Toulouse - Some Key Facts

TOULOUSE
Almost 472,000 citizens
4th biggest city in FRANCE
Toulouse - Some Key Facts

- World capital of aeronautics
- European capital of space industry
- **Toulouse** plays a **key role** in international space projects such as Galileo, Curiosity (Mars) or Philae …
- The **A380**, the largest aircraft in the world
- 25% of population are students
- European capital of Science (European label)

**Other important facts:**
- Jean TIROLE, laureate of the Sveriges Riksbank Prize in Economic Sciences in Memory of Alfred Nobel in 2014
- **3 UNESCO** World Heritage sites (8 in Occitanie Region)

**Basic economic aggregates:**
- Economic growth: +2.9%/year in Gross Domestic Product per capita – in Europe’s **top 10** urban areas (of more than 1m people)
- R&D investment: **€5bn/year**, 4.8% of GDP– in Europe’s **top 10** Regions (2013)
Toulouse - A Top 10 R&D region in Europe

• Midi-Pyrénées / Occitania, 6th most R&D oriented region with expenses totaling 4.8% of GDP (cf. illustration)
• 1st French city for the annual arrival rate of highly educated workers (research and design executives: 6.17 for 1000 jobs; Paris 5.57 - Bordeaux 3.34; INSEE 2013)
• 1st French city in research intensity with 16.2 researchers for 1000 employees
• 1st French region for executives working in R&D: 40%
<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>25% of the French R&amp;D in Aerospace</td>
<td>85,000 jobs in 700 companies</td>
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<td>Airbus Group World HQ</td>
<td>718 aircrafts delivered / 850 net orders in 2017</td>
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<td>1st French industrial site: 650ha &amp; 40k employees</td>
<td>Design, final assembly, flight tests</td>
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</tbody>
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Toulouse - World Capital of Aeronautics

Cradle for tomorrow’s technologies

Airbus Group World HQ

1st French industrial site: 650ha & 40k employees

Design, final assembly, flight tests
Toulouse - European Capital of Space

- Satellite imagery (SPOT IMAGE),
- Meteorology (METEO France)
- Oceanography (MERCATOR OCEAN)

- 25% of European workforce
- 12,000 jobs in 400 companies
- French National Space Agency major site

Design et fabrication de satellites: 10,000 m² of clean rooms
OneWeb FAL opened mid 2017 using Airbus Group manufacturing capabilities
Exploration of Mars, International Space Station, Rosetta mission...

WITH ONEWEB CONSTELLATION...
TOTAL COVERAGE
Internet to everyone, everywhere on Earth

A REVOLUTION IN SATELLITE MANUFACTURING
No one has ever built a satellite in one day... we will build several every day!
Toulouse - A large choice of partners and contractors

AERONAUTICS
- Airbus
- Rockwell Collins
- Thales
- Air France Industries
- Safran

SPACE
- Thales Alenia Space
- AIRBUS Defence & Space
- Telespazio

INTELLIGENT TRANSPORTATION
- Continental
- Siemens Mobility
- Hyperloop Transportation Technologies

HEALTH COSMETICS
- Pierre Fabre
- Sanofi
- EVA
- Lucas Meyer Cosmetics

DIGITAL
- Capgemini
- Ous
- Aon
- Altran Technologies
- CGI

University of Toulouse
Toulouse - A French Tech City

- 3,000 IT companies / 200+ startups & 78 newly founded since 2014
- 38,000 IT jobs / 1,298 startup jobs created since 2014
- 94 startups have raised 414M€ since 2014 / 11 have raised 185M€ in 2016
- 6 startups in Deloitte Technology Fast 500 2016 EMEA
- 20 public and private accelerators
- 163 R&D centers
- 20,000 highly qualified students

Internet of Things

Autonomous Sensing & Systems

Healthtech / Medtech

Creative Industries

Retail
University of Toulouse - A federation of institutions

University of Toulouse is a legal body gathering Higher Education and Research institutions
University of Toulouse - Key facts and numbers

- University of Toulouse, **founded in 1229**, is one of the oldest in Europe (almost 800 years old)
- **2nd largest** University in France
- **European University, LMD system (Bologna process)**
  - Bachelor (L), Master (M), PhD (D)
- **Large possibilities of majors:**
  - Law, Economy, Management - Humanity & Social Sciences – Arts, Literatures, Languages – Sciences & Technology, Sport - Health
University of Toulouse - A Federation of Institutions

23 Members: 4 Universities, 1 National Institute of HE and 18 Engineering and Specialized Schools, 1 Teaching Hospital, 7 National Research Bodies, settled in 11 towns
University of Toulouse - A federation of institutions

7 National Research Bodies:

- National Center for Scientific Research
- National Institute for Agricultural Research
- National Institute of Health and Medical Research
- Research Institute for Development
- The Aerospace Research Center
- Space Studies Research Center
- Center of Meteorology
• 18 institutions / 7 research bodies
• 144 Research labs
• More than 100,000 students (B 55% M 40% D 5%)
• 16,700 foreign students
• 32,500 degree awarded / year

• 15 doctoral schools
• 900 PhD thesis awarded each year
• 4,300 PhD candidates
• 6,000 researchers and faculty
• 6,500 staffs

• 1,500 frame agreements signed with 110 countries
• 1,000 permanent foreign researchers
• Fastly developing Master fully taught in English
University of Toulouse - PhD / Doctoral Schools

Science and Technology

- Biology, Health and Biotechnologies
- Ecology, Veterinary, Agronomy, Bioengineering
- Geosciences, Astronomy and Space Sciences
- Mathematics, Informatics, Telecoms
- Electrical, Electronics, Engineering Systems
- Physics, Chemistry and Materials Sciences
- Mechanics, Energetics, Civil and Process Engineering
- Aeronautics and Astronautics

Human and Social Sciences

- Behavior, Language, Education, Socialization and Cognition
- Arts, Literature, Languages, Philosophy and Communication
- Time, Spaces, Societies, Culture

Economics and Law

- Law and Political Sciences
- Management Sciences
- Toulouse School of Economics

University of Toulouse
University of Toulouse – granted excellence programs

Granted by the French program ‘Invest for Future’ (Highly selective calls for French Universities)

LabEx (Center of excellence)
- **TULIP** (Ecosystem resilience)
- **NEXT** (Nano measurements)
- **IAST** (Institute for Advanced Study in Toulouse in social sciences)
- **SMS** (Sociology ans social order)
- **TOUCAN** (cancer)
- **CIMI** (Mathematics and computer sciences)
- **IAM-TSE** (Economics and Business)

Graduate schools (International PhD tracks – Links between Master and PhD studies – more links with research)
- **MINT** (Math Interaction)
- **TULIP** (Ecosystem resilience)
- **TSAE** (Aeronautical engineering)
- **TESS** (Earth sciences)
- **CHESS** (Social sciences)
- **CARE** (Medicine and aging)
- **BIOECO** (Biomass and agro-resources)
- **NanoX** (Nano-Physics)
- **ANITI GS** (Artificial Intelligence)

Interdisciplinary Institute for Artificial Intelligence
- **ANITI**
ANITI
Artificial and Natural Intelligence Toulouse Institute

- Toulouse supported by the French government to become a leading place for research and innovation related to AI (after a selective call, best ranking with Paris)
- Integrative Institute receiving 80M€ per year to challenge the future of transport/mobility, robots, and economic/social issues related to AI
- Attracting scholars from abroad
- Educating the best students for research and entrepreneurship in AI
- Becoming a central node in the network of AI Institutes in Europe
Top 50 Shangai “Subjects”

Leading positions in Europe in central topics, as climate change, social sciences, mathematics:

- 5-WW (1-EU) Remote sensing
- 21-WW (4-EU) Oceanography
- 21-WW (1-EU) Economics
- 31-WW (5-EU) Earth Science
- 42-WW (10-EU) Mathematics
- 45-WW (10-EU) Atmospheric Science
Missions and Objectives focused on Internationalization

*Targeting **TOP 100-150 ranking** in 5 next years
*Active policy of exploring potential partners and of welcoming foreign delegations
*Strategic Partnerships with top leading universities worldwide
*Manages an office in charge of **European Affairs**
*Promotes and manages **student mobility** (fairs, tools for ingoing and outgoing)
*A policy of “**premium**” welcoming dedicated to foreign researchers and students
*Develops Masters **fully taught in English**, fosters **double-degrees**
*Promotes the **PhD studies at an international level** (cotutelle, co-supervision)
*Offers and manages **French language courses for foreigners**
Tools for ingoing and outgoing student mobility

• TOUL’BOX, the unique welcome kit in France

Created in 2014, this service helps the students to prepare their stay from their home until they have settled in: long-term accommodation booking, pick up at the airport or at the train station, bank account opening, Housing insurance, language courses, individual appointments with the Toul'Box team etc...

https://toulbox.univ-toulouse.fr/

• MOUV’BOX

Created in 2017, this service supports students who want to live an experience abroad: mobility opportunities, country profiles, practical information, administrative procedures, student and professional testimonials etc....

https://mouvbox.univ-toulouse.fr/
Thank you for your attention

www.univ-toulouse.fr