Grenoble - Tsukuba Innovative Ecosystems
Tsukuba: City of harmoniously blended with nature and technology

Cosmopolitan City

Center of Science and Technology

Realizing a low carbon society

Comfortable Life
Cosmopolitan City

- Over 7,000 foreign residents from over 130 countries. (Account for 3% of the total population of the city)
- Multilingual guideboard with foreign languages.
- Multilingual bulletins (6 languages)
- Tsukuba International School
- Tsukuba festival
Comfortable Life

- Mt. Tsukuba
- Historical Site: Hirasawa Kanga
- Tasty Tsukuba
- “Ring-Ring Tsukuba”, the city of bicycles
- Nova Hall, Tsukuba Capio, Epochal Tsukuba
- Convenient to access
Tsukuba, next 50 years

Tsukuba Declaration (Extract)

Tsukuba Science City marked its anniversary of 50 years last year in 2013. It is time for the City to reflect its history of the past fifty years and start new history of the next fifty years. We share the view that constant innovations support Japan’s growth and we will deepen our relations to cooperate for leading world’s science with all wisdom from Tsukuba. The City declares to contribute to the Nation’s development and solution for global issues.

Mayor of City of Tsukuba
Kenichi ICHIHARA
Grenoble
Capital of the Alps
Capital of Innovation
A story of revolutions, social and technological innovations

- Birth of the French Revolution
- Resistance: Grenoble City «Compagnon de la Libération»
- Industrial revolution: hydroelectricity 1869
- News models of sustainable development

« Journée des tuiles » 1788
Grenoble’s Triple Helix

Higher Education
Research
Industry
Higher Education

- University Joseph Fourier = 5th in France (Shanghai Ranking – ARWU)
- INP = 2nd best engineering school in France (QS World University Ranking)
- GEM= top 5 business schools in France

- 61 300 students
- Student city: 1/5 inhabitants is a student
- 10.6% of these students are international
- Science oriented: 42% in scientific fields
- High level students: 14 doctoral schools
- 45% of PhD students are international
- Grenoble, #1 attractive city for students in France 2013
- Young: 33% of the population is under 25
- Qualified: 28.4% has a graduate degree (24.3% in France)
Research

- 3 Nobel and 1 Wolf Prize in Physics
- 1 Turing Prize (the only French one)
- 1 Draper Prize
- 2 Nobel Prizes for Chemistry
- 1 Blue Planet Prize

- 25,000 researchers
  - 15,000 public researchers
  - 10,000 private researchers

- Fundamental Research
- Applied Research

No 1 for R&D jobs in France

<table>
<thead>
<tr>
<th>City</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grenoble</td>
<td>7.1%</td>
</tr>
<tr>
<td>Toulouse</td>
<td>6.8%</td>
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<tr>
<td>Paris</td>
<td>4.7%</td>
</tr>
<tr>
<td>Lyon</td>
<td>4%</td>
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<tr>
<td>Rennes</td>
<td>3.6%</td>
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<tr>
<td>Nantes</td>
<td>3.5%</td>
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<tr>
<td>Nice</td>
<td>3.4%</td>
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<tr>
<td>Marseille</td>
<td>2.9%</td>
</tr>
</tbody>
</table>

Percentage of research and design jobs as a proportion of total jobs.
Industry

A diverse range of industries...

- Metalwork → 24,300 jobs
- Electronics → 23,800 jobs
- IT → 21,700 jobs
- Wholesale → 18,000 jobs
- Logistics → 16,200 jobs
- Chemicals, plastic, pharmaceuticals → 14,600 jobs
  (in Isère)

...including global leaders...

...with a strong international element...

...including several Japanese companies!
Imagine the sustainable city of the future

- Grenoble, the experience of the eco-districts: the site of Bonne
  - Experiment of a positive’s energy district
  - Transports
  - Social diversity
  - Functional diversity
  - Urban greening
Tramway and multimodal transport

- Invent the compact city of tomorrow
  - 37 km of tramway’s lanes
  - New line E created in 2014
  - Electric mobility
  - Grenoble, city for bicycles
Quality of Life

- Quality international education
- Environmentally responsible city planning → « écocités »
- Renowned public transportation system
- One of France’s top two bikeable cities → 300km of cycle lanes
- Plus...

[Images of paragliders, snow-covered landscape, wine barrels]
Grenoble and Tsukuba

Relations at each point of the triple helix!

- Cooperation between the two cities since 2013
- Collaboration between research institutes
- Agreement between CEA Technology Research Division and AIST in 2010, GIANT and NIMS in 2014
- Student exchange programmes → INP and UJF and Tsukuba University, business schools
- Cooperation on renewable energies and smart grids
- Cooperation with Toyota since 2005 / Test site for the Toyota I-Road
Thank you for your attention