



Research
& Development



SKODA
Vysoká škola

Research & Development

Timeline



General

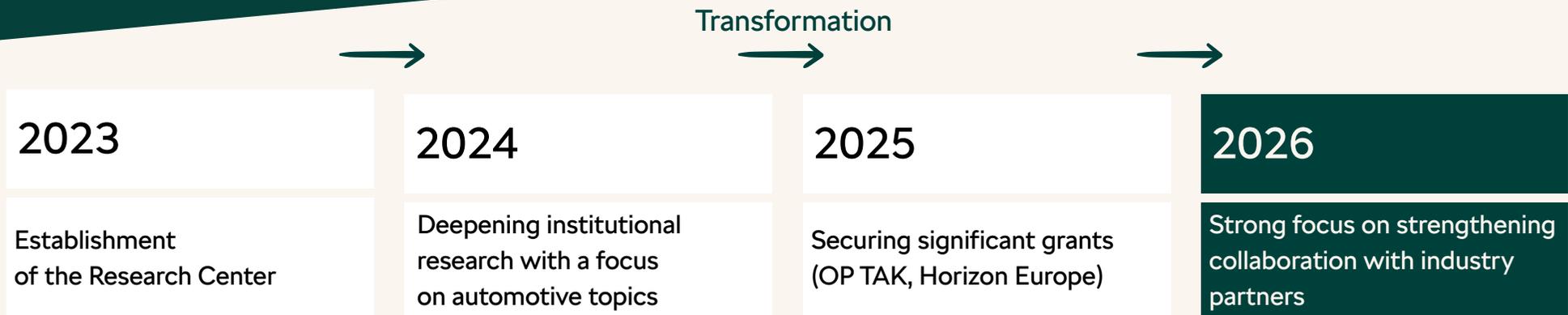
In 2012, Škoda Auto Vysoká škola became a listed Research Organization. Research and creative activities of the academic staff of ŠAVŠ comprise publishing in indexed journals, projects and grants solving (internal/external, national/international), organization of conferences and seminars etc.

Research Center

ROBERT FRISCHER
Head of the Research Center



[Research Center](#)



TOPICS AND ACTIVITIES

- Image processing with AI
- Advanced electronics
- New sensors development
- Local accelerated AI services
- Development of automation device prototypes

- Patent searches to support industrial property protection
- Knowledge transfer to industrial partners
- Full support for grant project management
- Contractual research in the fields of automation, electronics and AI

The Research Center was established in 2023 as a direct response to the dynamically developing institutional research in the automotive industry and in line with the recommendations of the international evaluation panel from the research organization evaluation from 2020. Since its inception, the center has undergone a significant transformation – from its original focus on institutional research, it has evolved into a strong partner for applied research in collaboration with industry partners.

A key milestone in this development was 2025, when the center secured a significant national research grant (OP TAK), confirming its growing professional credibility and research potential. At the same time, the center is actively involved in the implementation of the first Horizon Europe project at Škoda Auto Vysoká škola – the NEXTLOGIC project – thereby entering the international research arena and further strengthening its position within the European research community.

FINANCE AND ACCOUNTING

JIŘINA BOKŠOVÁ

Head of Department



R & D TOPICS

- Digitalization in the 21st Century
- Electromobility and Tax Implications
- Valuation of Intangible Assets
- Field Theory in Finance
- Financial Markets and Financial Derivatives
- Impact of Industry 4.0 on Financial Management
- ESG Reporting

WHAT DO WE DO?

- **Project:** Cooperation, Development and Cross-Border Transfer of Industrial Symbiosis among Industry and Stakeholders (COST Action)
- **Project:** New e-Government Challenges in a Europe-wide Context to Increase the Competitiveness of the Czech Republic (TA ČR)
- **Project:** Impacts of the Successful Development of Electromobility on the Tax Mix of the Czech Republic in the Context of EU Policies (IGA)
- **Project:** Analysis of the Selected Impacts of Charges for above-limit CO2 Emissions on the Corporate and National Economy (SGS)
- **Publication:** Digital Czechia in Digital Europe

HUMAN RESOURCES MANAGEMENT

EVA ŠVEJDAROVÁ

Head of Department



R & D TOPICS

- HR Management in an International Environment
- Leadership, Managerial and Intercultural Competencies Development
- Business Ethics and Ethics in HR Management
- Crisis Intervention, Communication and Case Management
- L&D, Innovative Didactics and Sustainable Learning Models
- Sustainability, Innovation, Digitalization and Social Entrepreneurship

WHAT DO WE DO?

- **Project:** Use of the 21st EWA (Empowering Wholeness Adaptive) Didactic Model for Corporate Training and Education for the Academy of Škoda Auto (contractual research)
- **Project:** Holistic Wellbeing for Škoda Auto (contractual research)
- **Project:** CA22124 EU Circular Economy Network for All: Consumer Protection through reducing, reusing, repairing: WG1 membership (COST Action)
- **Project:** Business Anthropology (contractual research)
- **Project:** Research Task No. 5 – Synchronization of the Development of Driving Assistance Systems with the Dispositions of the Human Psyche (government)

INFORMATICS

LUKÁŠ HEROUT

Head of Department



R & D TOPICS

- Algorithmizing, Programming and Applications of Numerical Mathematics
- Technical Infrastructure and Network Technologies
- Database Systems
- Big Data Processing
- Cloud Computing Systems
- Artificial Intelligence
- E-Government

WHAT DO WE DO?

- **Project:** Using Artificial Intelligence to Solve Economic, Managerial, and Technical Problems in the Automotive Industry (IGA)
- **Project:** Building the e-Government Cloud of the Czech Republic – Cloud Computing Information System (contractual research)
- **Project:** Unified Control of FTS for Škoda Auto (contractual research)
- **Project:** RENforce – Strengthening Work Force Potential in the Renewable-Energy Sector (Erasmus+)
- **Project:** Brilliant Artificial Intelligence Toolkit – Higher Education Instructors (Erasmus+)
- **Publication:** Digital Transformation of Public Administration

LANGUAGES AND INTERCULTURAL COMPETENCES

DAGMAR SIEGLOVÁ

Head of Department



R & D TOPICS

- Language for business and academia
- Content, Competency and Task-Based Teaching and Learning
- Communication and Soft Skills Development
- Generative AI Models in Language Teaching and Learning
- Teaching and Learning Methodologies
- Intercultural Communication, Language and Diversity Management
- Language Biographies and Critical Incidents in Personal Development

WHAT DO WE DO?

- **Project:** CREATE – Czech Resilience in Europe through Awareness, Training and Empowerment (Jean Monnet Actions, Erasmus+)
- **Project:** Brilliant Artificial Intelligence Toolkit – Higher Education Instructors (Erasmus+)
- **Project:** Critical Incidents in Intercultural Communication and Promoting Diversity (Erasmus+)
- **Project:** International Capacity Building in Innovation, Transfer and Entrepreneurship (EIT Urban Mobility)
- **Project:** Students' Language Needs Analysis and Analysis of Students' Special Needs for Study Purposes

LAW AND ECONOMICS

PAVEL NESET

Head of Department



R & D TOPICS

- International Economics
- The World Economy
- Economic Policy
- Competition Law
- Corporate Governance
- Financial Markets
- Global value chains/Global supply chains/NIPO (New Industrial Policy)

WHAT DO WE DO?

- **Project:** Czech European Policy in Connection with the Presidency of the Council of the EU in 2022 (TA ČR)
- **Project:** National Convention on the EU – Topic: Benefits and Risks of Globalization for Trade and Investment (contractual research)
- **Project:** Inflation Development and its Forecast for Škoda Auto a.s. (contractual research)
- **Project:** FAST – Framework for Automotive Skills Transformation (contractual research)
- **Project:** Proposal for a Strategic Framework for Higher Education for the Automotive Sector (TA ČR)

MARKETING AND MANAGEMENT

PAVEL ŠTRACH

Head of Department



R & D TOPICS

- International Business, Marketing, and Management
- Sustainability, CSR, ESG Reporting
- New Technologies in Marketing Communications
- Innovation Management
- Novel Approaches to Teaching Business Disciplines
- Automotive Transformational Impact and Mobility Ecosystem Innovation
- Digital Commerce and Technology-Driven
- Business Transformation

WHAT DO WE DO?

- **Project:** FAST – Framework for Automotive Skills Transformation (contractual research)
- **Project:** Diversity, Equity, and Inclusion Practice in the German and Czech Automotive Industry (BTHA)
- **Project:** Multidisciplinary Approaches to the Sustainability of the Automotive Value Chain (IGA)
- **Project:** Sustainable Transport, Housing and Nutrition through the Eyes of Czech Consumers (SGS)
- **Publication:** Proposal for a Strategic Framework for Higher Education for the Automotive Sector (TA ČR)

MECHANICAL AND ELECTRICAL ENGINEERING

VOJTĚCH DYNBYL

Head of Department



R & D TOPICS

- Mechanical Engineering
- Electrical Engineering
- Materials and Production Technology
- Automation and Robotization of Technological Processes
- Machine and Process Control
- 3D Printing, AI

WHAT DO WE DO?

- **Project:** National Center of Competence for Industrial 3D Printing (TA ČR)
- **Project:** VRTOUCH / Modular Drilling Rig for Applications in Space-constrained Environments with Eco-friendly Drive (TA ČR)
- **Project:** The Use of Artificial Intelligence to Solve Economic, Managerial and Technical Problems in the Automotive Industry (IGA)
- **Project:** Universal Combs (contractual research)
- **Project:** Thermal Management of Combustion Engines (contractual research)
- **Project:** AiVRT - Application of neural networks in the identification of rock environment during deep core drilling (OP TAK)

PRODUCTION, LOGISTICS AND QUALITY MANAGEMENT

RADIM LENORT

Head of Department



R & D TOPICS

- Sustainable and Resilient Supply Chain Management
- Wholeness Supply Chain Management
- Smart and Green Logistics
- Lean Manufacturing and Logistics
- Smart City Logistics and Mobility
- Circular Economy in Industry
- Advanced Quality Management
- Advanced Decision-Making Methods

WHAT DO WE DO?

- **Project:** Next-Gen Urban Freight Logistics for Net Zero Emissions through Innovative Solutions (Horizon Europe)
- **Project:** National Center of Competence for Industrial 3D Printing (TA ČR)
- **Project:** Preliminary Research of Corporate Logistics and Supply Chain Resilience Capabilities (BTHA)
- **Project:** Exploratory Qualitative Research of Sustainability Reporting Models and Processes in Industrial Companies and Their Supply Chains (BTHA)
- **Project:** Sustainable Transportation (Erasmus+ KA2)

QUANTITATIVE METHODS

PETR ŠULC

Head of Department



R & D TOPICS

- Statistics, Statistical Methods for Quality Management
- Design and Evaluation of Industrial Experiments
- Statistical Process Control, Process Capability
- Measurement System Capability
- Mathematics
- Physics, Electronics, Optoelectronics
- Data Science
- Automation of Measurement and Processing of Experimental Data

WHAT DO WE DO?

- **Project:** Proposal for a Strategic Framework for Higher Education for the Automotive Sector (TA ČR)
- **Project:** Analysis of Working Incapacity in the Škoda Auto a.s. Company (contractual research)
- **Project:** Concepts of Statistical Data Processing and Macroeconomics Analysis (contractual research)
- **Project:** Successful Development of Electromobility on the Tax Mix of the Czech Republic in the Context of EU Policies (IGA)
- **Publication:** Design and Evaluation of Industrial Experiments

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