WHAT WE OFFER: services and expertise

- Characterization / tests / analyses carried out by qualified UCLouvain staff members
- Chemical analysis of solid, liquid, gas in material and chemical process
- Analysis of fracture mechanisms
- Processing of metallic materials, ranging from casting, atomization, 3D printing, heat treatments
- From nm to mm characterisation thanks to microscopy and tomography

Chemical analysis
- Infrared Carbon/Sulfur Analyzer Sylab 1600 F
- Inductively Coupled Plasma ICP/OES Agilent 5100
- Zeiss Ultra 55 SEM with Bruker EDS chemical analyzer
- Gas/Liquid chromatography

Metallography analysis
- Zeiss Ultra 55 SEM
- Zeiss Supra 55 SEM with EBSD
- Philips CM30 TEM
- Bruker XRD D8 Advance and Discover
- Light microscopy

Micromechanical analysis
- Zeiss Ultra/Supra 55 SEM
- EBSD camera and in-operando mechanical testing machines
- Micro indenter EMCO Durascan 70G5
- Nano indenter Agilent G200
- Bruker UTM3 Tribometer

Metal processing
- 2kg/20 kg casting furnaces
- Hot/cold rolling
- Arcast 80g/200g arc melting furnaces
- Arcast Powder atomiser
- Metal 3D printing
- Electro Spark Deposition ESD
- Quenching and deformation dilatometer

Thermal properties measurements
- Netzsch STA449F3 DSC/ATG 1600°C
- Netzsch SBA458 Seebeck coefficient and electrical conductivity measurements
- Netzsch LFA467 thermal conductivity - thermal diffusivity measurements
- Dilatometry

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Investment in 2021
- X ray tomography
- Optical 3D microscope
- Specimen preparation


(5) DRX Bruker D8 Advanced – (6) Arcast Atomiser – (7) 3D-System PROX200 3D printer

MMCM
UCLouvain

LACaMi

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Avec le soutien de