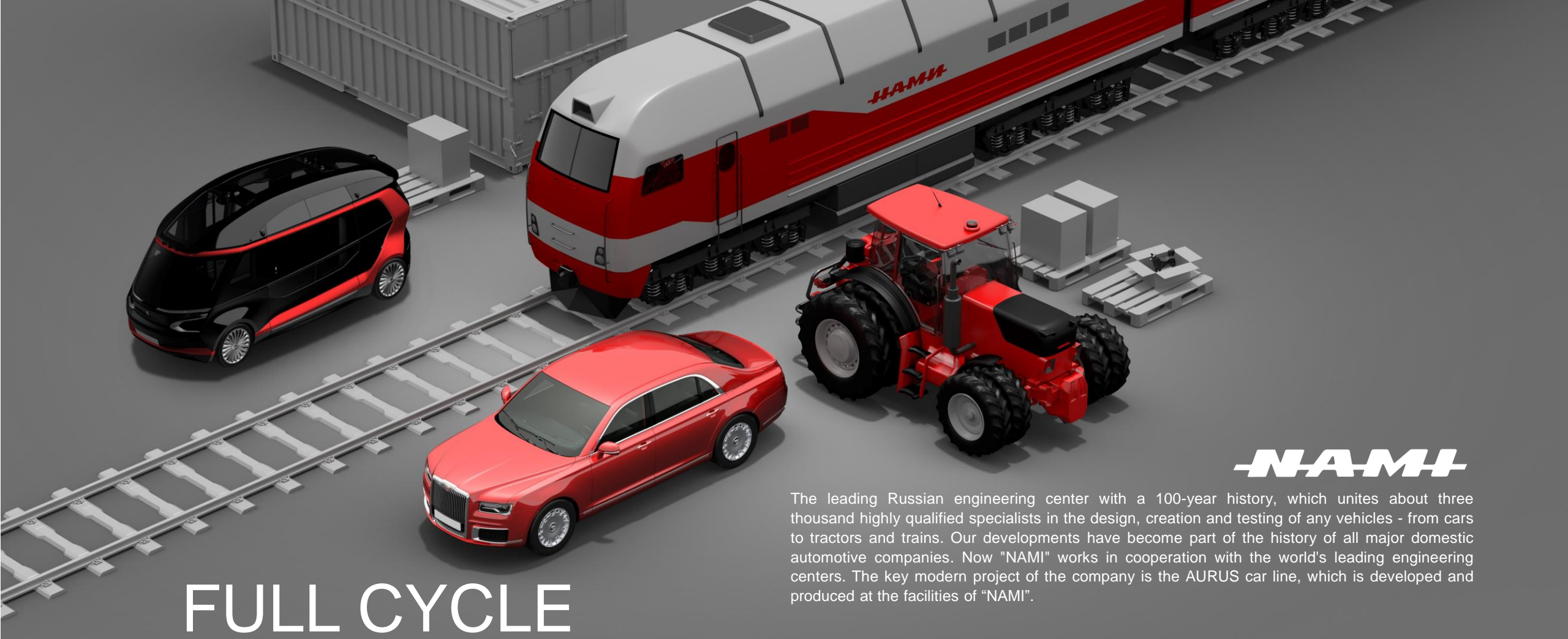


NAAM



The leading Russian engineering center with a 100-year history, which unites about three thousand highly qualified specialists in the design, creation and testing of any vehicles - from cars to tractors and trains. Our developments have become part of the history of all major domestic automotive companies. Now "NAMI" works in cooperation with the world's leading engineering centers. The key modern project of the company is the AURUS car line, which is developed and produced at the facilities of "NAMI".

FULL CYCLE

FROM IDEA TO FINAL PRODUCTION



Science



Engineering



Styling



Production

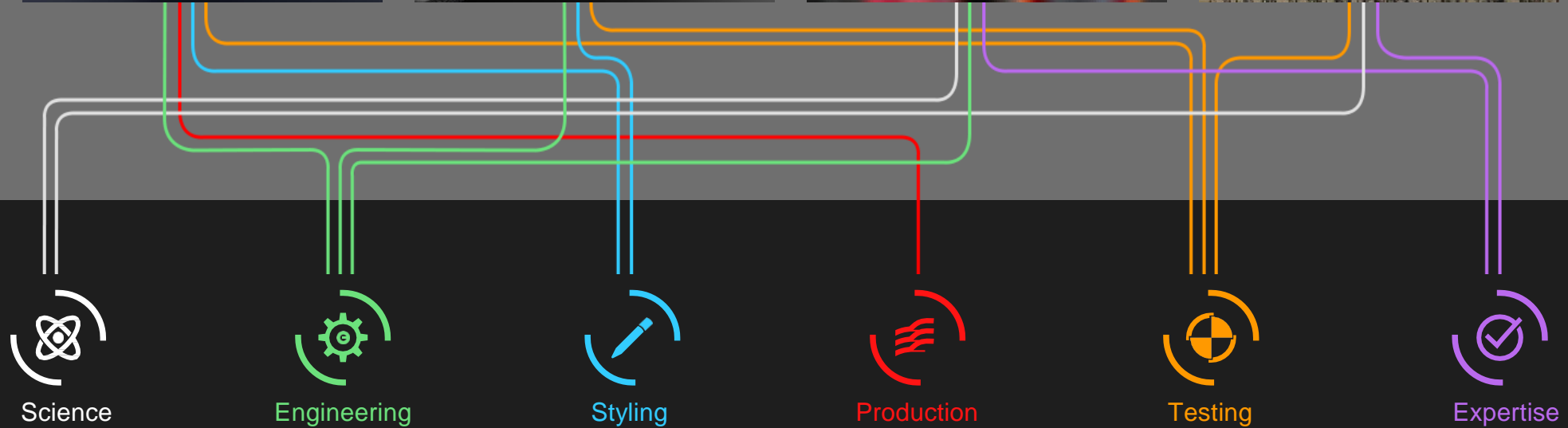
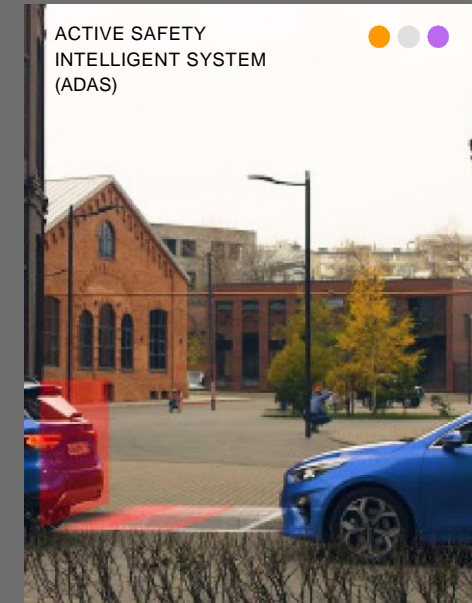
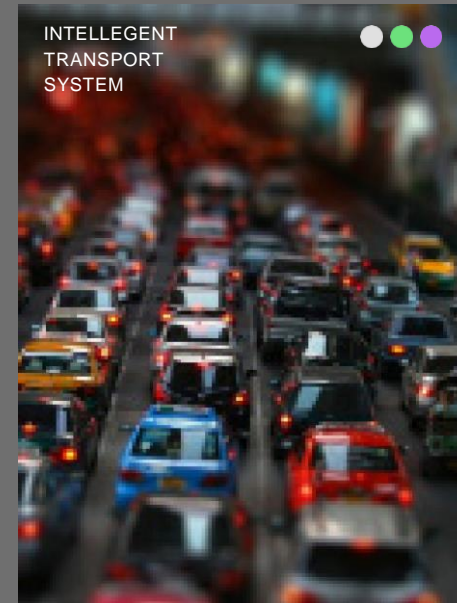


Testing

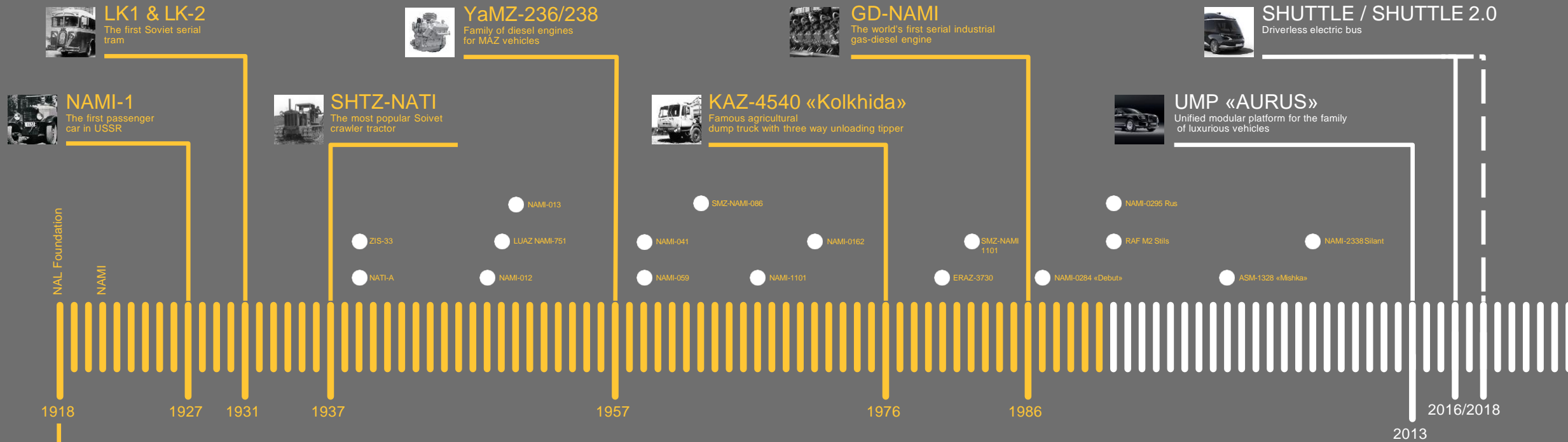


Expertise

CURRENT PROJECTS



HISTORY OF INNOVATIONS



Briling

Nikolay Romanovich

Head of the Automotive Scientific Laboratory (NAMI)



Chudakov

Evgeny Alekseevich

Deputy Head
Engineer

In October 1918, the Scientific Automobile Laboratory (NAL) was founded, which would later be transformed into the Scientific and Automotive Institute (NAMI). From the first days, NAMI was engaged in research work in the field of the automotive industry and related industries, and already in 1919 the first production workshops appeared.

The first head of the enterprise was Professor of the Moscow Higher Technical School Nikolai Romanovich Briling, and his deputy was engineer Evgeny Alekseevich Chudakov. These names are associated not only with the formation of the domestic auto industry, but also the development of the Soviet industry as a whole.

SOVIET UNION period

RUSSIA period

NAMI

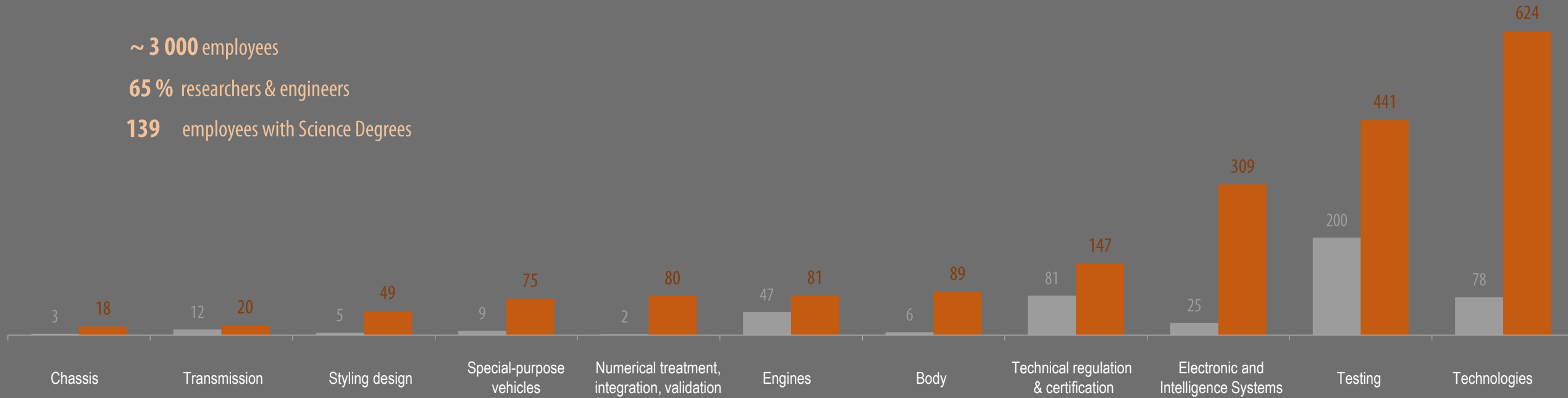
NAMI TEAM

~ 3 000 employees

65 % researchers & engineers

139 employees with Science Degrees

2012 Staff number
2020 from year to year



TESTING

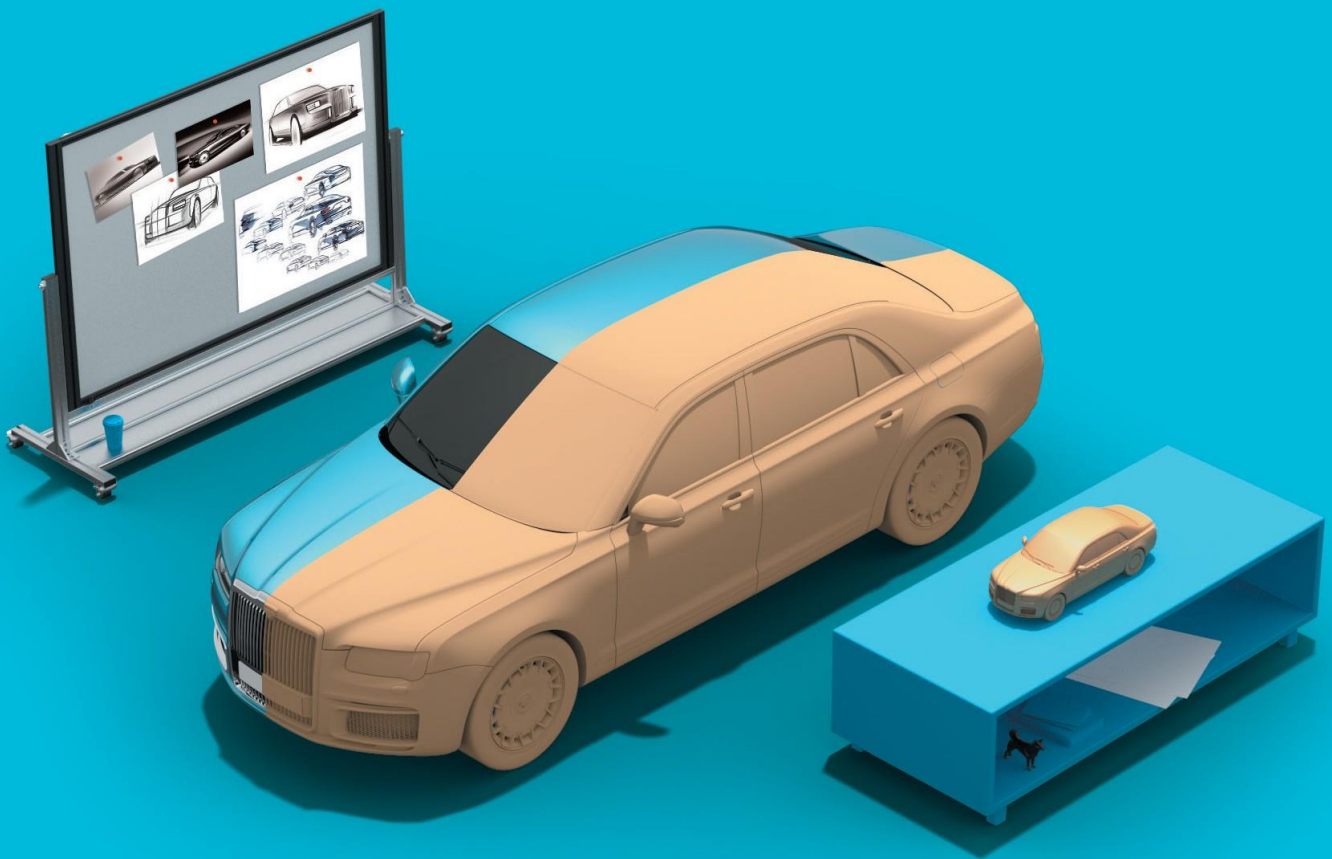


115 km test roads

1500 measuring instruments and test equipment

- The largest Vehicle Proving Ground in Eastern Europe;
- More than 90% imported and domestic vehicles pass certification at NAMI Testing Centre.

- Driverless vehicle proving ground;
- The maximum number of scenarios imitation;
- Mobile infrastructure elements;
- Photo- and video- recording and data storage systems.



1 **NAMI STYLING**



- Advanced sketching
- CAS modelling and Class-A surfacing
- VR experience
- UI/UX design
- Aesthetic graphics (symbols, patterns)
- CGI
- Color and trim design
- Scale and full-size mockups
- Style presentations and approval activities

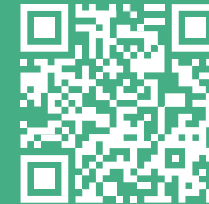




2



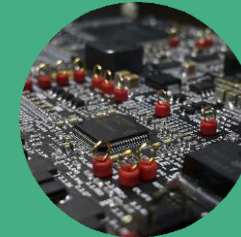
NAMI ENGINEERING

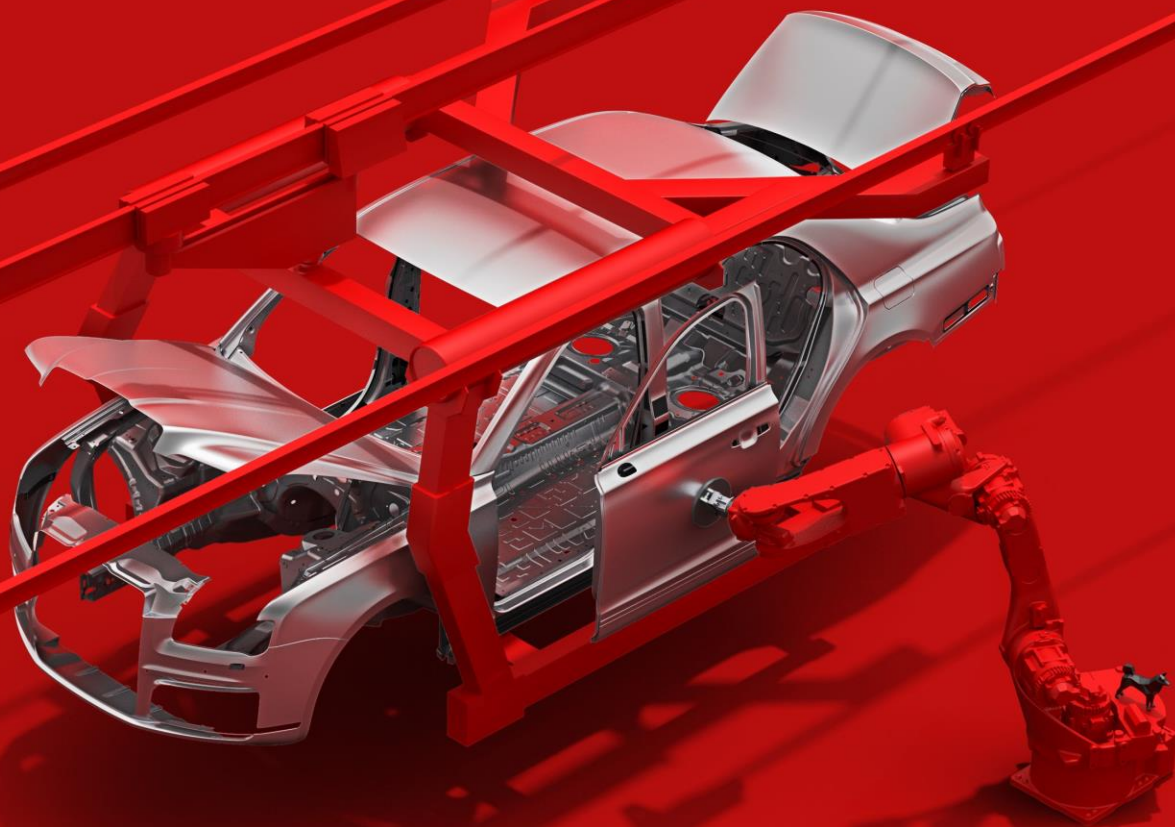


- Development and design:
- Passenger cars, busses and commercial vehicles
 - Agricultural and special vehicles
 - Motorcycles
 - Railway transport
 - Powertrains
 - Transmissions
 - Electronic control systems
 - Special-purpose vehicle components

Intelligent transport systems

Calculation and Simulation: -ID -MBS -FEM -CDF





3



NAMI PRODUCTION



- Vehicles and components prototyping
- Metal casting
- Additive production
- Polymer casting
- Composite production
- Vacuum Forming
- Laser cutting of sheet metal
- Wire EDM Cutting
- Milling on CNC machines
- Bending of pipes and sheet metal on CNC machines
- 3D scanning and reverse engineering
- Computer tomography and X-ray control





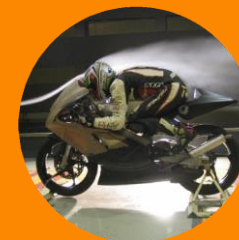
4



NAMI TESTING



- Tests for Certification, Durability and reliability, Validation and Development of vehicles and components
- Bench tests
- Road and proving ground tests
- Active and passive safety
- Aerodynamics
- Climatic and corrosion tests
- Ergonomics
- Emissions
- NVH
- Material strength testing





5

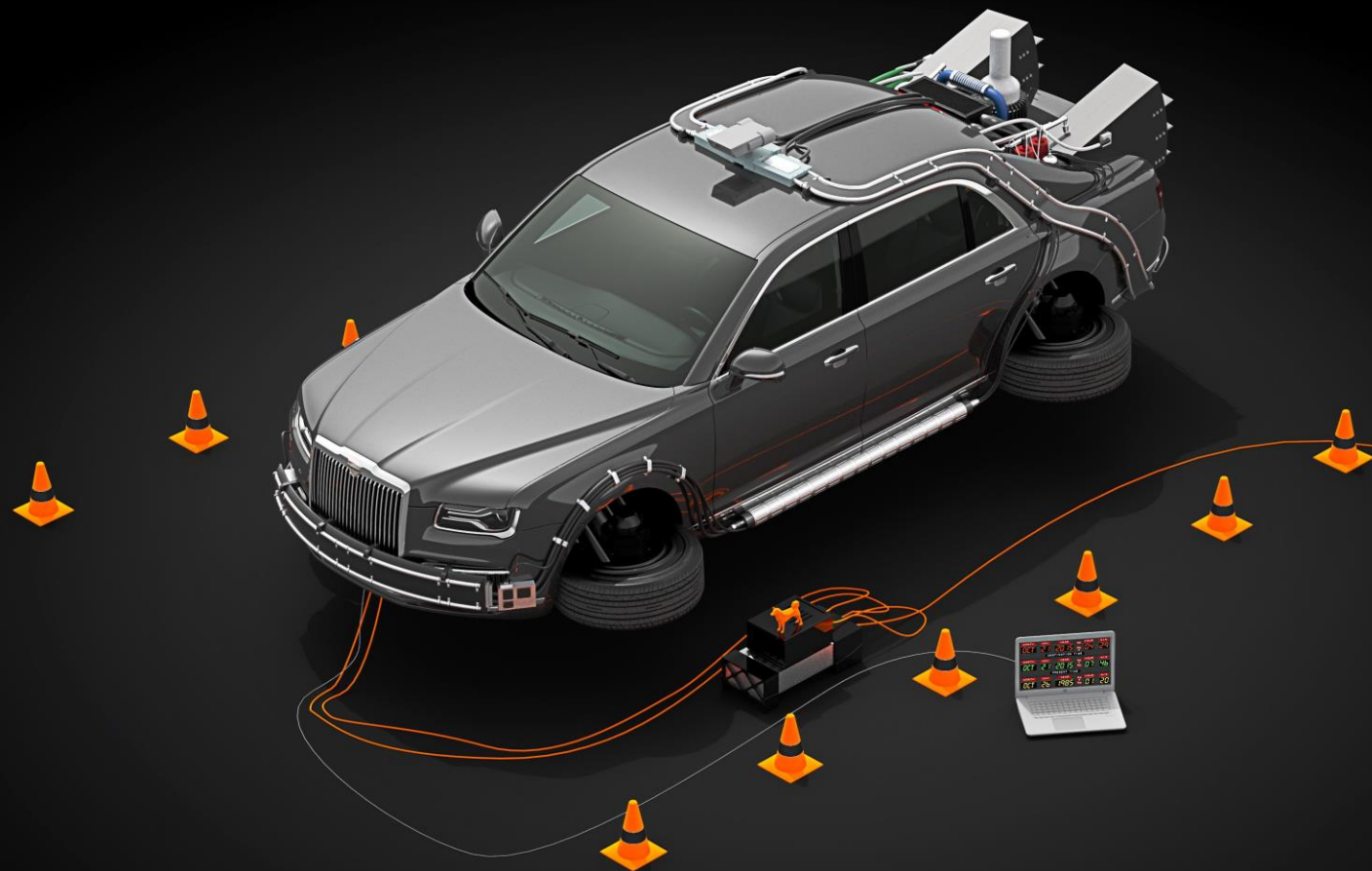


NAMI **EXPERTISE**



- Certification of quality management systems
- Assignment of WMI (manufacturer's code)
- Issuing of E22 certificates (EU accepted)
- Products and production Inspection control
- Development of technical regulations and standards
- Modified and Tuned Vehicle Inspection
- Legal expertise and pre-trial investigation
- Definition of emission standard
- Vehicle technical characteristics certificates
- Issuing of Motor Vehicle Safety Certificate
- Examination of invention patents





6



NAMI SCIENCE



- Research and development of powertrains according to the future trends
- Research of vehicles characteristics and performance
- Materials research and analysis
- Mathematical and software simulation of vehicles and systems
- Research and development in the field of intelligent transport
- Research and development related to special vehicles for operation under severe conditions



MORE THAN 150 PARTNERS WORLDWIDE

Applus⁺
IDIADA

BMW

SINOTRUK

SamAuto

TOYOTA

HONDA
The Power of Dreams

KIA

GM Uzbekistan

KIA

GM KOREA

NAM

Ford
FORD OTOSAN

Katech

BG
BELGEE

CHERY

TUV SUD

CATARC

AZIYABTO



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