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THE VACUUM CAPACITOR

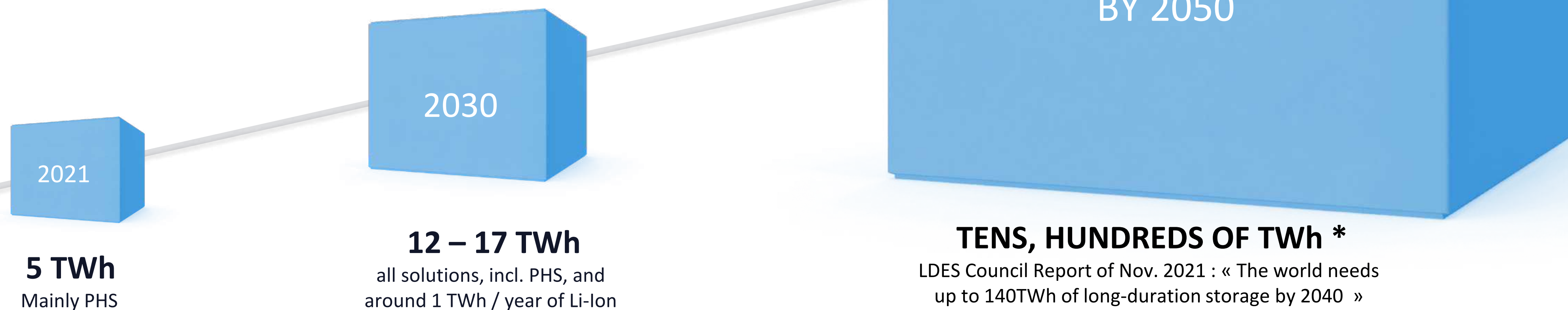
THE ULTIMATE ENERGY STORAGE TECHNOLOGY



CLEAN ENERGY NEEDS HUGE STORAGE CAPACITIES

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CURRENT TECHNOLOGIES AREN'T ABLE
TO MEET THESE REQUIREMENTS
(BELOW : STATIONARY STORAGE ESTIMATES)

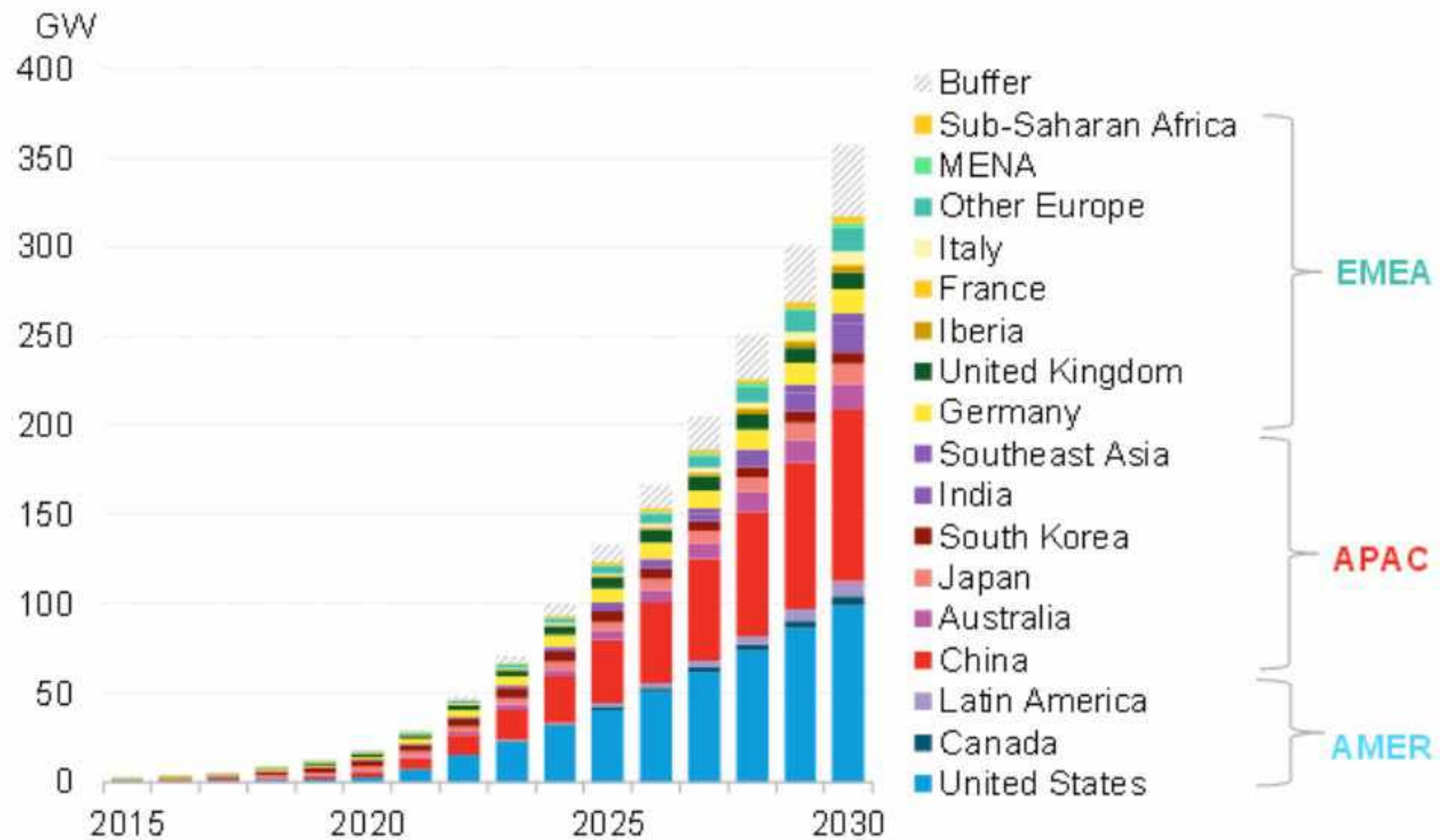


GLOBAL NEEDS
BY 2050

AN APPROPRIATE ENERGY STORAGE SOLUTION IS CRUCIAL FOR A CLEAN ENERGY TRANSITION.

STATIONARY ENERGY STORAGE : A FAST-RISING GLOBAL DEMAND

Global cumulative energy storage installations, 2015-30



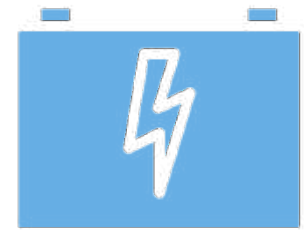
Source : BNEF – Nov. 2021

Global energy storage capacity is forecast to grow from 34GWh in 2020 to over 1TWh in 2030, with investment of \$262bn.

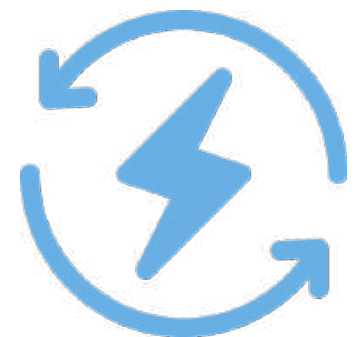
An investment of \$1.5 - 3tn is actually required to meet net zero goals on the grid by 2040.

THE VACUUM CAPACITOR : A DISRUPTIVE SOLUTION

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VERY HIGH DENSITY



**PURE ELECTRICITY
HIGH ROUND-CYCLE EFFICIENCY**



LIGHT

**CHEAPEST
TECHNOLOGY**

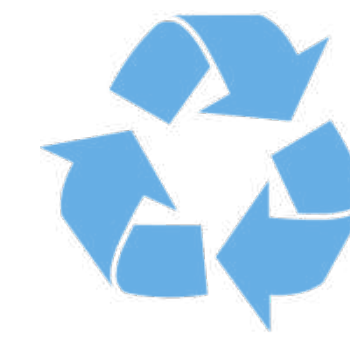
SAFE

**NO RELIANCE ON RARE,
EXPENSIVE OR 'ECO-DAMAGING'
RESOURCES**

**FIT-ALL SOLUTION FOR ALL
CLIMATIC CONDITIONS,
INCL. SPATIAL**



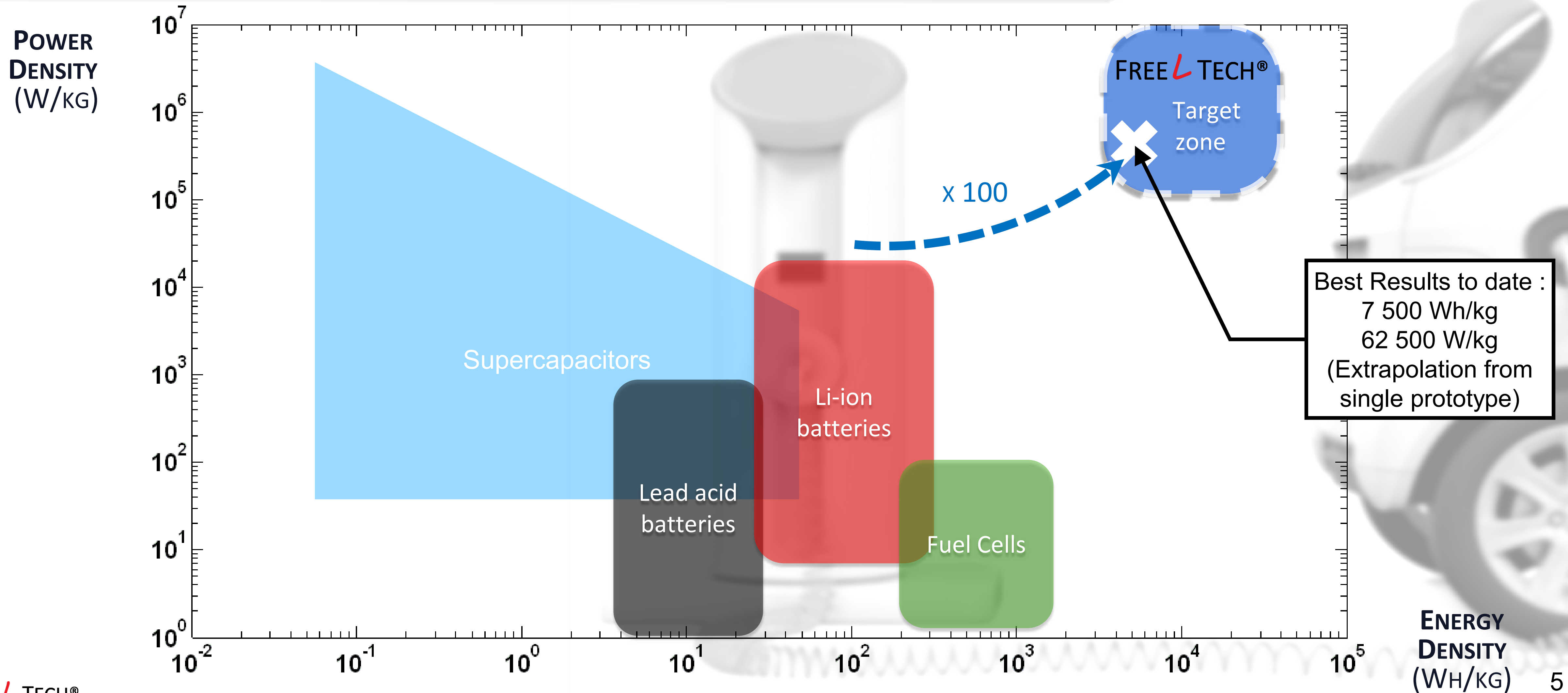
**ALL TYPES OF
APPLICATIONS**



**ENVIRONMENTALLY-FRIENDLY
EASY RECYCLING**

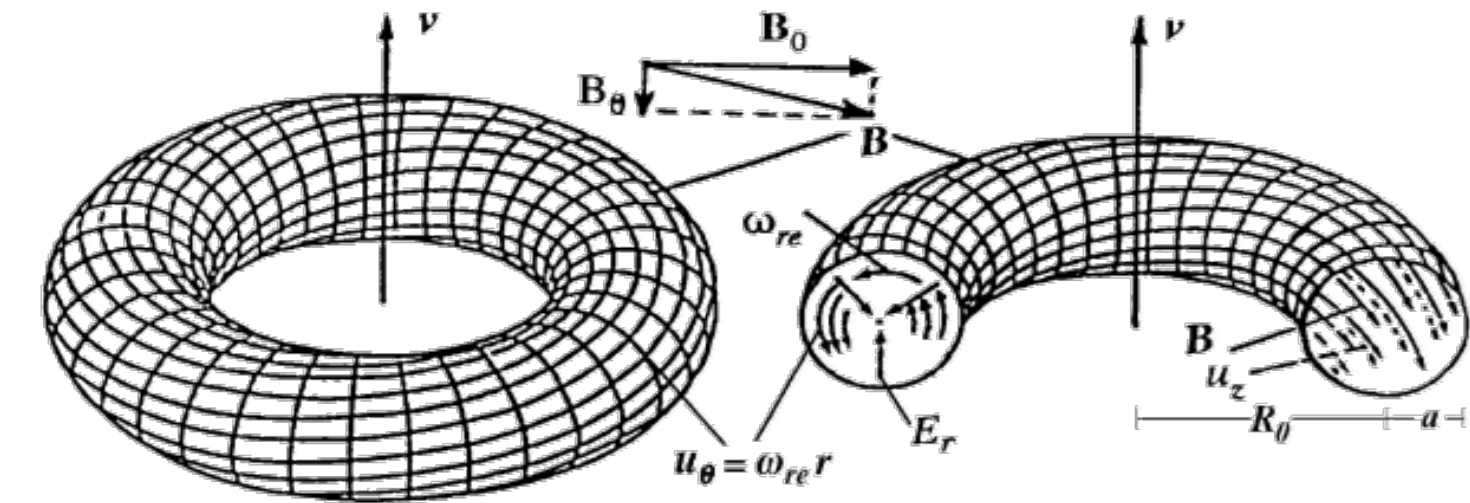
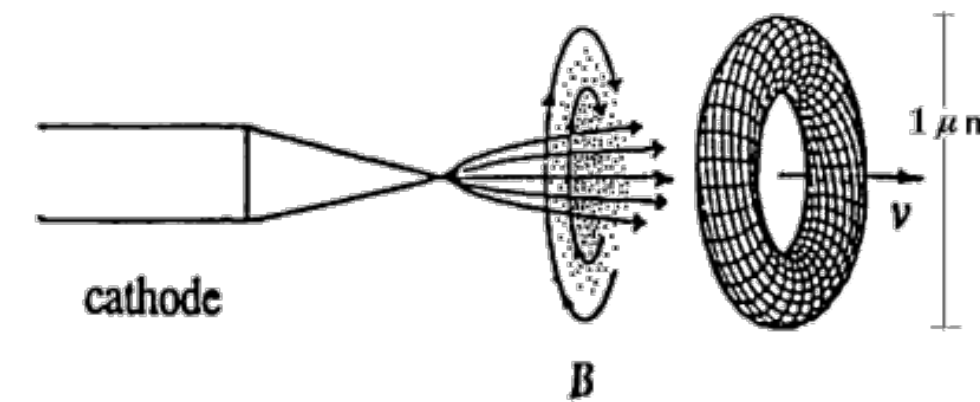
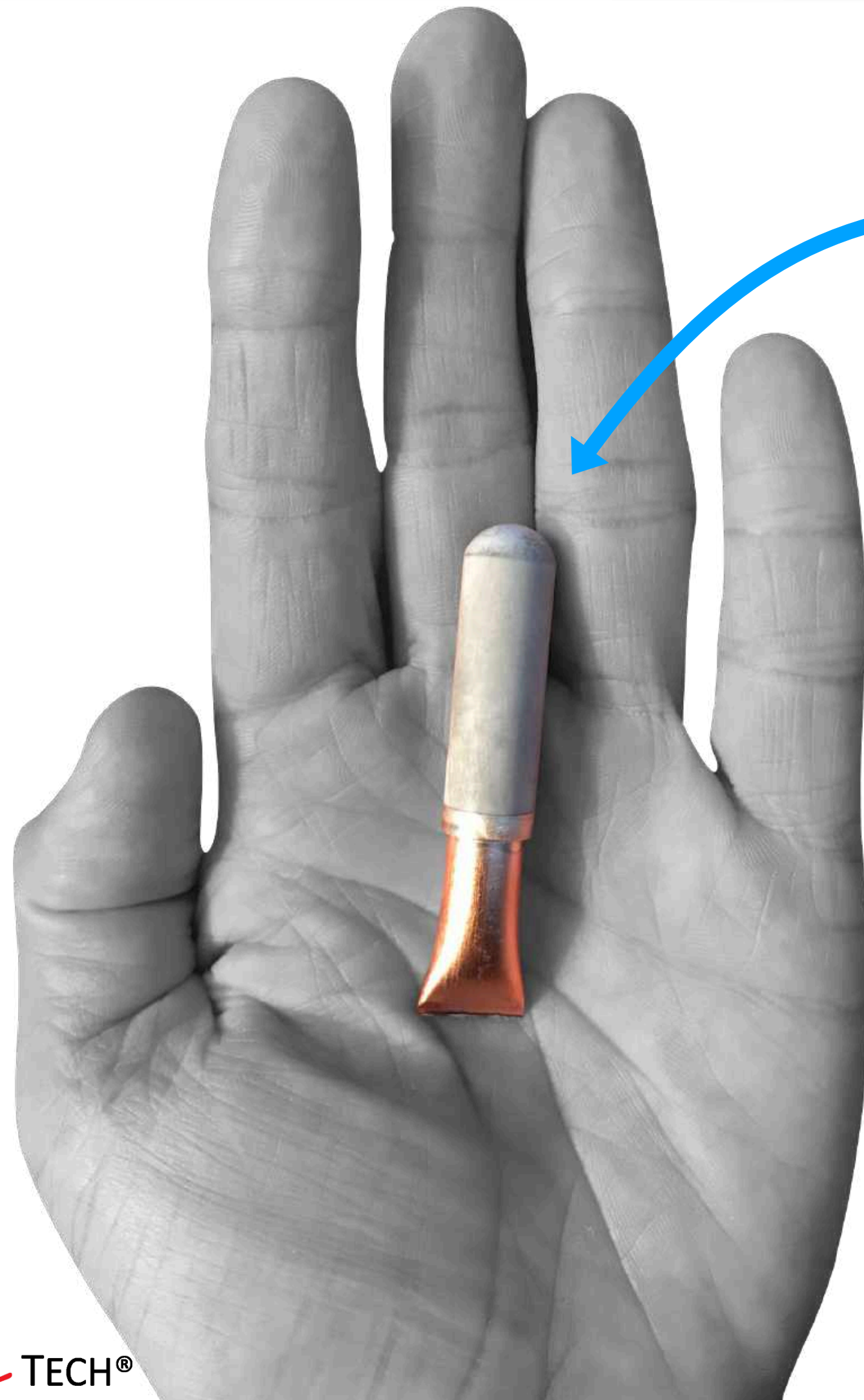
THE VACUUM CAPACITOR : AN UNMATCHED ENERGY & POWER DENSITY

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THE VACUUM CAPACITOR

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**CHARGES (e^-)
STORED DIRECTLY
AS CLUSTERS,
INSIDE A SMALL BULB
UNDER CONTROLLED
ATMOSPHERE**

TARGET PERFORMANCES

- ▶ ENERGY DENSITY : 0.5 kWh / PROTOTYPE
- ▶ AFTER INTEGRATION : 10 kWh / kg
- ▶ LOW COST : < 50 USD / kWh
- ▶ HIGH NUMBER OF CYCLES, ENDURING
- ▶ HIGH ROUND-CYCLE EFFICIENCY
- ▶ SMALL QUANTITIES OF MATERIALS NEEDED
- ▶ NO RARE OR EXPENSIVE RAW MATERIALS
- ▶ LOW ENVIRONMENTAL IMPACT
- ▶ SIMPLE RECYCLING

THE VACUUM CAPACITOR: A SILVER BULLET, SUITABLE FOR MOST APPLICATIONS

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WITH MANY COMPETITIVE ADVANTAGES, FREEL TECH TARGETS ALL MAINSTREAM MARKETS FOR ENERGY STORAGE IN FUTURE YEARS.



BEHIND THE METER
RESIDENTIAL I&C



MAIN TARGET
MARKETS AND
APPLICATIONS FOR
THE VACUUM
CAPACITOR



ELECTRICAL MOBILITY
(ROAD, AIR, SEA)



STATIONARY STORAGE
SMART GRIDS
GRID SCALE



THE TEAM

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Michael IRGANG
CEO & Co-Founder

Executive Engineer and Manager, graduated from Mines ParisTech

Expert in Energy, Nuclear Energy, > 25 years experience



Roman KHOLOSHENKO
CTO & Co-Founder

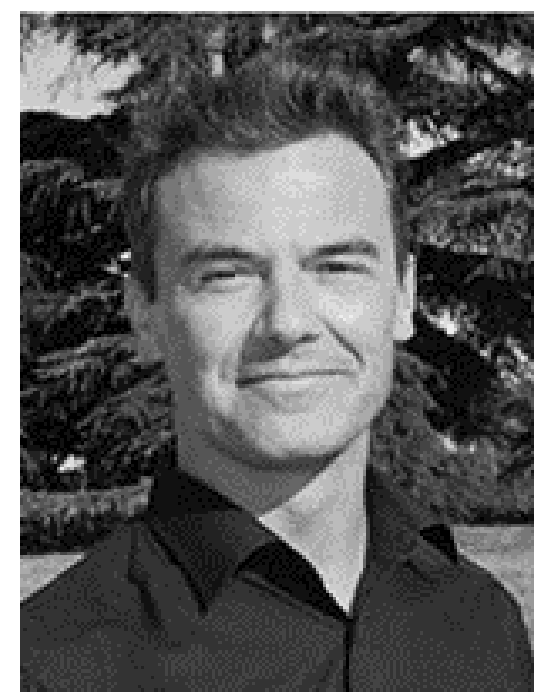
Military career, then Engineer & Business owner In Russia

Expert in Electronics and Magnetic Fields, invented the « Vacuum Capacitor »



Jean-Philippe GINESTET
Technical Director

>30 years as consultant and team leader innovation management and R&D (design, implementation) in various high-tech fields (supercapacitors, electromechanics, optical, semiconductors...)



Julien PLAN
Business Dev. Director

Mechanical Engineer
Nuclear Engineer
Executive-MBA

Expert in Energy & Industrialization



William WEBER
Energy Engineer

Graduated from the Griffith's School of Engineering (Brisbane, Australia)

Expert in Energy Storage, Renewable Energy



Roland IRGANG
CFO

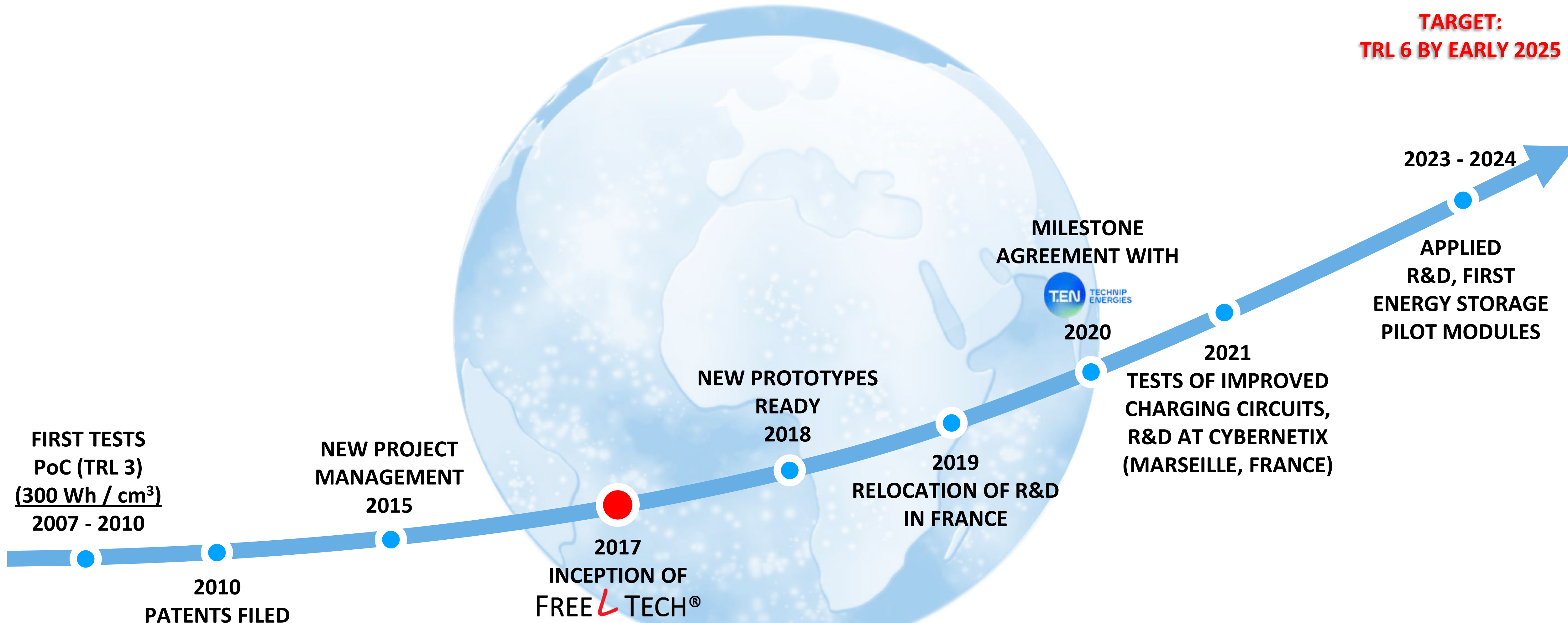
Post-graduate Degree in Banking&Finance (La Sorbonne, Paris, France)

Fundraising, Strategy, Valuation, Investment Policy, Financial Advisory

PROJECT'S TIMELINE

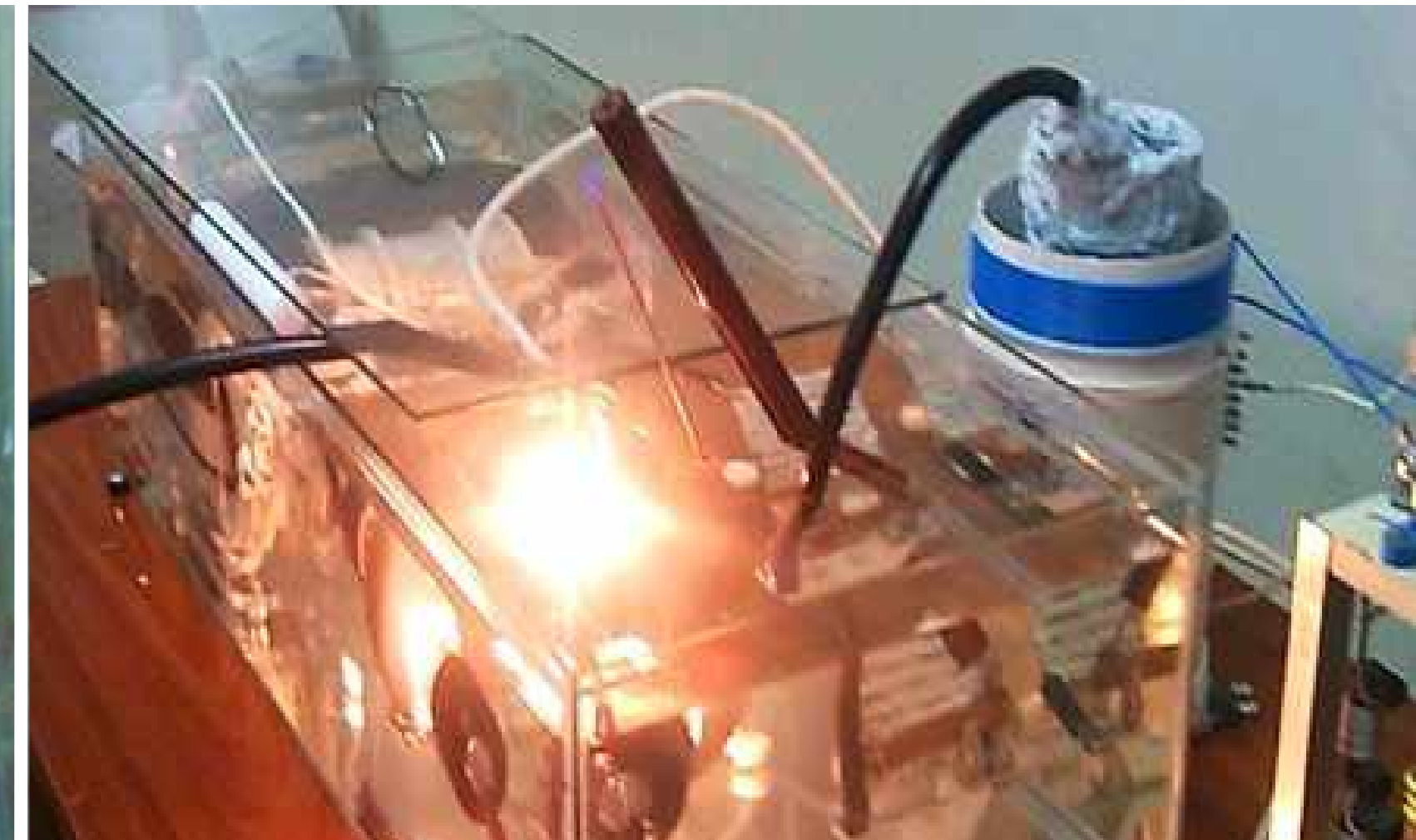
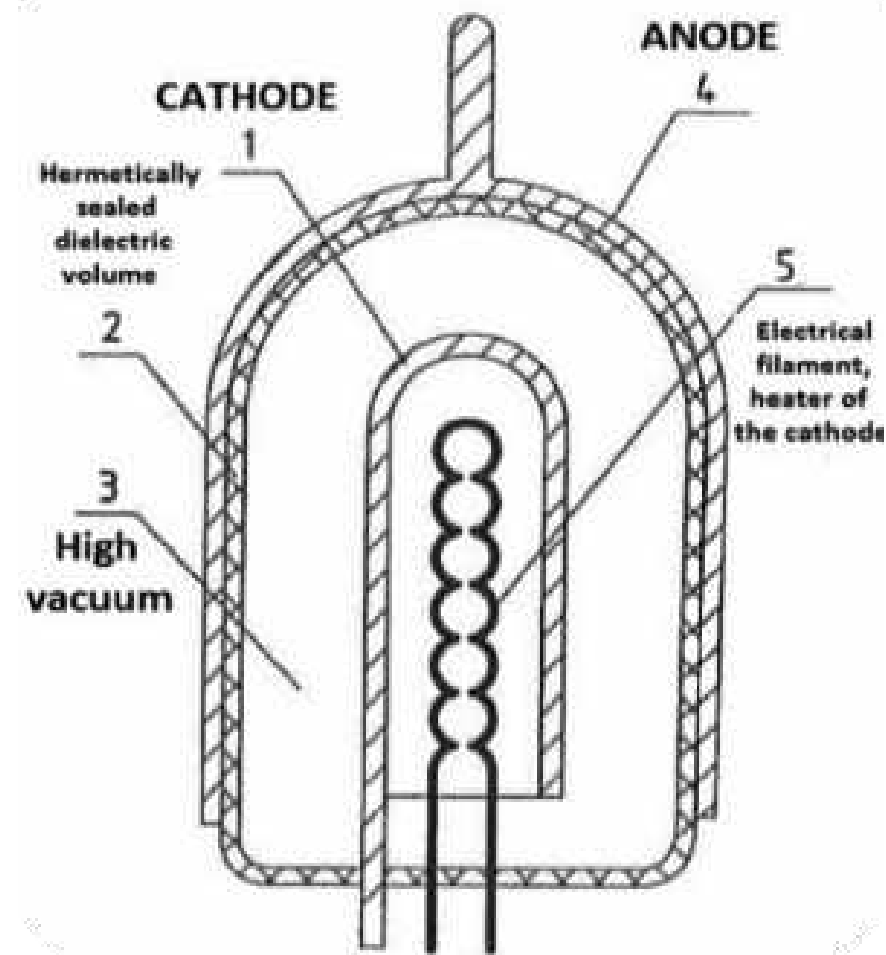


**TARGET:
TRL 6 BY EARLY 2025**



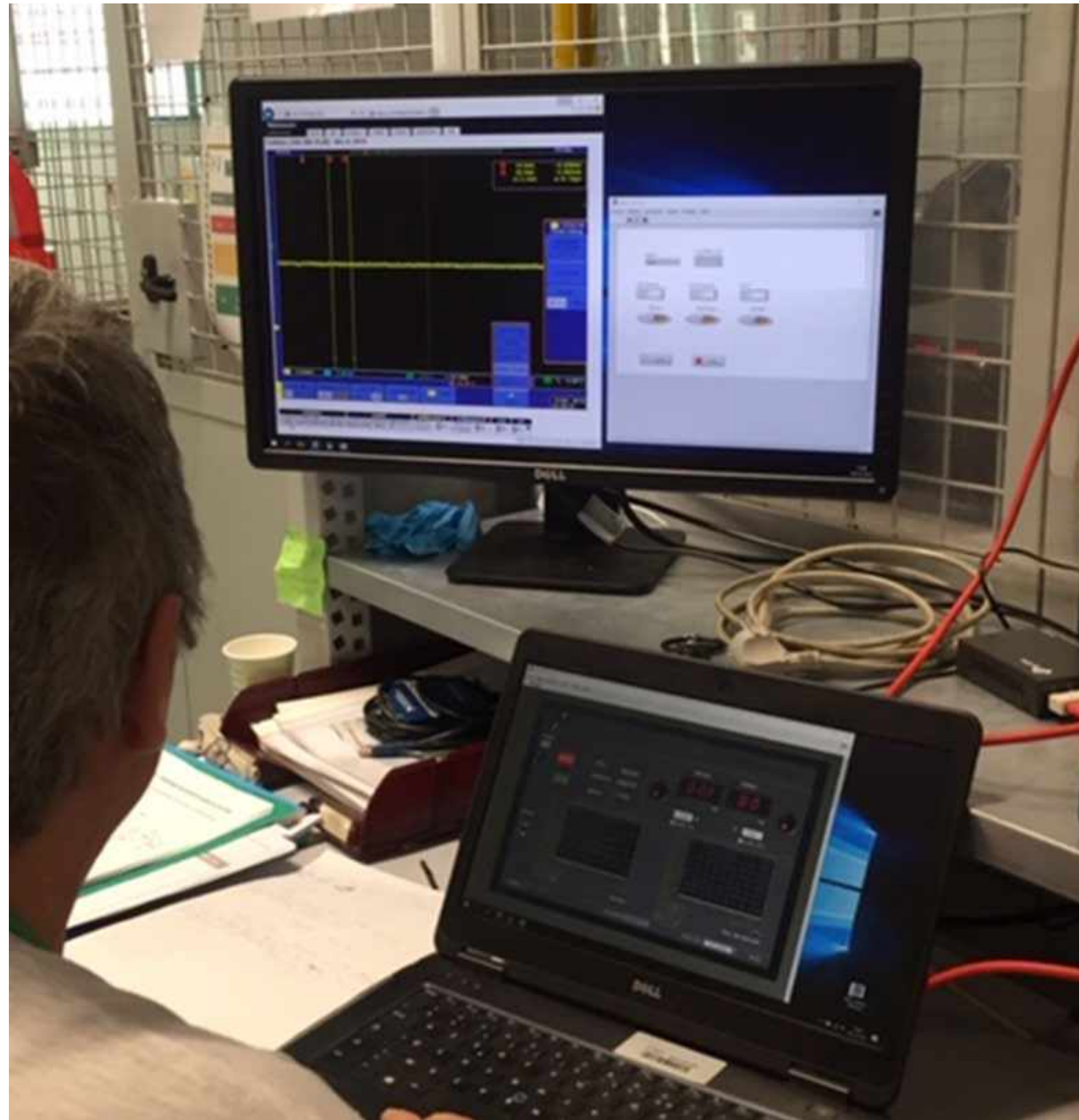
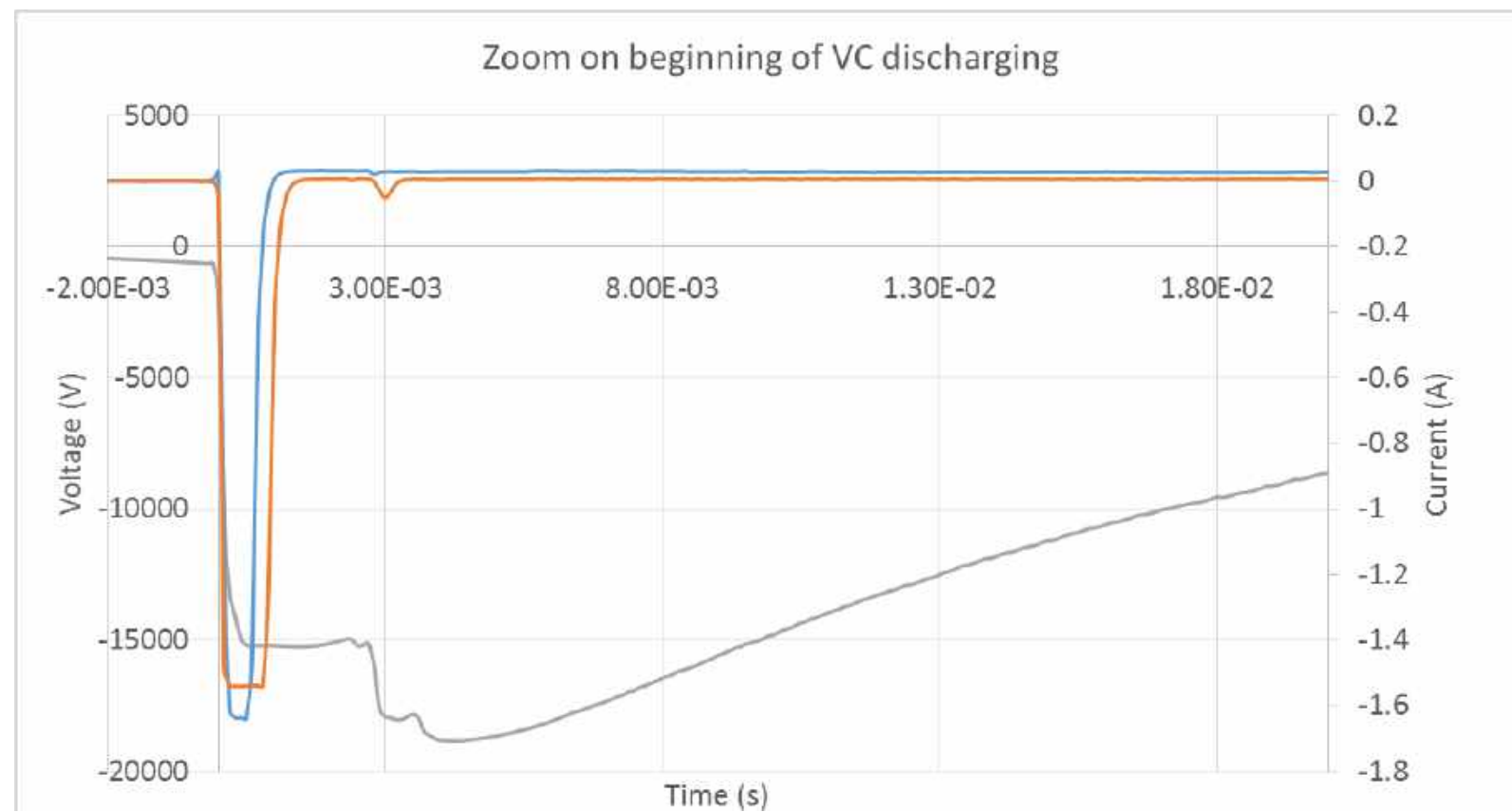
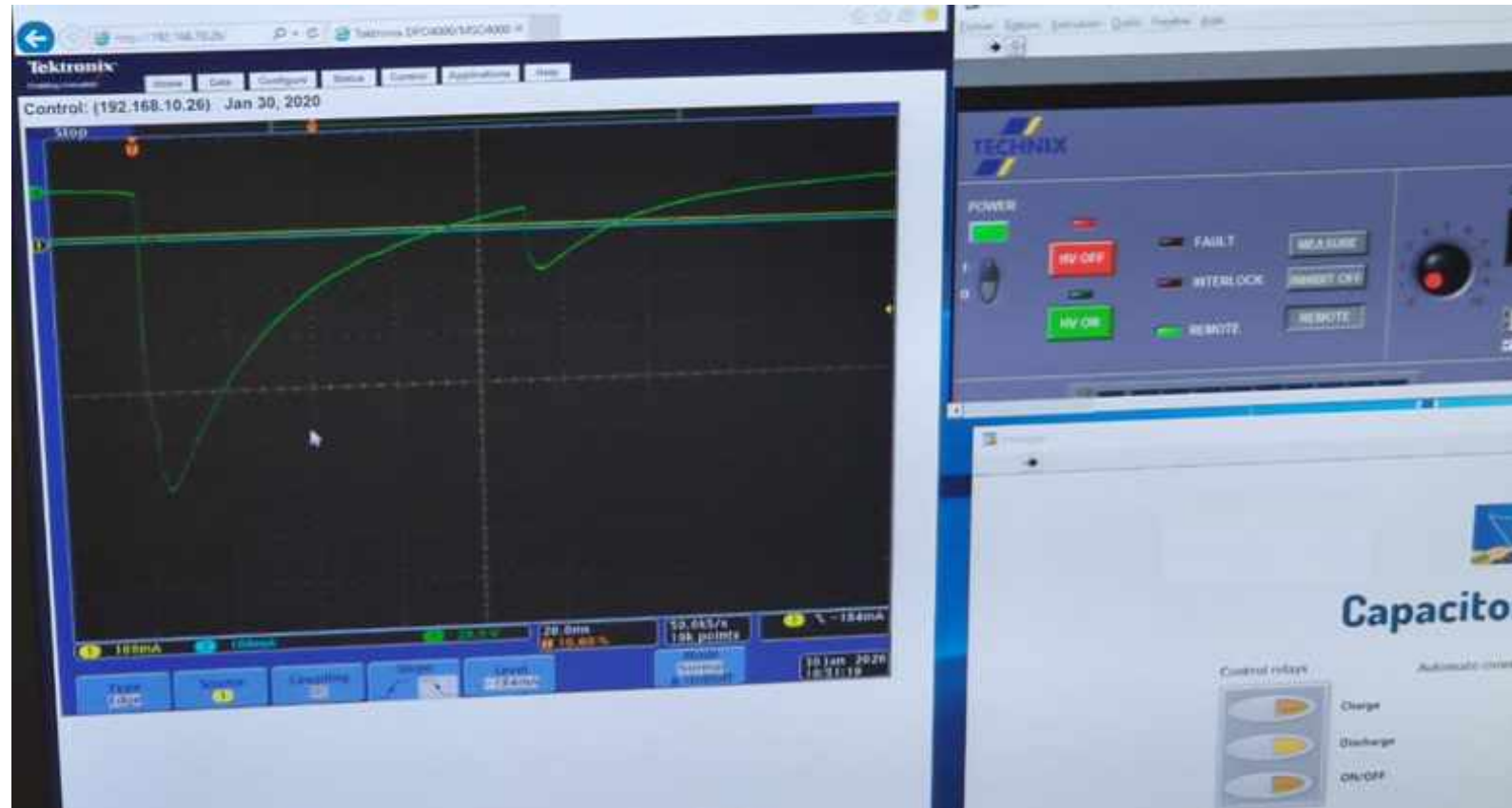
THE BEGINNING (2007)

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TESTS IN FRANCE (WINTER 2019-2020)

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PARTNERSHIP WITH TECHNIP ENERGIES (AUGUST 2020)

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FREEL TECH HAS FINALIZED A STRATEGIC PARTNERSHIP WITH TECHNIP ENERGIES, SUPPLYING FRESH INVESTMENT, EQUIPMENT, LAB FACILITIES, TECHNICAL AND MARKET EXPERTISE.

R&D CONTINUES AT A FIRST-CLASS INDUSTRIAL FACILITY IN THE SOUTH OF FRANCE SINCE OCTOBER 2020.

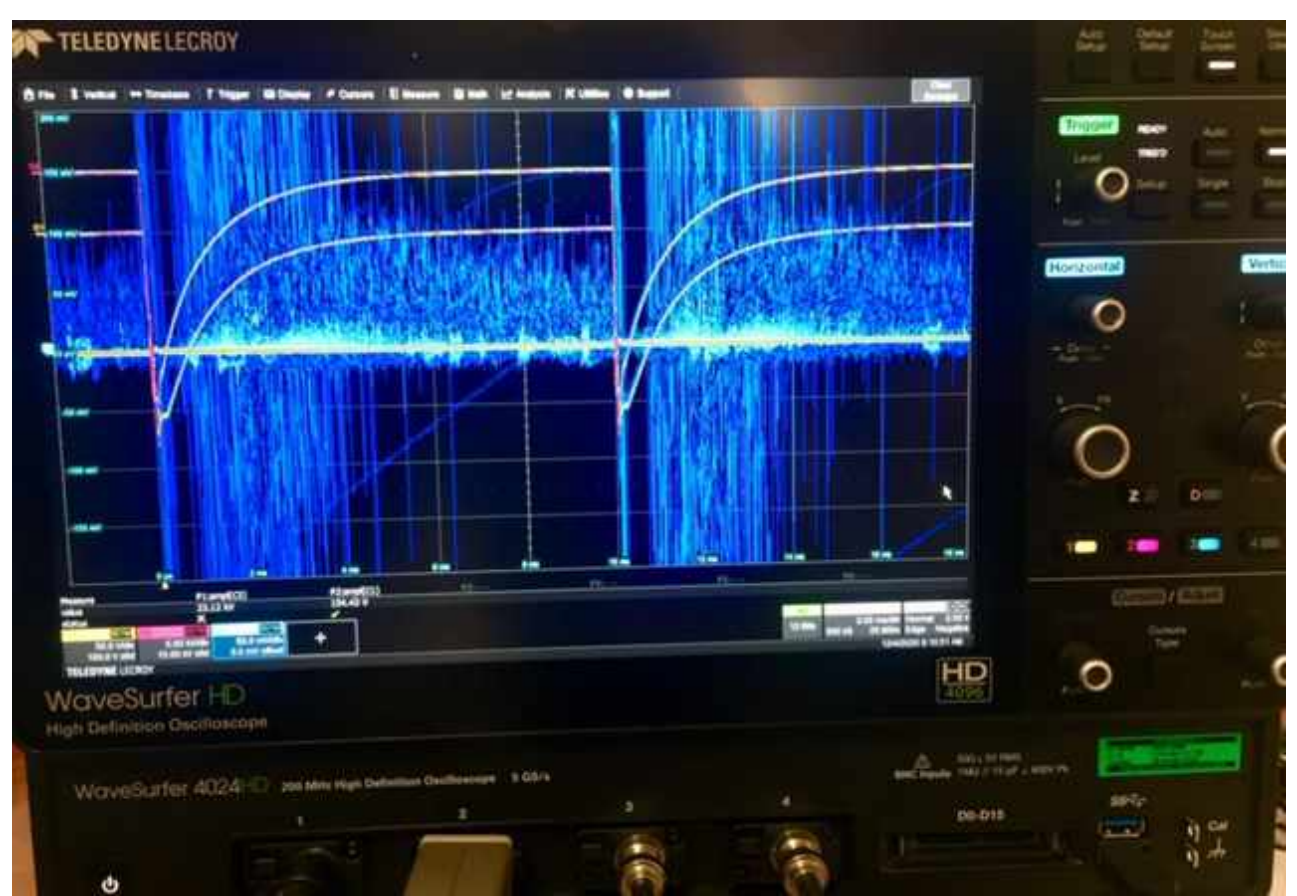
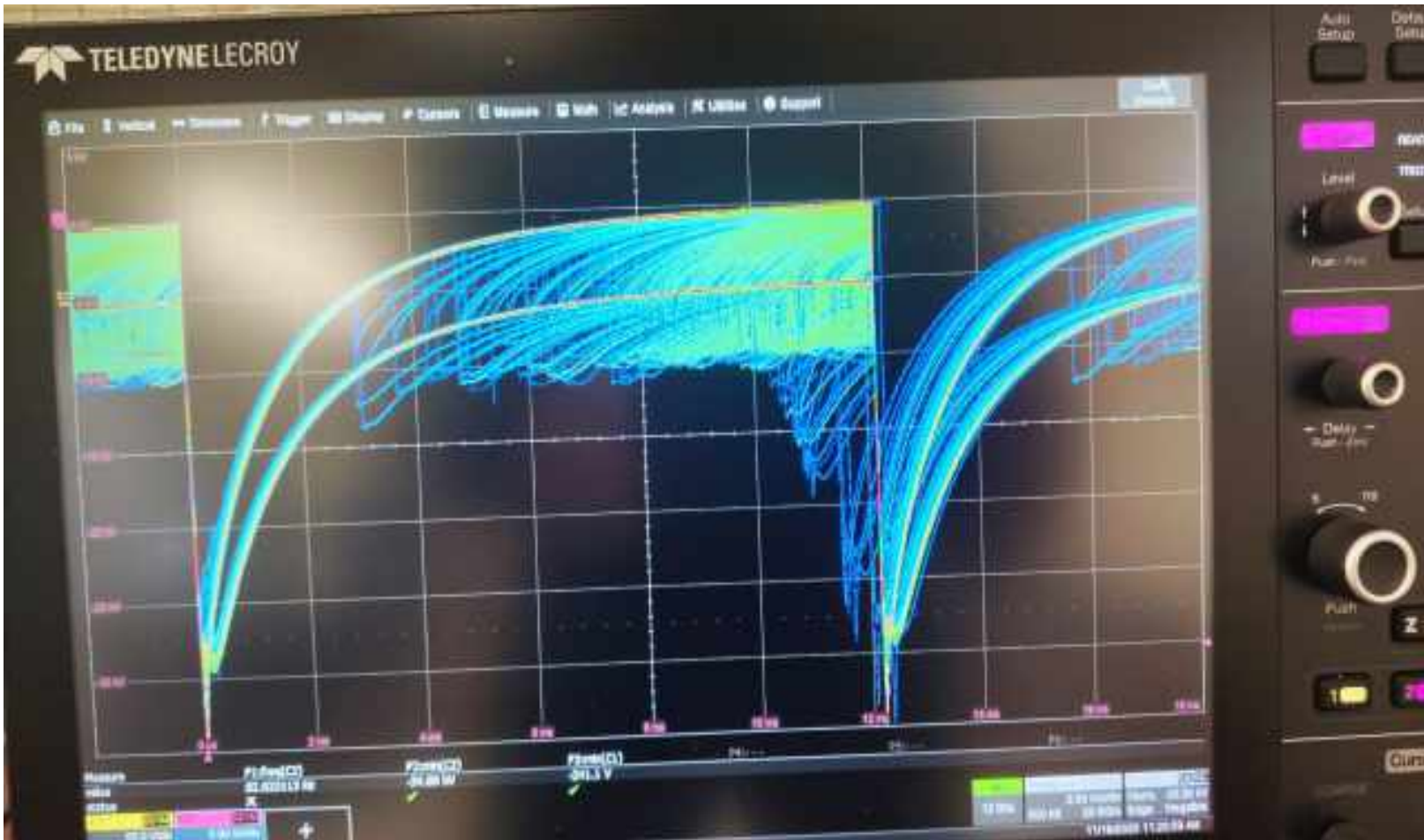
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TESTS IN MARSEILLE (FRANCE) (SINCE OCTOBER 2020)

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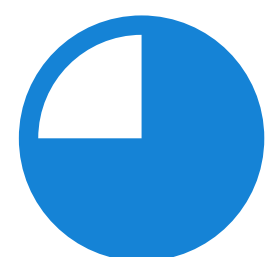


SNAPSHOT

FREE TECH[®]



CREATED AND INCORPORATED IN LUXEMBOURG IN APRIL 2017



CORE MANAGEMENT OWNS MAJORITY OF CAPITAL



INDUSTRIAL PARTNERSHIPS SEEKED TO MATURATE & TEST THE PRODUCTS



MULTIPLE WORLDWIDE PATENTS FOR THE TECHNOLOGY

