

Reference Project: Transformation of a global R&D Centre towards Mechatronics and e-Mobility



COMPANY

- Automotive TIER1 supplier, global market leader in their domain / business
- Producer of classical mechanical components in the area of powertrain and chassis



SITUATION & CHALLENGES

- Company target: creation and establishment of a global R&D Centre for mechatronic systems and e-axes
- Challenges:
 - Limited competencies in the areas of e-motors, reduction gearboxes and power electronics
 - Limited competencies in the areas of electronics, software, system engineering and –integration
 - Missing development processes, -methods and -tools

TARGETS

- Plan to close competence- and process gaps and implementation thereof
- Investments in prototype manufacturing and validation of e-axes and mechatronic systems
- Definition and implementation of new development processes, -methods and -tools



RESULTS & SUCCESSES

- Creation of new R&D functions / areas (E/E, Software, System-Engineering, e-motor, transmissions)
- First joint pre-development projects with customers leading to business awards
- Central coordination and support of global application projects (USA, China, Japan)