

20-01-2017, Madrid | 1/17

# Graduate School: the Delft way

Why?

- Human Resource Policy: Freedom to Excel
- Be an international player
- Strive for quality,
  also in supervising & educating PhD's
- Provide the best possible starting point for the next step





# **About TU Delft**

Oldest and largest University of Technology in the Netherlands with 8 faculties

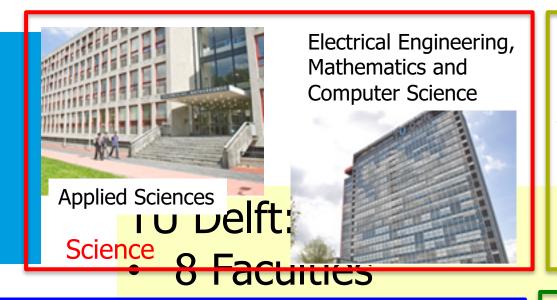
# 22.500 BSc+MSc students 2.650 PhD students

# **International University:**

- 1/3 MSc-students foreign
- well over 100 nationalities
- 2/3 PhD students foreign
- international staff
   (especially the
   younger generation)









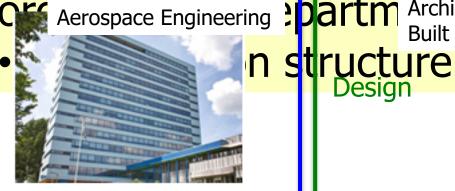
Architecture and the

**Built Environment** 



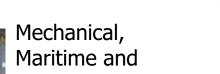
Construction



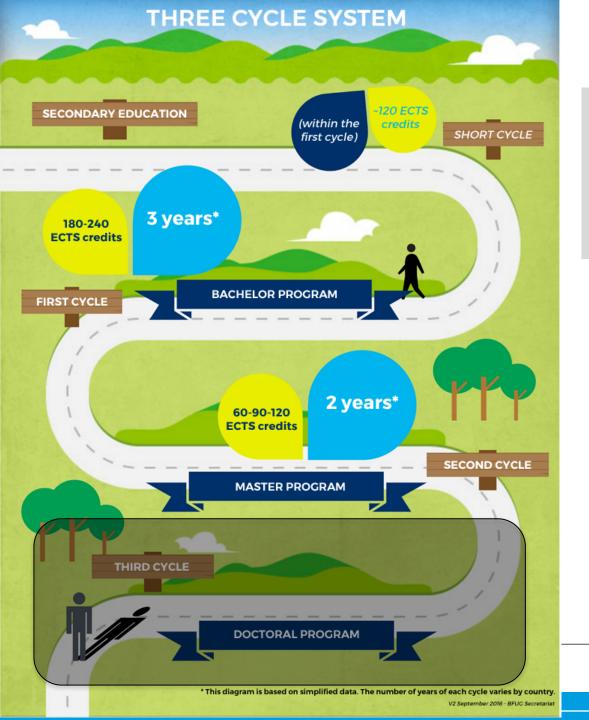


Maritime and Materials Engineering









Bologna Declaration (1999)

&

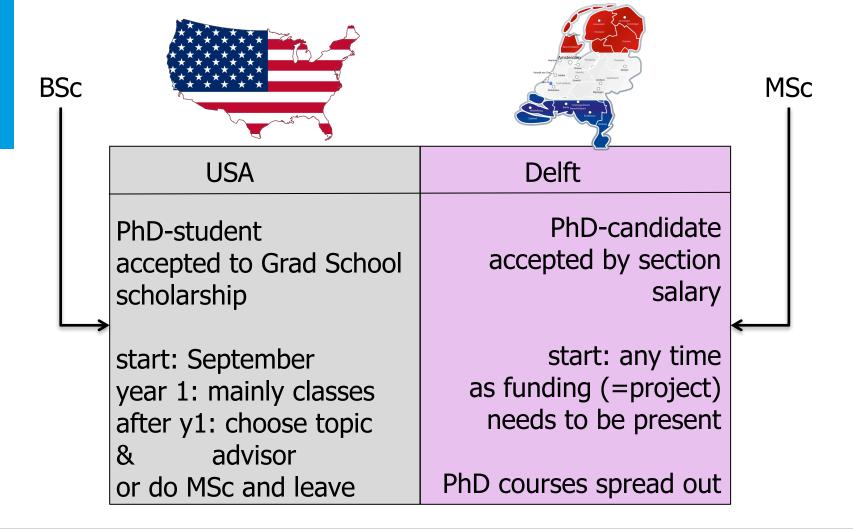
Berlin Conf. (2003)

Higher Edu = 3 cycles

NL-flavor:

$$MSc = 2 \text{ years} = 120 EC$$

#### **Graduate School**





#### 2011: start TUDelft Grad School

# motivation & goals:

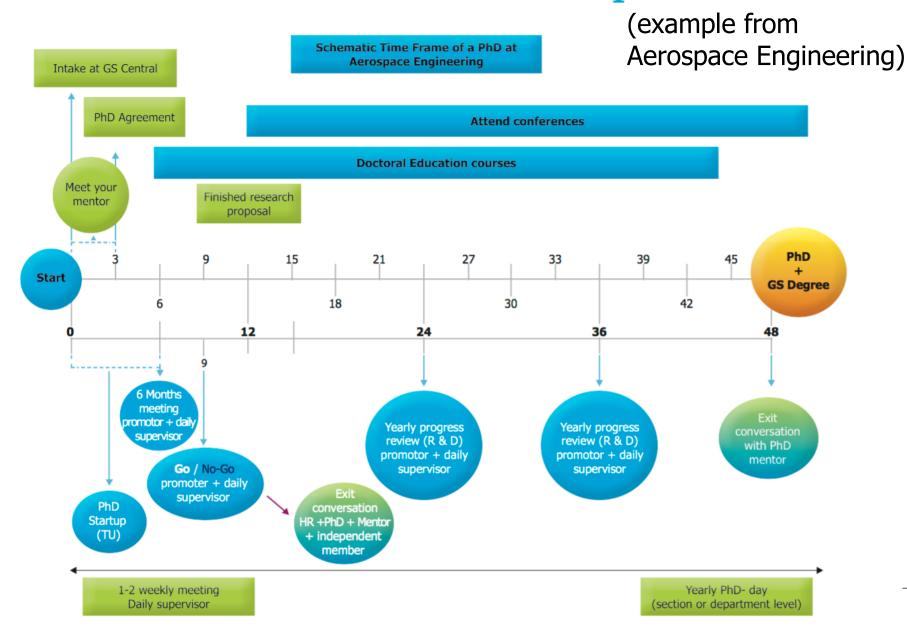
- 1. be internationally recognizable
- 2. streamline & improve supervision
- 3. implement 1st year go/nogo
- 4. improve hiring process
- 5. offer & require Doctoral Education
- 6. encourage international experience & publication
- 7. shorten duration to 4 4½ years
- 8. provide mentor



# intro-movie ('slightly' over the top ...)



# Schematic Time Frame of PhD process



#### Bits & Pieces ....



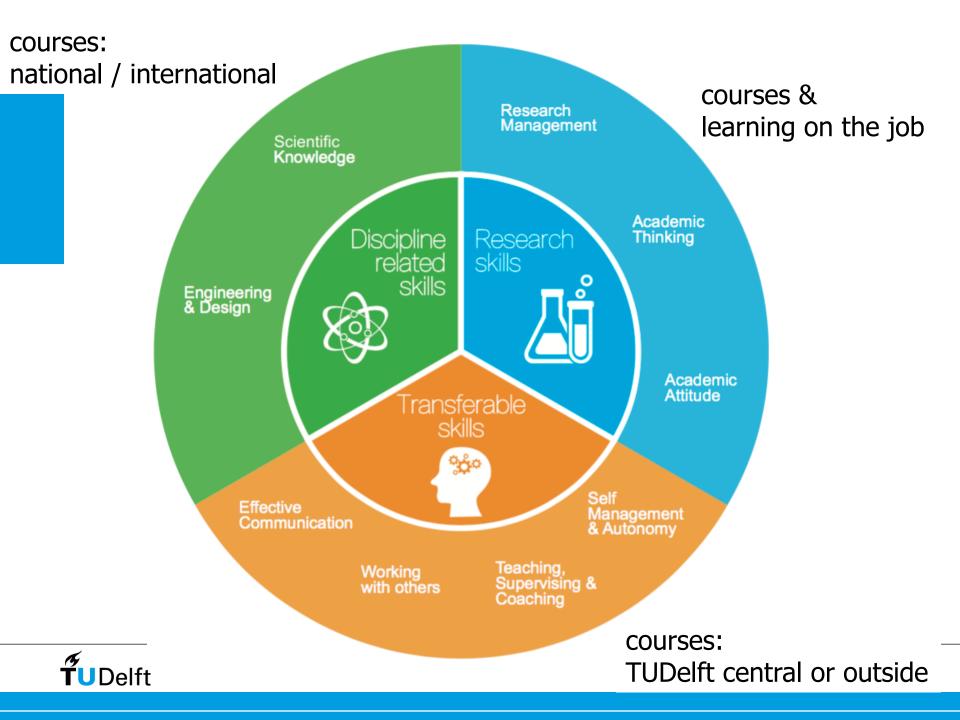
- hiring is done always with 3 PI's, at least one outside research
- within 3 month: PhD agreement = document on research plan (not carved in stone), Doct.Edu., supervision
- thesis proposal & go/nogo: committee of at least 3 PI's, at least one outside research area & supervision
- on average, less than 10% should get 'no go'



doctoral education 45 GS-points (1 GS = 8-10h)

- Discipline Related (15GS)
- Research Skills (15GS)
- Transferable Skills (15GS)





Activities	GS credits indication	Maximum nr. of times with GSC
1. Scientific Presenting & interacting		
Addressing a small audience	0.5	2
Addressing a major international audience	1	3
Poster presentation, small audience	0.5	2
Poster presentation, major international audience	1	3
Participation in work consultation with research partners	0.5	3
2. Writing and publishing		
Designing and writing a manual, instructions, etc.	1-3	1
Writing a research proposal	2-4	1
Paper review	1	2
Writing the first conference paper	1	1
Writing the first journal article	2-4	1
3. Teaching & supervision		
Supervising a MSc student/ Bachelor project groups (incl. correcting master thesis)	2-6	1
Teaching assistance: designing examination assignments	1	2
Teaching assistance: designing laboratory test	2-3	2
Teaching assistance: assisting in laboratory course /tutorial	1-3	1
Teaching assistance: providing technical/material support for lectures, correcting written exams	1-3	1
Peer-review & peer-learning meetings (4-6 x 0,5 day), for example as follow up of the PhD Start Up	2-3	1

# **Doctoral Monitoring Application (DMA)**

system for organizing work flow:

- PhD agreement
- thesis proposal
- go/nogo
- yearly progress meeting
- Doct.Edu. progress
- thesis approval & entrance to thesis-defence

Login to DMA



#### Mentor

guidance - in case of mild conflicts or personal problems

not: psychologist

not: problem solver

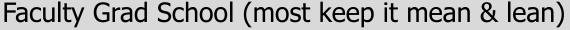
not: part of the research team



# Organisation

Board of Grad School @ university level

- (con)Rector Magnificus
- Directors of Faculty Grad School
- Secretary



- Director
- Secretary



5 members & secretary

# Board of Appeal

3 members & secretary (=lawyer)

#### **Board for Doctorates**







## A final word about Funding

Doctoral Programmes can be funded in several ways:

- 1. Working at the university: Often, doctoral candidates are employed on four-year contracts at their supervisor's department, where they are expected to also spend time on teaching activities.
- Bring your own funding: If there are no PhD positions available in your area of interest, you will have to find your own funding. This could be a scholarship or a grant.
- 3. Working for an employer: Employers sometimes provide financial support when their employees become doctoral candidates at TU Delft.



# TO CONCLUDE TUDELFT GRADUATE SCHOOL

- puts emphasis on proper supervision
- > is strict on hiring process
- enforces thesis proposal & go/nogo decision
- streamlines progress and time to completion



- requires Doctoral Education from all its PhD candidates
- offers mentoring & other support
- ensures all PhD candidates can visit international
- conferences & meetings

# TRIES TO BUILD A PHD COMMUNNITY....

