Dalla scarsità all'abbondanza: IA informata dagli esperimenti per la scoperta di nuovi materiali privi di elementi critici

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OUR VISION

Replace all critical materials

with clean compounds made of abundant elements

Starting with permanent magnets — a $70B market dominated by rare earths

RARA's platform: physics-informed AI

In materials, atoms, not bits, matter.

We deal with atoms.

We have drawn the **map of compound materials** and discovered a fractal structure.

Patent publication no.: WO2026/009145

The map **makes our proprietary AI model more efficient.**

More accurate data → more accurate predictions

All our data is lab-validated: **we make both the physical and the digital twins** → unique competitive advantage



RARA's Loop

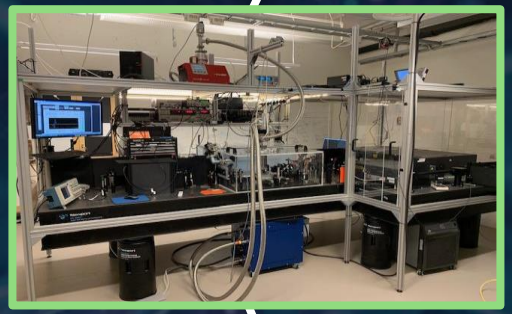
High-throughput material prediction, synthesis and characterization deeply interconnected.



Compute



Create



Characterize

Technology Highlights

33,000+

Real New Materials

Unique, proprietary database created in 10 months of operations

100/day

Production Capability

Scaling to 200/day with seed investment

Fast(est)

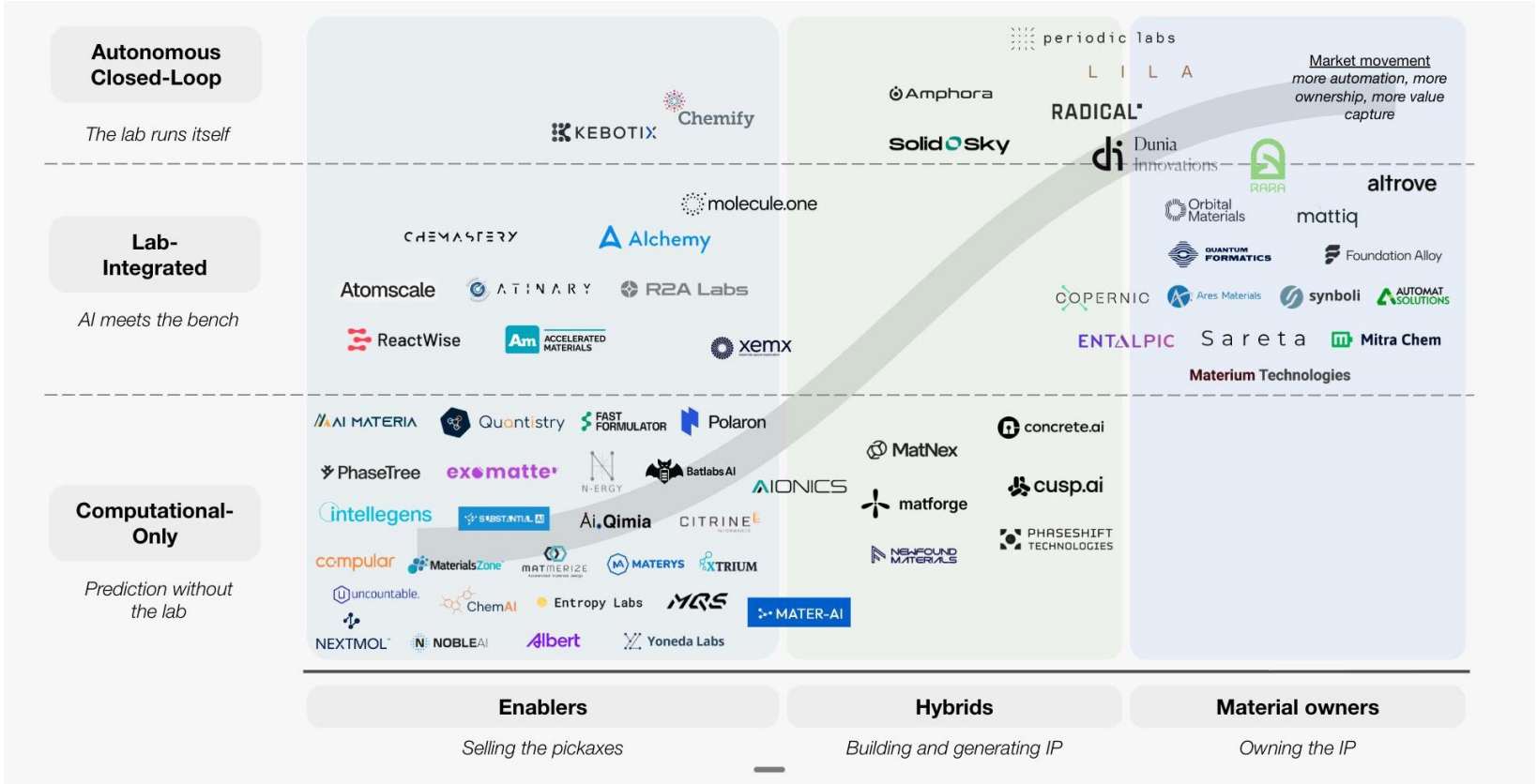
Real-World Training Data

Powering our AI model with real experimental data

Key Discoveries

New alloys with relevant magnetic and optical properties already found — validating the platform's ability to discover materials conventional methods would miss.

RARA vs competitors (PnP analysis)



RARA's Loop

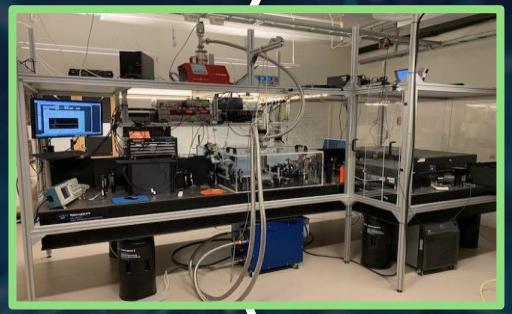
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Grazie per l’attenzione!