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Multitel asbl

Railway Certification

EuroMultitel SA

EuraTechnologies (Fr)

Charleroi

Railway laboratories

Tournai - Smart Cities

Parc Initialis - Mons

Multitel 200 > WE ARE

KEY FIGURES

- MULTITEL: CENTRE DE RECHERCHE AGRÉÉ
- EUROMULTITEL: BUREAU D'ÉTUDES





73.7 FTE



5 Technical DPT.

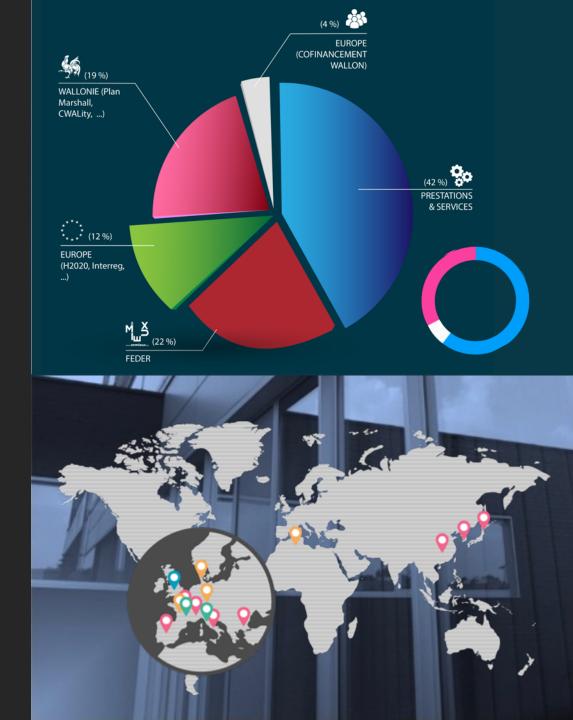




6 SPIN-OFFS



EuroMultitel





BOOST BUSINESS INNOVATION

FROM FEASIBILITY TO YOUR MINIMAL VALUABLE PRODUCT

- RESEARCH & INNOVATION
- DESIGN & IMPLEMENATION OF INNOVATIVE SOLUTIONS(FEASIBILITY, TECHNICAL SUPPORT, PROTOTYPING)
- TECHNOLOGICAL TRANSFER







 SPECIFIC ON-DEMAND SERVICES FOR STARTUPS, SME AND CORPORATES



 LONG-TERM PARTNERSHIPS IN OPEN ECOSYSTEMS



TECHNOLOGICAL TRANSFER OF MULTITEL RESULTS

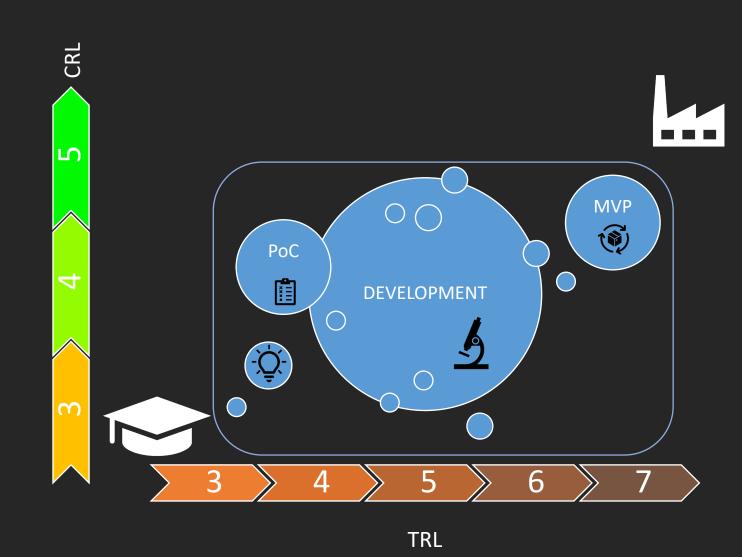


MULTITEL

EUROMULTITEL

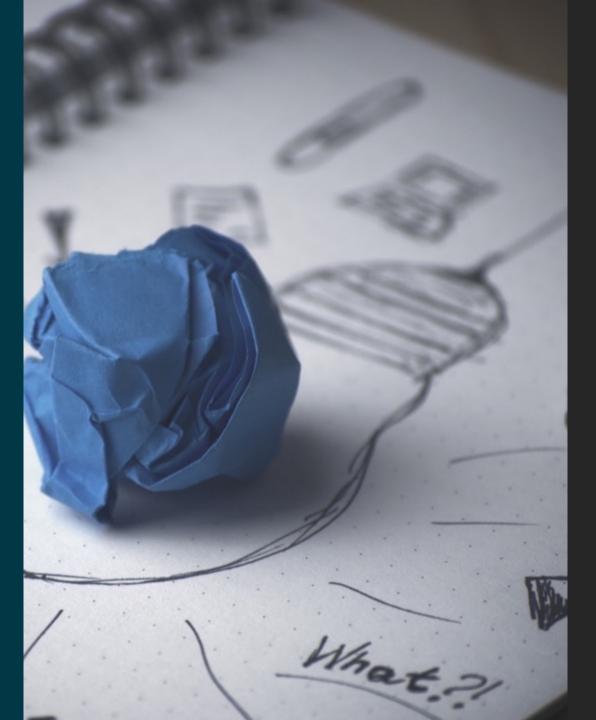
THE KEY ELEMENT OF YOUR VALUE CHAIN

- FINANCIAL LEVERAGE
- HUMAN ENGAGMENT
- TECHNOLOGICAL PUSH









SUPPORTING YOUR DIGITAL TRANSFORMATION

- APPLIED PHOTONICS
- NETWORK ENGINEERING
- IOT & EMBEDDED SYSTEMS
 - ARTIFICIAL INTELLIGENCE
 - RAILWAY CERTIFICATION













APPLIED PHOTONICS

Fibre lasers Biophotonic sensors

Embedded fiber optic sensors

Optoelectronic systems

Laser micromachining platform

VIS and THz imaging and spectroscopy

Metrology and calibration





ARTIFICIAL INTELLIGENCE

Computer Vision
Audio/speech processing
Signal processing
Optimization & Digital Twins



NETWORK ENGINEERING

Wireless and local area networks
Mobile technologies
System and network architectures
Performance analysis and network audit
IPv6 analysis and migration
Cybersecurity, Blockchain
Technical specifications





IOT & EMBEDDED SYSTEMS

Electronics (Firmware, digital, analogue, RF, antennas)

IoT (WSN, I-IoT, RTLS ...)

Printed electronics

Traceability (RFID, GS1-EPCIS)



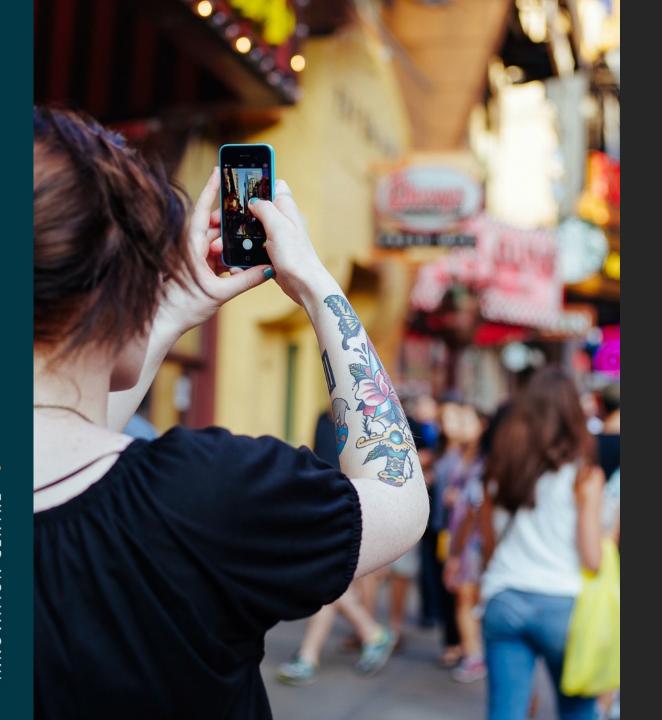
RAILWAY CERTIFICATION

Tools and services for ERTMS / CBTC:

- Tests Eurobalise & BTM
- · Tests EVC, RBC (Subset-RBC), Subset-111, IXL, DMI
- Validation on Track (EVC, Radio)
- System level tests (M-SILAB)
- · ERTMS Test equipments (maintenance, production)
- GSM-R, LTE for Railway
- JRU2TRACK







#SMARTCITIES

- Vehicles and/or people detection & reidentification for mobility (FEDER)
- Sound detection & classification for noise pollution analysis (FEDER)
- New portable & remote IR spectroscopic characterization solutions for gazes / particles analysis (fire smoker, uncontrolled discharge on sites at risk ...) (INTERREG FWVI)
- New roadsign materials & manufacturing process integrating IoT for managment and monitoring of roadsign fleet (CWALITY)











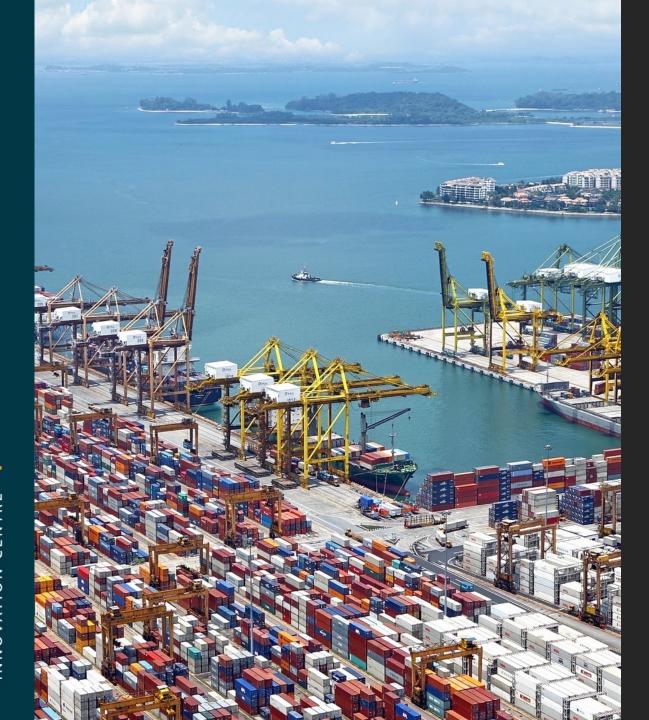
#INDUSTRY4.0

- Digitalized process for manufacturing of electronic product (COOTECH)
- LoRa©-based I-IOT with ruggedized characteristics for predictive maintenance (Wind power, Extractive industries ...) (MECATECH)
- LASER-based solution for the functionalization of metallic surfaces with textures ~1µm or less on mass production (H2020)
- THz spectroscopy & imaging for nonionizing, non-invasive and nondestructive, quality control or substance detection (FEDER)
- Laser decoating for electromagnetic transparency of glazing (COOTECH)









#LOGISTICS / #TRANSPORT

- Voice-based conversational agent for cars (MECATECH)
- IT solution to connect urban logistics operators in order to offer shippers a one-stop shop optimizing costs and environmenal impacts (LiW)
- Management solution for shipment by inland waterway transport (INTERREG NWE)
- Multimodal optimisation process across the EU Transport System, increasing the modal share of IWT and supporting the EC's ambitions to reduce transport GHG emissions by two thirds by 2050 (H2020)







#AERONAUTICS #SPATIAL

- Temperature controller for photonics systems, compliant with spatial standards (BUSINESS)
- Voice-based crew assistant in aircraft cockpit environment (CLEAN SKY)
- Instrumentation / micro-machining for electric aircraft de-icing (PIT AERO)
- Implementation of AI development tools compliant with navigability standards (PIT AERO)









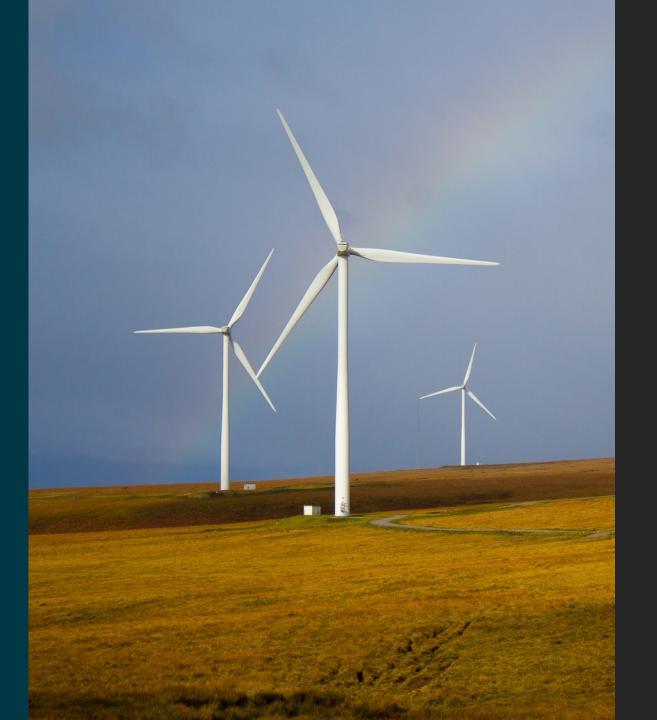
#FARMING

- Bio-reader based on image processing of reactors illumated by regulated lightfor proteins detection (BUSINESS)
- Development of a new generation of biosensors in order to early detect specific pathogens and to monitor the action of bio-pesticides (INTERREG FWVI)
- Object detection & classification for remote sensing (drone application) (SKYWIN)







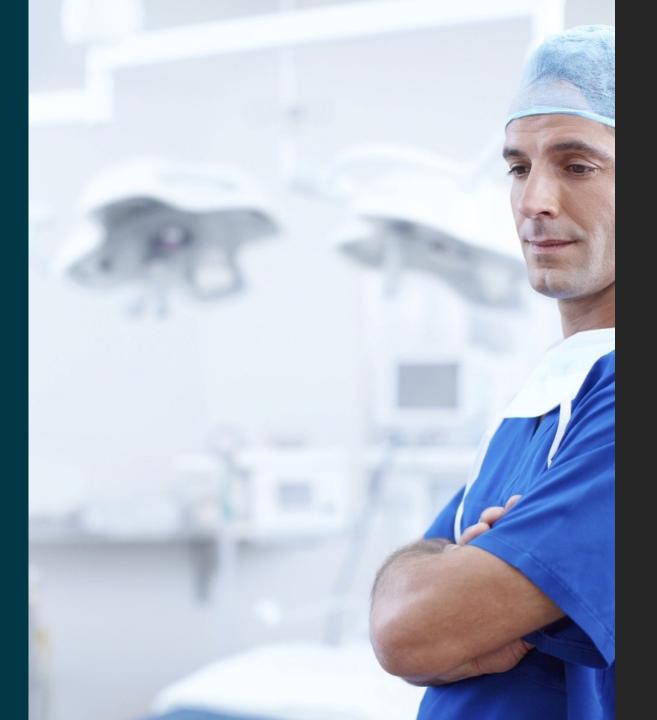


#ENERGY

- Sensors installation by drone on hughvoltage lines (SKYWIN/MECATECH)
- Macro and microeconomic analysis for the optimization and replicability of energy communities (TWEED Living Labs)







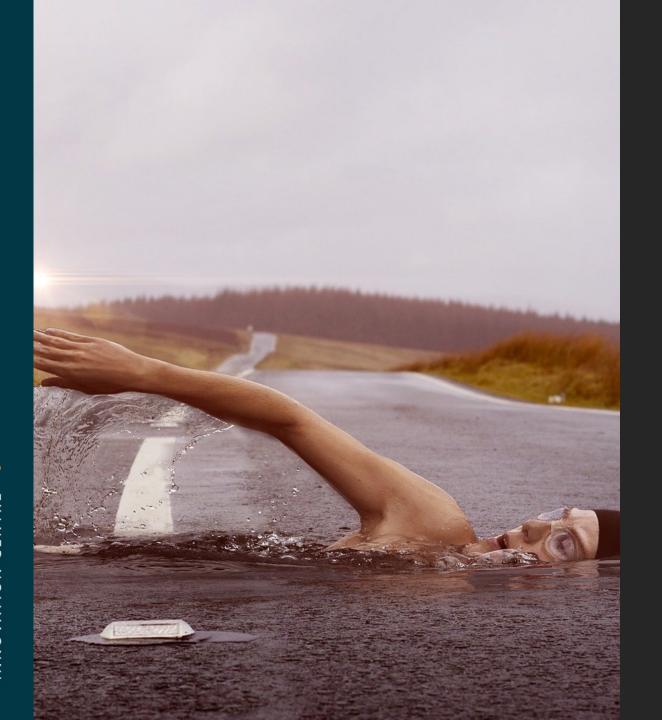
#HEALHTECH

- Versatile multimodal platform combining fluorescence technics for ex-vivo biopsies (EUROSTARS)
- Follow-up of Parkinson patient based on various biomarkers such as human pose estimation, voice or activity (BIOWIN)
- Wearables for real-time monitoring of SPOx (BUSINESS)
- Optical holography imagery for hematopathology (EUROSTARS).









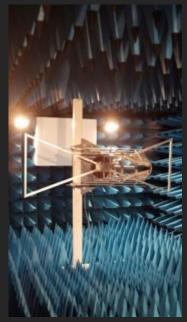
#SPORTECH #LEISURE

- Petank ball detection and distance measurement by image processing (BUSINESS)
- Object detection & classification for kayak counting (BUSINESS)
- Development of a communication system, by satellite, for alert levering (BUSINESS)





AND MORE ...





























500+ SUPPORTED SME & COMPANIES





































































































































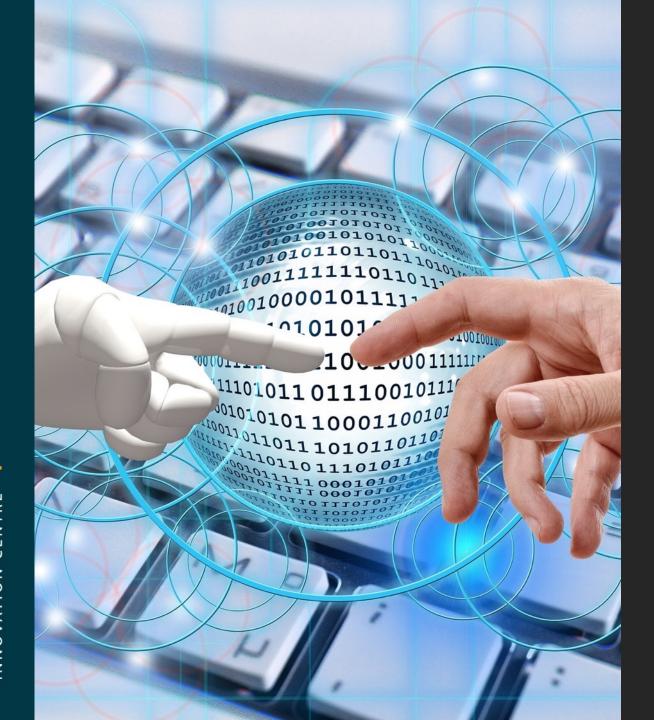












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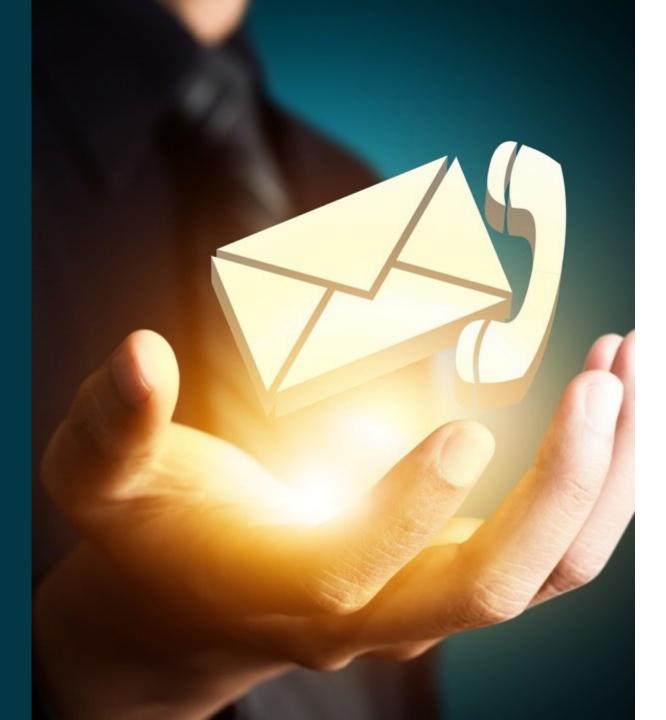












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