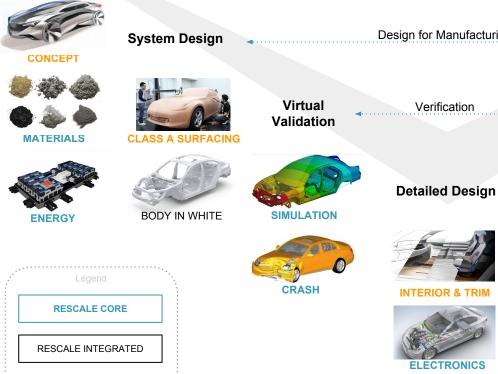


rescale | Automotive Industry Best Practice

Pre-Program	
I I C I I Ogi ull	

Operation



Design for Manufacturing

Verification

POWERTRAIN

Rescale Confidential

Production



PRODUCTION



DELIVERY & SALES



SUPPLY CHAIN



MAINTENANCE & PARTS



NVH



Physical Test

FATIGUE



VEHICLE TEST



SAFETY VALIDATION





KEY RESCALE VALUES

- 1. Product Quality
- Time to Market 2.

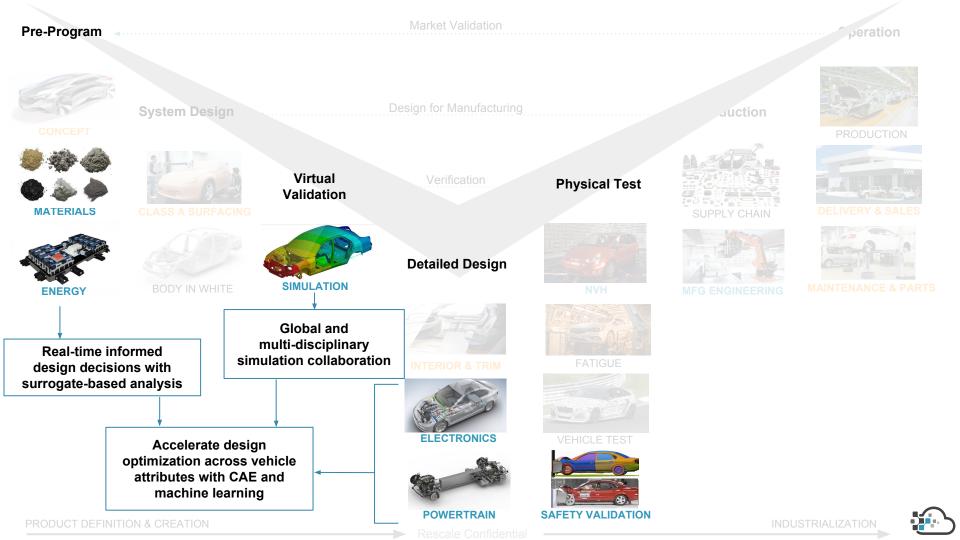
INDUSTRIALIZATION

3. Lower Cost



RESCALE UNADDRESSED

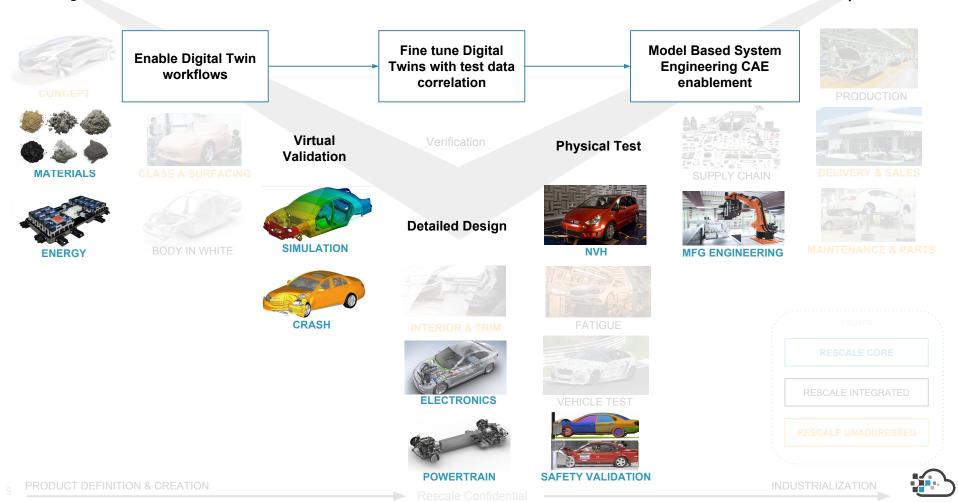
INDUSTRY LEADER INITIATIVES		PRIMARY DRIVERS	KEY RESCALE VALUES		
Capture Market Shifts ADAS, Electrification, fuel cell	New Technology	 ENGINEER Apply recommendation engine to leverage industry benchmarks Drive design decisions with better traceability 	Improve product, performance, and quality		
Operation Excellence	Product Development	 Increase simulation per labor hour and throughput Quicker handoff across groups Faster turnaround time to reach informed decisions Minimize engineer waste & rework 	Increase development efficiency		
Digitalization	Test & Validation Manufacturing	 Holistic engineering process IT Automation of business processes to increase agility 	Shorten time to market		
Geographic Reach	Operation	 Optimize processes through data insights Support and foster new business models Fulfill IT requirements at the best cost/value ratio 	Leverage industry-leading best practices		



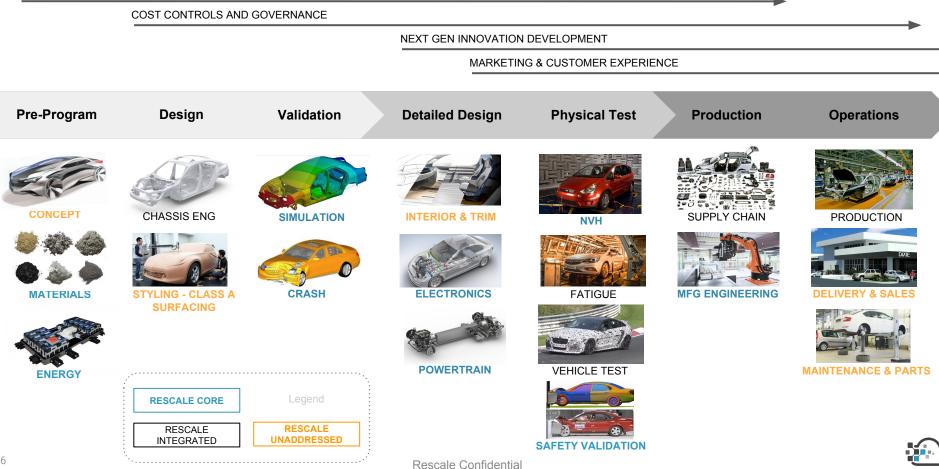
Pre-Program

Market Validation

Operation



VEHICLE CONFIGURATION & BOM

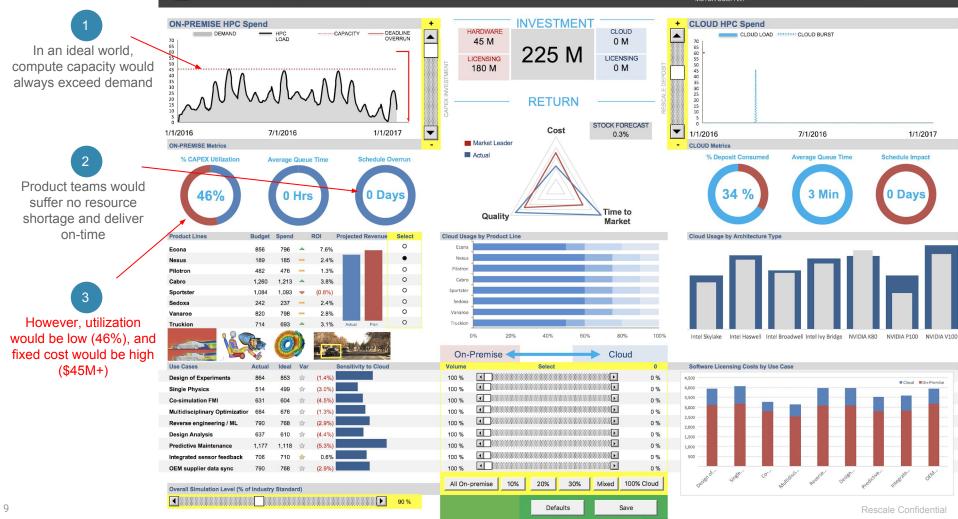


Exe	cutive		Ope	ration Excellence	Correscale Anaport Accelerating Product Intervent	Innovation		Autonomous
ł				ographic Reach		Electrification		Industry 4.0
Engineering Lifecycle			Ø	K	K			
	Production Design		Test &	Validation	Manufacturing & Operations		Next Generation Technology	
	Accelerate Design optimization across vehicle attributes with CAE and machine learning			Digital Twin orkflows	Facilitate Design for Manufacturing with process simulation		On-Demand Multiscale and Multiphysics for advanced analysis	
Real-time informed design decision with surrogate based analysis		with	e Digital Twins test data rrelation	Digital Twin execution for Predictive Maintenance			System, subsystem and sensor simulation	
S	Global & multidisciplinary simulation collaboration		Engin	Based System eering CAE ablement		rt Blockchain ized traceability	exec	ntly train and cute deep g algorithms
IT		User 8	App Support		System Architectu	re (Compliance & IP Protect	tion
	Turnkey application deployment & maintenance		HPC-Centric Disaste Recovery	er	Turnkey ITAR, GDPR in the cloud			
	Agile implementation of new engineering methods			Maximize utilization b consolidating resource		Data export control		
	End-to-end simulation traceability with PLM integration			Internal cost manager with ERP integration		xtend private networking to o	cloud	
7				Resca	le Confidential			

IDEAL WORLD LOW UTILIZATION, HIGH COST

Rescale Confidential

rescale Insight | Accelerating Product Innovation



REAL WORLD LIMITED RESOURCES, SLOW TO MARKET

Rescale Confidential

rescale Insight | Accelerating Product Innovation



CLOUD-ENABLED BEST OF BOTH WORLDS

Rescale Confidential

rescale. Insight Accelerating Product Innovation

se Lorean



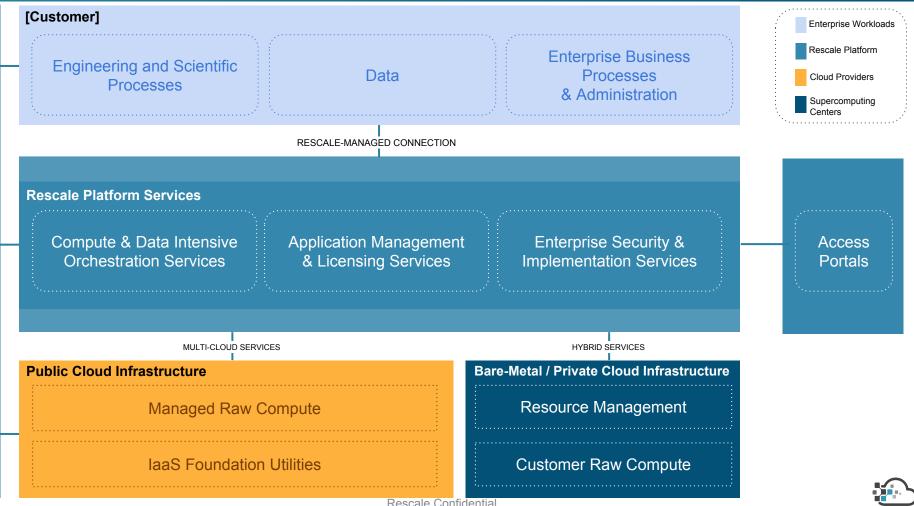
Innovative organizations enable cloud, and shift key use cases to the

Engineers now wait less, and half of the schedule overrun is returned: (75 - 32) = 37 Days

The entire organization is now more agile and able to cope with unforeseen setbacks

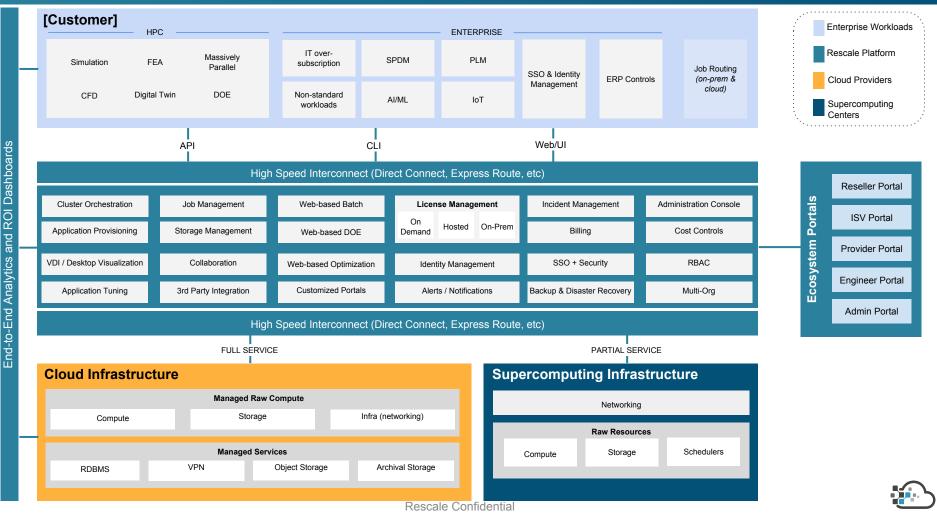
With unlimited resources available on demand. engineers can now 13 accelerate innovation

Rescale Reference Architecture - Level 1



Predictive Analytics and Recommendations

Rescale Reference Architecture - Level 2





www.rescale.com