



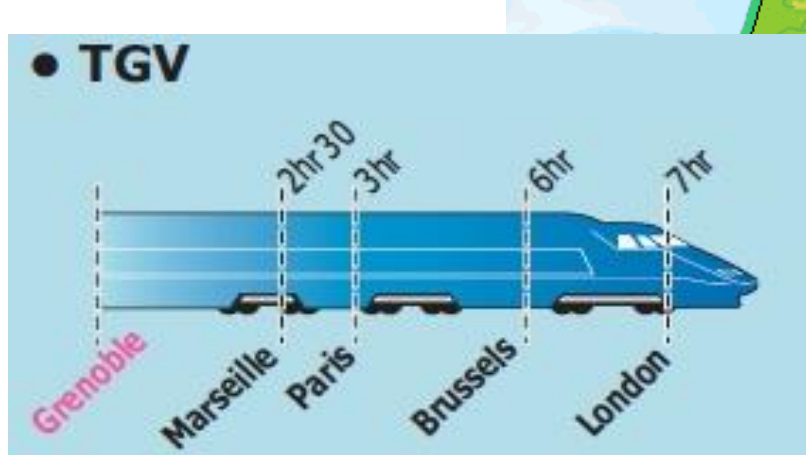
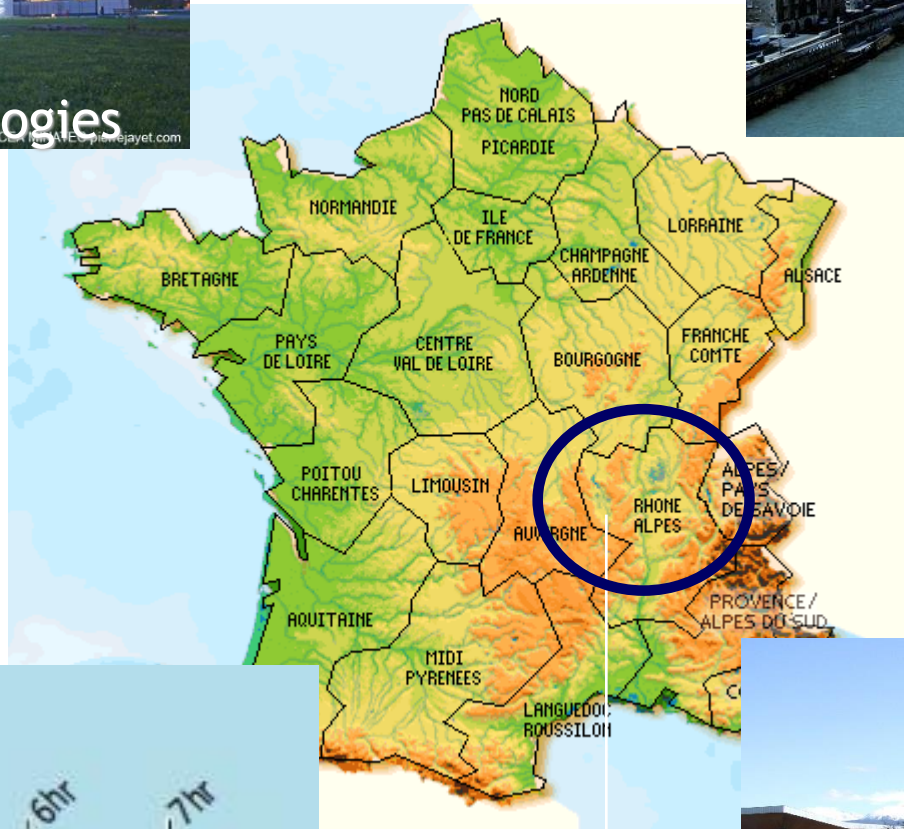
EMNano+ Master Program @ University Grenoble-Alpes

General Informations about Grenoble and UGA

<https://master-nanosciences.univ-grenoble-alpes.fr/academic-program/emm-nano/-emm-nano-483724.kjsp?RH=3972980646879902>



Micro-Nano-Technologies



Grenoble





Grenoble

400 000 people

1 of 5 is a student

25 000 R&D jobs

France's highest concentration

200 research Labs

European
Research Facilities

Grenoble

400 000 people

1 out of 5 is a student

25 000 R&D jobs

France's highest concentration

museums, theaters

Jazz festival (Vienne)

10 ski resorts < 40km

Major area for research, advanced technologies and higher education...

60 000 students
9000 international students

7500 staff members

23 international
Master's programs

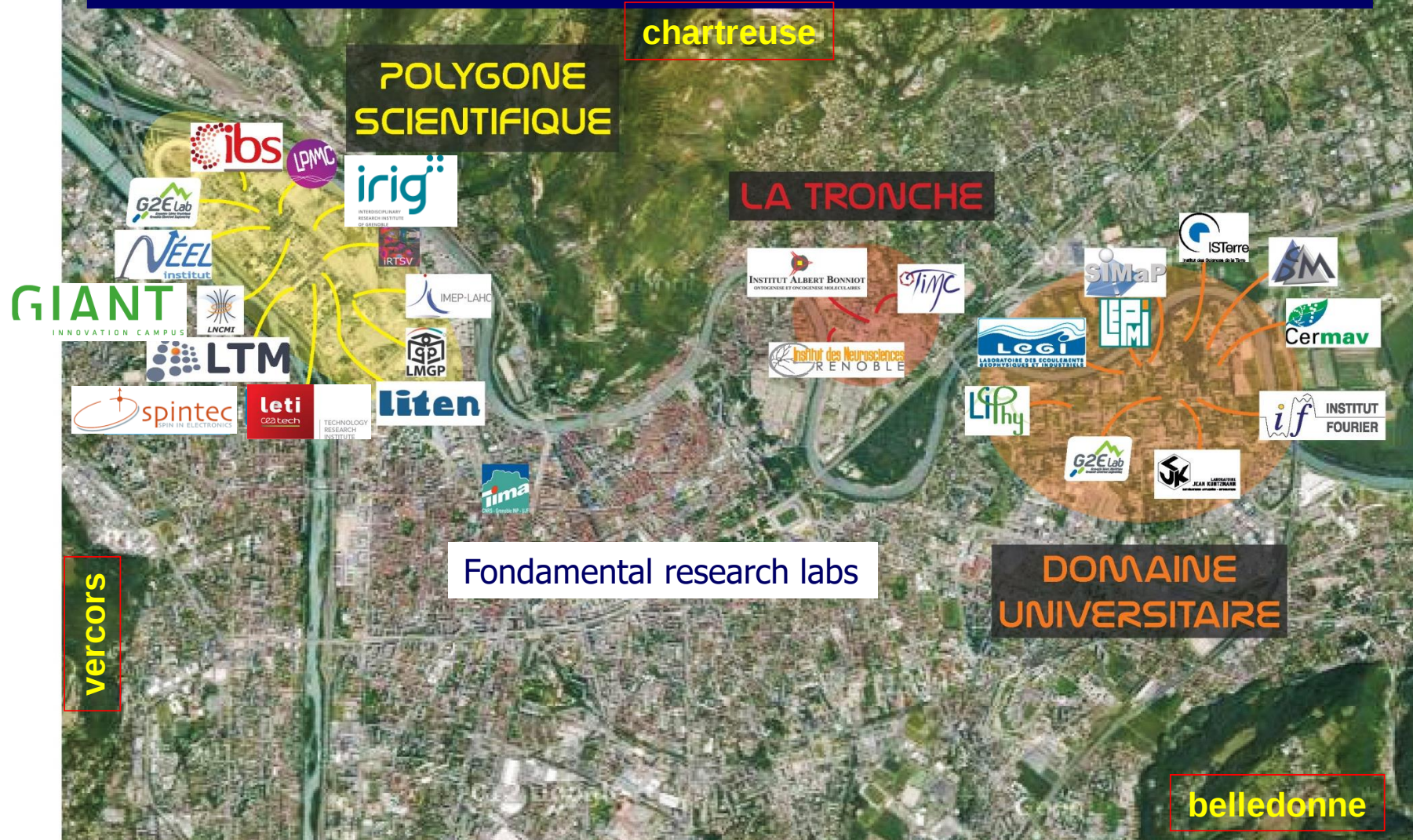
1st University in France
in 11 fields including
Nanoscience-Nanotechnology



<https://www.univ-grenoble-alpes.fr/university/>

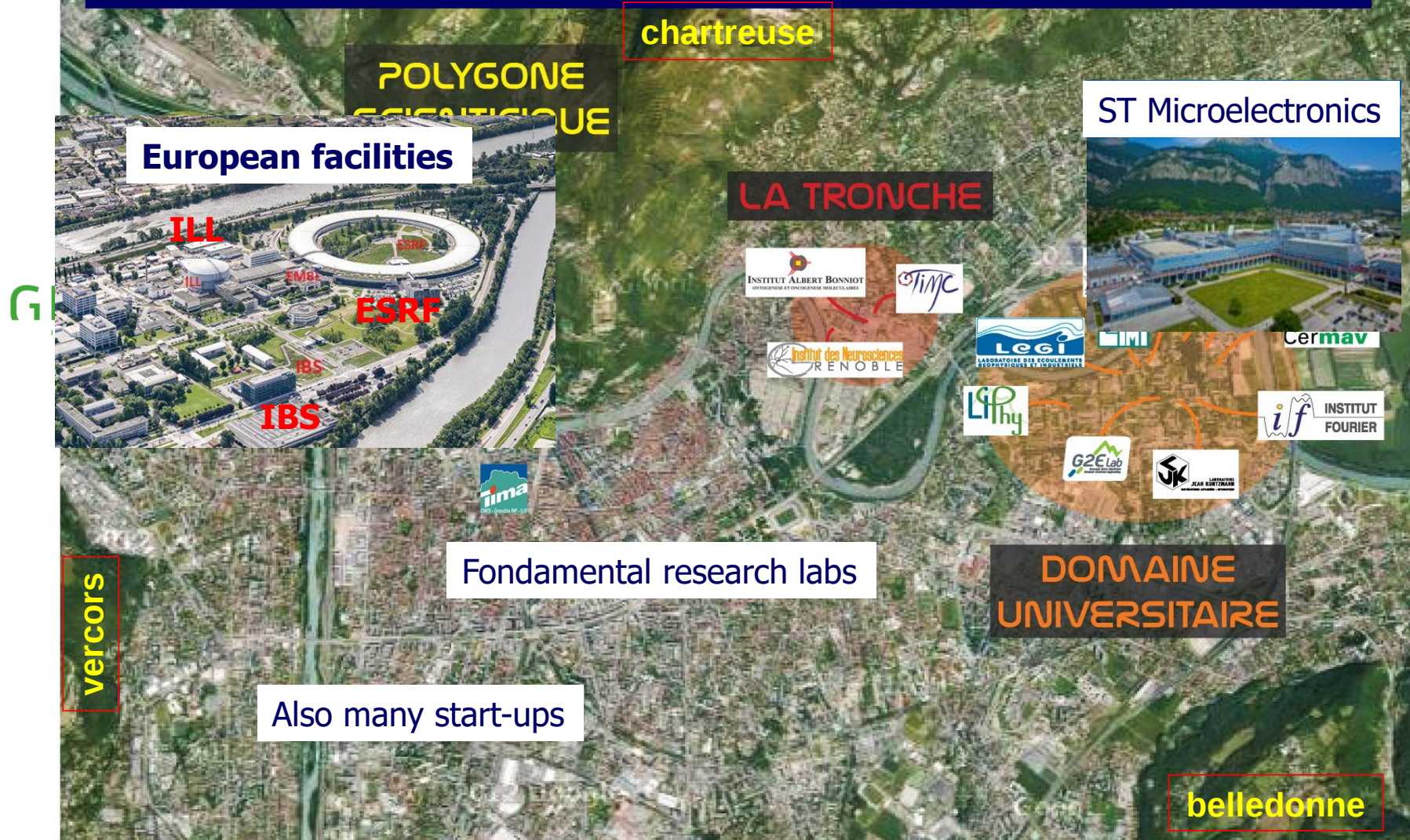
Since January 2020: UGA is the aggregation of the former Université-Grenoble Alpes and the most prestigious higher education in Grenoble : Grenoble INP Institute of Engineering and Management, Sciences Po Grenoble, School of Political Studies and ENSAG School of Architecture.

The Nanosciences Foundation's network in Grenoble = 33 laboratories



See third pdf file dedicated to the study program **with online web links on labs**

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Academic Research laboratories in Nanoscience-Nanotechnology

- More than 33 academic laboratories affiliated with CNRS, UGA or CEA working in Nanoscience See map on the next slide and the third pdf file dedicated to the study program **with web links**.
See also <https://master-nanosciences.univ-grenoble-alpes.fr/nano-grenoble/>

- 4 European facilities: ESRF, ILL, EMBL, EMFL:



EMBL



- Micro-nanoelectronics centers and platforms: CEA Leti, CIME Nanotech, ST ...



TECHNOLOGY
RESEARCH
INSTITUTE



- 3 Laboratories of excellence (federative actions for research including PhD programs)

- **Labex Gral:** Grenoble alliance for integrated structural and cell biology (Molecular machines dynamic, self organization of Living Systems: <https://www.labex-gral.fr/ongoing-call/>)



- **Labex Lanef:** Photonics, spintronics, nanoelectronics, energy, cryogeny, nanosensors, nanomaterials... <http://www.grenoble-lanef.fr/>



- **Labex Arcane:** Biology/chemistry interface, bio-inspired chemistry, <https://www.labex-arcane.fr/en>



- 3 European pre-doctoral schools: [Esonn](#), Hercules, Erca (dead line May 2021 for ESONN !)

Quantum technologies in Grenoble

An outstanding ecosystem for Research, Education and Innovation

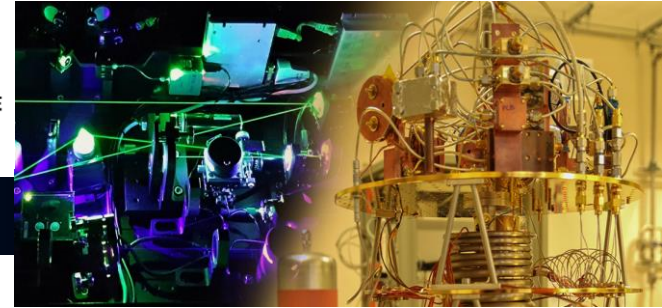
More than 230 researchers in 18 different laboratories from QuantAlps Grenoble federation. Major companies (ST Microelectronics, Air liquide,...) and emerging start-ups (Silent waves, Silicon,...). UGA coordinates the development of the academic training on quantum in French Universities.

see <https://quantalps.univ-grenoble-alpes.fr/>

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The National Quantum Strategy



National education program



QuanTEdu-France

QuanTEdu-France : 2022-2027 National program for Quantum technologies, Education and training to meet the strategic skill needs of research and industry in France.

➤ Consortium :

- 1. Université Grenoble Alpes (UGA, coordinator)**
- 2. Institut Polytechnique de Grenoble (GINP-UGA)**

3. Université Paris Saclay
4. Institut Polytechnique de Paris
5. Ecole Polytechnique
6. Ecole Nationale Supérieure de techniques avancées
7. Sorbonne Université
8. Université de Paris
9. Université Paris Sciences et Lettres
10. Université Sorbonne Paris Nord
11. Université de Montpellier
12. Université fédérale de Toulouse Midi-Pyrénées
13. Université de Bordeaux
14. Université Côte d'Azur
15. Aix-Marseille Université
16. Ecole Centrale de Marseille
17. Université de Strasbourg
18. Université Bourgogne Franche-Comté
19. Ecole Normale supérieure de Lyon
20. Université de Lille
21. Telecom Paris

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