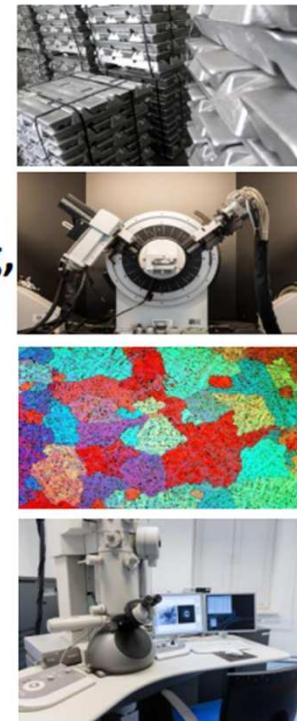




	Project Idea Advanced Sustainable Technologies for High-Performance Aluminium Alloys and Circular Manufacturing
Organization name, town and country	Łukasiewicz Research Network – Institute of Non Ferrous Metals Division in Skawina
Addressed topic(s)	HORIZON-CL4-2026-01-MAT-PROD-14 – Improving availability of secondary raw materials through recycling (IA)

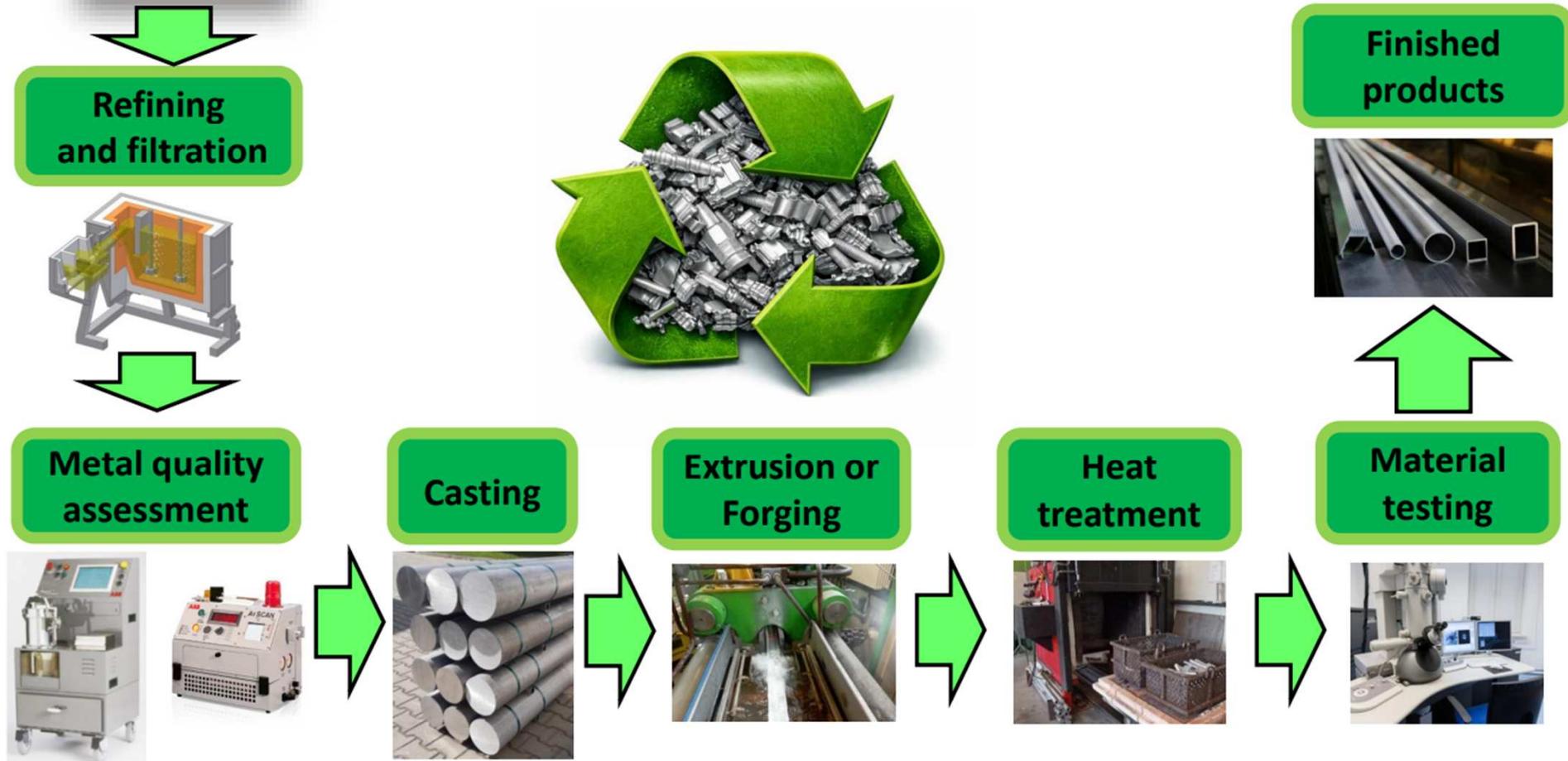
Areas of activity:

- **Development and production of new advanced materials based on light metals**
- **Development of technology for the preparation of liquid metal for casting**
- **Casting of Al and Mg alloys in the form of billets for plastics processing**
- **Plastic working processes, including extrusion, continuous rotary extrusion, rolling, forging, drawing and stamping**
- **Production of anodic oxide coatings**
- **Chemical analysis and testing of structure, mechanical properties and corrosion resistance**





Advanced Sustainable Technologies for High-Performance Aluminium Alloys and Circular Manufacturing





Project at the Light Metals Centre

Recycled automotive brake disks by upgrading metallic scraps

Substitution of Critical Raw Materials on Aluminium Alloys for electrical vehicles

Development of innovative technology for recycling of hard-to-recycle, non-recyclable aluminum waste in Poland by plastic consolidation

Aluminium based multifunctional housing for circular electronic devices



Contact details

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