

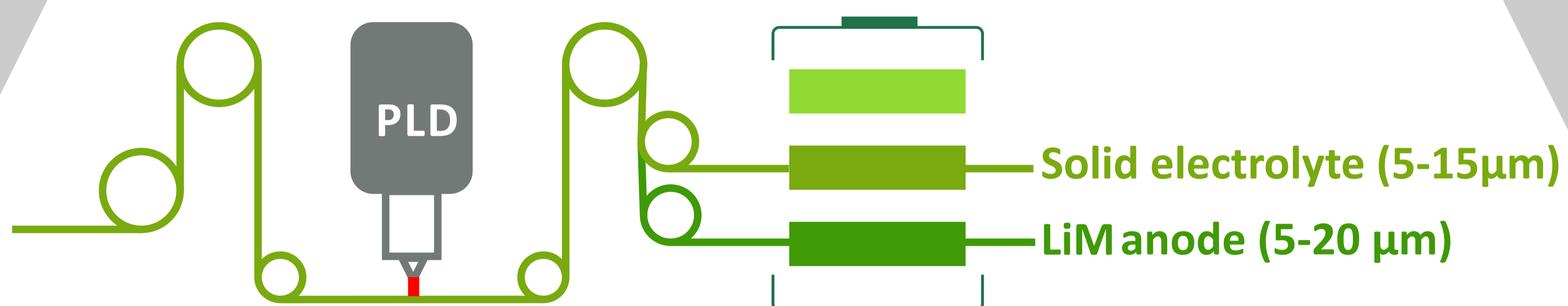
PULSELiON

Pulsed Laser depoSition tEchnology for soLIid State battery manufacturing supported by digitalizatiON

BATTERY MATERIAL PROCESSING

CONCEPT

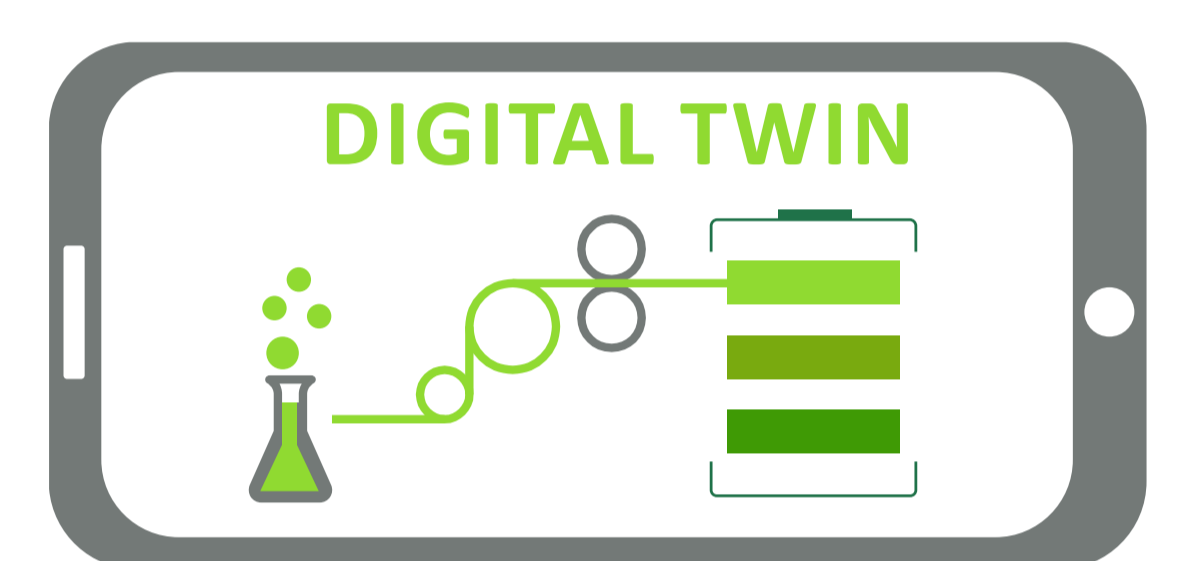
Pulsed Laser Deposition (PLD) in a roll-to-roll process to manufacture the LiM anode, Li protective layers and solid electrolyte



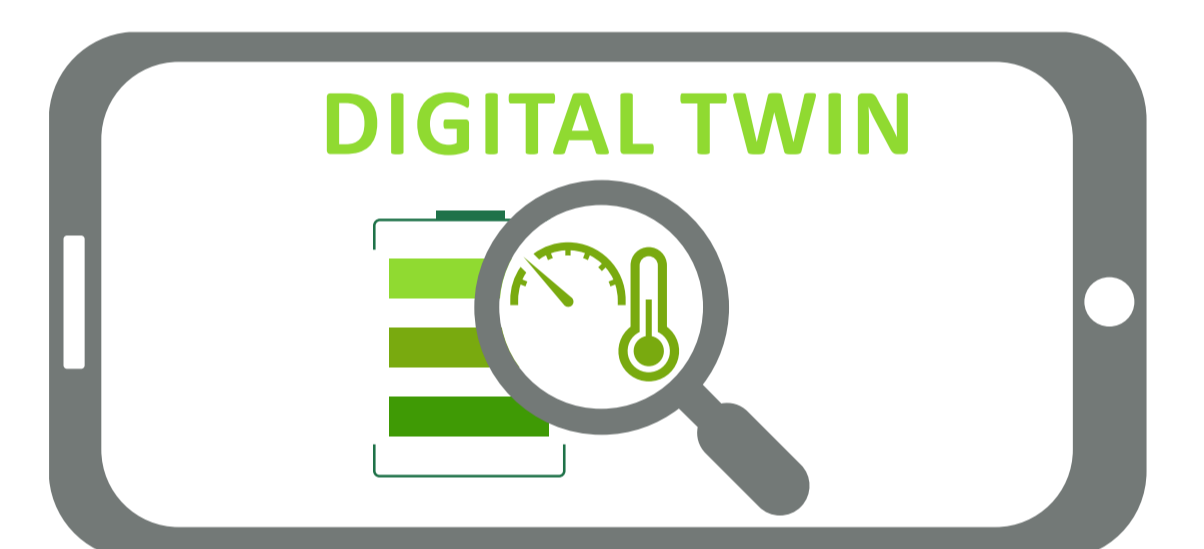
NMC cathode wet processing



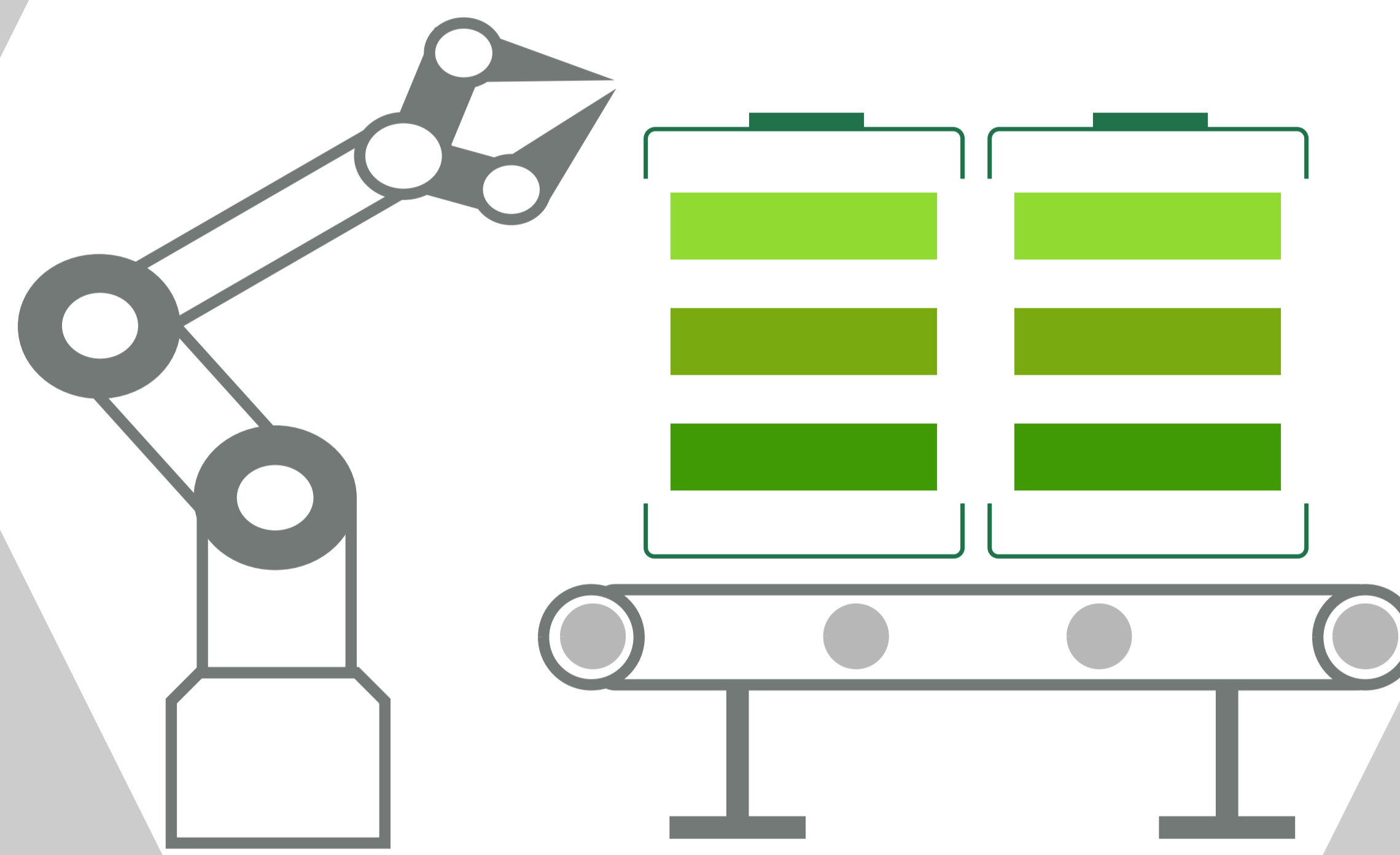
DIGITALISATION



physics-based and machine learning-based models for cathode processing optimization and performance prediction



UPSCALING TO PILOT-LINE MANUFACTURING



PULSELiON battery KPIs:
450 Wh/kg
1200 Wh/L
3000 cycles
< € 75/kWh
safety compliant
> 90% recyclable

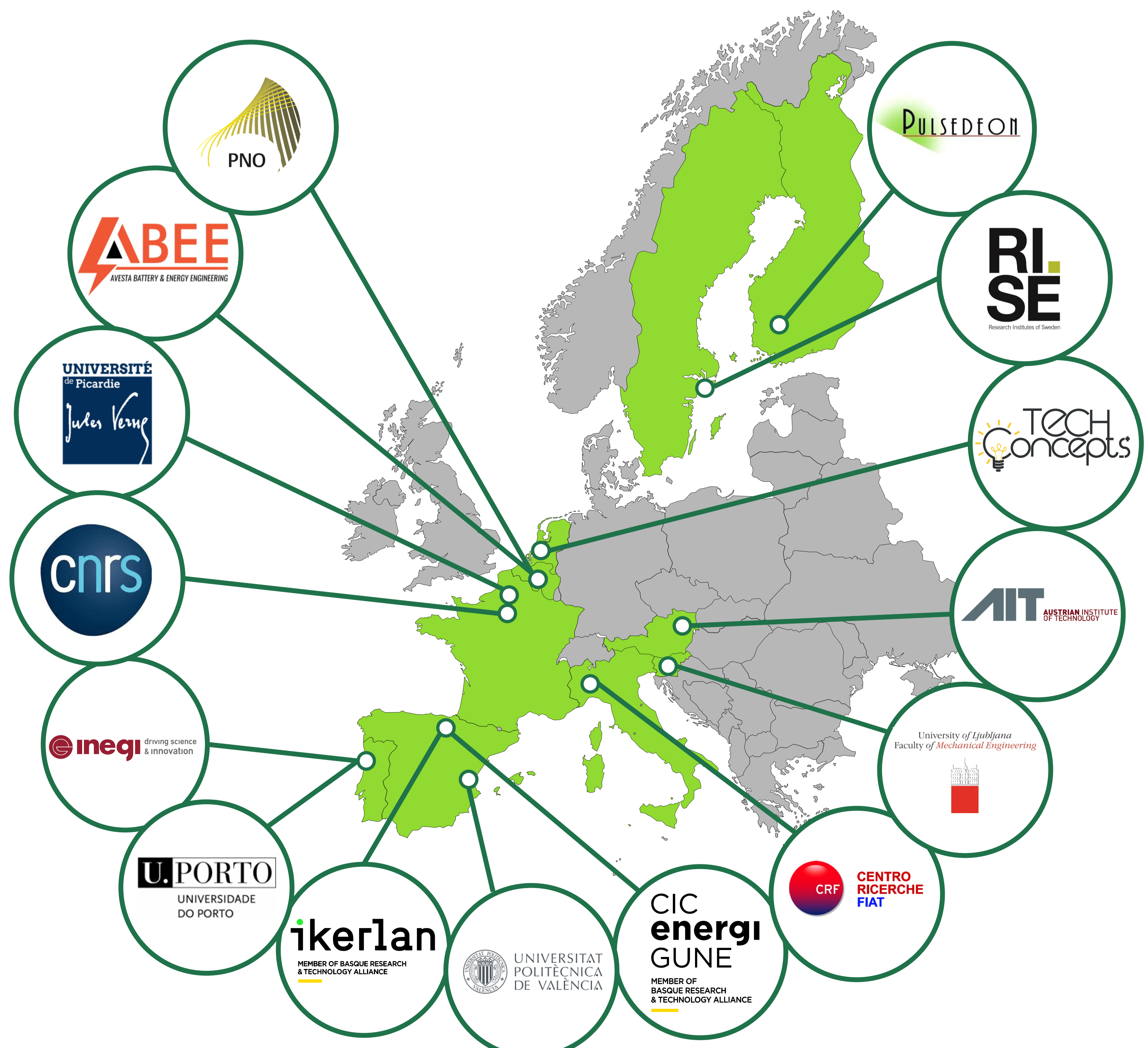
coin cell

1 Ah pouch cell

10 Ah pouch cell

module

PARTNERS



www.project-pulseion.eu



PULSELiON



PULSELiON_EU



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