



Laboratoire d'Excellence
Grenoble

Mechanical and process
engineering contributions
to 21st century societal issues

Providing engineering solutions for today's increasingly complex challenges

Over the last 30 years, research in mechanical and process engineering has provided significant contributions to progress.

how ?

- Providing a deeper understanding of physical and chemical fundamental mechanisms
- Developing new concepts, and innovative numerical and experimental tools
- Better modelling the processes involved in natural and industrial systems

More demanding requirements in simulation and modeling tools.

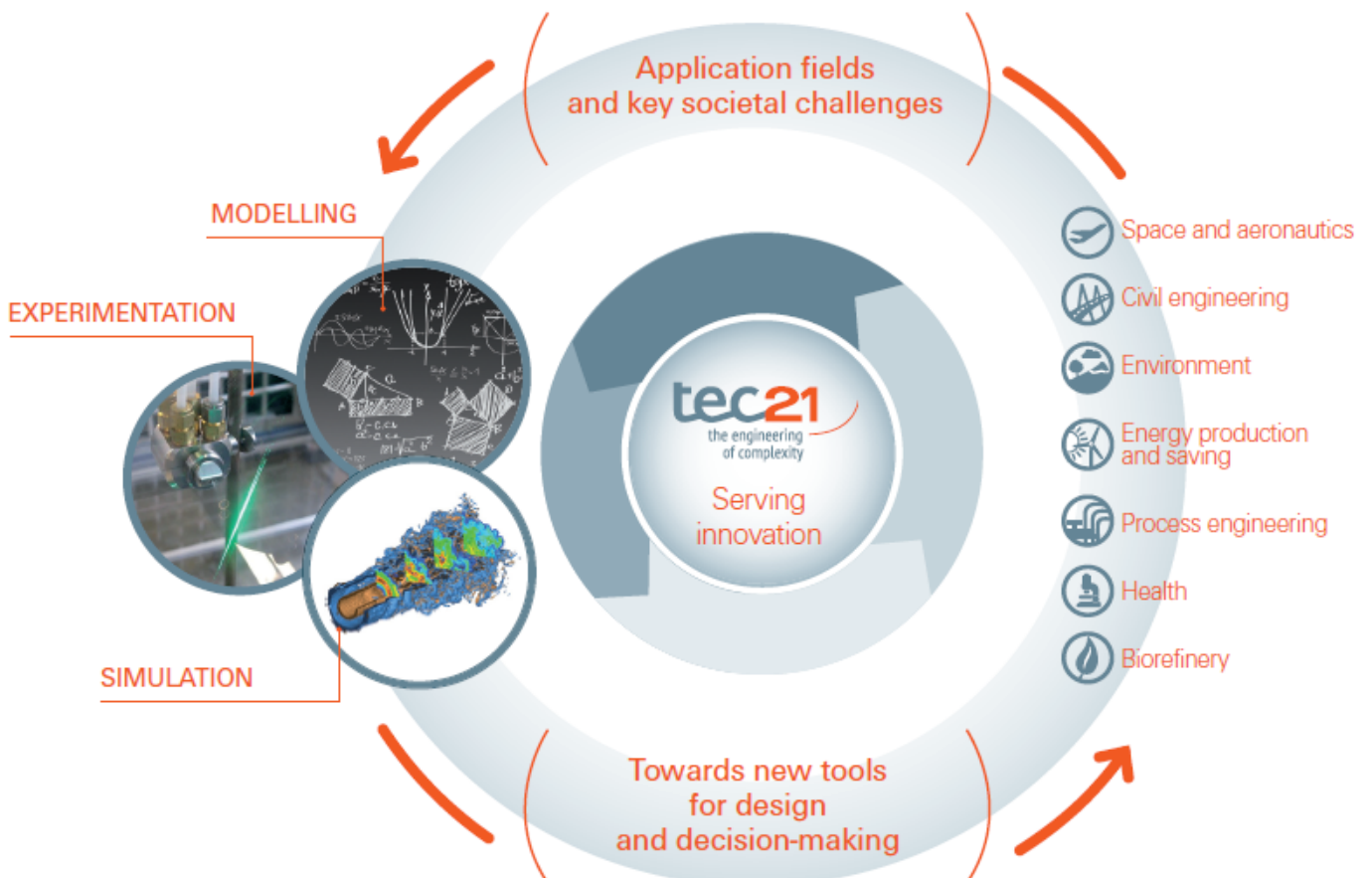
why ?

Design engineers, decision makers and public services have to deal with more and more complex issues arising from societal demands:

- sustainability
- resource conservation
- risk assessment
- environmental and socio-economic impacts



"The goal of Tec 21 is to reinforce this progress with a deeper understanding of the processes involved, in order to integrate more complex mechanisms and contribute to innovation"

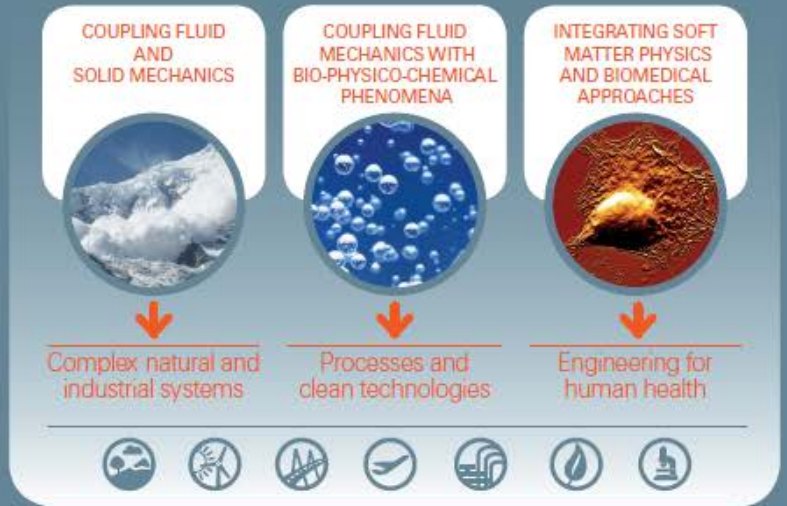


Reinforcing an interdisciplinary approach to science for a greater socio-economic impact



“Our ambition is to transform scientific knowledge into engineering solutions for industrial conception and decision making”

Tec 21 develops experimental and numerical tools within 3 main research areas in relation to applications.



Bringing together Students – Research – Industry



Tec 21 community is strongly involved in education from the first university years up to engineering degree and PhD level.

Our main goals are to:

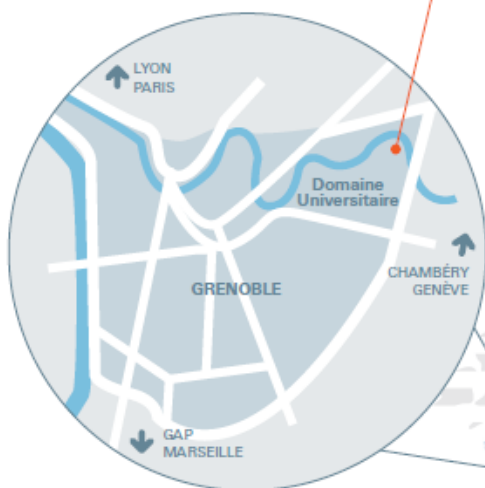
- Expand our teaching program in relation to the most recent advances in research, to equip students for dealing with complexity
- Introduce student training periods oriented towards research and development activities in close connection with industry

“Tec 21 also acts to reinforce the connections between science and applications through education”



Tec 21 in figures

- 7 partner laboratories in Grenoble (Université Grenoble Alpes)
- 250 permanent scientists and technical staff members
- 6.5 M€ budget allocated over 8 years
- 40% of the research activity in collaboration with industry



TEC 21
Laboratoire d'Excellence
+33 (0)4 56 52 86 50
contact@tec21.fr

LEGI Bâtiment K
1209-1211 rue de la piscine
Domaine Universitaire
38400 Saint-Martin-d'Hères
France
www.tec21.fr

Grenoble Alpes France

INSTITUTIONS:

UNIVERSITÉ DE
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PARTNER LABORATORIES:

