

Key Message

anabrid delivers the world's most **energy-efficient** supercomputing through hybrid analog-digital technology, solving problems **1000x faster** while using **10,000x less energy** than digital alternatives



Problem: Digital computing reaches its limits



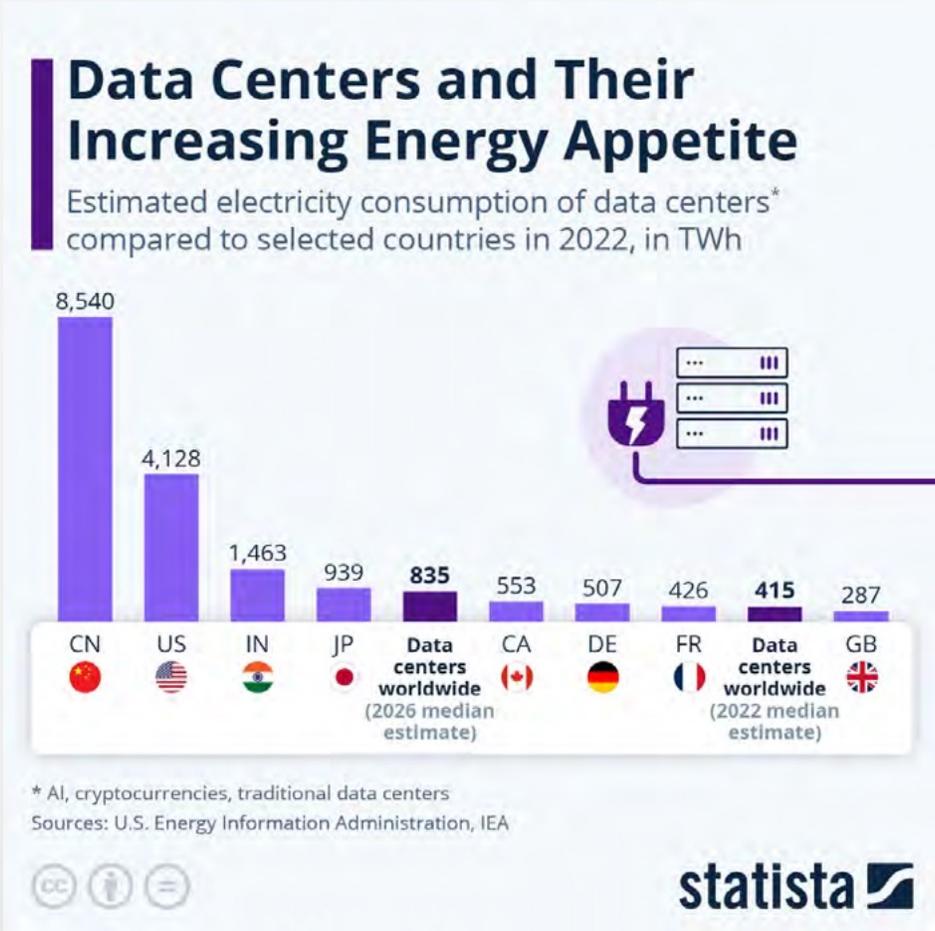
Solution: Proven analog-digital hybrid



Market: \$500B+ computing industry transformation

The computing crisis

Where digital computing has hit the wall



Moore's Law is Ending: Digital systems can't get faster



Rising Energy Use: Rising data workloads drive energy usage through the roof.



Heavy Workloads: Modern problems are too complex for digital tech alone



Our Vision:

"We're reimagining computing by fusing analog and digital technologies to create ultra-efficient, powerful hybrid systems that redefine what's possible."

Lars Heimann, CEO

The Analog Advantage



Up to **1,000× faster** than conventional digital systems **regardless of the complexity.**



Up to **10,000× more energy efficient**



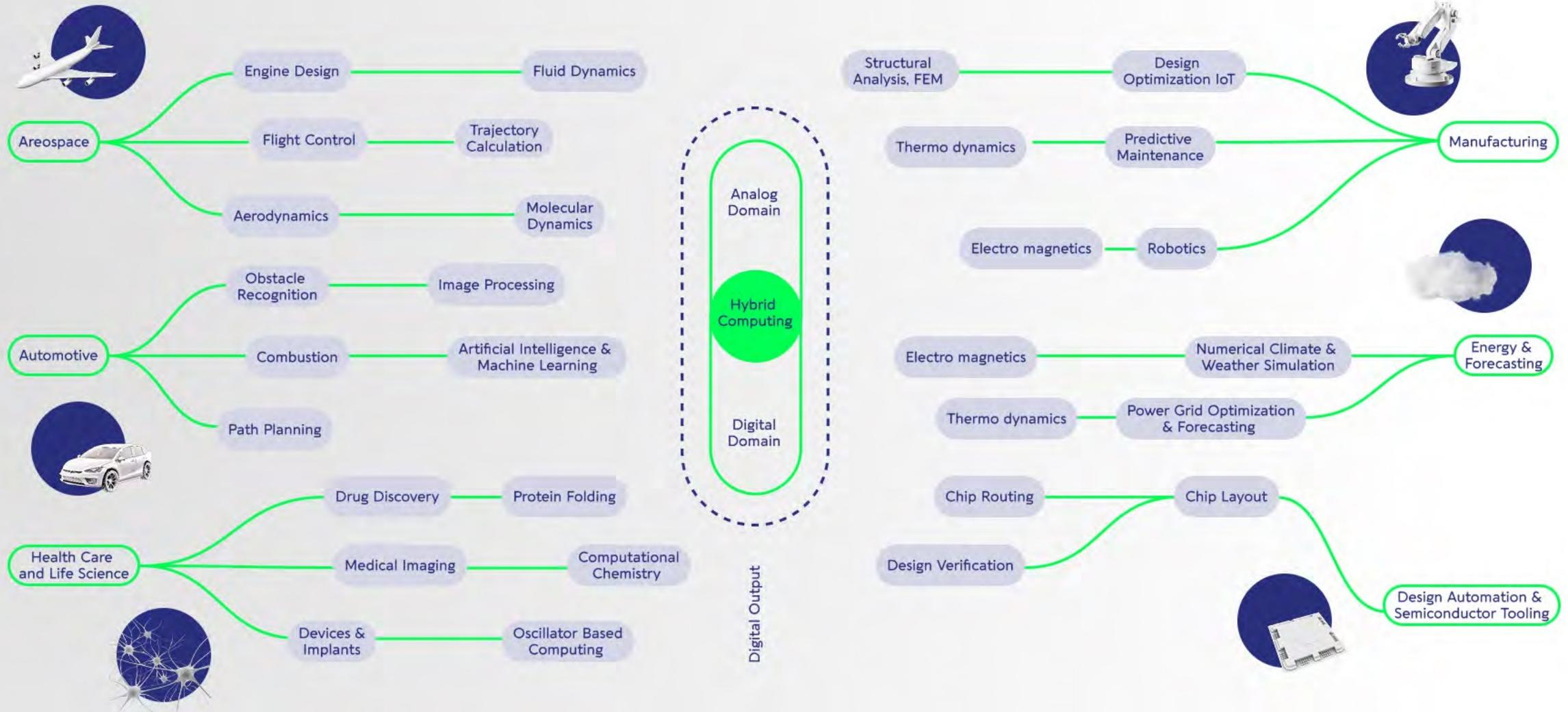
Inherently secure and **immune to hacking**



Enables faster innovation with instant, **reconfigurable computing**

Where Digital Falls Behind

Analog/Hybrid Computing Unlocks New Possibilities



Making the world Hybrid

THAT is your entry point



100% true parallelism



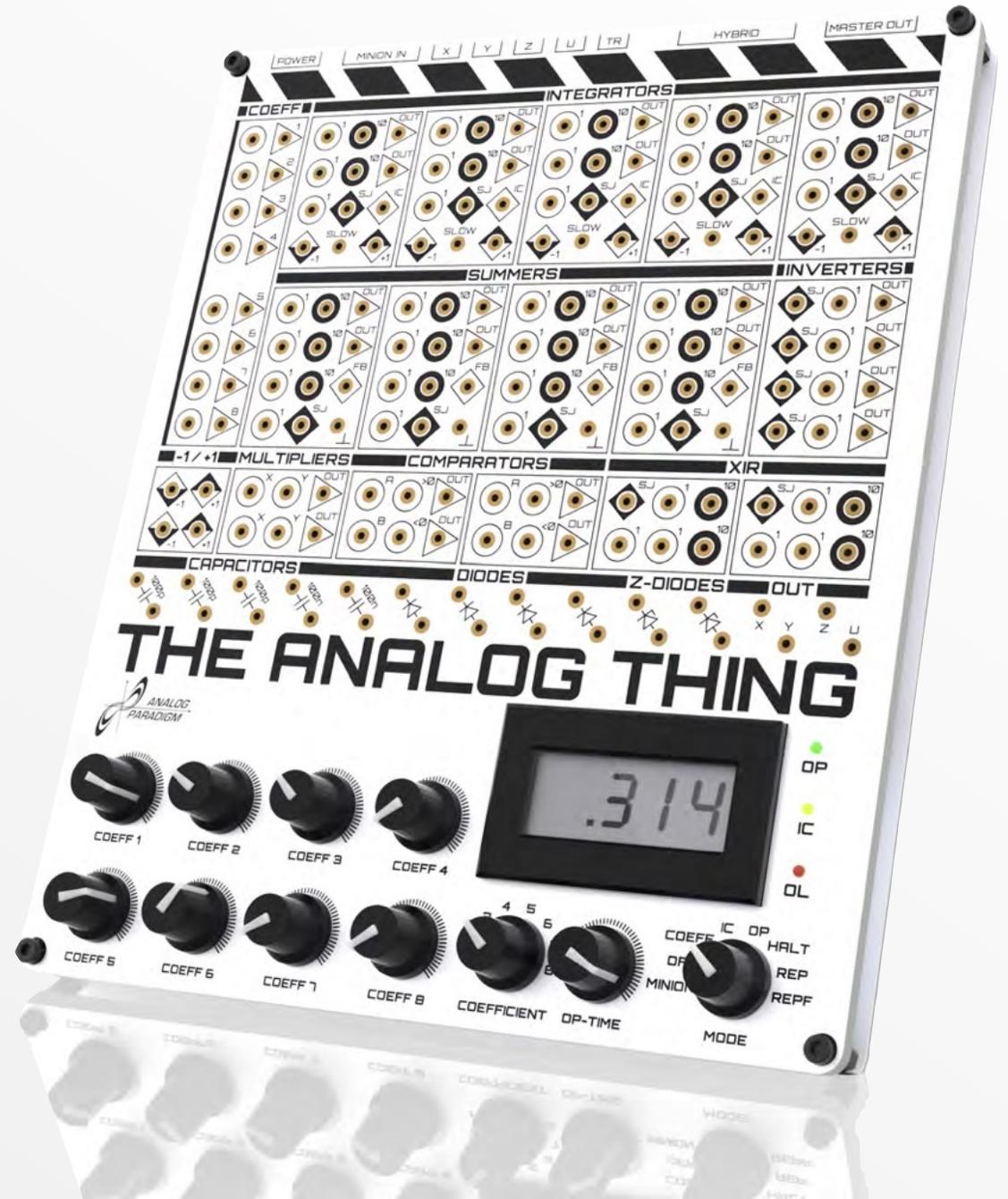
Seamless entry to analog computing



Exceptional Energy Efficiency



Proven track record in education



The REDAC

Analog/Hybrid Supercomputing



Massive **performance boost** for complex simulations



Highly energy-efficient **at scale**



Easy integration with existing systems



Simple, flexible programming tools

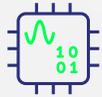


2 Pilot Customers - Active enterprise partnerships



Quantum Collaboration

Strategic Partnerships & Implementation Plan



Hybrid Quantum-Classical Control Systems



Quantum Simulation Acceleration



Error Correction & Calibration Systems

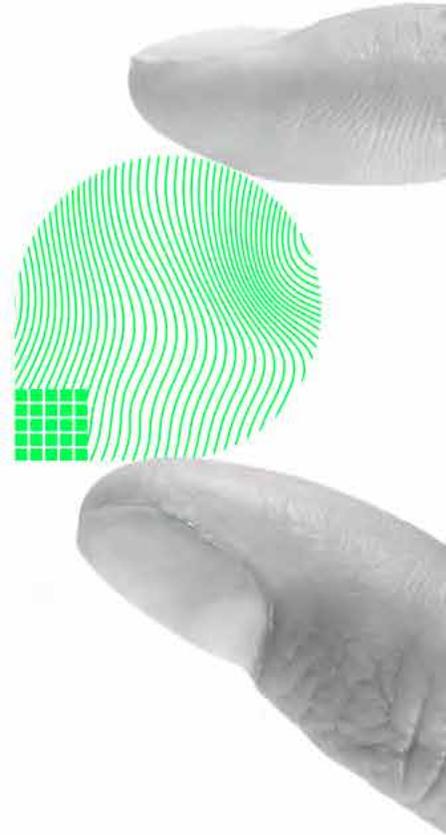


Quantum Machine Learning Infrastructure



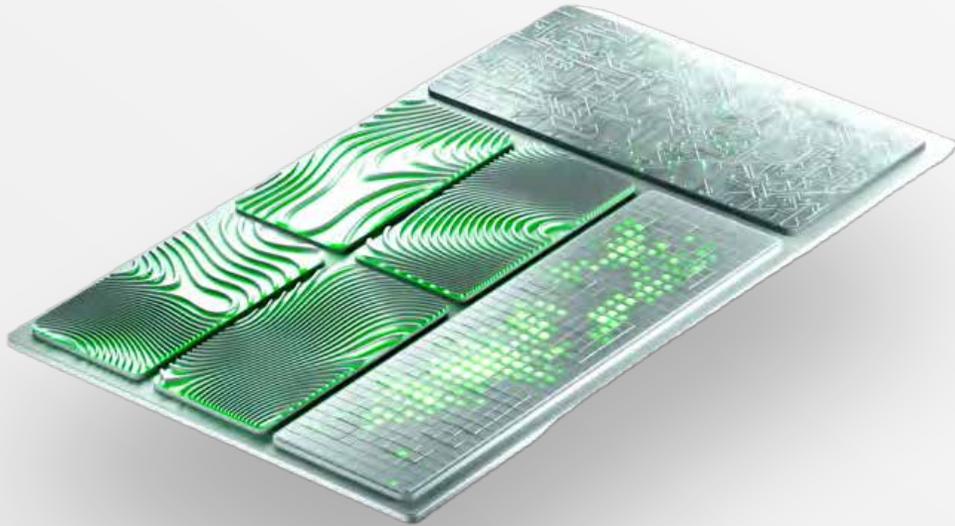
Quantum Sensing and Metrology

Quantum vs. Analog



Our Next Goal: Hybrid Chip

The first reconfigurable analog/hybrid realtime chip



Delivers up to **1000× better energy efficiency** than digital chips—ideal for low-power environments.

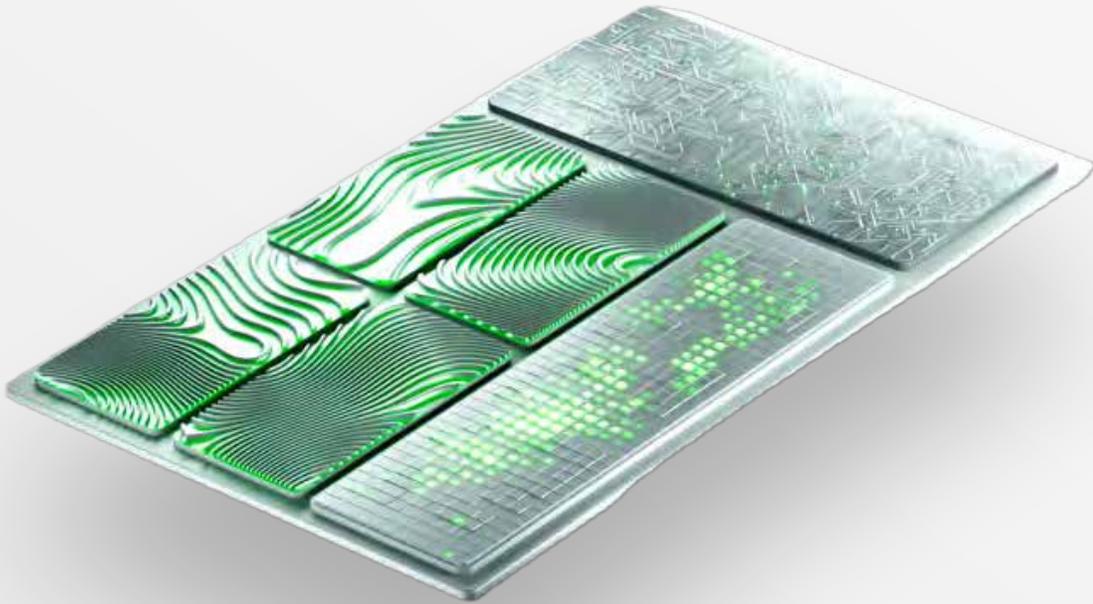


Scalable, **Low-cost manufacturing** via standard CMOS processes



Perfect for devices where size, cost, and energy use are critical—from **sensors to wearables**.

How should we name our Chip?



It's fast. It's
efficient. It needs
a name.

Green innovation made with hybrid computing

Next-Generation Flight Control



Instant Decision-Making: Reacts to flight changes in real time



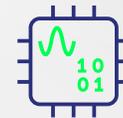
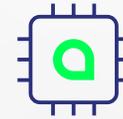
Analog-Level Security: No code, no breaches, no digital attack surface

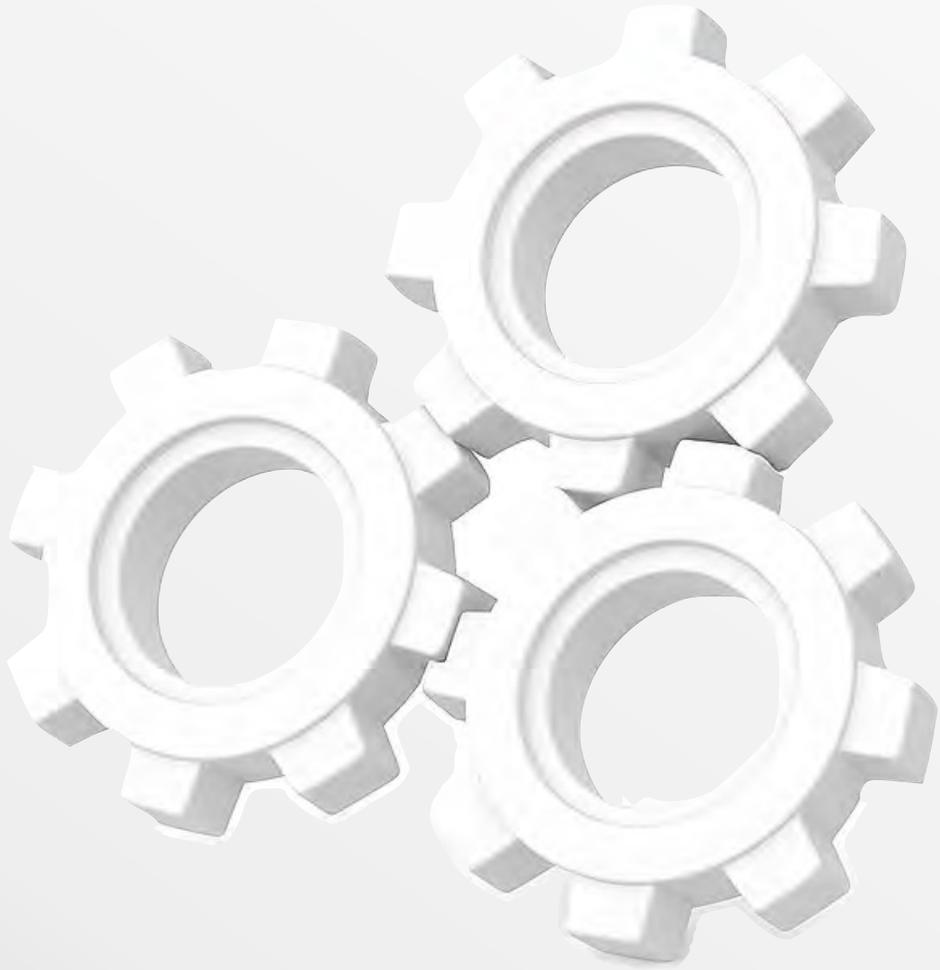


Intelligence in Motion: Adapts to takeoff, turbulence, or failure automatically, in-flight.



Radical Energy Savings: Up to 10,000× more efficient.





Made in Germany

As a proud German startup driving global innovation, we believe in the power of collaboration between industry, research, and government to shape the future of technology for our nation and the world.

European Independence



All components can be manufactured in Europe



Aligns with EU's semiconductor sovereignty goals



Takes advantage of Germany's growing semiconductor ecosystem



Reduces geopolitical risks for customers



Positions them to benefit from EU Chips Act funding and support

The Founders

Decades in Science and Consulting



Dipl.-Ing. Lars Heimann (CEO), is a results-oriented leader with a strong track record of building successful companies and deep expertise in the banking sector.



Prof. Dr. Bernd Ulmann (CVO), is the driving force in analog computing, blending deep academic expertise in mathematics with a strong focus on real-world applications.



Prof. Dr.-Ing. Dirk Killat (Head of Chip Development), leads innovation in efficient chip technology, advancing cutting-edge microelectronics.



Dr. Sven Köppel (CTO), is a quantum physicist with extensive experience in complex simulations whose strategic approach to science leadership is both flexible and effective

The Team

United by excellence, guided by vision



anabrid

Your Home for Hybrid Computing

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