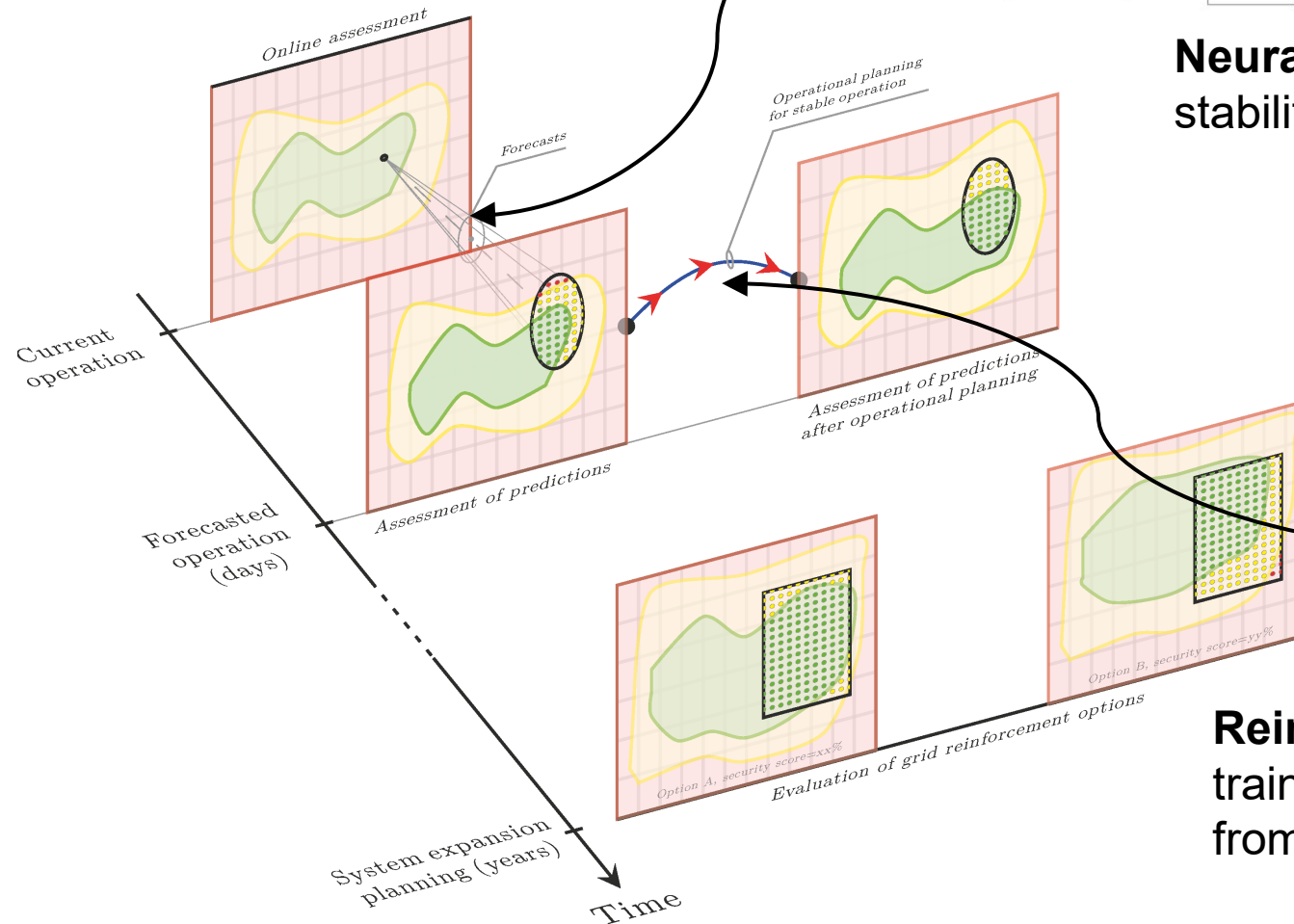
*FCR-N: Frequency Containment Reserve for Normal Operation
(activated when frequency fluctuates between 49.9 Hz and 50.1 Hz.)

J. Janssen, A. Zocca, B. Zwart, and JK, "Dynamic dimensioning of frequency containment reserves: The case of the Nordic grid." 2024. <https://arxiv.org/abs/2411.11093>

Monitoring and control of power systems in real time



Neural Networks trained to forecast stability in real-time under operation



Reinforcement learning algorithms trained to move system state away from insecure regions

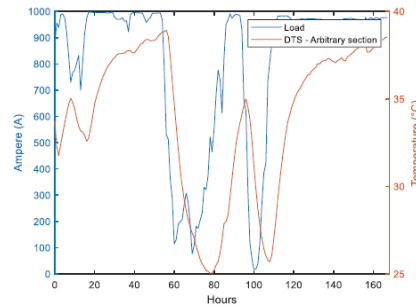
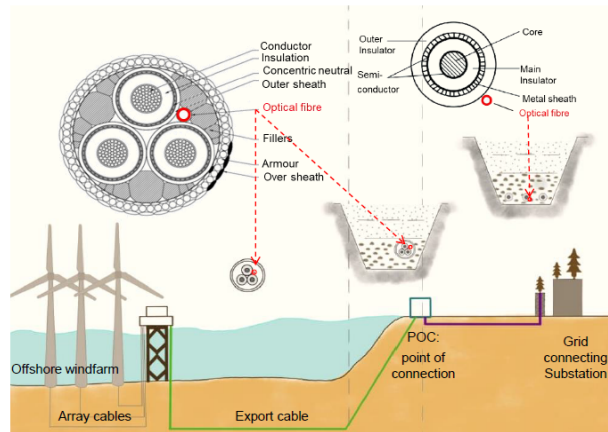
Conventional off-line approaches with **5-15 minutes**



2.5 ms @ 7917 nodes, 1325 gens.

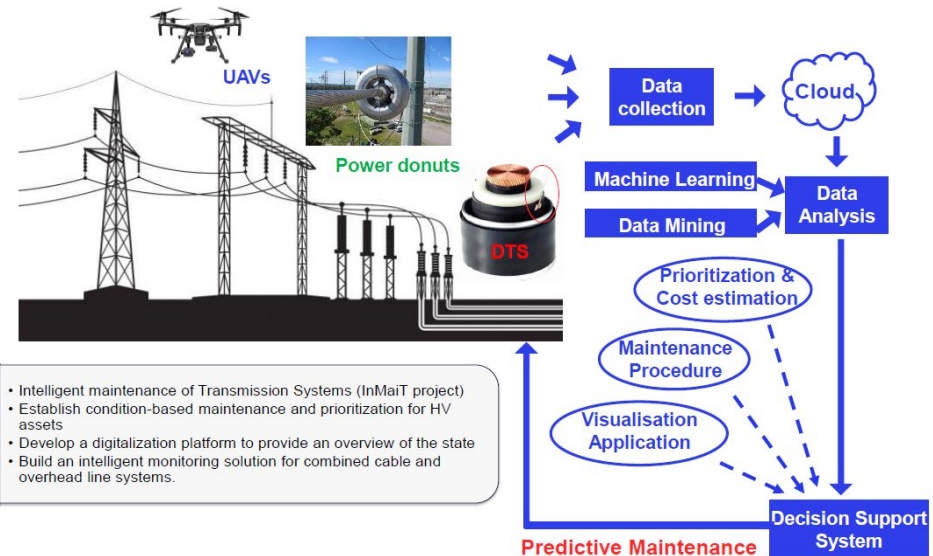
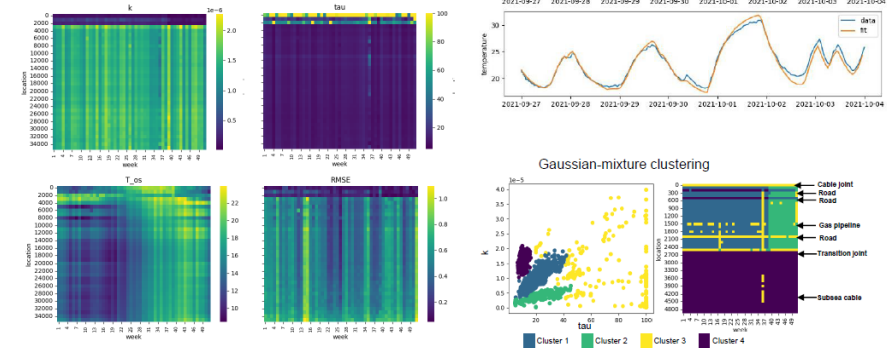
Dynamic Line Rating

Monitoring DTS data



$$\tau_s \frac{dT_s(t)}{dt} + T_s(t) = k_s I^2(t) + T_a$$

Fit parameters

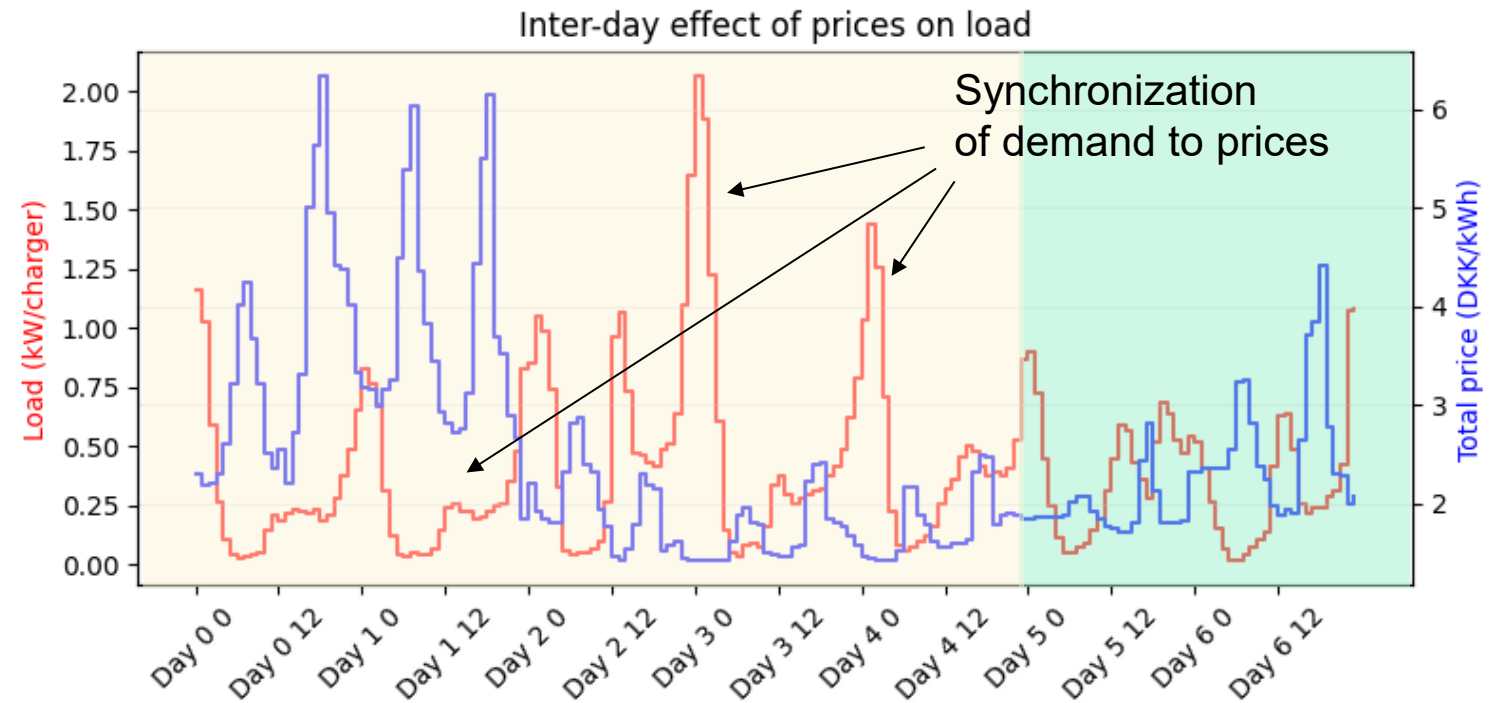
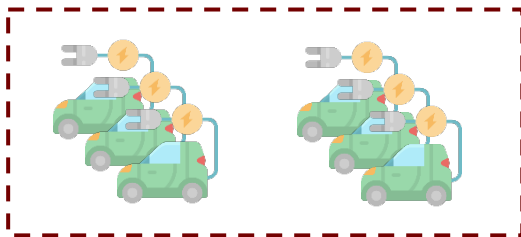
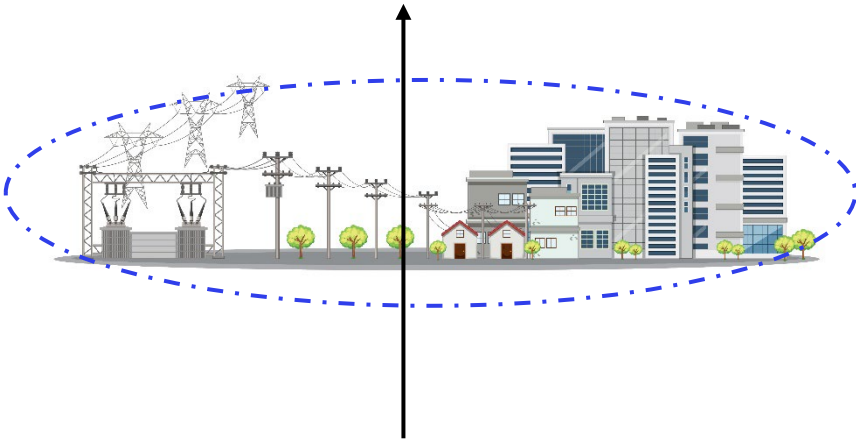


- DTU (Postdoc Researcher)
- Intelligent maintenance of Transmission Systems (InMaIT project)
 - Establish condition-based maintenance and prioritization for HV assets
 - Develop a digitalization platform to provide an overview of the state
 - Build an intelligent monitoring solution for combined cable and overhead line systems.

Market design for flexibility and active distribution networks

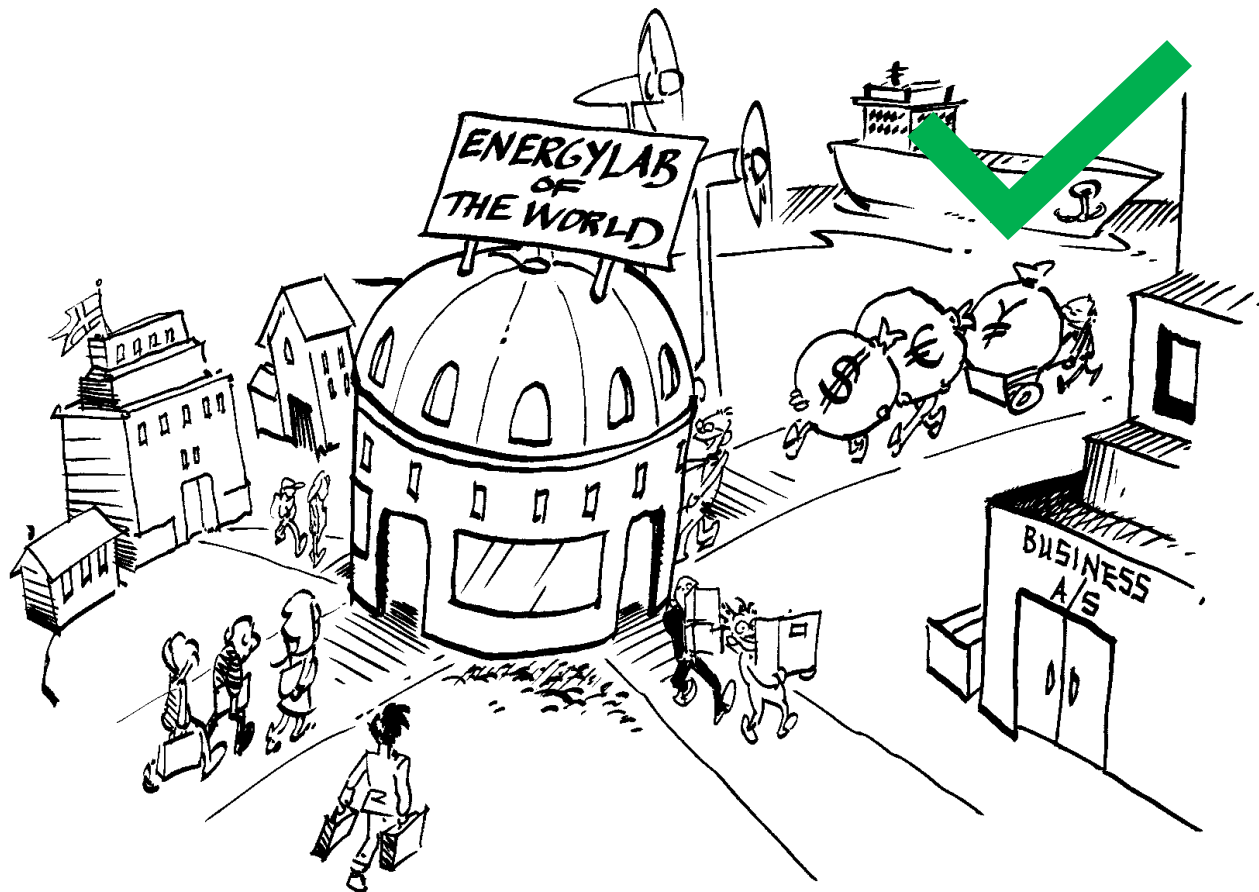
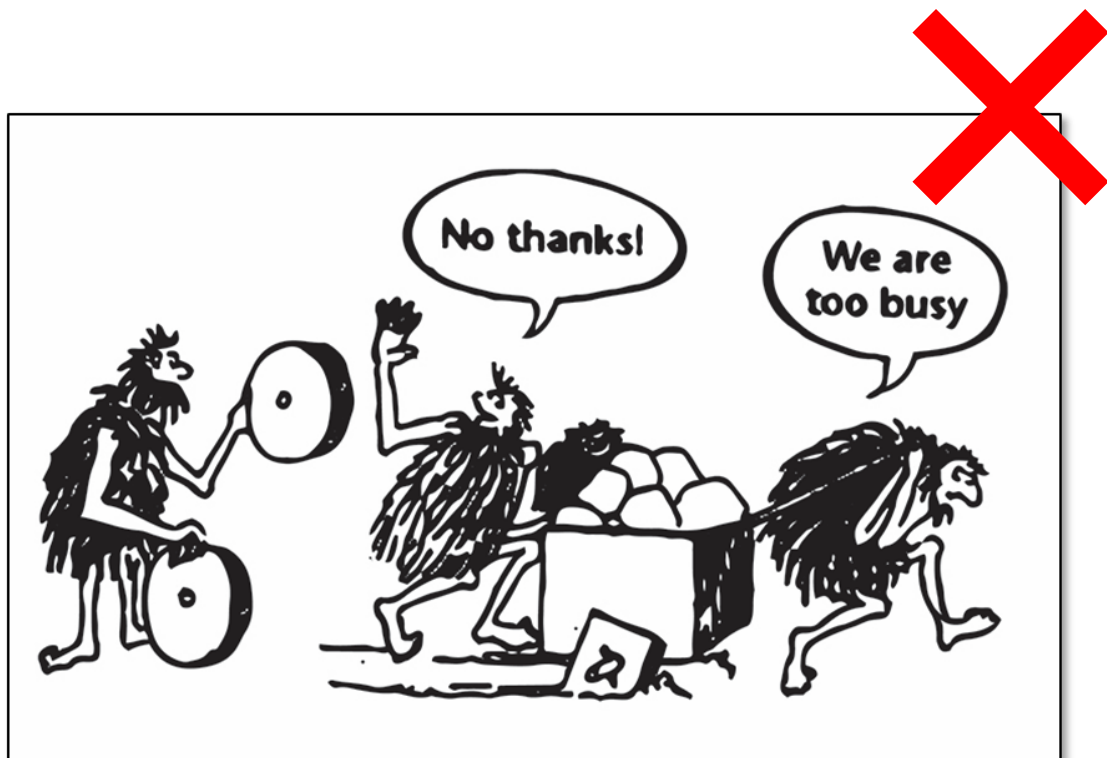
System services offered by flexible resources through the DN

NORD POOL



- Flexibility provided to wholesale and ancillary services markets → Synchronization of demand and larger coincidence factors → Congestion in the DN

Thank you for your attention!



DTU





Who is my ideal client?

What strong funding application thinking looks like

A P P L I E S A C R O S S

Startups scaling a technology · Corporates building new R&D lines



Who is my ideal client?

OPTION A

“I want to transform the energy system.”

OPTION B

“I want to produce graphene oxide by electrochemical exfoliation.”



Who is my ideal client?

OPTION A

“I want to transform the energy system.”

WHAT THIS TELLS ME

- A clear technical objective
- A thought-through approach
- A defined starting point for impact

OPTION B

“I want to produce graphene oxide by electrochemical exfoliation.”

EXAMPLES FROM PROJECTS

- Source graphite in Europe
- Produce 300 mm silicon wafers
- Unlock energy data while preserving privacy
- Produce drop-in biofuels

Who is my ideal client?



OPTION A

“Communicates value to non-experts”

OPTION B

“Assumes the technology speaks for itself”



Who is my ideal client?

OPTION A

“Communicates value to non-experts”

OPTION B

“Assumes the technology speaks for itself”

*Make the value **understandable.***

“The best clients are the ones who understand – or are willing to understand – that they are applying for funding within a broader political, social, and economic narrative.”

What I see in the EU Energy Funding Calls

2026 — 2027

01 AI is everywhere

Even in calls that aren't about AI

The EU created new dedicated digitalisation programmes, but Cluster 5 Energy calls still explicitly ask for AI. 15% of all open calls are AI-specific; 50% have a digital dimension.

02 Grid resilience surges

A wave of new dedicated calls

Calls for grid resilience and smart energy management now make up ~16% of ~16% of the programme — split roughly evenly between software and hardware solutions.

03 Battery funding shifts

From performance to manufacturability

Batteries are still funded (~15%), but the focus has shifted from performance to European scale-up capacity: modular production lines, flexible factories, lower-energy manufacturing, AI integration, recyclability, and materials less dependent on Chinese value chains.

04 Hydrogen scaled back

Still funded, but more selective

Once everywhere, hydrogen is now around 5% of the programme, with a much narrower scope and a clearer focus on viable use cases.

Based on analysis of the Horizon Europe Work Programme 2026–2027

Who is my ideal client?



OPTION A

“I need 50M to go to market.”

OPTION B

“I know how to use 50M.”



Who is my ideal client?

OPTION A

“I need 50M to go to market.”

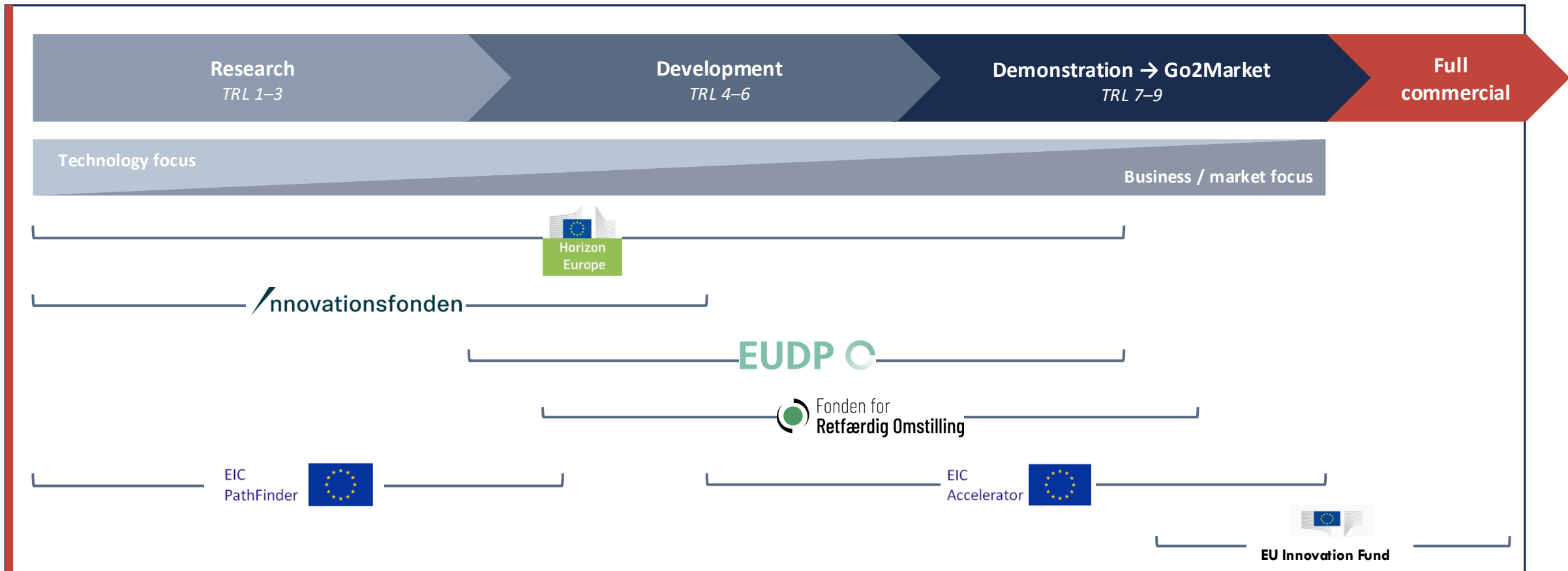
OPTION B

“I know how to use 50M.”



From research to market, each stage needs the right funding

The best clients understand that funding is a pathway, not a jump



TAKEAWAY

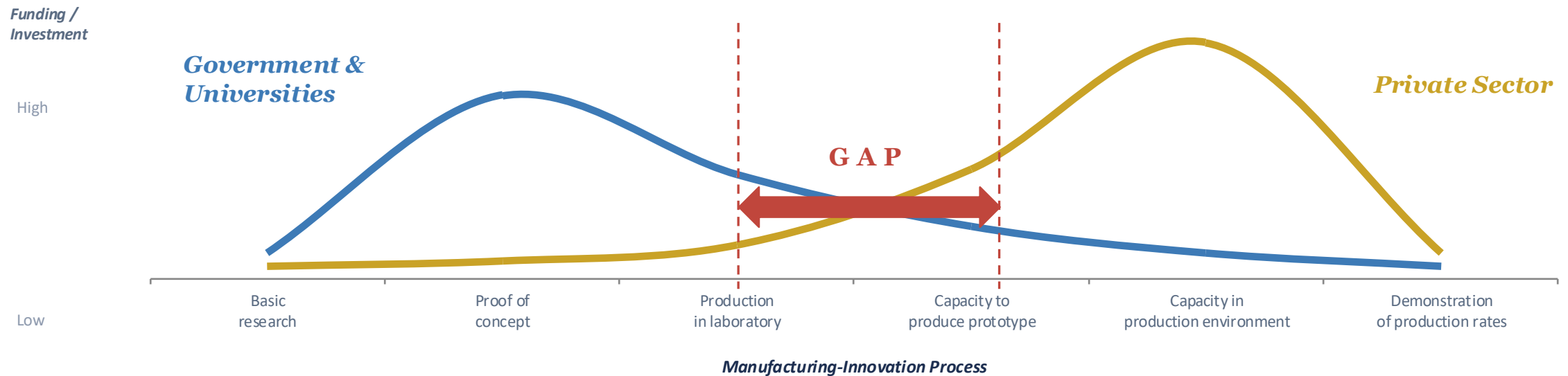
Not just money: Each grant is a signal of credibility for the next funder.

Who is my ideal client?

OPTION A

"Understands how soft & hard funding work together."

Who is my ideal client?



SOFT FUNDING

Grants reduce technical, market, and financial risk before private capital steps in.

HARD FUNDING

Equity and debt come more easily once the risk has been reduced.

TAKEAWAY *Strong funding strategies do not chase the biggest grant. They fund the next risk to reduce.*

Who is our ideal client?

Five characteristics that make an application strong



01 Starts with technology

A concrete technical objective – not a vision statement.

02 Frames clear impact

Connects to a broader political, social, and economic narrative.

03 Treats funding as a pathway

Not a single jump; a sequence of right-sized steps.

04 Builds credibility step by step

Each grant is a vote of confidence the next funder can see.

05 Understands de-risking

The thread that links every funding decision – soft and hard.

So, who is our ideal client?

Our ideal client understands that **successful funding applications are a collaborative process**. They **process**. They are responsive, strategically engaged, and willing to contribute the insights needed insights needed to build a strong case.



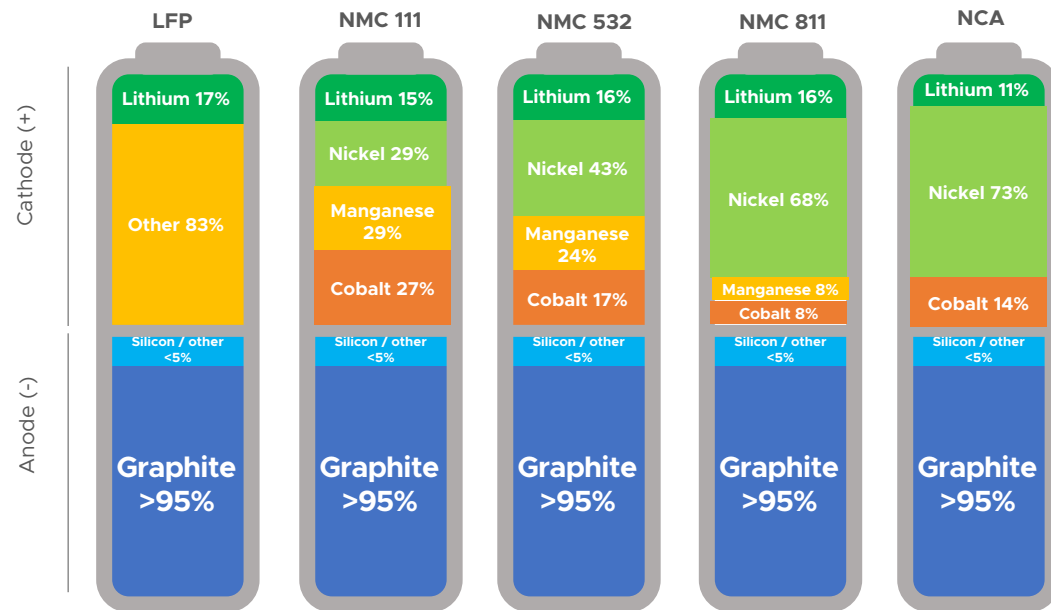
And if you're not quite there yet, that's exactly what we help you become.

GREENROC

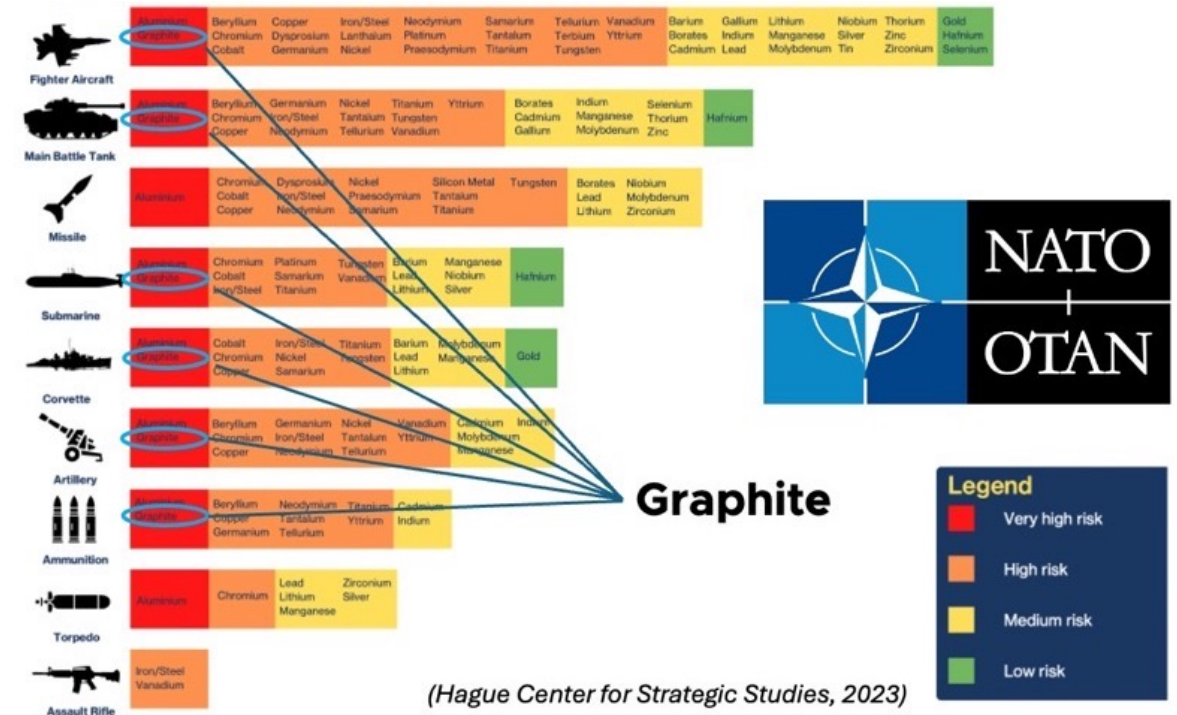
Securing Europe's car and defence industries

Graphite – Indispensable for the Energy Transition and Defence

Graphite is the active anode material in Li-based batteries



-and used in most defence systems



Supply risk for critical raw materials in military applications

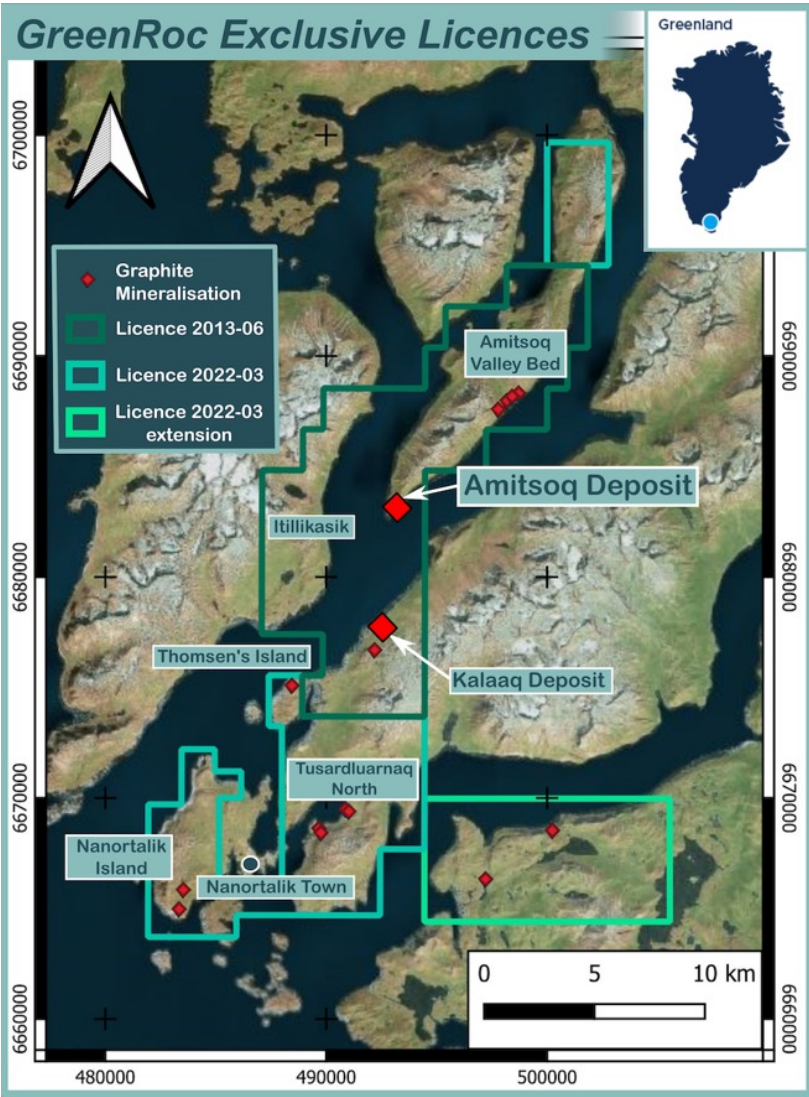
Source: Pallinghurst - Traxys battery analysys. %s represent the proportions of cathode and anode in each battery respectively/ NCA batteries contain 2% aluminium (not shown) https://ecga.net/wp-content/uploads/2023/02/Graphite-in-batteries_Infosheet_final.pdf

Source: Hague Center for Strategic Studies, 2023

-today Europe sources 100% of its graphite from China

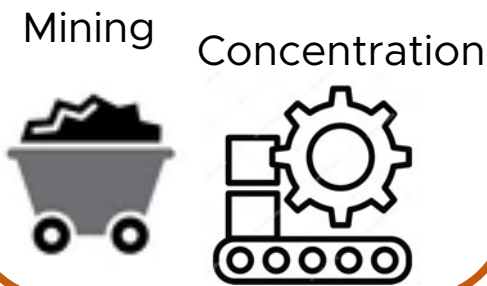
Solution: Graphite from Amitsoq in Greenland

JORC Resource estimate, 2023	Mt ore	%C(g)	Mt graphite
Measured	1.26	22.05	0.28
Indicated	6.12	21.04	1.29
Total Measured + Indicated	7.38	21.21	1.57
Inferred	15.67	20.04	3.14
Total Resources	23.05	20.41	4.71

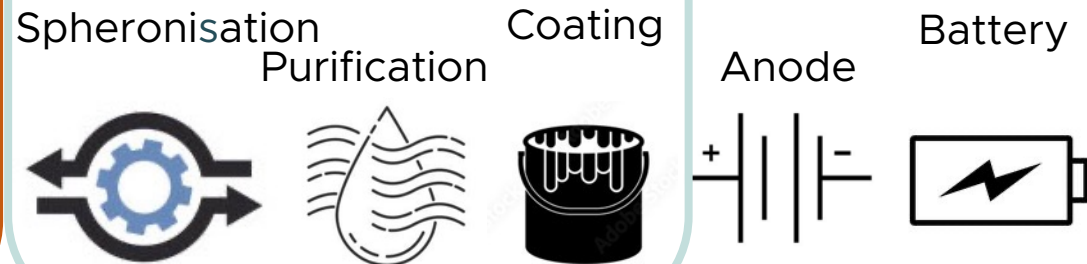


GreenRoc's Upstream and Midstream business: Graphite Concentrate to AAM

Graphite
Concentrate from
Amitsoq, Greenland



Processing into
AAM at plant in
Scandinavia



1st Mile: EUDP project EU-Graphite (Greenroc+DTU+IPU)

Qaanaaq

Sermernavik

0Km 250Km 500Km

Uummannaq

Ilulissat

Aasiaat

Sisimiut

Maniitsoq

Tasiilaq

Nuuk

Davis Strait

Paamiut

Narsaq

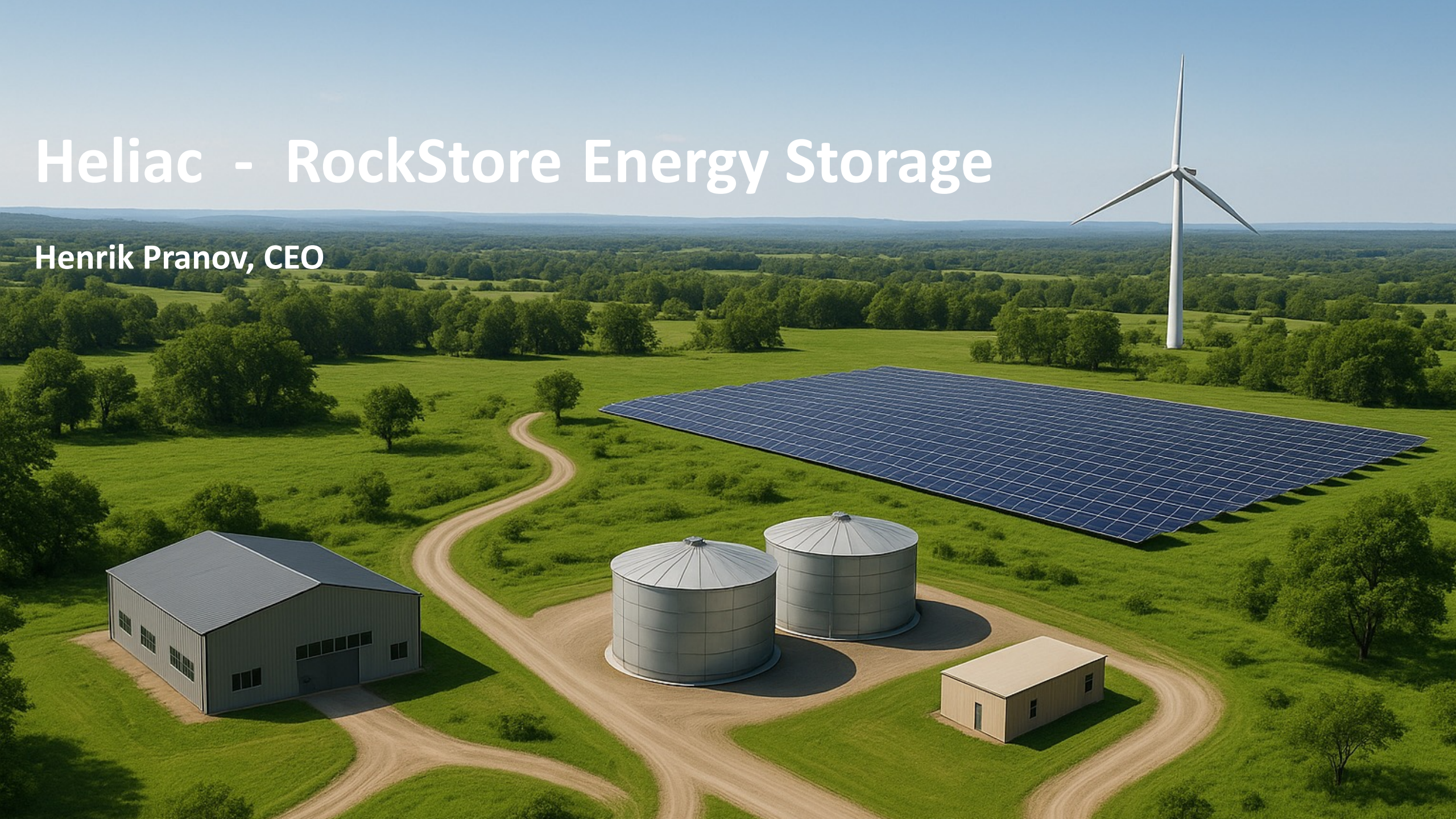
Qaqortoq

Nanortalik

Amitsoq Deposit

Heliac - RockStore Energy Storage

Henrik Pranov, CEO

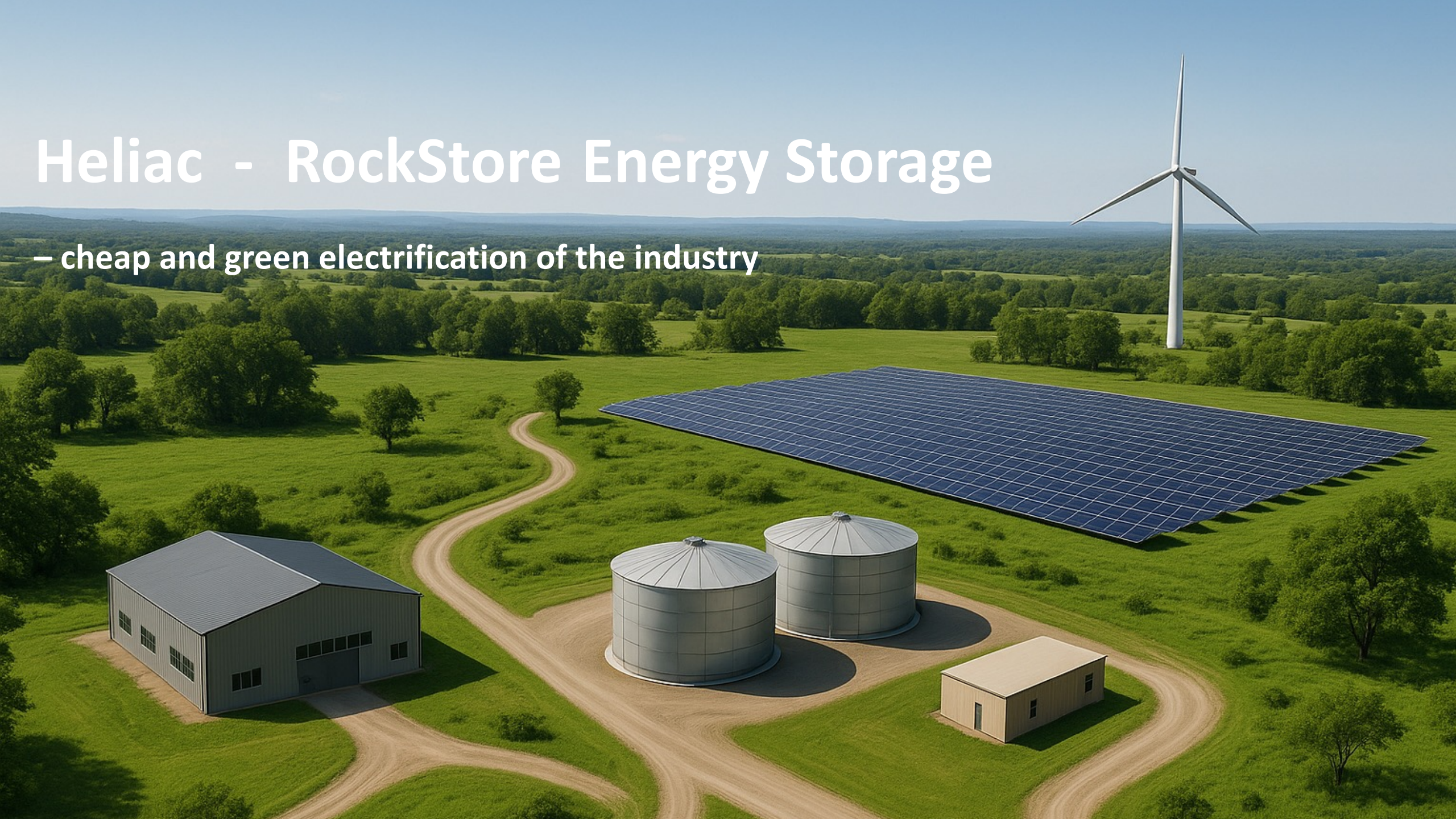




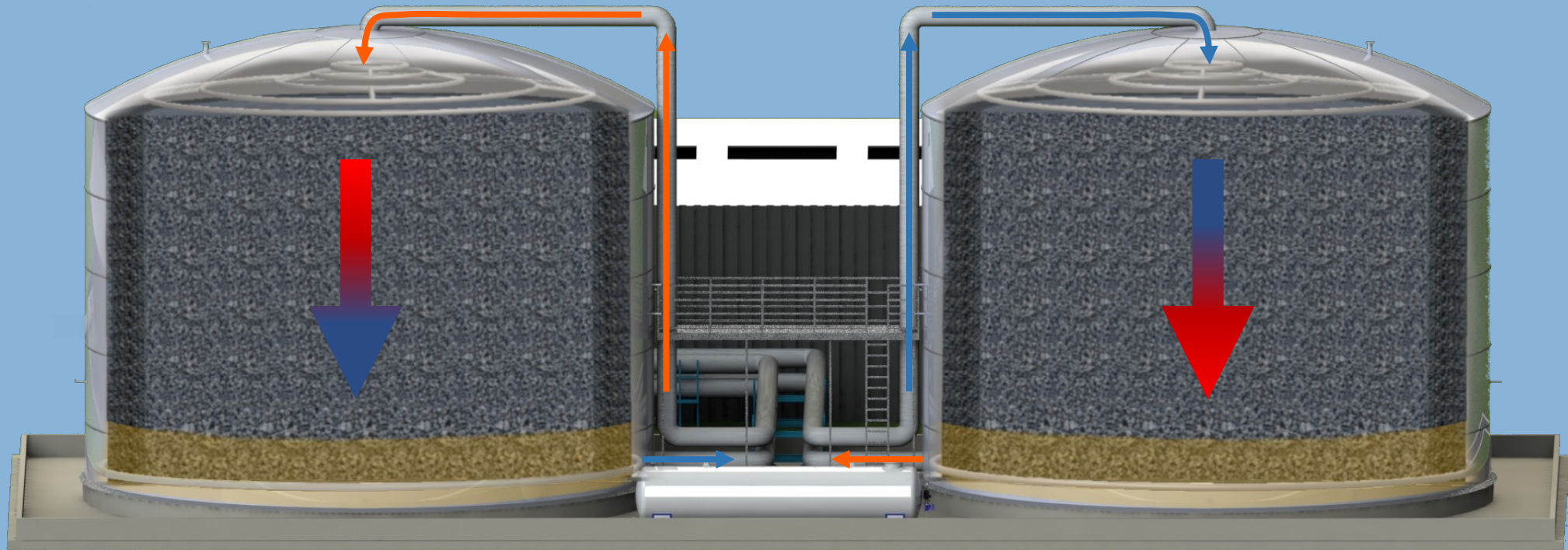


Heliac - RockStore Energy Storage

– cheap and green electrification of the industry



RockStore princip



Energi gemmes som varme i sten i store ståltanke.

Varme håndteres via en olie op til 330C

Enkelt og (relativt) billigt.

Core detection concept

HOSTILE DRONE

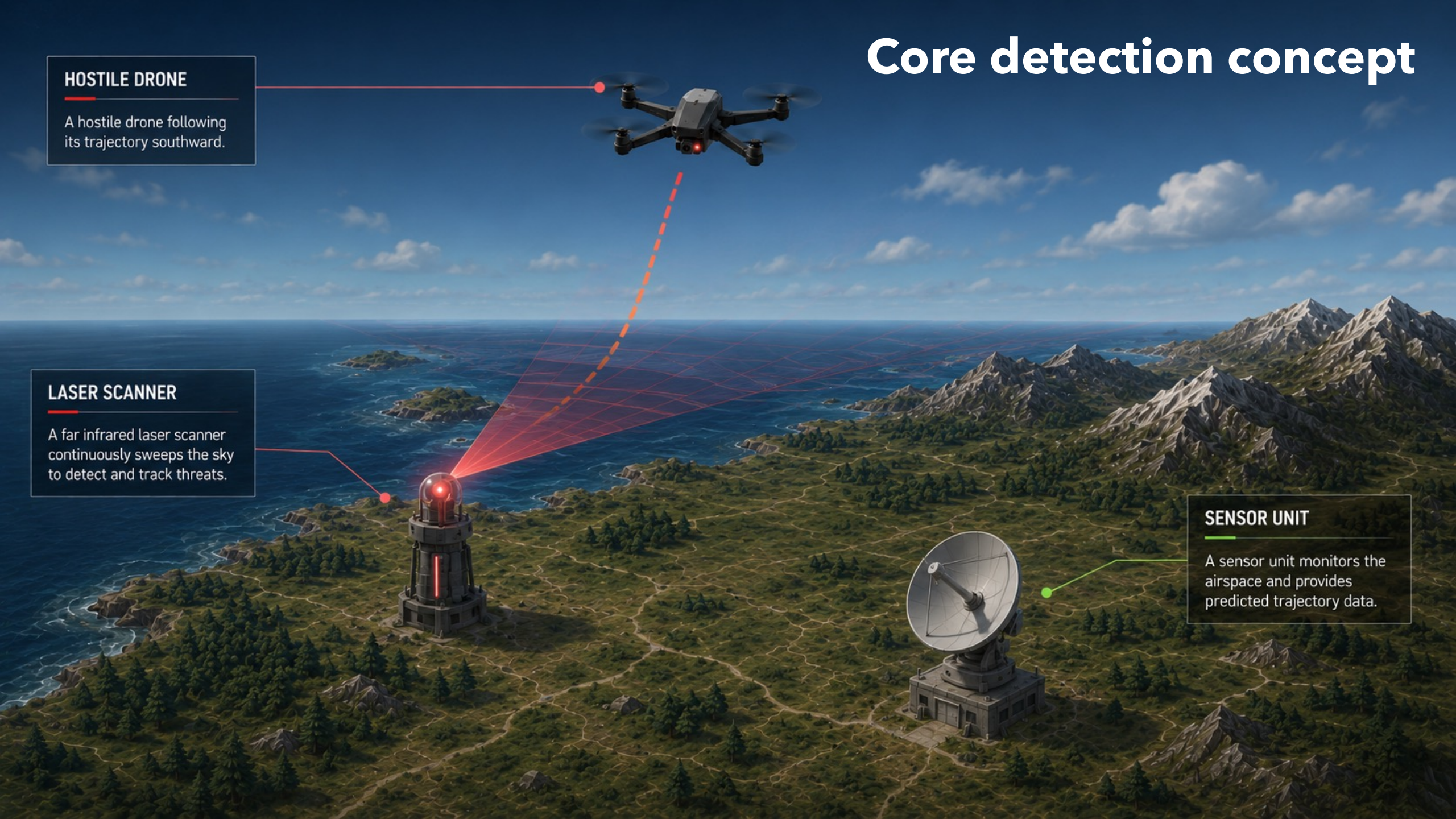
A hostile drone following its trajectory southward.

LASER SCANNER

A far infrared laser scanner continuously sweeps the sky to detect and track threats.

SENSOR UNIT

A sensor unit monitors the airspace and provides predicted trajectory data.



1. INCOMING DRONES

Three hostile drones entering the region from the north.

2. SCANNING LASER NETWORK

Synchronized far infrared lasers scan the sky to detect and track threats.

— FAR INFRARED LASER BEAM

3. SENSOR UNITS

Distributed sensor arrays continuously monitor and provide predicted trajectory.

..... SENSOR LINK

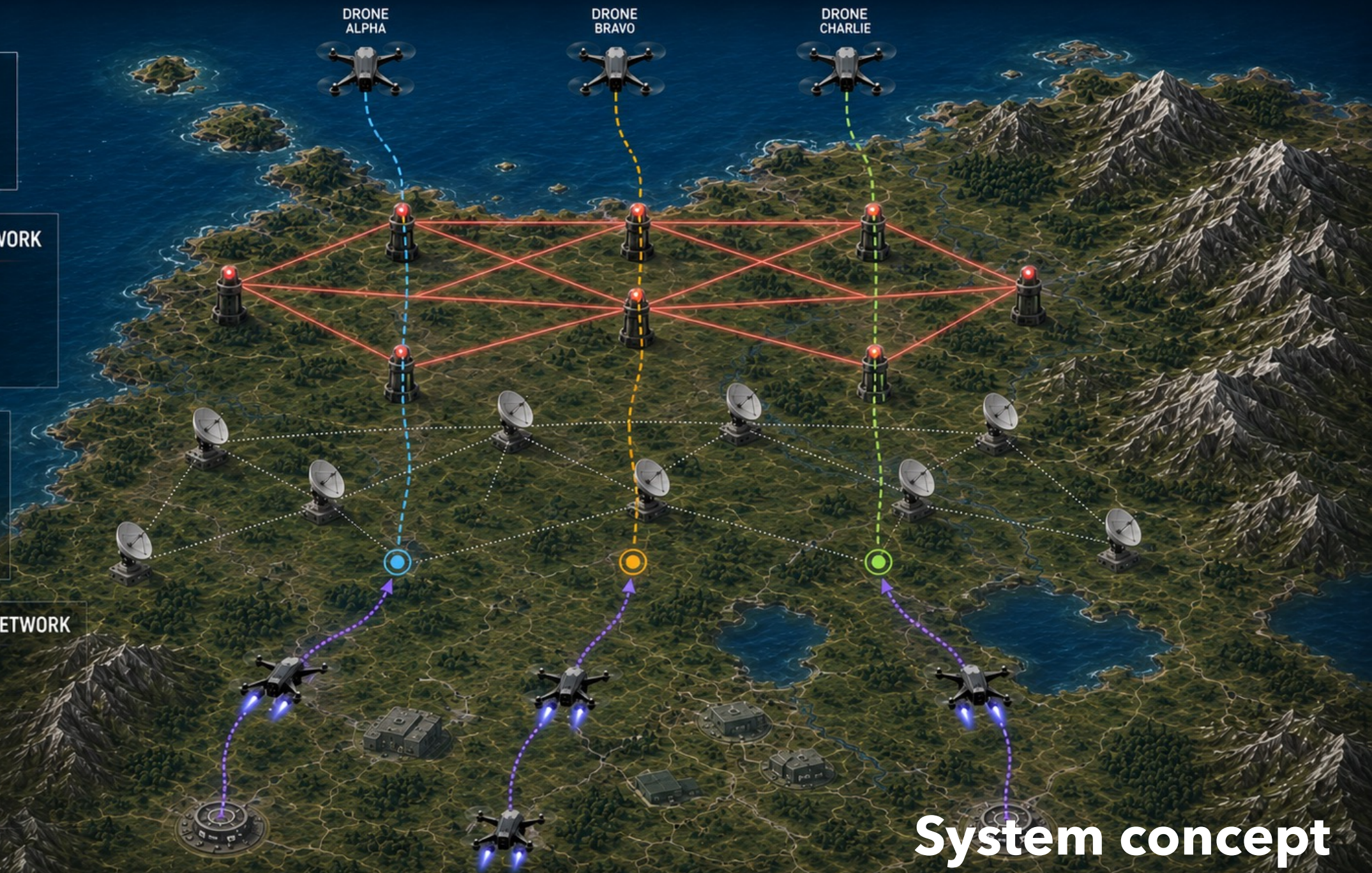
4. INTERCEPTOR DRONE NETWORK

Interceptor drones are deployed to the closest intercept point on each threat trajectory.

--- INTERCEPTOR PATH

● INTERCEPT POINT

System concept





ANDERS B. KRISTOFFERSEN
COO & CO-FOUNDER

CHANGE THE FUEL, NOT THE ENGINE

BACKED BY:



THE WORLD RUNS ON CARBON

THE GOAL IS TO **DEFOSSILISE**



MATERIALS



SOLVENTS



CHEMICALS



TEXTILES



PAINTS



PHARMACEUTICAL

**FOSSIL OIL,
IN TOTAL:**

5

**BILLION TONNES
PER ANNUM**

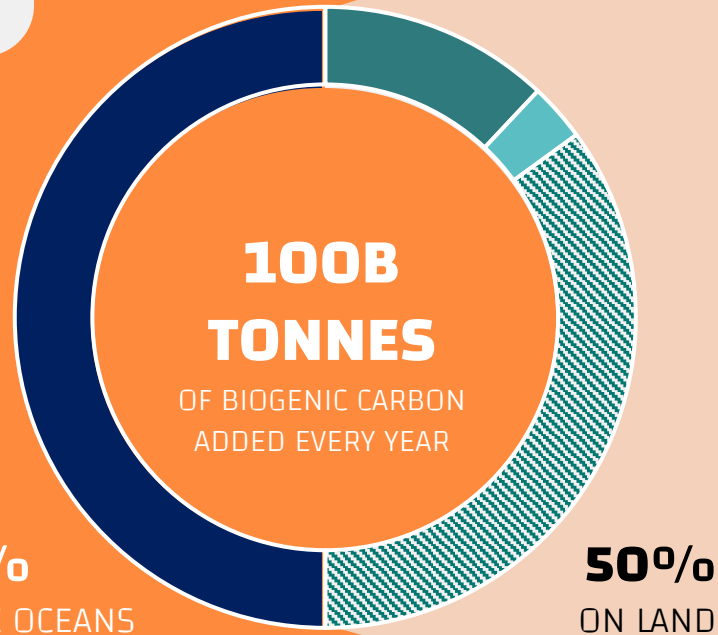
A new source of **SUSTAINABLE CARBON is needed!**

BIOGENIC CARBON IS ABUNDANTLY AVAILABLE

FOSSIL OIL,
IN TOTAL:

5

BILLION TONNES
PER ANNUM



CONSUMED TODAY:
~10-12 BILLION TONNES

3 BILLION
TONNES

AVAILABLE
SUSTAINABLY
HARVESTABLE

LARGE UNTAPPED
POTENTIAL TO SCALE
BIOMASS SUPPLY

IT TOOK NATURE MILLIONS OF YEARS, WE DO IT IN MINUTES

ANY BIOMASS



FEEDSTOCK AGNOSTIC

- Convert any lignin or whole biomass (lignocellulose)

LIQUEFACTION PROCESS



FAST, SIMPLE & UNIQUE

- Thermo-chemical process, low CAPEX
- Carbon conversion yield +85%
- No catalysts or hydrogen needed

QUALITY PRODUCT



FOSSIL REPLACEMENT

- Thermal stability and low acidity
- Drop-in marine quality

From DEMO to Commercial



DEMONSTATION PLANT

2 tonne per day



COMMERCIAL FACILITY

40,000 tonne per year

Plant economics with fossil parity

- From a 500kt p.a. plant built outside of Denmark



MARINE

**1,200 – 1,800
EUR/tonne**



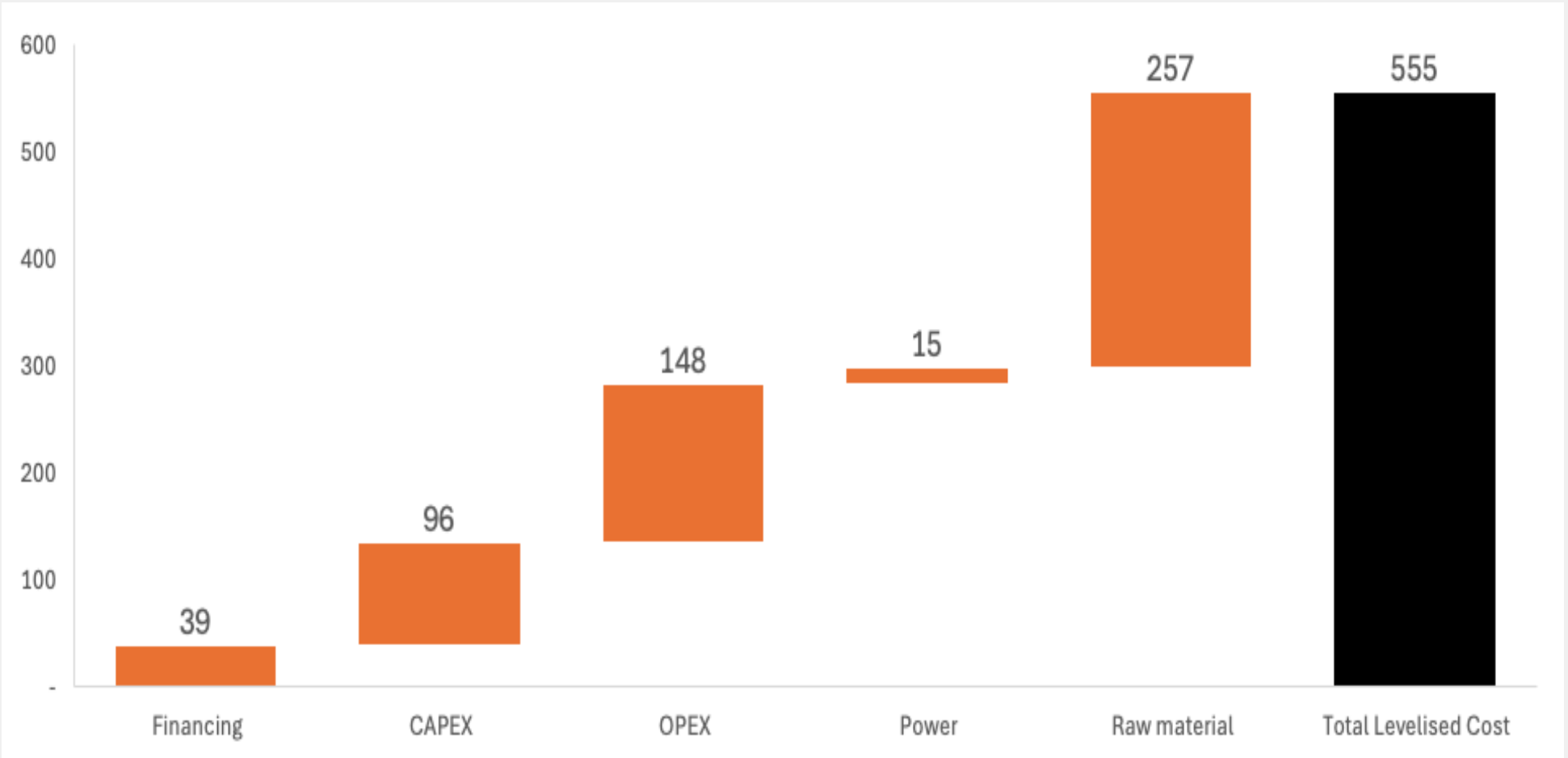
REFINERIES

**500 – 3,000
EUR/tonne**



OTHER

**200 – 3,000+
EUR/tonne**





ANDERS B. KRISTOFFERSEN

COO & CO-FOUNDER

CONNECT WITH ME:

anders@kvasirtechnologies.com



THANK YOU



GlobalWafers Co., Ltd.

**Global Family,
Global Solutions!**

TOPSiL

ULTRAPURE SILICON

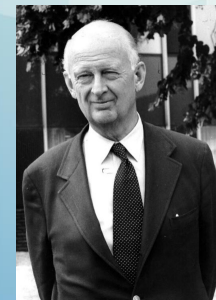


GW

Topsil GlobalWafers A/S

A Funding
Story

1959



2026

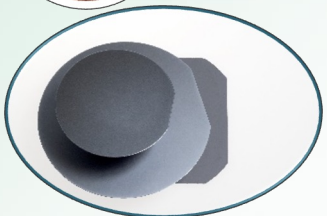




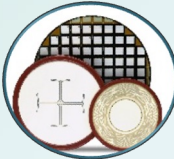
Purpose built production site
at no. 1 Silicon Road



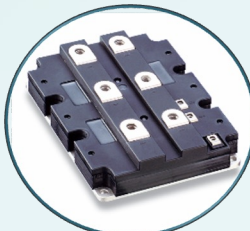
Produces ultrapure silicon crystal by
the Float Zone (FZ) method



Monocrystalline ingots are
manufactured into wafers and
sold to customers in the global
semiconductor industry



Customers build power
components using FZ wafers
as base material



FZ based power components
are sold and used in nearly
all power applications for
voltages above 1200 volt

FZ silicon for Power



Typical
applications
using Float
Zone silicon
based power
components



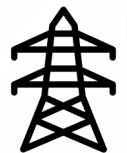
EVs



Windmills



Power Grid



**Power
to X**



Trains



Production Equipment



Funding is a continuous process

- 2016 - FZ300 by IFD (rejected)
- 2018 - TRIM by IFD with several partners
- 2019 - Solid State Generator PhD by IFD with AU
- 2020 - Post Doc by IFD with AAU
- 2021 - Phd by MADE (IFD) with DTU
- 2023 - GreenHeat by IFD with AU & Kallesoe Machinery
- 2024 Dec - FZ300 by EUDP
- 2025 Sep - Factory expansion by EIFO
- 2025 - Phd by MADE (IFD) with DTU
- 2026 - Green Waves by IFD (in process)
- 2026 - AQURATE by IFD with several partners (in progress)

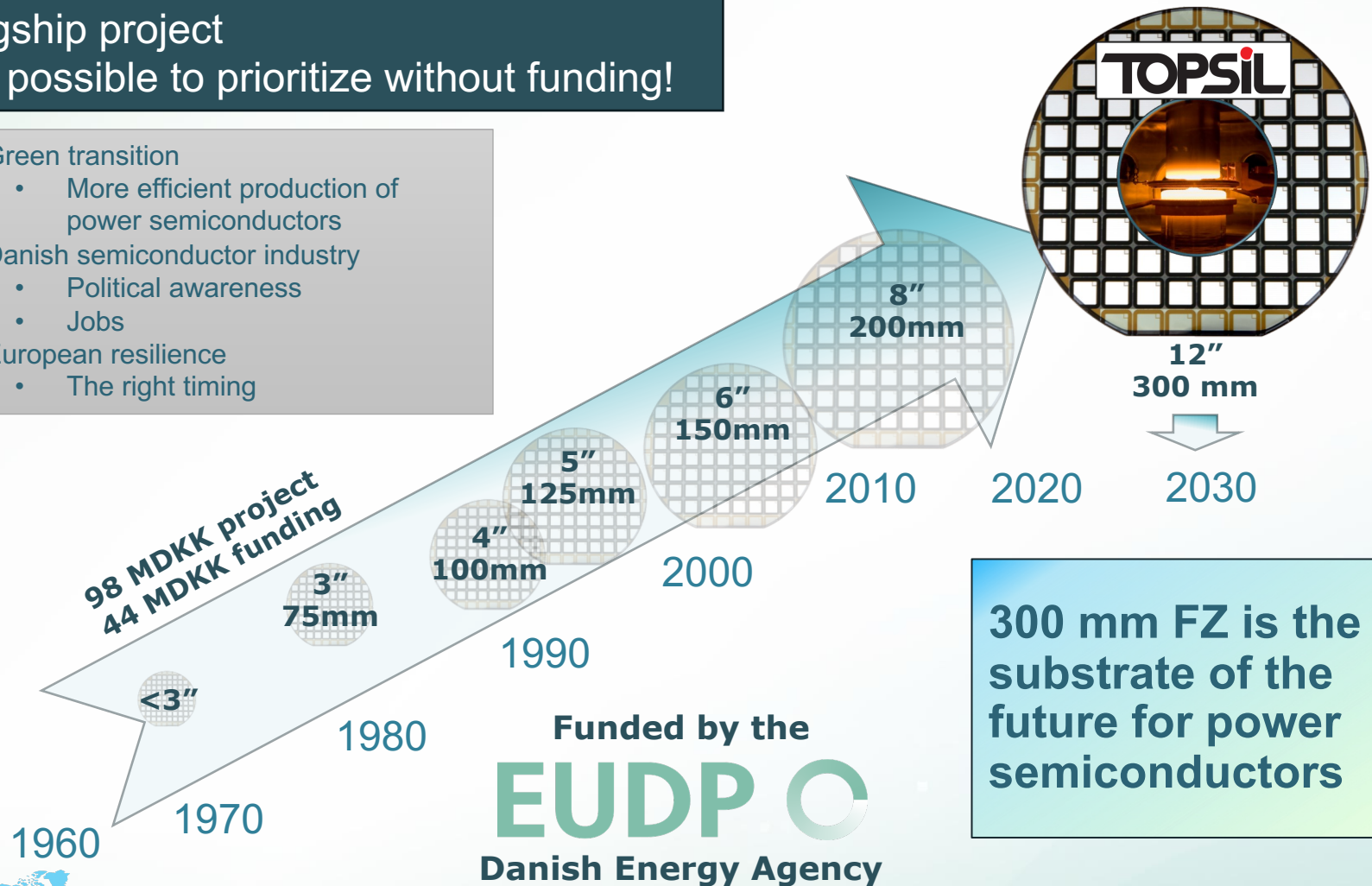


FZ300 R&D Project

- world's first 300 mm Float Zone silicon wafer

Flagship project
Not possible to prioritize without funding!

- Green transition
 - More efficient production of power semiconductors
- Danish semiconductor industry
 - Political awareness
 - Jobs
- European resilience
 - The right timing

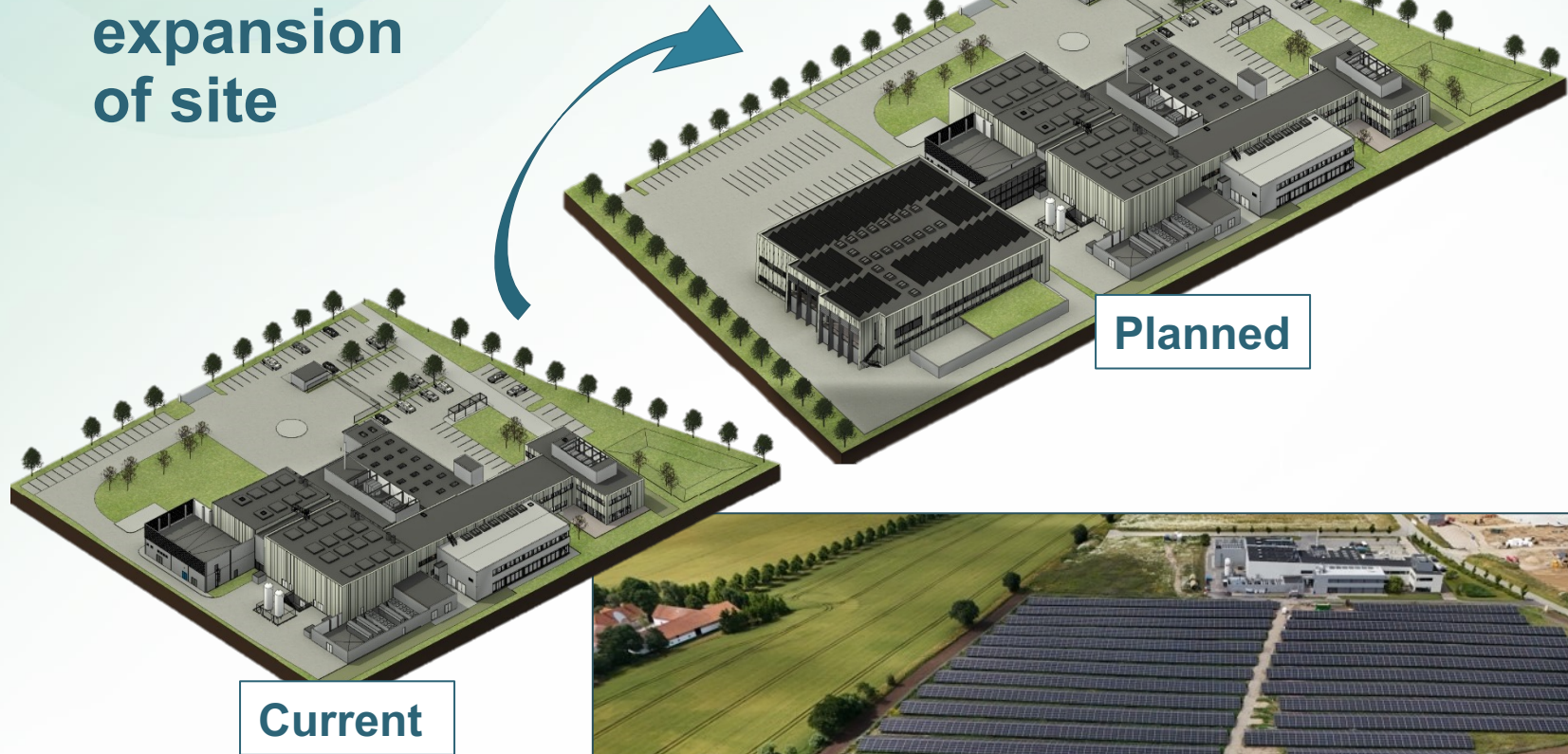


FZ300 ~2 years of work

- Public Affair work - Consultant
- 1st Mile
- Companies, Institutions, Universities
- Local politicians - Hans Andersen & Rasmus Stoklund
- Christina Egelund - Minister of Higher Education and Science
- Morten Bødskov - Minister for Industry, Business and Financial Affairs
- Rasmus Stoklund - Taxation minister



Planned expansion of site



**700 MDKK project
100 MDKK funding**



Factory expansion ~1½ year work

- Starting with tail wind - Harvest while you can!
- 1st Mile
- Green transition
 - More efficient production of power semiconductors
- Danish semiconductor industry
 - Political awareness
- European resilience
 - EU share of semiconductor marked
 - Competition with state support in US, China, Korea, ...



Thank You
Website: Topsil.com



SUNE BRO DUUN
CTO

Tel.: +45 51 92 66 17
E-mail: sdu@gw-topsil.com

Topsil GlobalWafers A/S
Siliciumvej 1
DK-3600 Frederikssund

Tel.: +45 47 36 56 00
E-mail: topsil@gw-topsil.com

Data Unlocked: Privacy Preservation, Public Sharing, and Added Value Creation

Contact: Lesia Mitridati (lemitri@dtu.dk), Jalal Kazempour (jalal@dtu.dk)

Unlocking the value of data

What is the main source of inefficiencies in energy systems? Lack of high-quality data!

How do we exit this vicious circle & unlock the value of data?

*We need to **demonstrate jointly the value of data** and how high-quality data can be shared safely, **without compromising privacy/security***

Why is our approach novel?

- End-to-end **data sharing and utilization pipeline**
- **Trade-off between privacy & quality of data shared**
- **Flexible & reusable framework** to unlock vast amounts of data & new business models



Why small wind has failed — and why it's about to work.



CONVENTIONAL

3–40 tonnes



KITEX TWT-11

0.3 tonnes

13x more energy per kilogram of structure

PROOF →

REAL FARM. REAL WIND.

Not a simulation.

1,000 kWh

in 20 days. cP matches our model.

€2.3M pre-orders

99 customers, deposits down, waiting on type approval.

Q4 2026

IEC 61400-2 type approval. First commercial installs: early 2027.

Northern Germany · June 2025