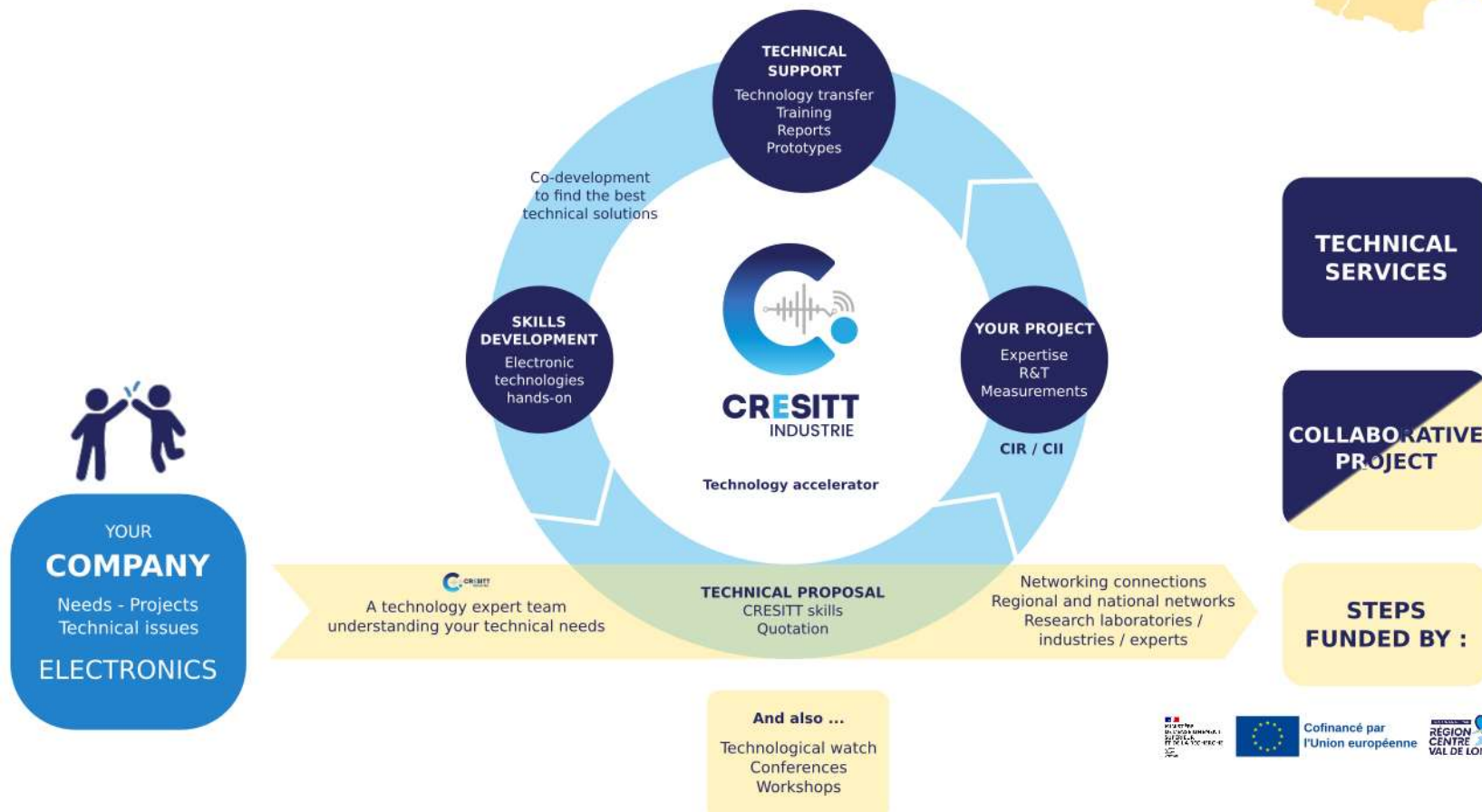




# ELECTRONIC TECHNOLOGIES





## HARDWARE

Sensors and signal reshaping  
Analog & digital electronics  
Analog front end  
Embedded systems Architectures  
( $\mu$ controllers, FPGA)  
Power supply systems  
DC/DC Converters  
Power electronics optimization  
Antenna matching and design



## FIRMWARE

Signal acquisition and processing  
Embedded low-layer software  
Securing  
Wireless protocols: BLE, LORA, Matter,  
RFID UHF, NFC,...  
Energy management  
Embedded Linux  
Network protocols: MQTT , HTTPS, ...



**OPTIMIZATION OF RF AND POWER CONSUMPTION PERFORMANCE**

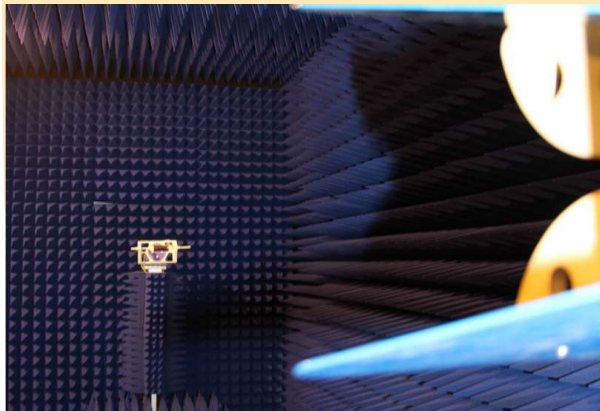
## ELECTROMAGNETIC COMPATIBILITY

Radiated and Conducted  
Immunity and Emissivity  
CE marking



## RADIOFREQUENCIES

Choice, matching and  
measurements of antennas  
Measurements according to  
RED directive  
Propagation simulations and  
antenna design



## STAND-ALONE SYSTEMS

Measurements of energy  
consumption  
Management of different  
power sources and energy  
harvesting techniques

