## **OUR USERS ADVICE**



#### M. Morancho, Professor at LAAS-CNRS

We were able to design within the LAAS's cleanroom electronic power devices on two different materials: silicon Superjonction diodes (components with deep trenches) and gallium nitride HEMTs (High Electron Mobility Transistors) on Silicon substrates. All technological post-epitaxy steps were operated in LAAS and allowed us to get components displaying the desired features.





### M. Ghannam, Founder and CEO of 3DiS Technologies

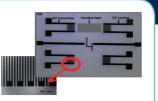
LAAS-CNRS micro and nano technologies platform welcomes and supports R & D activities of our startup since its inception. A wellequipped platform and a very competent staff, coupled with direct access to the machines, create a synergy that allows us to develop innovative technology for assembly and integration of 3D microsystems.





#### Ms Dejous, Professor at the IMS

Users of the platform, we always have attentive interactions about our need and it's purpose, fruitful discussions during the processes developments. Oriented since a while to surface acoustic wave devices, new projects have emerged, Photonics devices on polymer, inkjet deposition of graphene oxide films.



Renatech team became a must, both by its equipment and by the team itself, for its competency always at the forefront, and always friendly hospitality.

■ LAAS is a laboratory of the French National Center for Scientific Research (CNRS), within the INS2I and INSIS Institutes. It is associated to the French University Midi-Pyrénées of Toulouse.

It hosts more than 700 people (research scientists and faculty members, PhDs, postdocs and engineers, technicians and administrative staff).

The topics cover the following areas:

- Computer science;
- Robotics;
- Automatic control;
- Micro and nanosystems.

The platform activities are cofunded by:









The platform is referenced as a european technology center to help SMEs to innovate through Key Enabling Technologies: https://ec.europa.eu/growth/tools-databases/kets-tools/kets-tc/map

Website: https://www.laas.fr/public/fr/Renatech Access to platform equipements: http://lims.laas.fr/default.aspx

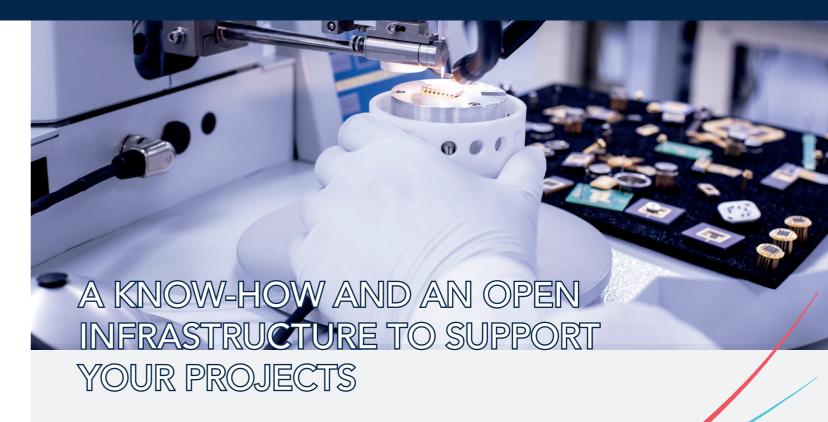
Conception - Dominique Daurat, LAAS-CNRS

Crédits photos - Yannick Marro





# **LAAS-CNRS MICRO AND NANOTECHNOLOGIES PLATFORM**



About Aeronautics and Space Defense

> Micro and Nanosystems Telecommunications Plant of the futur

Agriculture Energy

Health and Silver Economy Motor and Railway Transport





## TECHNOLOGY for micro and nano devices prototyping

1600 m<sup>2</sup> clean and grey room

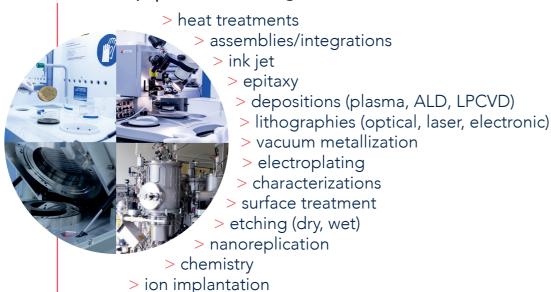
200 users

Nearly 40 engineers and technicians

35 M€ equipement

- > micro-nano electronics
- > optics/photonics
- > micro/nano devices and micro/nano systems
- > bioelectronics, biosystems, biophysics

## TECHNIQUE: equipment at the highest international level





## **EXPERTISE** scientific and technical by direct interactions with

- > technical staff of nearly 40 engineers and technicians in charge of the platform and nearly 100 researchers and professors of the laboratory
- > LAAS's simulation and characretization platforms
- > Renatech network https://www.renatech.org

#### WHO?

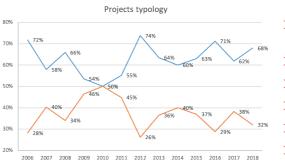






needing micro and nanofabrication means.

#### WHICH PROJECTS? Collaborative or service



- scientific and technical collaborations
- prototyping
- > services
- > hosting equipment/people
- > training
- > expertise and advise

## **HOW?** to formalize various aspects

- > technical
- > human
- > financial (auditable billing procedure)
- > delay
- > privacy / IP
- > online tracking

# renatech@laas.fr











**Every year** 

- 150 supported projects
- 40 external people hosted

