

Helping people create better **products**, faster

vehicles

data centers

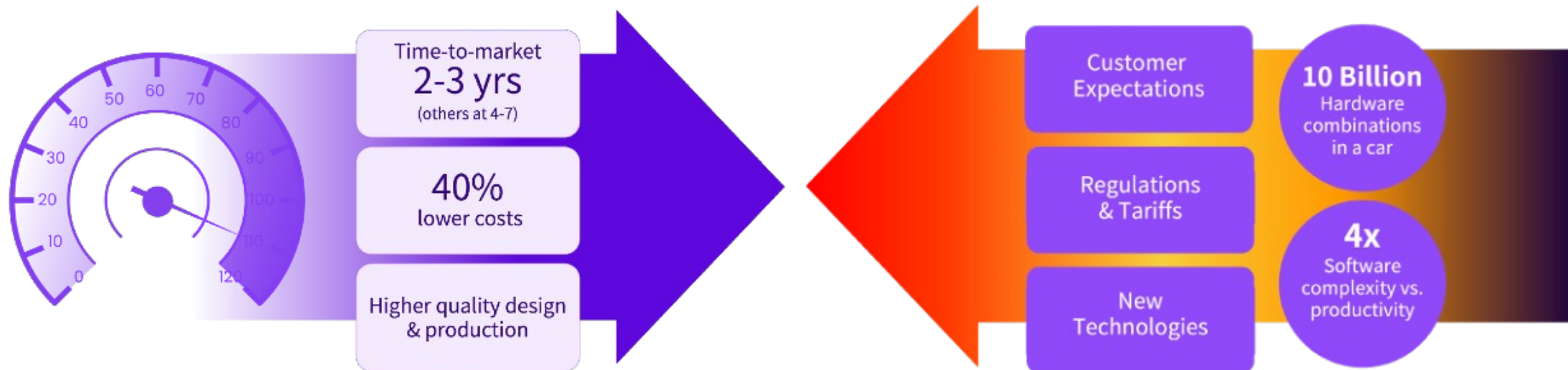
semiconductors

appliances

alloys

drugs

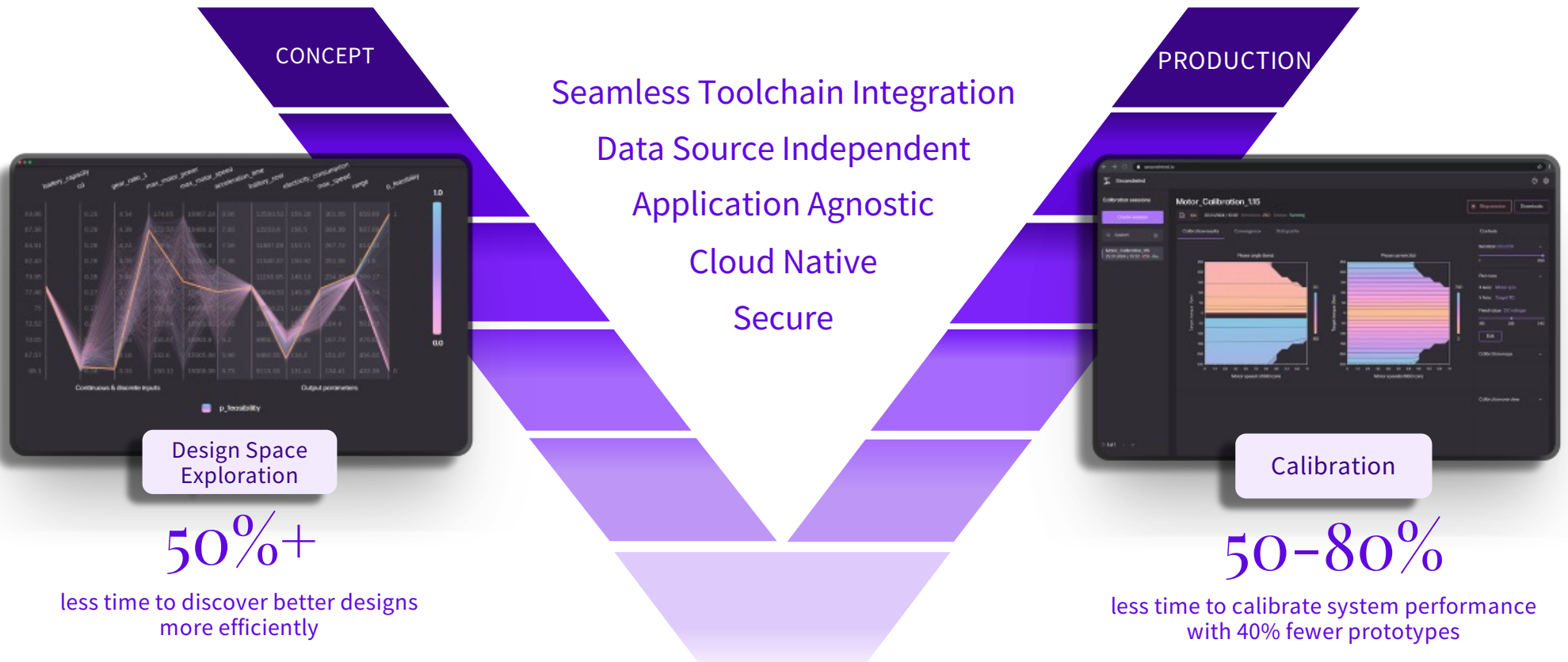
In Automotive, China is resetting the bar in vehicle manufacturing ...while rising complexity holds the rest of the industry back



“Vehicle complexity has gone from
the *unmanageable* to the *unimaginable*.”

Oliver Wyman

Secondmind is the only AI platform for model-based engineering that breaks through complexity barriers in virtual design and physical testing



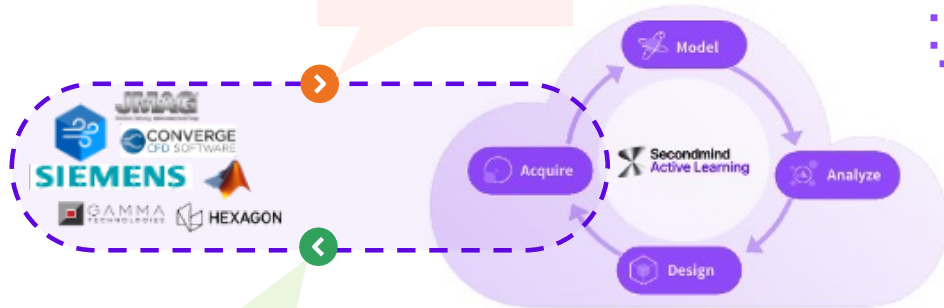
Secondmind Active Learning - How it works

Fully Automated with Design Space Exploration External Aero Example



Design Engineer

Coefficient of drag, front axle lift, cooling airflow, rear downforce



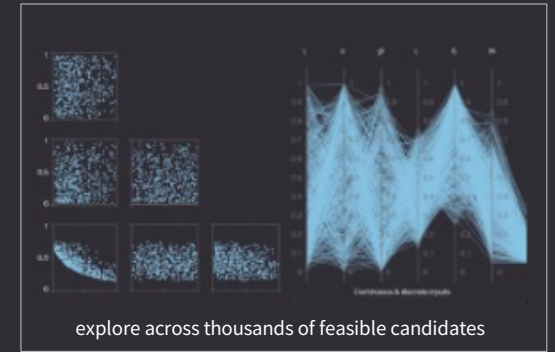
Active grille opening, rear spoiler angle, ride height, diffuser angle

Design Session Requirements

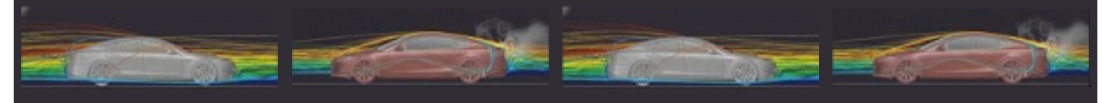
	Range	
Coefficient of drag (C_d)	≤ 0.22	+
Front Axle Lift (C_d)	≤ 0.05	+
Cooling Airflow	1.2 kg/s	+
Rear downforce (C_r)	≥ 0.10	+

Input	Range	
Active Grille Opening	0%-100%	+
Rear Spoiler Angle	-5° to 15°	+
Ride Height	100mm - 140mm	+
Diffuser Angle	0°-12°	+

Explore the feasible design space in Secondmind DSE



Select the best designs for detailed analysis



0.3871	0.566	0.847	0.530	0.130
0.110	0.6197	0.2413	0.359	0.752
0.735	0.278	0.118	0.2371	0.552
0.4273	0.483	0.843	0.307	0.204
...
...

Intelligent DoE Query Points

0.6872	0.31	0.81	0.56	0.56
0.19	0.4375	0.0031	0.09	0.09
0.66	0.718	0.1567	0.72	0.72
0.78	0.97	0.968	0.593	0.593
...
...

Simulated Performance Parameters



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Morgan Jenkins
Secondmind CPO

morgan.jenkins@secondmind.ai