

Commission des Titres d'Ingénieur

C.T.I.

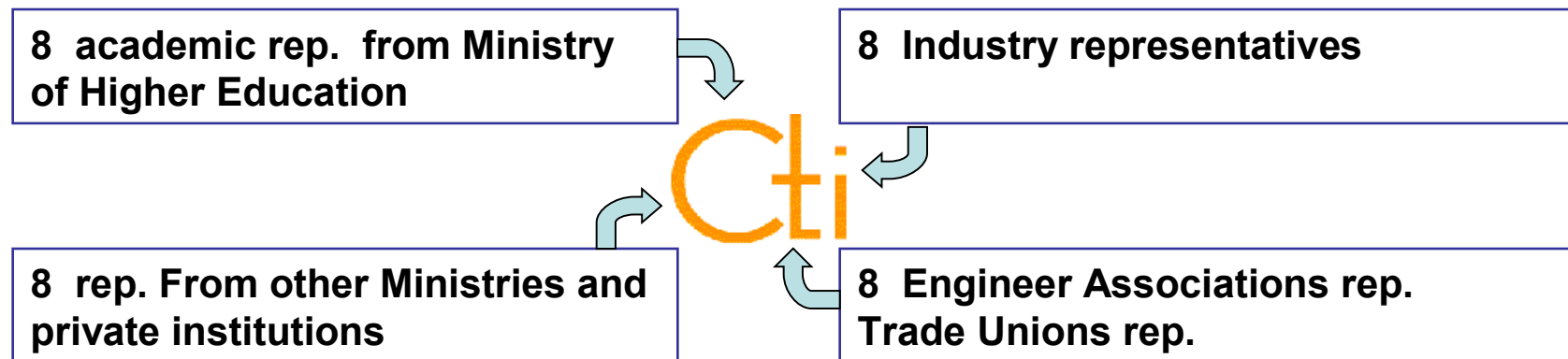
French Engineering Degree Accreditation Board

Statutory body formed by law of 1934-07-10

- accredit new engineering degrees
- assess periodically existing degrees (every 6 years)
- assess foreign engineering degrees when ever requested by foreign institutions
- issue list of engineering degrees accredited
- participate in any perspective study related to engineering programmes
- foster the dissemination of developments and best practices

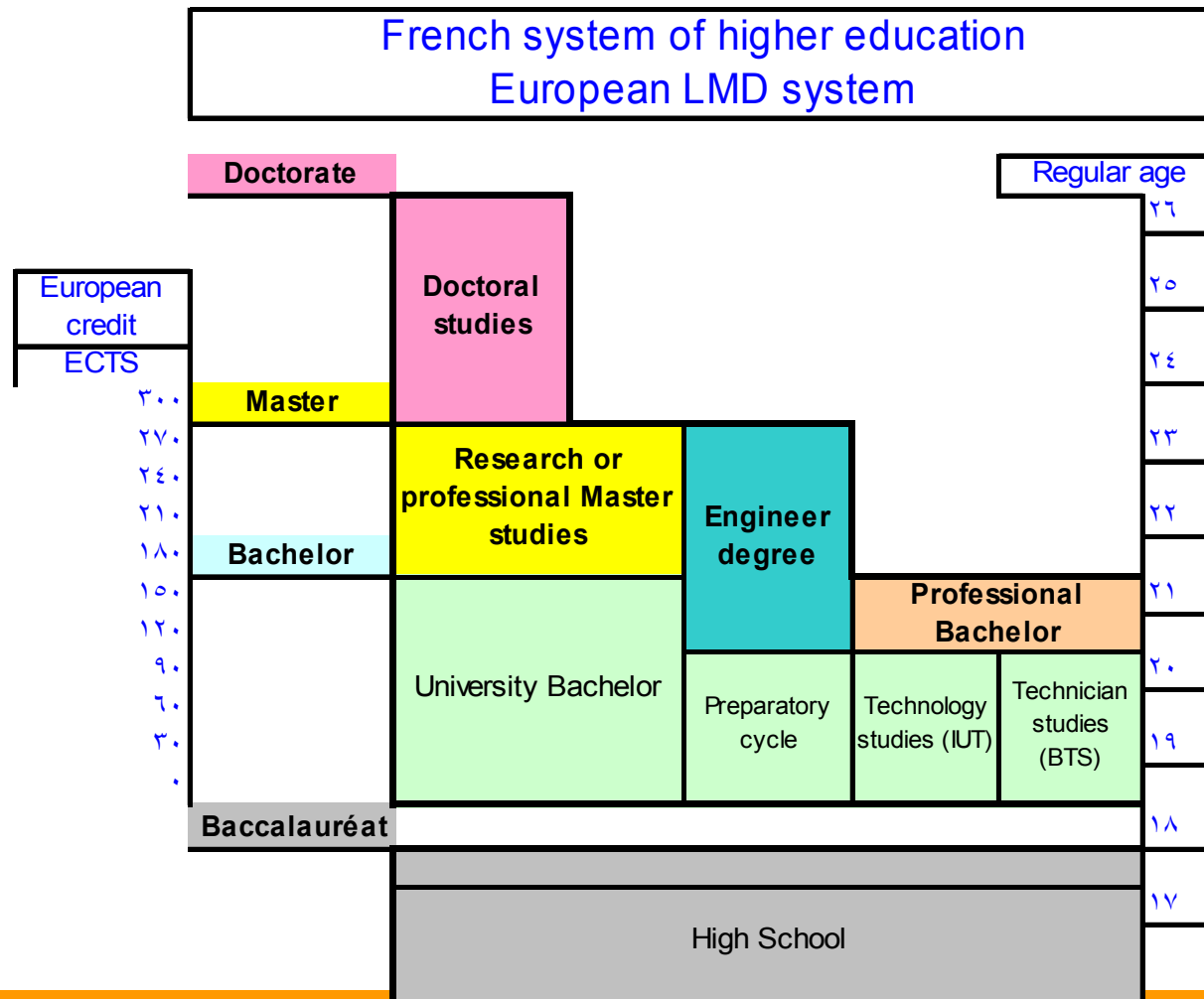
CTI line up

- ❑ Parity between academic and industrial representatives
- ❑ Independant panel comprising 32 members divided into 4 colleges

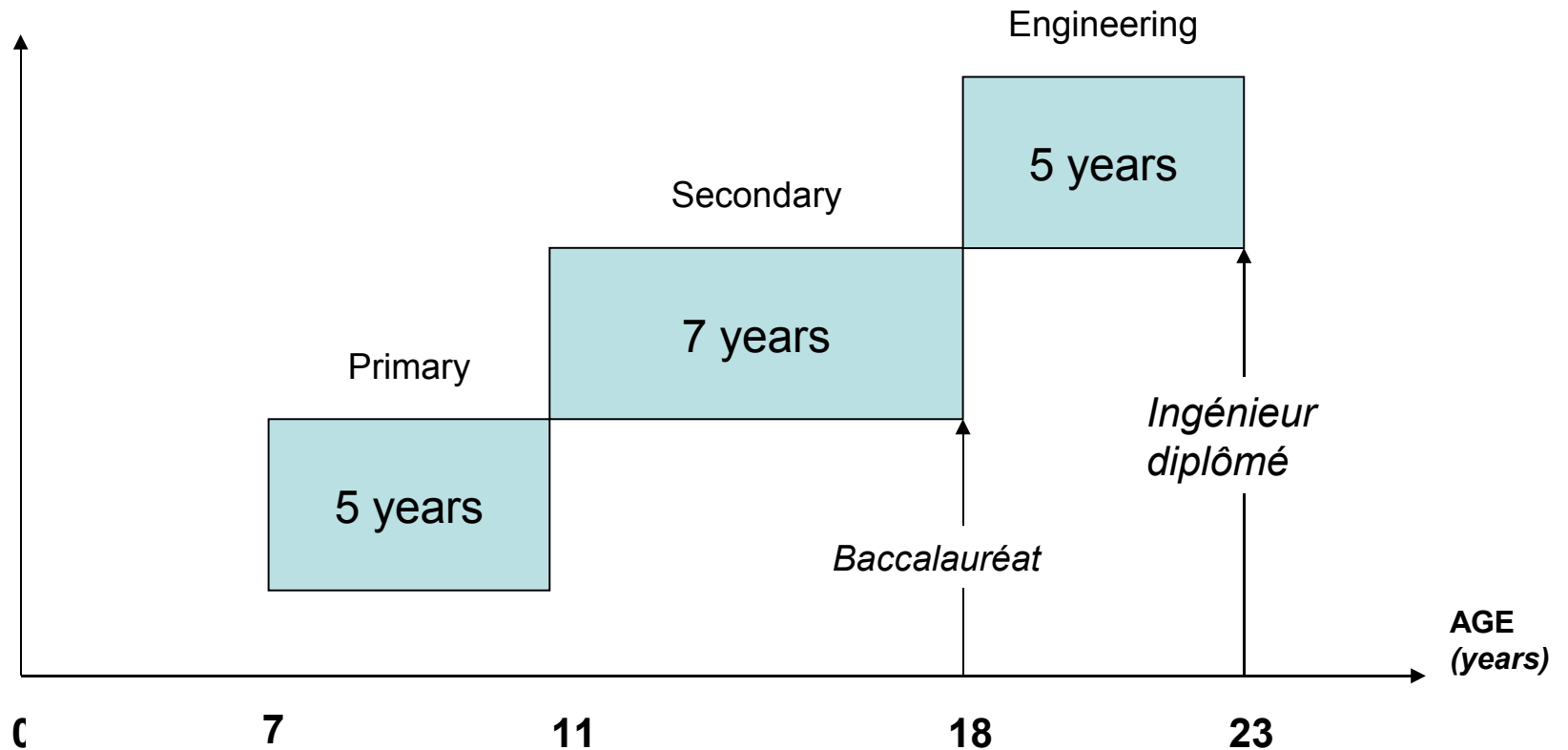


CTI functioning

- members appointed for 4 years (once renewable)
- chairman elected for 2 years
- members on a voluntarily basis
- registry and secretary office of the Board managed by Higher Education Ministry



French engineering education system



Engineering degree in France

- one cycle of 5 years of education
- degree after 300 ECTS credits
- "Ingénieur diplômé" stands for Master degree
- no board of engineers in France
- entry on engineering profession directly after engineering degree

CTI decision making

☐ Public institutions

- CTI acts on behalf of Higher Education Minister
- CTI acts as adviser of Higher Education Minister and other ministers
- Minister's decision based on CTI recommendations

☐ Private institutions

- CTI acts on behalf of Higher Education Minister
- CTI settles decision after hearing the institution board

Main engineering Education in France (1)

❑ Classical education

- Competitive entry examination
- 3 to 5 years depending on recrutement level
- 800 education hours/year
- 20 to 36 weeks internship periods

Main engineering Education in France (2)

☐ Apprenticeship

- level of recruitment : 2 years after « baccalauréat »
- 3 years : half time education (1800 hours)
half time company

☐ Continuing Education

- level of recruitment : 2 years after « baccalauréat »
- 3 years of industrial experience
- 2 years : half time education (1200 hours)
half time company

Present status

❑ 227 engineering institutions - 728 programmes

30 000 degrees in 2004

- 50% Higher Education Ministry
- 25% other ministers
- 25% private

❑ 65 apprenticeship and continuing education engineering programmes

1 300 degrees in 2004

Accreditation criteria (new curriculum)

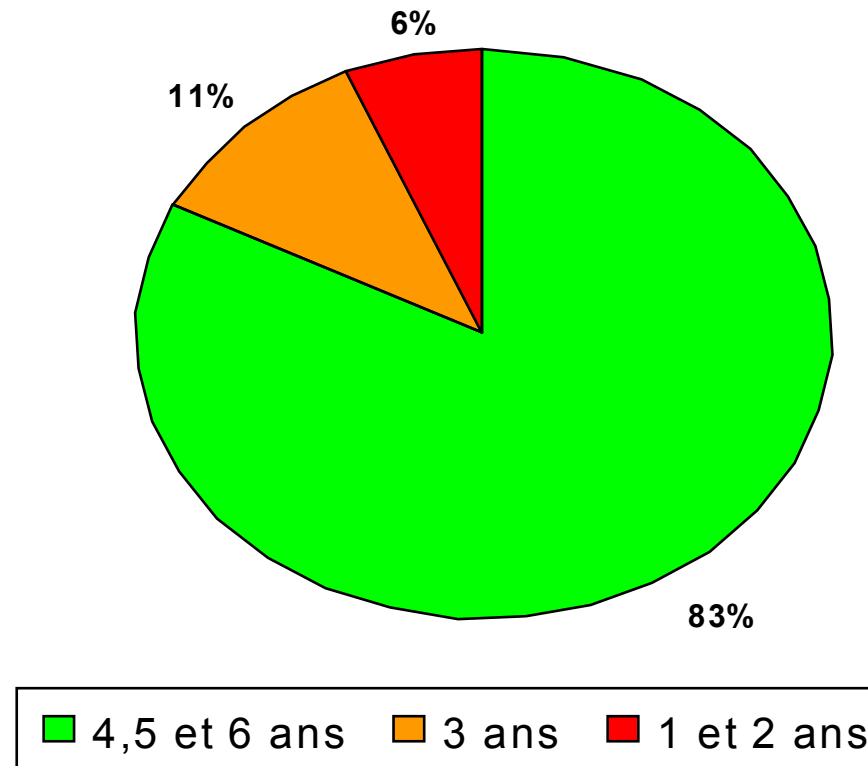
- objectives of the new curriculum
- recruitment procedure
- pedagogic and personal outcomes : balance between scientific, technical, economic and human resources programmes
- research activities
- faculty mix (academic - industrial)
- educationnal self education
- premises, equipments, library...
- quality management system
- costs

Periodical accreditation (every 6 years)

Purpose :

- make known the trend of CTI's policy « References & Orientations »
- make sure that educational programmes are still in line with industrial environment
- give advise to institution management for curricula improvement and updating
- encourage companies involvement in training programmes
- reinforce synergies between engineering institutions

accreditation lengths (2004)



International activities (1)

CTI encourages international partnership in :

- requesting high level of english language
- recommending exchange of students and faculties (mobility)
- encouraging dual degrees - joint degrees and international research partnerships
- encouraging second foreign language

International activities (2)

- overseeing development and operation of accreditation
- developing mutual recognition agreement with other countries :
ABET - CCI (Canada) - BEM (Malaysia)...
- assessing foreign engineering degrees on request : UTK (Germany), EPFL & EPFZ (Switzerland), ITS (Luxemburg), UTS (Bulgaria), PFIEV (Vietnam)...
- taking part in european rationalisation of higher education systems : ECA, ENQA, EU-RACE, ENQHEEI, ESOEPE, FEANI...

European Higher Education Area Bologna Process

<input type="checkbox"/> Sorbonne	1998-05-25	4 countries
<input type="checkbox"/> Bologna	1999-06-19	29 countries
<input type="checkbox"/> Prague	2001-05-19	29 countries
<input type="checkbox"/> Berlin	2003-09-19	33 countries
<input type="checkbox"/> Bergen	2005-05-19	more : ?

European Higher Education Area Bologna Process - Steps

❑ 2005

- two study cycles
- ECTS & six-month periods
- additional degree information

❑ 2010

- outputs
- Quality assurance development
- mobility
- Lifelong learning

Thank you