



CentraleSupélec

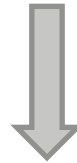
**How assessments and rankings
Impact Higher Education and
Research Institutions actual
performances:
Case study with CentraleSupélec**

Hervé BIAUSSER, President

September 2016



- **World population will rise from 7MM to 11MM (esp. Africa)**
- **Unprecedented challenges for Energy, Climate, Ressources (Water and Air) & Urbanisation**
- **Challenges for Peace & Security**



HE is considered as a key answer

HIGHER EDUCATION REVOLUTION



- **Globalisation**
 - More than 40000 inter-connected Higher Education Institutions in the world
 - A Worldwide offer
- **Massification**
 - 100M students in 2000, 200M in 2015, 265M in 2025
 - 4.1M students abroad in 2015, maybe 7M in 2020
- **Digitalisation**
 - Massive instantaneous information
 - Instantaneous comparison and competition
 - New way of teaching/learning

ABONDANT AND PUZZLING OFFER



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- **Competition for students**
 - « BtoC », Exchange, joint/Dual/Double Degrees
 - Research, Companies
 - US, UK, Europe, Asia...
- **Competition for faculties**
 - International career
 - Research collaborations
 - Work conditions & Salaries
- **Competition for partner HEI and companies**
 - Best partnerships
 - Best collaborations





- **INTERNATIONALIZATION STRATEGIES**
- **RE-ORGANISATION & CLUSTERIZATION**
- **ASSESSMENTS & RANKINGS**



A STUDY CASE

CENTRALESUPELEC

(IN SHORT)





- **PIONNEERING (1980-2003)**
 - Double Degree Concept and T.I.M.E. Network
 - Group of Ecoles Centrales
- **INTERNATIONALIZING (2003-2013)**
 - Co-operated International Campuses (China, India, Morocco)
 - International Research Units
 - European Programs
- **GLOBALIZING (2013- ...)**
 - CentraleSupélec & New Curriculum
 - Université Paris-Saclay
 - Worldwide Global Campus approach

3 INTERNATIONAL CAMPUSES



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- **Ecole Centrale Pékin (2005)**

120 Students/Year x 6 Year program



- **Mahindra Ecole Centrale (2014)**

240 Students/Year x 5 year program



- **Ecole Centrale Casablanca (2015)**

100 Students/Year x 3 Year program



- **Project of Ecole Centrale in Brazil...**



- Born officially on **December 30, 2014** by a French government decree as the merge of formerly existing **Ecole Centrale Paris (1829)** and **Supélec (1893)**.



- Incarnates of the tradition of the **Excellence of the «French Engineer»**, with a **highly selective and competitive** entrance exam.
- Educates **high-level engineers-managers** with strong sciences base and multidisciplinary approach into **top managers, company founders and experts** for France, Europe and beyond



Top first in France with Polytechnique



164 in the top200 WW

•4th French

•7 for Employer reputation

**1st in France by Subject: Electrical &
Electronic Engineering**

**2nd in France by Subject: Mechanical,
Aeronautical & Manufacturing**

**2nd in France by Faculty: Engineering
and Technology**

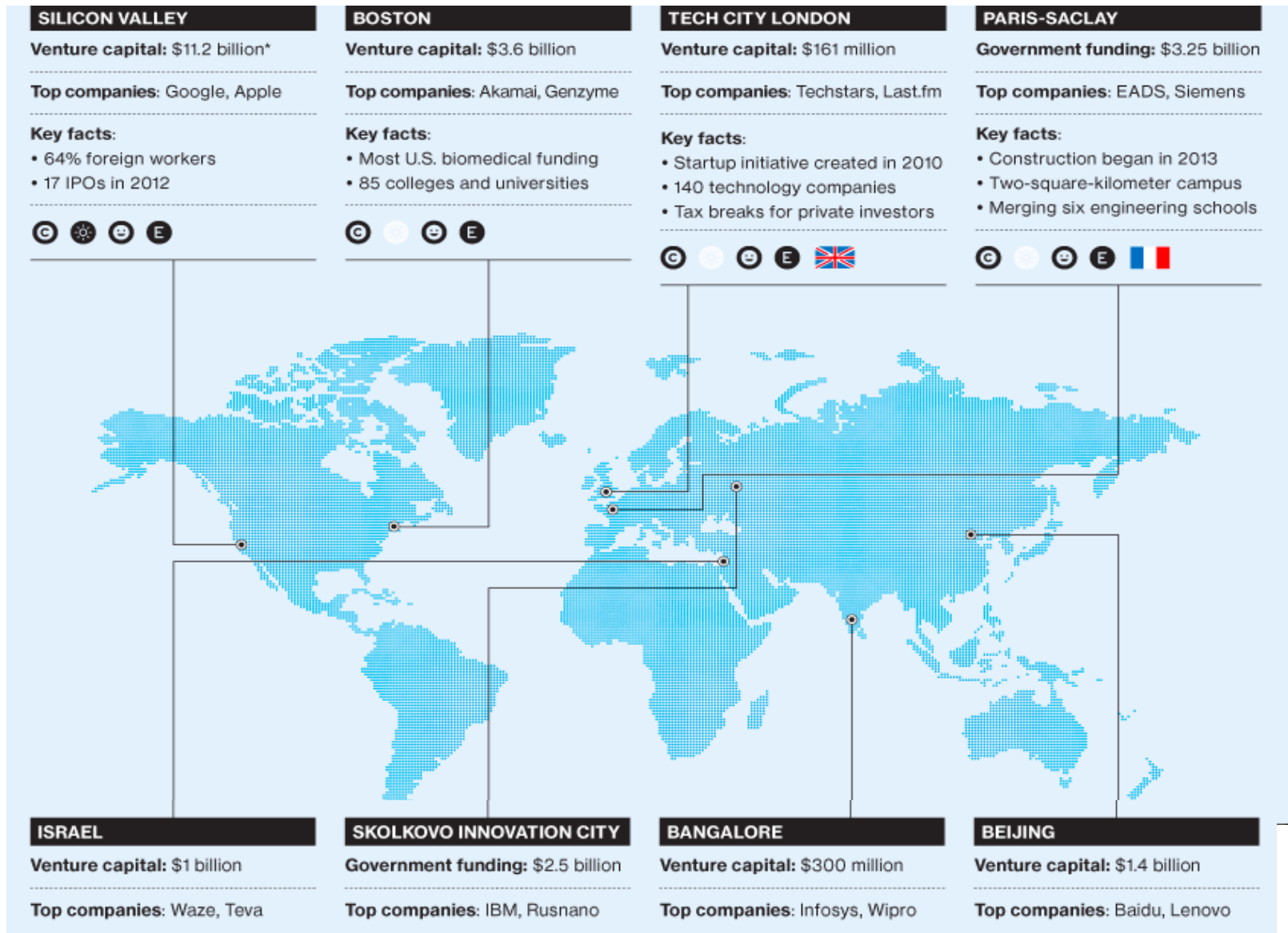
- 18 institutions
- 65 000 students
- 10 000 Masters and 5700 PhD (40% international)
- 10 500 researchers
- 120 ERC grants, 6 Fields medals and 2 Nobel prizes
- 8 000 publications per year
- **Represents 15 % of the French public research**
- 20 Doctoral Schools
- Innovation & Entrepreneurial Hub



MIT TECH REVIEW: PARIS-SACLAY ECOSYSTEM



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ASSESSMENTS & RANKINGS





- a Quality Assurance and a Continuous Improvement Commitment
- a Tool for Self-Development (Right Questions, Right Strategy, Right Resources)
- a Must-have for Students & Faculty Recruitment
- a Must-have for Resources and Fundings
- a Peer Review/Acknowledgment
- a Key for Legitimacy and Assertivity

Structural Bodies

- **HCERES** (High council for R and HE Assessment)
- **CTI** (Engineer Title Committee)
- **ENQA** (European Association for QA in HE)
- International mutual-recognition Agreements



- Could be too bureaucratic
- Sometimes too heavy processes
- Needs resources to manage properly
- Could be disconnected from the Students/Faculties actual needs and from IT revolution
- Could limit Innovation, Creativity & Experimentation



- A Scale for Global Comparison & Competition
- An Orientation Tool for Students/Faculties/Institutions
- A Tool for Engaging Public Bodies in Modernization & Internationalization of HE
- A tool for non-expert
- More and more a Must-be-In for Resources and Fundings

But:

- KPI not always pertinent & sometimes defined « ad-hoc »
- Rankings = too simplified view of a very complex panorama
- Favorize big US/UK Research Oriented Universities
- Favorize individualism and a « star-system »
- Disadvantage small and specialized HEI
- Tend to standardize HE globally



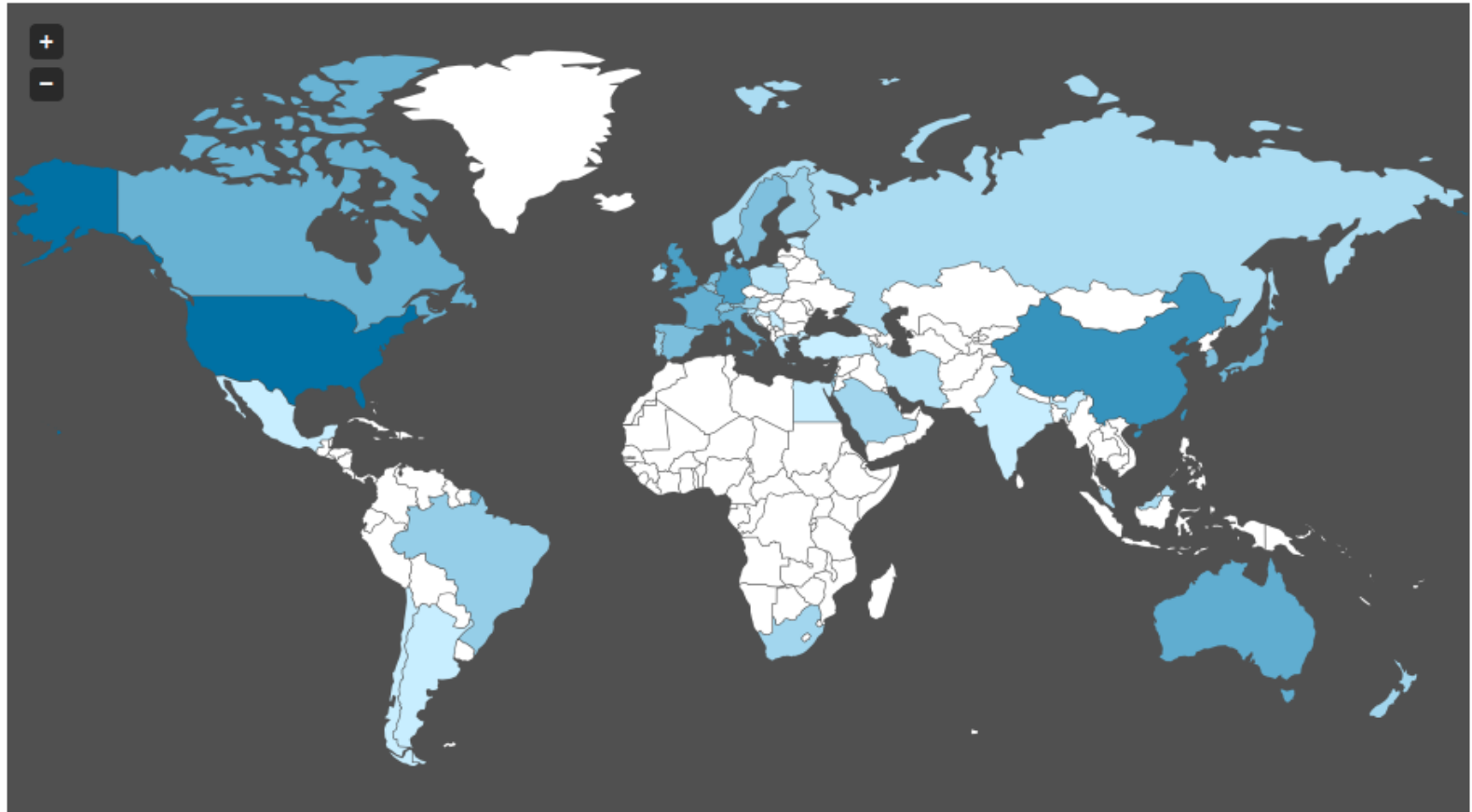
Very criticized/criticable but still better to be IN than OUT

Then be careful:

- Not to put Rankings at the top of Strategy
- Not to use Rankings as a main decisionary/driving force
- Not to think that Rankings are a scale of Excellence
- Not to give more meanings to Rankings that they really have
- To cross-check International & National Rankings (more meaning full)
- To remember that Collective and Team Work is not favorized in Rankings



Is it really a scaling map of Excellence in the World ?



ARWU map of HEI in the TOP500 (by number per country)



THANK YOU FOR ATTENTION