TELECOM PARISTECH

NUMBER 1 FRENCH ENGINEERING SCHOOL IN ICT

Founded in 1878

Why choose France ?

- **Excellence of the Higher Education system**
  - 20% of the national budget devoted to education
  - 3rd destination in the World for international students
- **French language**
  - Official language of more than 200 million people (5th in the world)
  - 3rd most important language for business in the world
    after English and Mandarin Chinese (Source: Bloomberg)
- **6th economic power power in the world**

  "What international students are saying"
  - 9 out of 10 international students recommend France as first study destination
  - 94 % believe that studying in France has been a self-enrichment
  - 86 % believe that studying in France have highlighted their university curriculum
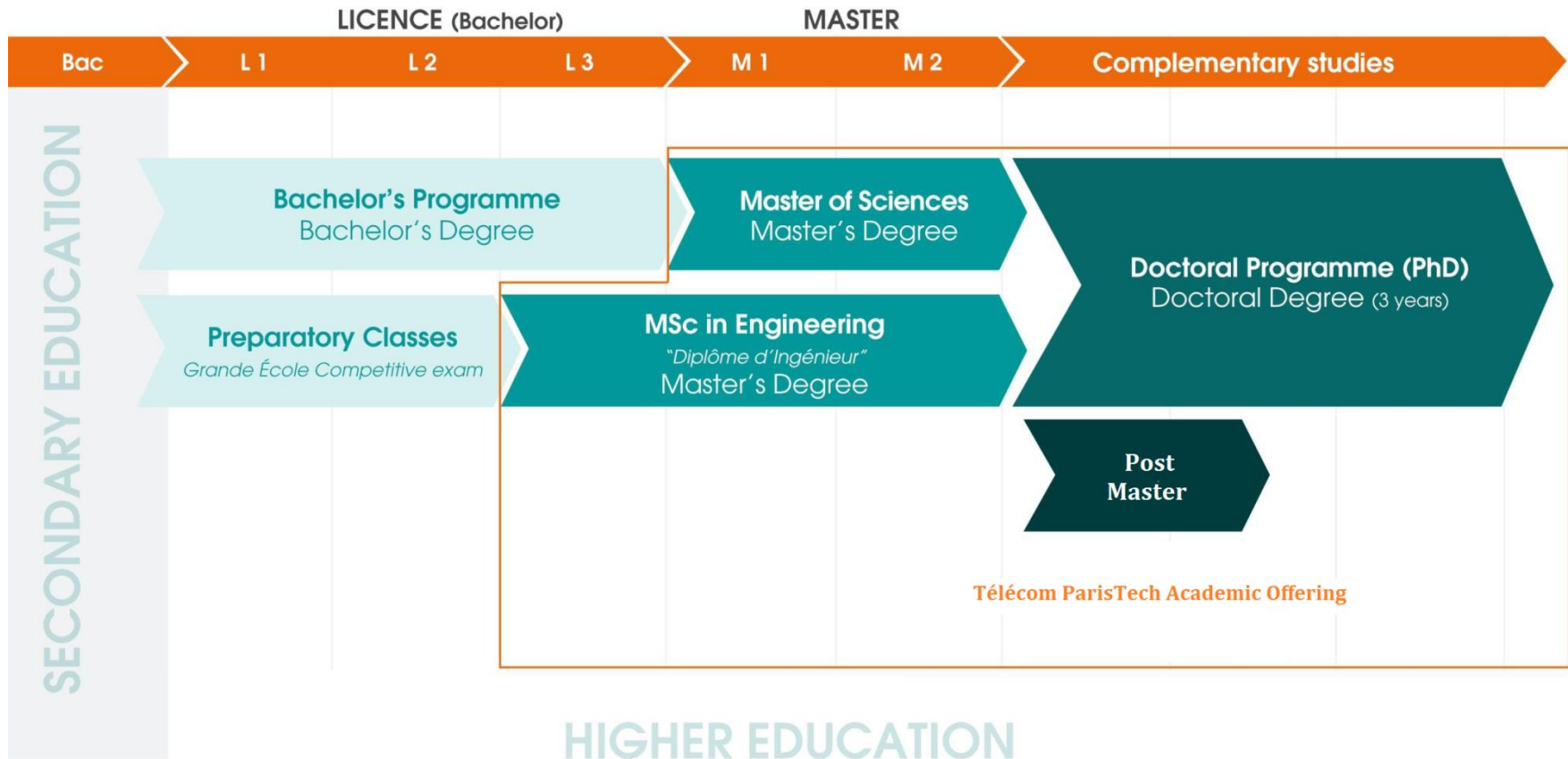
TELECOM
ParisTech

Why choose Paris?

Source: PREDA

- **816 000 companies**
  - 1/3 of the foreign companies in France
  - 1st European center for Fortune 500
  - 1st European center for professional meetings
  - 30% of France's Gross Domestic Product (GDP)

- **Paris named World's Best Student City (QS)**
  - 17 Universities, 40 Graduate Schools of Engineering
  - > 70 000 foreign students (20% of the students of the area)

- **40% of national investment in R&D (1st European region)**
  - 95 500 researchers (1st European region)

TELECOM ParisTech

STUDYING AT Télécom ParisTech

Institut Mines-Télécom

ParisTech

Higher education system in france

# The « grandes écoles » model

- **A unique model**
  - Highly selected candidates
    - *Acceptance rate of Preparatory Classes   = Top 5%*
    - *Acceptance rate of Telecom ParisTech   = Top 0,5%*
  - Excellent level in Mathematics, Physics and Computer Science
  - Multidisciplinary studies and development of professional skills
  - Open up to Economics, Management and Communication
  - A teaching faculty bringing together professors and experts from companies
  - A limited number of admitted students enabling a personalized curriculum (small groups, Student-Faculty ratio 5:1)
  - High-quality and innovative teaching methods
  - International study and exchange
- **Strong links with companies**
  - Compulsory internships throughout the curriculum
  - Multiple interactions between Schools laboratories and companies R&D centers
  - Active alumni networks

TELECOM
ParisTech

Key figures
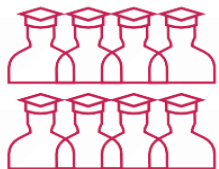
ACADEMIC

780 engineering students

270 PhD students

16 600 alumni

2 main campus:
-Paris
-Sophia Antipolis

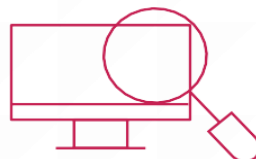1/7 faculty ratio (professor/students)

INTERNATIONAL

139 Partners in 41 countries

46 double-degrees

International students: 78% in Sophia Antipolis & 48% in Paris

40 different nationalities

26% of graduates have their 1st job abroad

RESEARCH

161 researchers

20 patents per year

18 business chairs & joint laboratories

600 international publications / year

50% of research funded by companies

ENTREPRENEURSHIP & INNOVATION

Number 1 French incubator for creating digital companies

Number 1 French engineering school for the creation of start-ups

1 FabLab

1 design studio

STUDENT LIFE

More than 500 beds

1 school restaurant 2 cafeterias

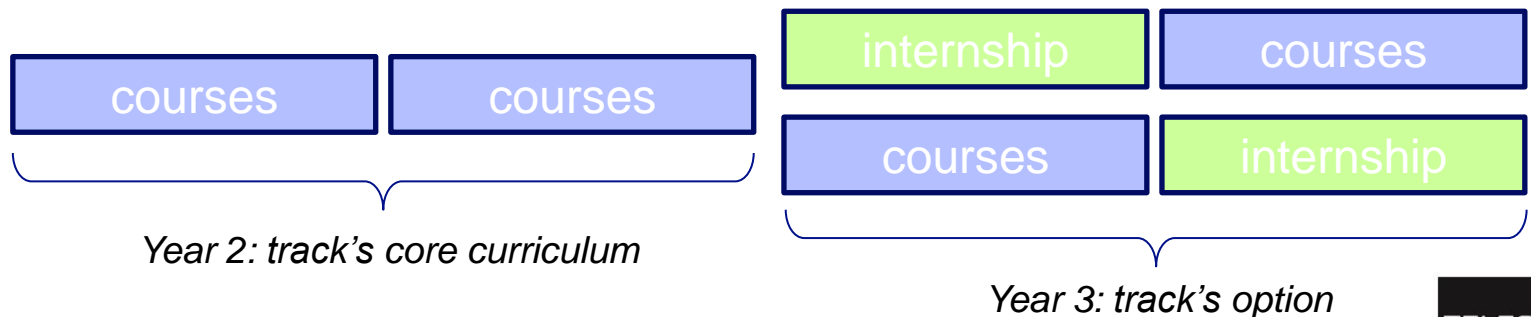50 clubs & associations

7/7 open library

TELECOM ParisTech

Years 2 & 3

- **3 semesters of courses**
  - \>120 scientific teaching units gathered into 14 learning tracks

  - A track is a 2-semester part-time plus a 1-semester full-time set of courses.
    - The validation of one track is required.
    - The internship is associated with the track to be validated.

  - more than 100 non-scientific courses
    - Languages
    - Social sciences
    - Culture

- **1 semester of internship (professional thesis)**
  - Most often in a company
  - Sometimes in an academic research lab.

courses	courses

Year 2: track's core curriculum

internship	courses
courses	internship

Year 3: track's option

TELECOM
ParisTech

Study tracks

- **Time Slot A:**
  - **Image** (IMA)
  - **Stochastic processes and scientific computing** (MACS) 🇬🇧
  - **Distributed Software Systems** (SLR)
  - **Communication devices and systems** (SOCOM) *(50% of courses in 🇬🇧)*
  - **Infrastructures and Networks Security** (SR2I)
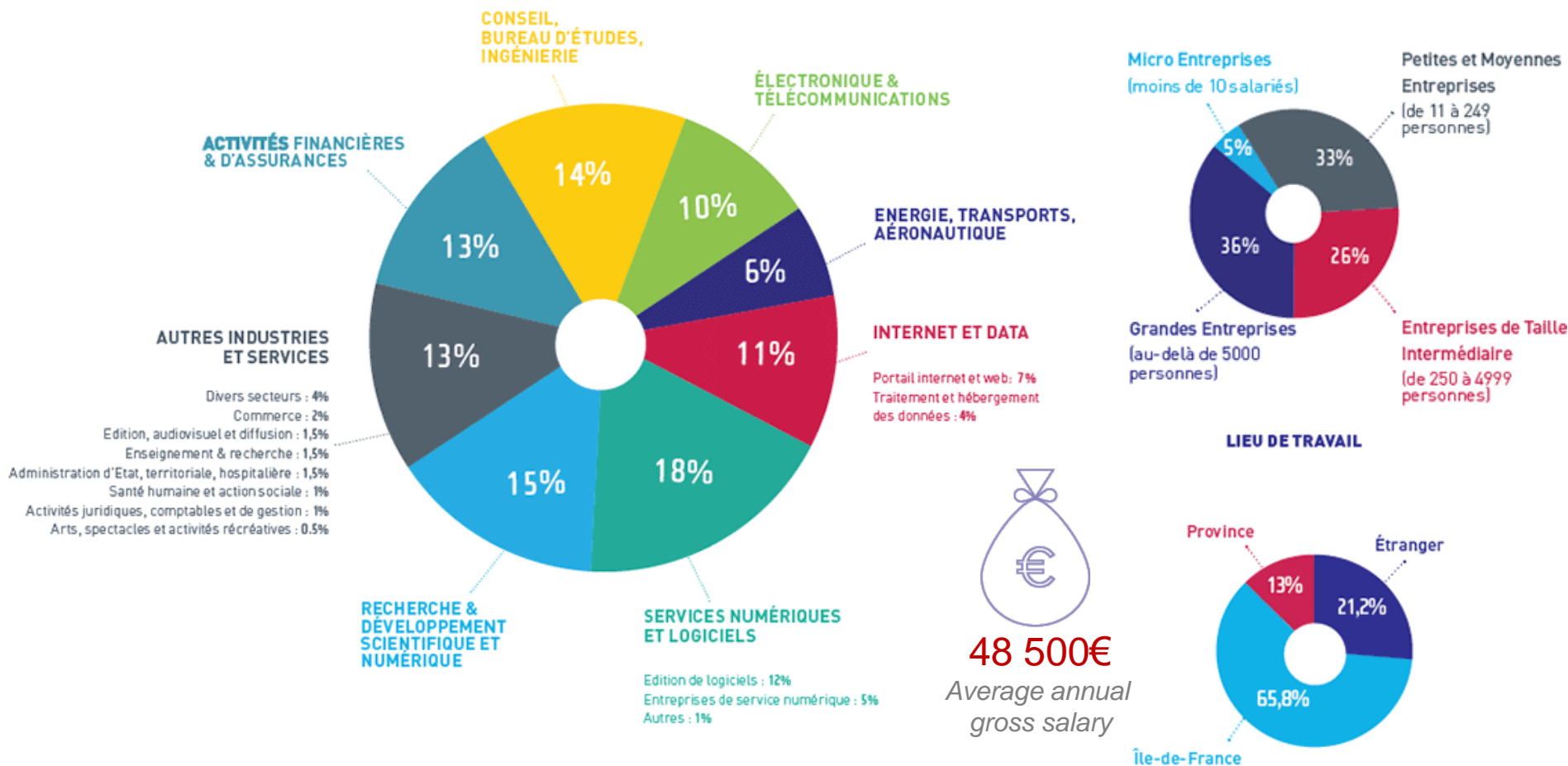- **Time Slot B:**
  - **3D & Interactive Systems** (IGR)
  - **Mathematics, Theoretical Computer Science and Operation Research** (MITRO)
  - **Networking** (RES)
  - **Strategies, Innovation, Markets** (SIM) 🇬🇧
- **Time Slot C:**
  - **Algebra, Codes, Crypto, Quantum** (ACCQ) 🇬🇧
  - **Data Science** (SD) 🇬🇧
  - **Embedded Systems** (SE) - *(30% of courses in 🇬🇧)*
  - **Signal Processing for Artificial Intelligence** (TSIA) 🇬🇧
  - **Wireless networks and IoT** (RIO)

CONSEIL, BUREAU D'ÉTUDES, INGÉNIERIE — 14%

ÉLECTRONIQUE & TÉLÉCOMMUNICATIONS — 10%

ACTIVITÉS FINANCIÈRES & D'ASSURANCES — 13%

ENERGIE, TRANSPORTS, AÉRONAUTIQUE — 6%

INTERNET ET DATA — 11%
Portail internet et web: 7%
Traitement et hébergement des données : 4%

AUTRES INDUSTRIES ET SERVICES — 13%
Divers secteurs : 4%
Commerce : 2%
Edition, audiovisuel et diffusion : 1,5%
Enseignement & recherche : 1,5%
Administration d'Etat, territoriale, hospitalière : 1,5%
Santé humaine et action sociale : 1%
Activités juridiques, comptables et de gestion : 1%
Arts, spectacles et activités récréatives : 0.5%

RECHERCHE & DÉVELOPPEMENT SCIENTIFIQUE ET NUMÉRIQUE — 15%

SERVICES NUMÉRIQUES ET LOGICIELS — 18%
Edition de logiciels : 12%
Entreprises de service numérique : 5%
Autres : 1%

TAILLE DE L'ENTREPRISE

Micro Entreprises (moins de 10 salariés) — 5%

Petites et Moyennes Entreprises (de 11 à 249 personnes) — 33%

Grandes Entreprises (au-delà de 5000 personnes) — 36%

Entreprises de Taille Intermédiaire (de 250 à 4999 personnes) — 26%

48 500€
Average annual gross salary

LIEU DE TRAVAIL

Province — 13%

Étranger — 21,2%

Île-de-France — 65,8%

95% of graduates have signed their contract within 4 months.

TELECOM ParisTech

RESEARCH & INNOVATION

RESEARCH AT THE HEART OF OUR STRATEGY

- **A multidisciplinary approach in science and technology**

- **International Research teams**

- **Strong interactions with socio-economic world**

- **Permanent connections with public research organizations: CNRS, INRA, INRIA, INSERM, CEA, ONERA…**
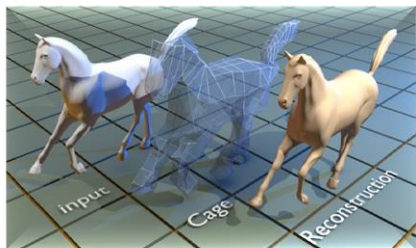
AWARDED PROFESSORS

YANLEI DIAO
Winner of a ERC Consolidator Grant for her work on the processing of massive data flows and his new Big Fast Data project.

MICHÈLE WIGGER
Winner of a ERC Starting Grant for her work, world-renowned in Information Theory.

TAMY BOUBEKEUR
Winner of 10 Best Paper Awards.

THOMAS BONALD
Winner of a Blondel medal of the Society of Electricity, Electronics and of ICTs.

TELECOM
ParisTech

Doctoral programme

- **3 years**
  - cross-disciplinary scientific courses, professional training…

- **4 specializations**
  - Electronics and Communications
  - Computing and Networks
  - Signal and Image Processing
  - Information System Economics

- **70 theses awarded each year**

- **Strong links with industry**

- **Doctorate School :**
  - Information and Communication Science & Technology
 - Humanities
  - Mathematics
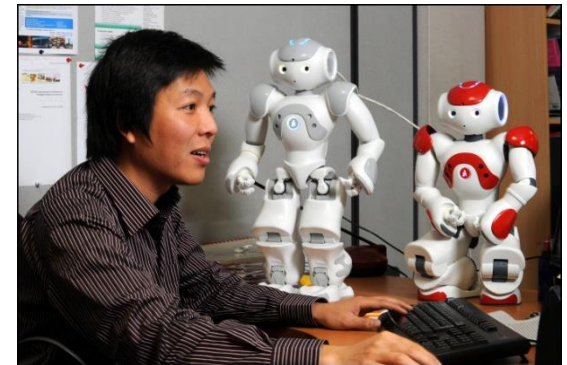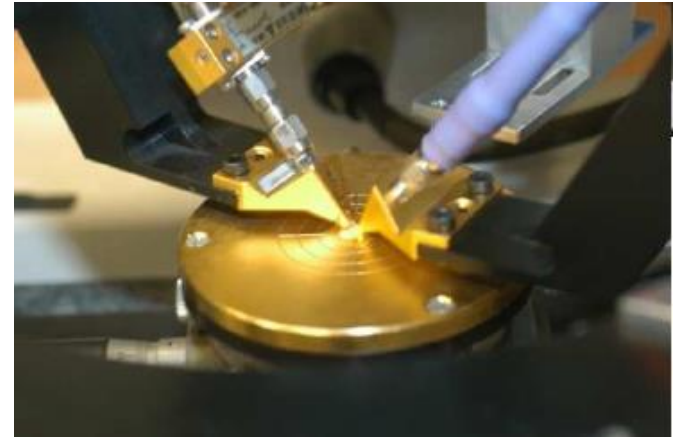
TELECOM
ParisTech

STATE-OF-THE-ART EQUIPMENTS

Télécom Paristech invests in state-of-the-art equipments for excellence in scientific research and innovation.

- Anechoic chamber Spectrum analyzer Studio design FabLab

- Entangled photon pair sources for quantum communications

- Quantum key distribution system

- Characterization platform for new semiconductor laser solutions
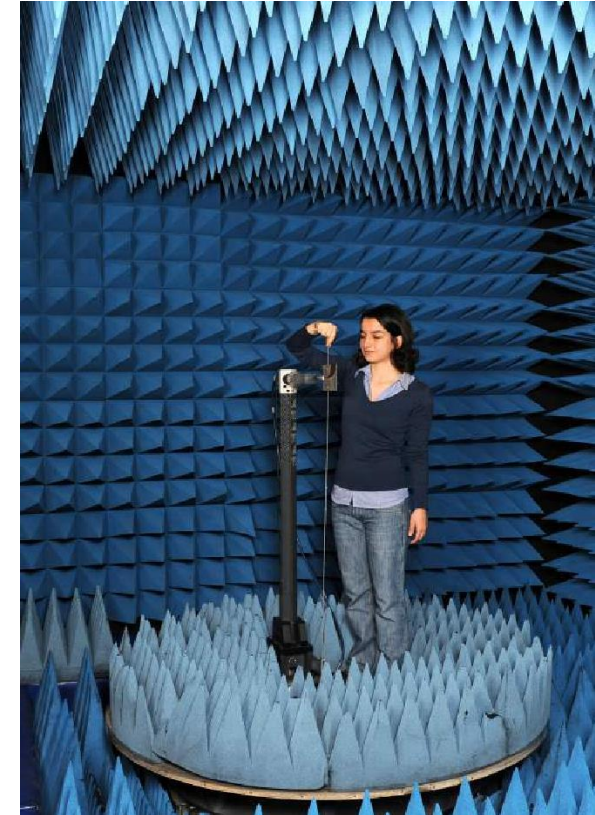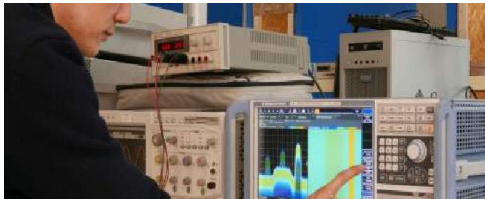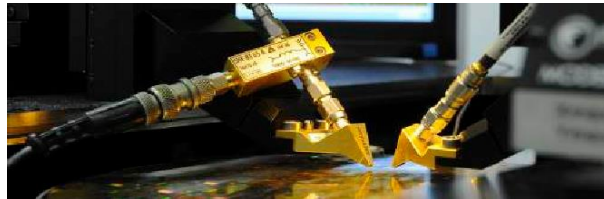
Our strong partnerships with industry

- **Governance**
  - Representatives from industry in boards, working groups, etc.

- **Teaching**
  - > 500 part-time lecturers from companies
 - Internships and study projects in companies

- **Research**
  - 18 Teaching and research chairs or Joint Lab
  - Member of Competitive Clusters
  - Joint projects

- **Entrepreneurship**

INNOVATION & ENTREPREUNEURSHIP

ParisTech Incubator

- Created in 1999 by Télécom ParisTech

- Puts together 10 ParisTech schools' expertise

- Related domains: digital, data processing, artificial intelligence, cybersecurity…

- 35 entrepreneurs supported each year

- 400 projects supported since the creation of ParisTech Entrepreneurs

- 86% of start-ups still exist 5 years after their creation

- 2800 jobs created

- Successful stories: Netvibes (2005) / Hellocoton (2008)
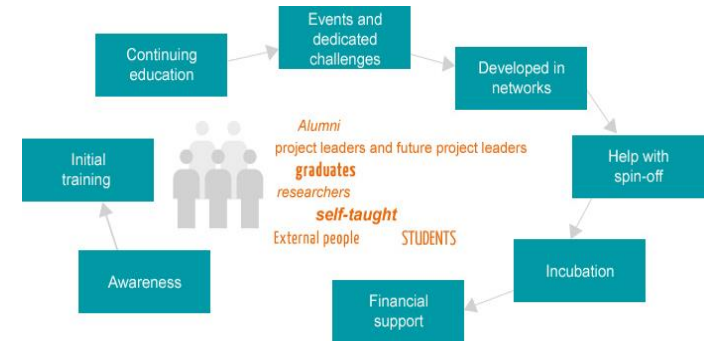
THE STRENGTH OF A NETWORK

Some famous alumni

- **Patrick Drahi, president of Altice (Numericable, SFR, HOT…)**
- **Jean Bernard Lévy, chairman and CEO of Electricité de France (EDF)**
- **Michel Combes, CEO of Alcatel Lucent**
- **Eric Labaye, director of Mc Kinsey Europe**
- **Jean Beunardeau, director of HSBC Europe**

In the past:

- **Alain Glavieux, co-inventor of turbo-codes**
- **Maurice Lauré, creator of the Value Added Tax**

TELECOM
ParisTech

Some famous alumni

- **Abdeslam Ahizoune, Minister of Telecomunications (1992-1995 & 1997-1998), Chairman of Maroc Telecom**
- **Mongi Marzoug, Minister of ICT (2011-2014), Tunisia**
- **Yang-hee Choi, Minister of Science, ICT, and Future Planning, South Korea**
- **Bedoumra Kordjé, Minister of Finances of Tchad**

TELECOM
ParisTech

Some alumni success in ICT innovation

- • They succeeded in the US:
- ■ **Jean-Luc Vaillant & Yan Pujante (co-founders of LinkedIn)**
- ■ **Vincent Dureau & Barbara Coppola (in charge of Google TV)**
- ■ **Henri Moissinac (former head of Facebook Mobile)**
- ■ **Luc Julia (owner of Apple SIRI patents)**
- ■ **Fred Potter (Founder of NetAtmo, awarded at CES Las Vegas)**

- • They Succeeded in France :
- ■ **Tariq Krim (creator of Netvibes, sold 50 M€ to Dassault Systemes)**
- ■ **JC Dufourd (cofounder of Streamezzo, sold to Vodafone for its portal Vodafone Live)**
- ■ **Diaa Elyaacoubi (founder of Streamcore)**
- ■ **Corentin Raux (founder of « Pretty Simple » and creator of the game « Criminal Case » on Facebook, n°1 worldwide for games on FB in 2013)**

TELECOM
ParisTech

INTERNATIONAL

INTERNATIONAL STUDENTS SERVICES

- **Accommodations on campus**
  - Affordable rents: From 300 to 450€ /month
  - Possibility of accommodation allowance

- **Average living costs in Paris: ~ 800 € /month**
  - Public transportation card : 35€ /month
  - Health care : 90€ /year
  - A meal at school cafeteria : ~3€

- **Assistance with visa and residence permit procedures**

- **Tuition fees for partner universities : 2650€ /year (1st year is waived)**

- **Intensive Language Training Programs**

- **Mentoring by senior students & Alumni**

- **Active participation in student activities**

- **Wifi everywhere**

TELECOM
ParisTech

SCHOLARSHIPS

Telecom ParisTech supports French and international student mobility through :

- **The French government's Eiffel Scholarship**
  - ~1200€/month (24 months) + Flights + Health care
  - Only candidates in the top 3% are allowed to apply
  - International Office is in charge of your application

- **Scholarships provided by the foundation of Telecom**
  - ~10 000€ for 2 years
  - You must contact International Office

- **Scholarships provided by Alumni Association**
  - Variable amount
  - You must contact International Office

More information ?

- **web sites**
  - www.telecom-paristech.fr/
  - international.telecom-paristech.fr/
  - FACEBOOK, twitter, youtube

- **Contact us**
  - international@telecom-paristech.fr

MAKE I.T
@
TELECOM PARISTECH

source Grafton architects