



## **CRM Group at a glance**



- CRM Group is the result of the merger of independent and private research centers (265 engineers) dedicated to processes, products and solutions for metallurgical applications
- Our approach
  - Holistic: product process application
  - From lab scale over pilot lines to industrialization
  - Multi-sectorial approach cross-pollination
- Members and clients:
  - More than 45 members
  - More than 350 clients / year
  - Over 100 small & medium companies



# Remarkable pilot equipments



#### R2R Coating lines in clean room iso 7

#### **Vacuum coating PVD - PECVD**



Home made pilot R2R
Flexible tools (speed, coil width and thickness, processes)
Up-scalable process
Data monitoring for LCA

#### Wet coating Slot die - 3 rolls





#### **Electrostatic spray**





3D processes
Flexible (size, coatings)
Up-scalable process
Data monitoring for LCA

Thermal Spray: HVOF, plasma, twin arc, ...





# **Batteries @ CRM Group**

NMP-Free LFP-based ink Upscale on pilot equipment







PV panels integrated on steel roofs



Induction smelting furnace Plasma pilot facility -2022







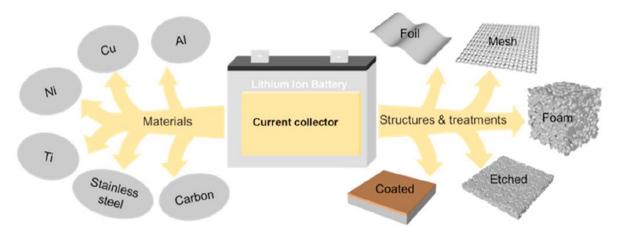
Customer oriented

### Area of interest



#### **New current collectors** and associated interfaces

- ➤ Lab investigation of innovative designs or materials
- ➤ Pilot scale product and process validation



P. Zhu et al., Journal of Power Sources 485 (2021) 229321.



# THANK YOU

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For a better future