



Company Presentation

Focus: Collaborative Research











Maria Kollmann, VP Government Affairs

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Customer Segments & Business Areas

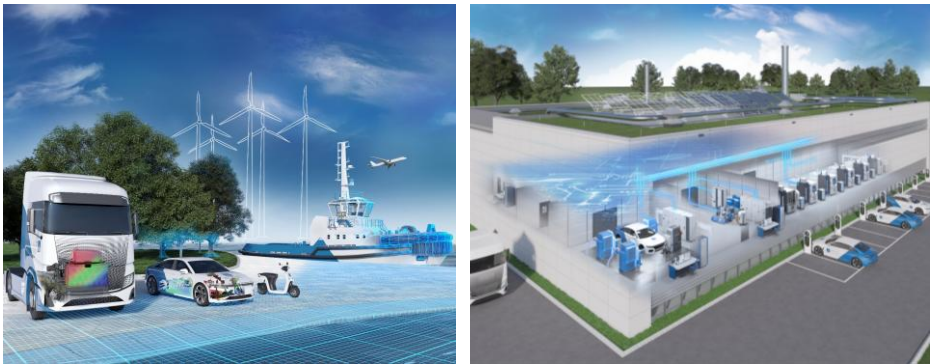
CUSTOMER SEGMENTS

Passenger Car	Commercial Vehicle
	
Agriculture	Construction
	
2 Wheelers	Racing
	
Power Plants	Aviation
	
Marine	Locomotive
	

Powertrain and Vehicle Engineering



Development Platform



Simulation & Testing



STRATEGIC GROWTH AREAS

AVL at a Glance



1948

Founded



29

Countries
Represented



12,200

Employees
Worldwide



2.03bn€

Turnover in 2024



11 %

Of Turnover
Invested in
Inhouse R&D

75+

Years of
Experience

50+

Global Tech and
Engineering
Centers

67 %

Engineers and
Scientists

96 %

Export Quota

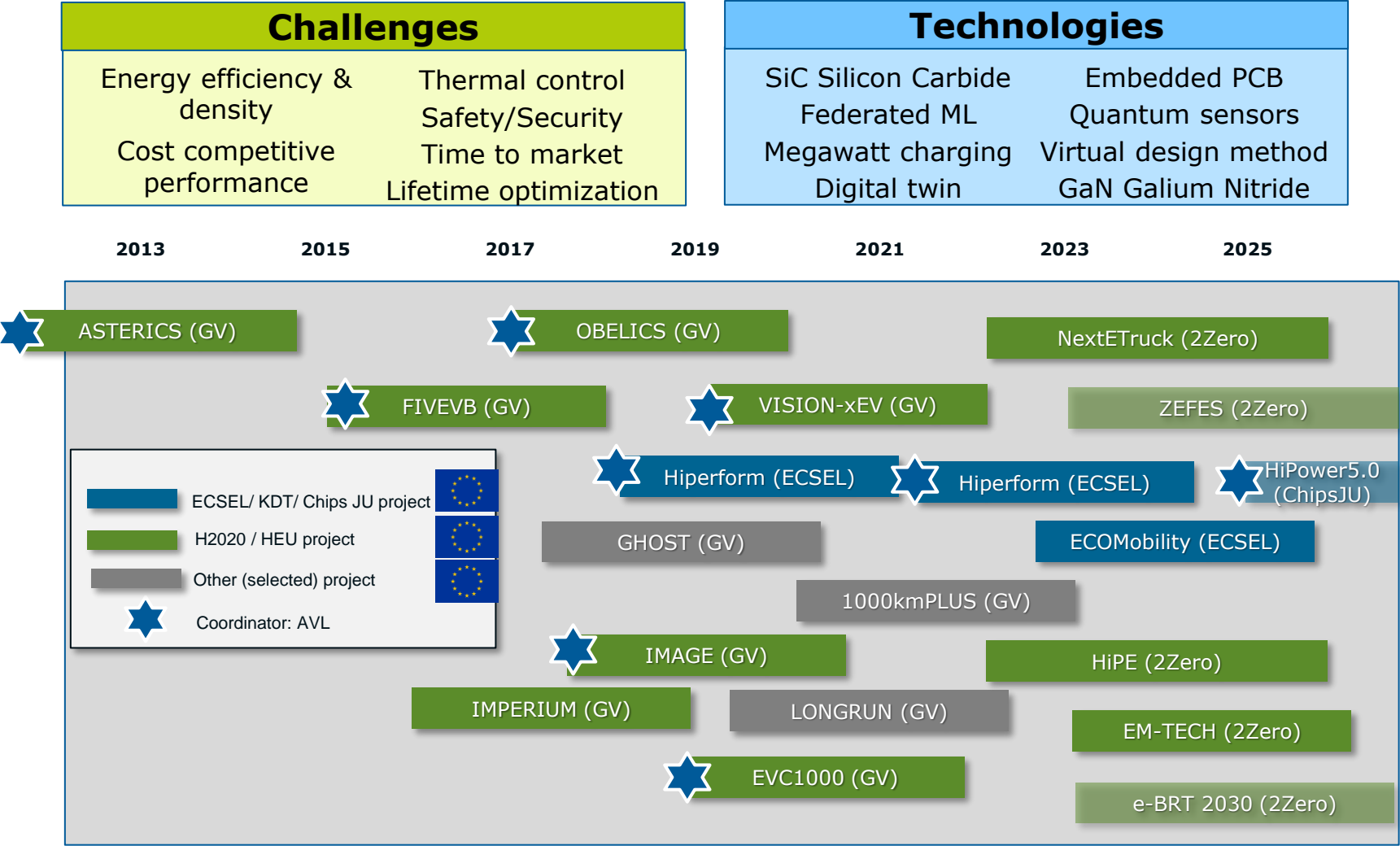
2,200

Granted Patents
in Force

National and International Networks



Example EU Projects: Cutting-edge Technologies for Electric Vehicles



Results: Prototypes or Products (from follow-up R&D Projects)

48V GaN inverter

- **50% less energy losses** (99% efficiency)
- 20% higher power density (44kW/l)



AVL e-Axle

- 800V SiC Inverters
- Power density
- **Overall efficiency (93%)**
- 30.000 rpm



AVL E-Storage™ SiC Batt-Test

- **50% higher power density**
- high dynamic load profiles including EIS (up to 200kHz)
- Higher voltage (800V→1200V)



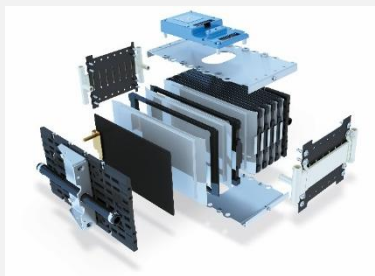
AVL electric drivetrains

- Modular powertrain family
- **global optimization of cost, performance,** components and efficiency



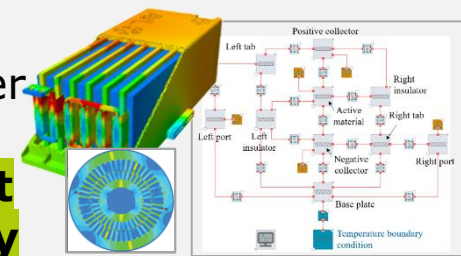
AVL Batteries/BMS

- BMS for optimized operation, thermal management etc.
- Mechanical, structural integrity
- **32% better lifetime predict.**



AVL simulation tools

- 3D Battery, e-Motor, inverter models
- **-12month time to market**
- **Prevent thermal runaway**



Collaborative Research strengthens Austrian and European industrial competitiveness



BUILD INNOVATION CAPABILITIES



For industry, collaborative research is an effective way to innovate - acceleration of development time & time to market



RISK SHARING & ALIGNMENT



Multi-stakeholders co-invest to share risks in exploratory research and align on pre-competitive topics



TECHNOLOGY ACCEPTANCE



Cooperation between industry & science eases transition to market



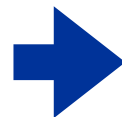
LASTING NETWORKS



Collaboration across key innovation contributors (science, industry, RTOs) & value chains, member states as well as sectors & ecosystems



POSITIONING OF **AUSTRIA** IN EUROPEAN INNOVATION DNA



AT has become a differentiator for Europe's innovation landscape

Thank you



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