

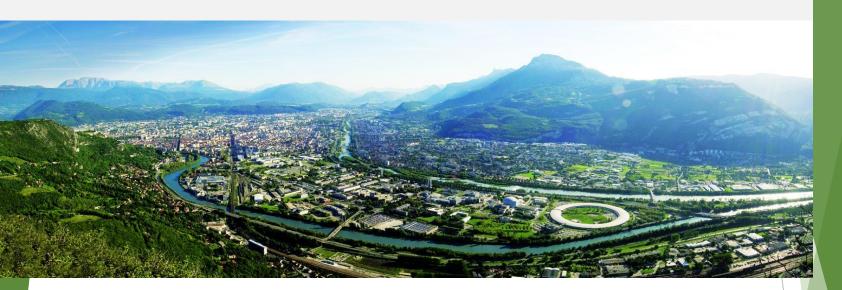
Grenoble Innovation for Advanced New Technologies

01/03/2017



GIANT
INNOVATION
CAMPUS

Outline



- Investing in the future
- A history of success
- GIANT Alliance
- An ambitious science and technology programme
- Research Industry partnerships
- Urban project



Investing in the future







- Higher education + R&D + advanced industry
 =
 wealth and job creation
- Attracting world-class researchers, engineers, innovators, professors and students
- Building a campus of excellence, comparable to ambitious initiatives around the world

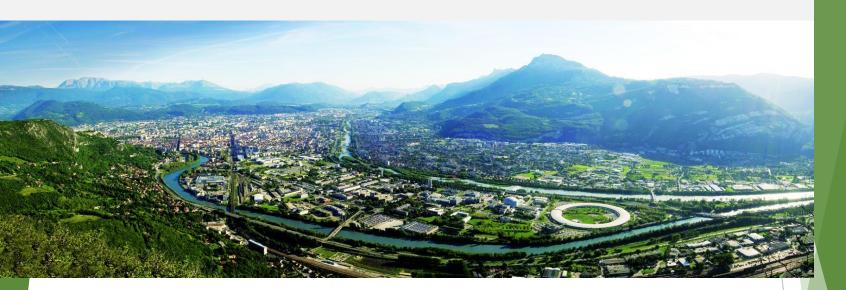






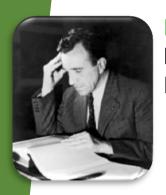
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1904-2000

Louis Néel Nobel prize in Physics Founder of the CEA Grenoble



1914-1968

Louis Weil
Former Dean of the Grenoble University



Louis Merlin Industrial Founder of Merlin-Gérin (Schneider Electric, 1920)

- A long tradition of strong cooperation between research / education / industry
- Two scientists and an industrialist three people who anticipated and prepared the future



1956 CEA (CENG)



Commissariat à l'énergie atomique

1962 CNRS



Centre National de Recherche Scientifique

1967 ILL



European High Flux Reactor

1988 ESRF



European Synchrotron Radiation Facility

2005 MINATEC



Micro et Nanotechnologies

2009 GIANT



An alliance for innovation



A continuing renewal of electric and electronics industries

Nanotechnology

Microelectronics



Electronics

Electrotechnics

Mechanics



1920







1970



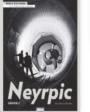
Schneider Electric



power



1900













A 250 hectare scientific centre within the city, forged on the success of MINATEC



Actions	Chiffres		
Fostering ERC (European Research Council)	52 laureats > 60 M€ since 2007		
GIANT International Internship Programme	116 students in internship three months since 2011		
Junior Scientist & Industry Annual Meeting	700 PhD + 280 professionals of the industry since 2009		
High Level on site visits	9 000 visitors (2015)		
Science Day Faire	5 000 visitors (2015) & 6300 pupils since 2007		
Ekiden (marathon)	700 teams - 4200 runners (7 th édition)		
GIANT Student Network	180 PhD participants since 2014		
GIANT@SCHOOL	25/75 high school, 3420 high school student since 2010		
GIANT Review	500 distibutes + 2 600 consultations		

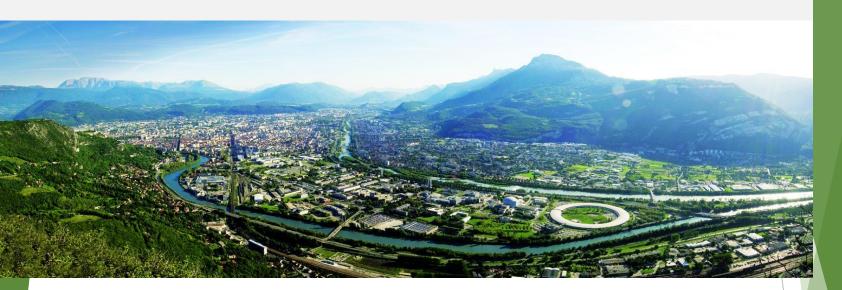


In pictures:



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GIANT Alliance

GIANT: an alliance of 8 partners

GIANT Council: Presidents and Directors of the 8 founding members
 In charge of strategic orientations and budget approval



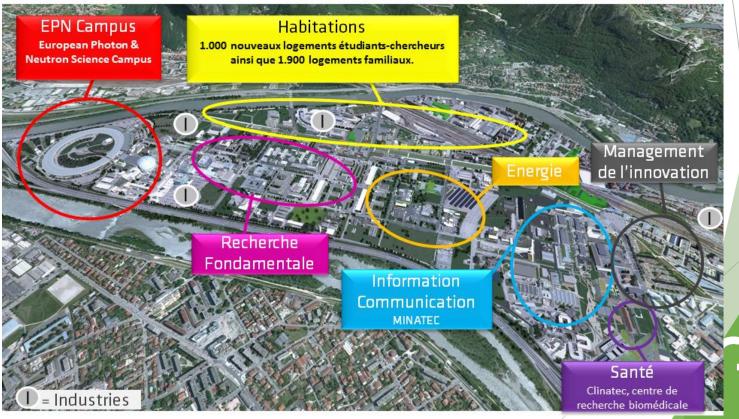
1 coordination group: 2 representatives per founding member
 In charge of preparing the projects for the Council



GIANT Alliance

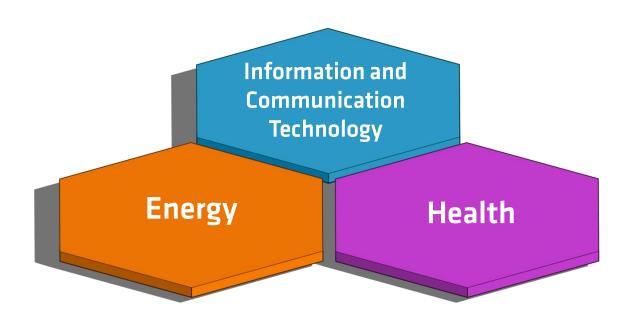
A 250 hectare campus

Or 344 football pitches
1000 supermarkets
5000 cinemas



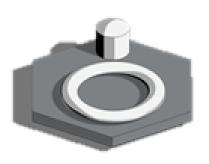
INNOVATION CAMPUS

Responding to major societal challenges:





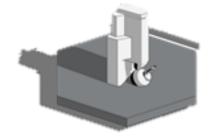
With 3 transversal competence centres:



EPN Science Campus
European large
infrastructures

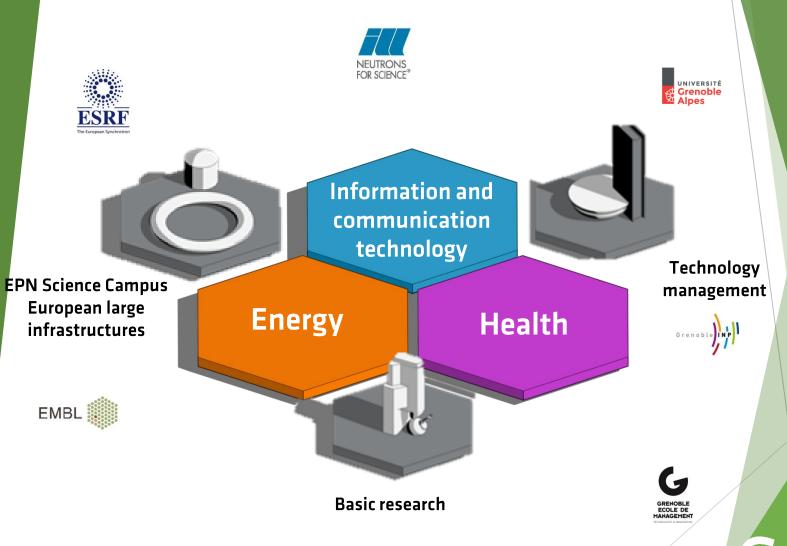


Technology management



Basic research











Major international research facilities:

European Synchrotron
Radiation Facility is a worldleading synchrotron radiation
source hosting 41 cutting-edge
experimental stations



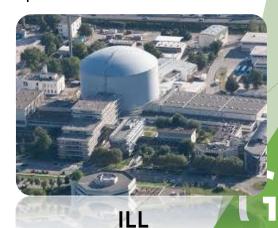






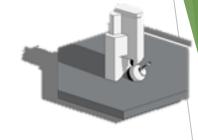
EMBL Grenoble is an outstation of the EMBL organisation (HQ in Heidelberg), specialising in research in structural biology







Basic research:



Fields of activity:

nanosciences and nanotechnologies, materials science, micro-electronics, quantum physics and lasers, cryotechnology, biology, biotechnology, and energy





Technology and innovation management:



Advancing corporate performance by providing skills and knowledge through excellence in pedagogic innovation and applied research



Backed by Grenoble Ecole de Management

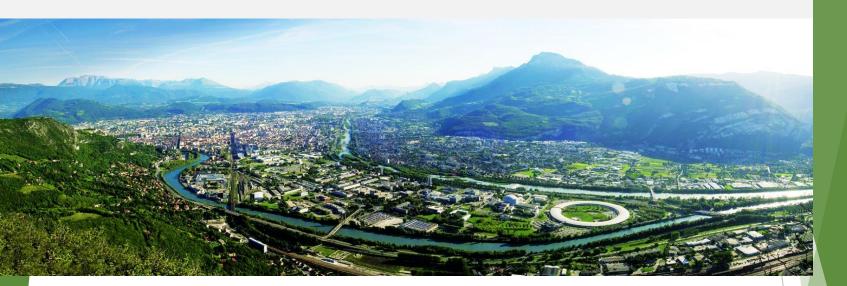


GIANT has public and private funding

Project investment	1 300 M€ between 2010 and 2015			
Research & Education	600 M€	including	MINATEC	110 M€
			NanoBio	50 M€
			GreEn	125 M€
			GEE & RF	295 M€
Development work	300 M€			
Infrastructures	400 M€			
Funding entities	24% 19% 5%	State Local government European large scale infrastructures CEA Private		



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Research - Industry partnerships

Today, 40 companies representing more than 5,000 industrial jobs located on the site

And more than 100 start-ups!









































































Research - Industry partnerships

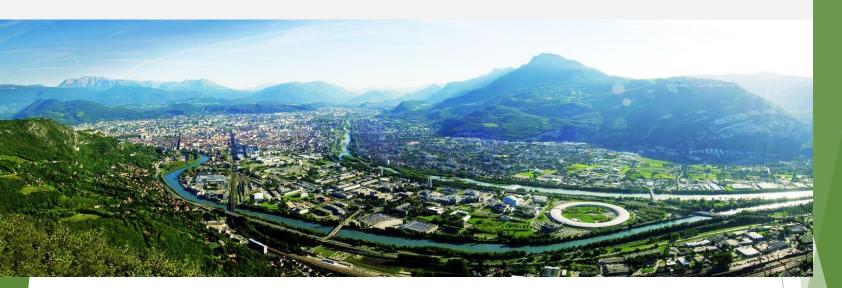
GIANT, instigator of synergies between research and industry:

- Provision for companies of advanced tools: technological platforms
- Active support for start-up creation
- Development research-industry partnerships
- Member of competitive clusters: MINALOGIC, LyonBioPôle, TENERRDIS, Carnot institutes





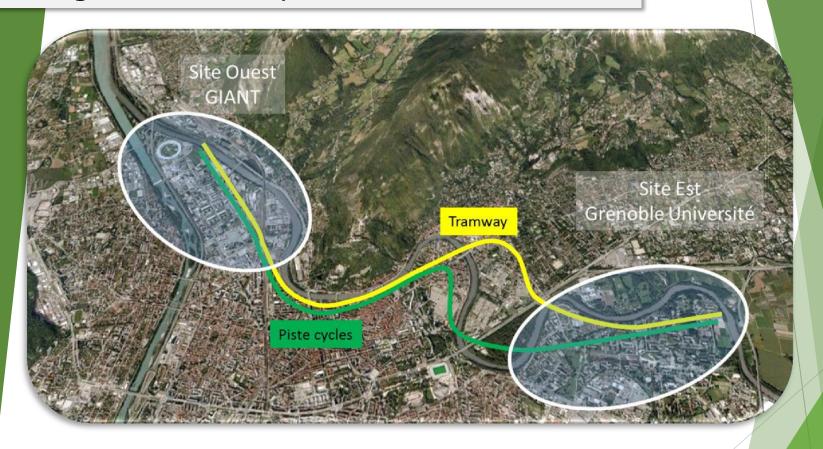
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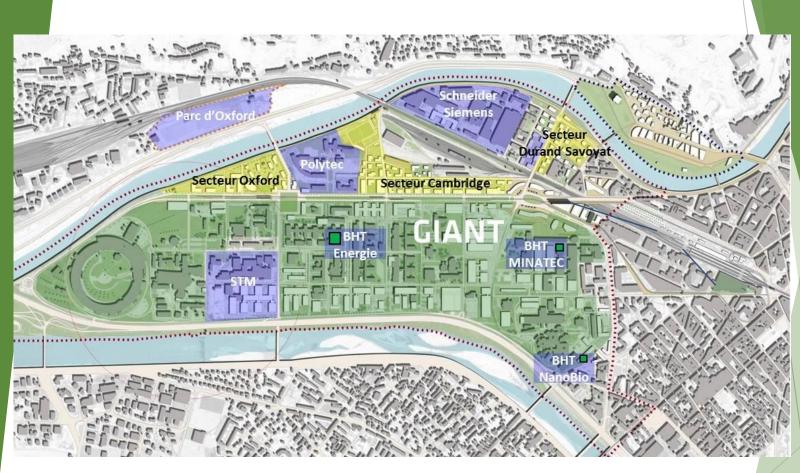


Existing situation: two campuses connected in 30 minutes









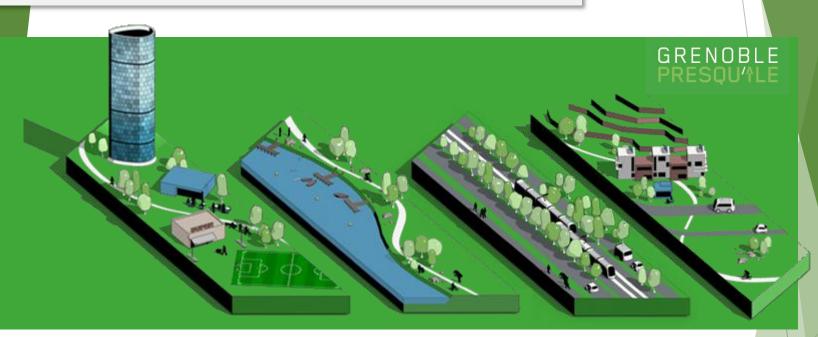
Industry, tertiary

Housing, shops, leisure facilities and transport infrastructures

GIANT research and education buildings



A green neighbourhood within the city, offering excellent living conditions and architectural coherence



- Hotel, restaurants, leisure facilities
 - Landscaping of river banks, parks, sports
 - Green mobility, tramway, bicycle tracks
 - Family and student housing, shops





Housing, shops, leisure facilities and transport infrastructures











I A N T

CAMPUS

- Existing situation: a campus close to the city centre
- Developing a green neighbourhood within the city: the Grenoble Presqu'île project
- Developing a carbon-neutral-site
- A mobility concept

"Greentech" energy production

Solar, hydrogen, hydraulic







Energy efficiency

Low consumption buildings Integrated energy management







Integrated mobility

Electric mobility services













Thank you for your attention.

Questions? Comments?



