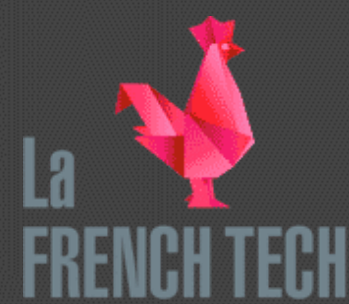




Design-moi une surface

WHICH TOOL IS ABLE TO SUBLIMATE ALL KIND OF MATERIALS WITH MICROMETRIC PRECISION?



ONE LYON
ST-ÉTIENNE

SAINT-ÉTIENNE
la métropole

SÉM

La Région
Auvergne-Rhône-Alpes



Loire
LE DÉPARTEMENT

www.manutech-usd.fr

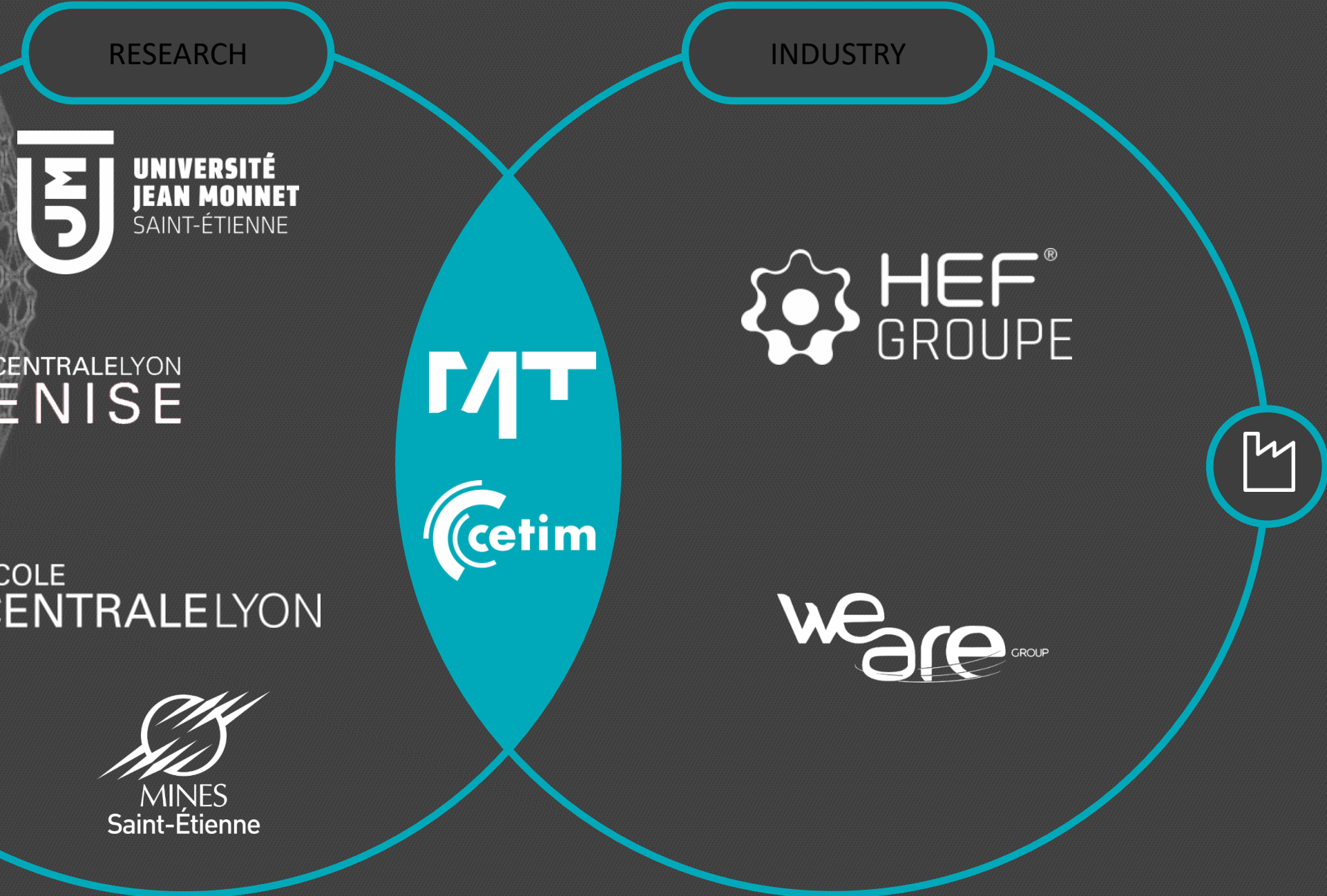




ECONOMICAL CONTEXT


LABEX MANUTECH-SISE
 UNIVERSITÉ DE LYON

MANUTECH SLEIGHT
 Université de Lyon



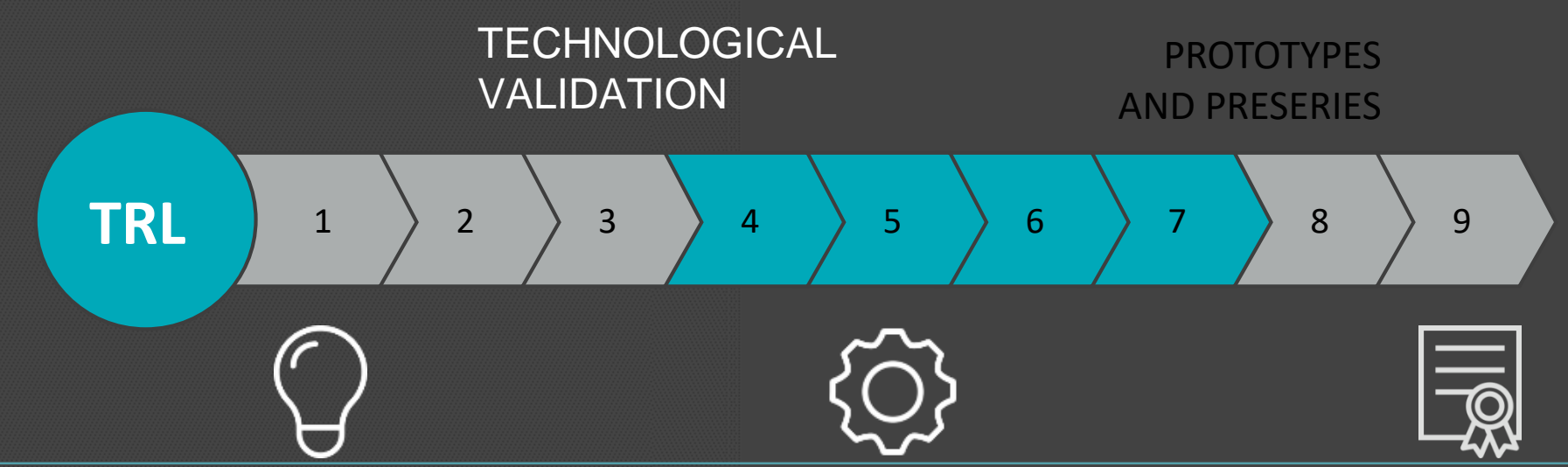
CREATION
2012

STAFF
13

50%/50%
 scientific collaborations
 industrial activities

- Technological platform dedicated to femtosecond texturing for surface functionalization
- Driven by academic and industrial partners for technological transfer of innovative solutions

SUPPORTED BY :  ANR  **La Région** Auvergne-Rhône-Alpes  **SAINT-ÉTIENNE** la métropole  **bpifrance**





EQUIPMENTS AND CAPACITIES

10 Femtosecond laser (≤ 300 W)

6 XYZ θ stages (0.1 μ m to 0.8m)

2 Robot arms

12
Laser
platforms

4
Characterization
platforms

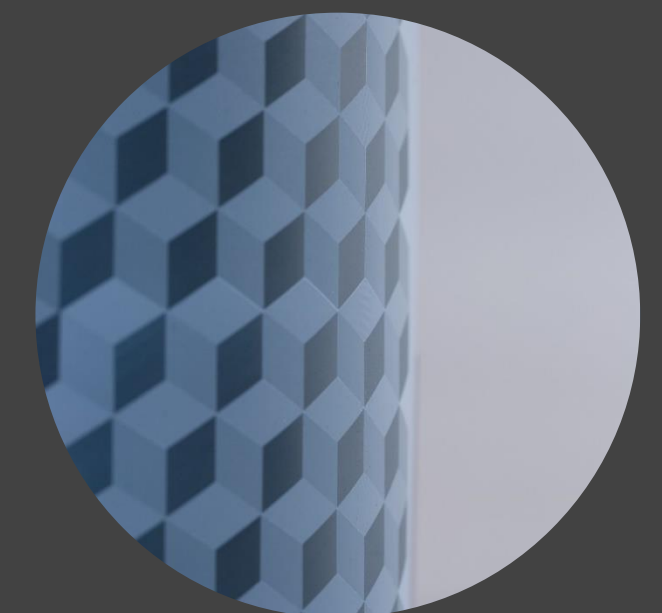
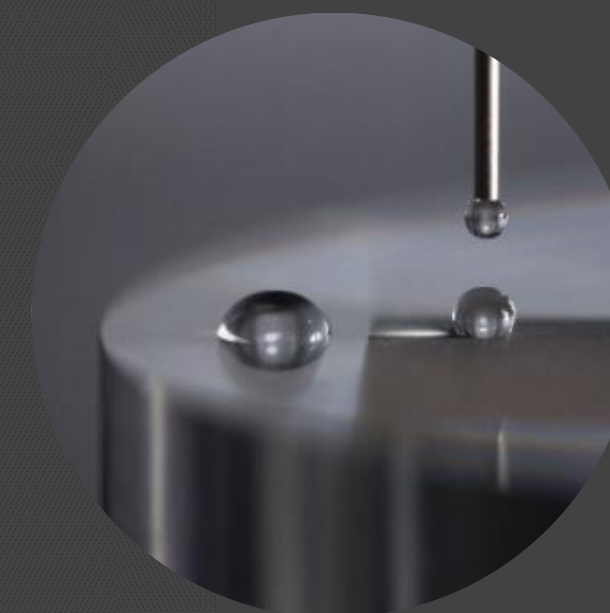
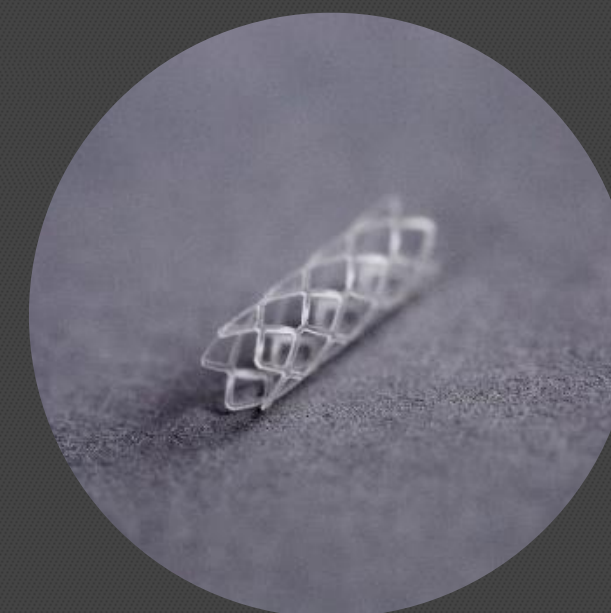
1 AFM

1 SEM / FIB

4 Optical microscopes

3 Topographic probes (Confocal & interferometric)

- Specialized in **femtosecond** laser processes
- **All types** of materials (polymers, metals, ceramics, organiq...)
- Industrial **upscaling** optics and modules (beam shaping, fibering...)



ISSUES

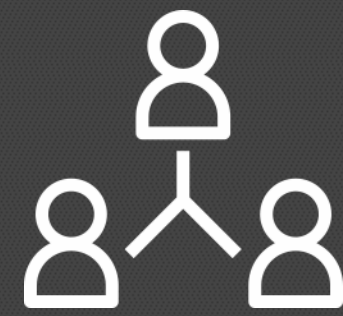
**Complex
parts**

**Quality
Repeatability**

**Time
processes**

EUROPEAN PROJECT

LASER IMPLANT



6 partners



Budget



1.94M€

Budget over 2 years



Objectives



- Surface Design on TA6V
- Biological characterization
- Production demonstrator

WHAT CAN WE BRING TO YOUR PROJECT

+ 25 partners

MEMBERS OF



Research clusters

university

startup ecosystem

large companies customers



CONTACT

Nicolas Compère Vice-Président

nicolas.compere@manutech-usd.fr

+33 (0) 6 01 46 41 14

www.linkedin.com/in/nicolas-comp%C3%A8re-26873373

