Agendas/Alianças mobilizadoras para a reindustrialização | Route 25: Agenda for Autonomous, Intelligent, Interoperable and Inclusive Mobility

Líder do Consórcio | CAPGEMINI PORTUGAL, S.A.

Descrição da Agenda | O Route 25 definirá o futuro da mobilidade pretendendo "posicionar Portugal na vanguarda das tecnologias de transporte inteligente e inclusivo". Este projecto alavanca a investigação e desenvolvimento de soluções tecnológicas disruptivas para a Mobilidade Autónoma, Inteligente, Interoperável e Inclusiva, criando nova cadeia de valor em Portugal em atividades de alta intensidade tecnológica e na coesão territorial, gerando EUR 80M em vendas e 488 postos de trabalho.

Data de início | 01 de outubro de 2022

Data de Conclusão | 30 de setembro de 2025

Investimento da Agenda | 51 331 437,19 €

Objetivos

O Route 25 alicerça-se em áreas de intervenção que resultarão na colocação no mercado de 47 PPS inovadores e disruptivos relacionados com condução assistida e autónoma para uma mobilidade segura, numa experiência digital para uma mobilidade cooperativa, em infraestruturas conectadas para cidades resilientes e inclusivas e infraestruturas inteligentes para mobilidade intercidades de baixo carbono - é a única Agenda a endereçar estas áreas e tem os PPS necessários, dependentes e interligados, para atingir os objetivos definidos.

Resultados Esperados

PPS1: Automotive Safety-Critical Software Product Development and Validation

PPS2: 5G network-based positioning services

PPS3: Software Development Kit (SDK) and cloud services for intelligent data networking

PPS4: Software Development Kit (SDK) and cloud services for vehicular content distribution

PPS5: Software Development Kit (SDK) and cloud services for enhancing future mobility services

PPS6: Base Aggregating Sustainable Infrastructure Solution (BASIS)

PPS7: Compact Electrical Mobility Urban Solution (CEMUS)

PPS8: SLP: EV-Charger integration

PPS9: Road-Side Units for motorways

PPS10: Operational and Commercial Back Office based on IA for license plate recognition

PPS11: Management Platform: New control dashboards and alarmistic platform

PPS12: Management and transaction platform for High-Power Hubs

PPS13: Charging management software

PPS14: Travel autonomy management app

PPS15: RSU platform and management platform integration

PPS16: VCG with intelligent network capabilities for autonomous vehicles

PPS17: Decentralised payment services

PPS18: Sensor box for connected vehicles

PPS19: ITxPT-compliant VCG for buses

PPS20: RSU and management platform

PPS21: High performance wireless/wireless charging

PPS22: High-power charging for city bus with satellite charging management

PPS23: High-power DC motorway charging solution up to 350kW

PPS24: Mobile EV-Charger

PPS25: Software module for cooperation between buses and autonomous vehicles

PPS26: Opening time for automatic level-crossing systems

PPS27: Agnostic charging platform for e-vehicles and clean Energy Monitoring System to promote renewal energy sources through gamification tools

PPS28: AI assisted Traffic Management and Routing advice as a Service

PPS29: Infrastructure Access dynamic assignment to adjust road operations according to different traffic and transport demand scenarios

PPS30: Vehicle counting and traffic prediction

PPS31: Smart parking solution

PPS32: Traffic light infrastructure and vehicle interaction

PPS33: Edge offloading for control and communication

PPS34: Multimodal data-aware sensing platform

PPS35: Operations centre for autonomous and connected mobility

PPS36: Smart parking solution (booking and parking)

PPS37: Remote configurations and updates of vehicles' auxiliary system

PPS38: Autonomous energy management on-board

PPS39: Uptime Centre

PPS40: Predictive Maintenance Model: EV battery pack degradation and fault prediction

PPS41: Predictive Maintenance Model: Tyre condition and tyre blowouts detection for increased safety and fuel/energy savings

PPS42: Predictive Maintenance Model: Air compressor fault and air leaks detection

PPS43: Predictive Maintenance Model: Brake pads degradation detection according to driving behaviour for increased safety

PPS44: New Generation of vehicle onboard electronic equipment

PPS45: ITxPT TiGR protocol support and backoffice certification

PPS46: Travel payment app

PPS47: 5G private network service

Entidade Beneficiária | Câmara Municipal do Fundão

Investimento | 294 295, 73 €

www.recuperarportugal.gov.pt