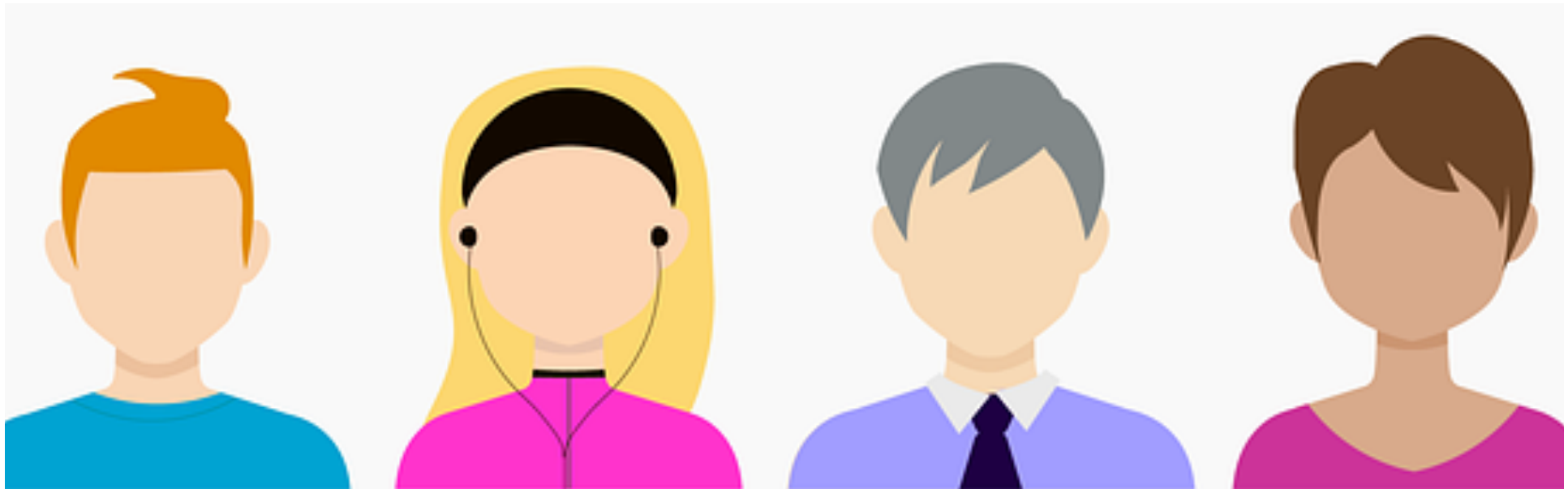




Erasmus+

Stockholm 13-14 June, 2019





Agenda, 13 June

12:00	Registration
13:00-13:15	Welcome and the opening of the conference
13:15-14:10	Ingdivs and Project Anna
14:10-15:00	Challenges and solutions for increased gender diversity in STEM
15:00-16:00	Invest Stockholm: A Woman's Place
18 -	Conference dinner at Pelikan, Blekingegatan 40



Agenda, 14 June

9:15-9:30	Introduction day 2
9:30-10:30	Li Ljungberg from the Association of Swedish Engineering Industries
10:30-11:45	Discussion: next step
11:45-12:00	Closing session



KTH Royal institute of technology





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Trinity College Dublin
Coláiste na Tríonóide, Baile Átha Cliath
The University of Dublin



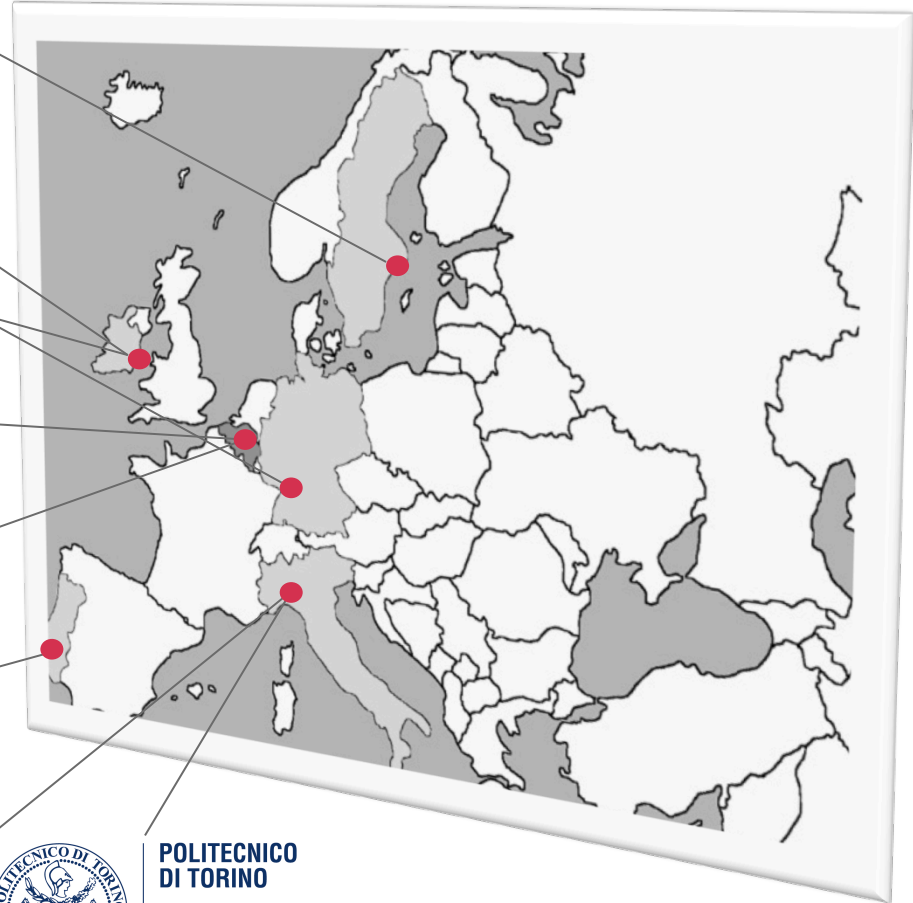
KU LEUVEN



TÉCNICO
LISBOA



POLITECNICO
DI TORINO

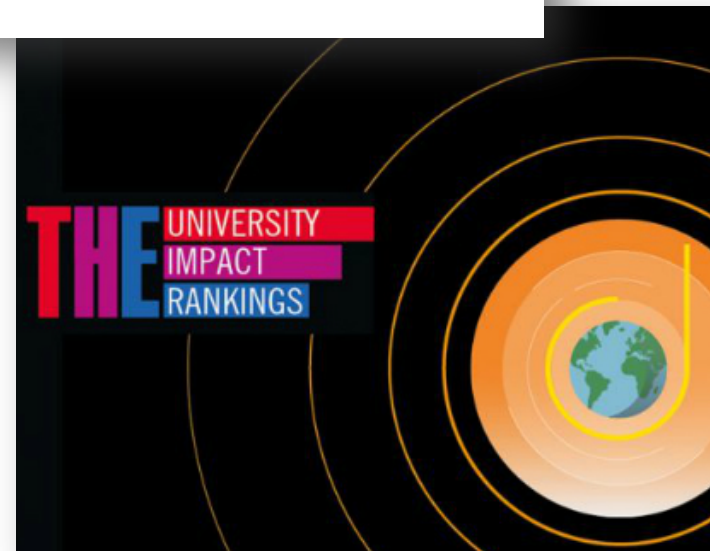


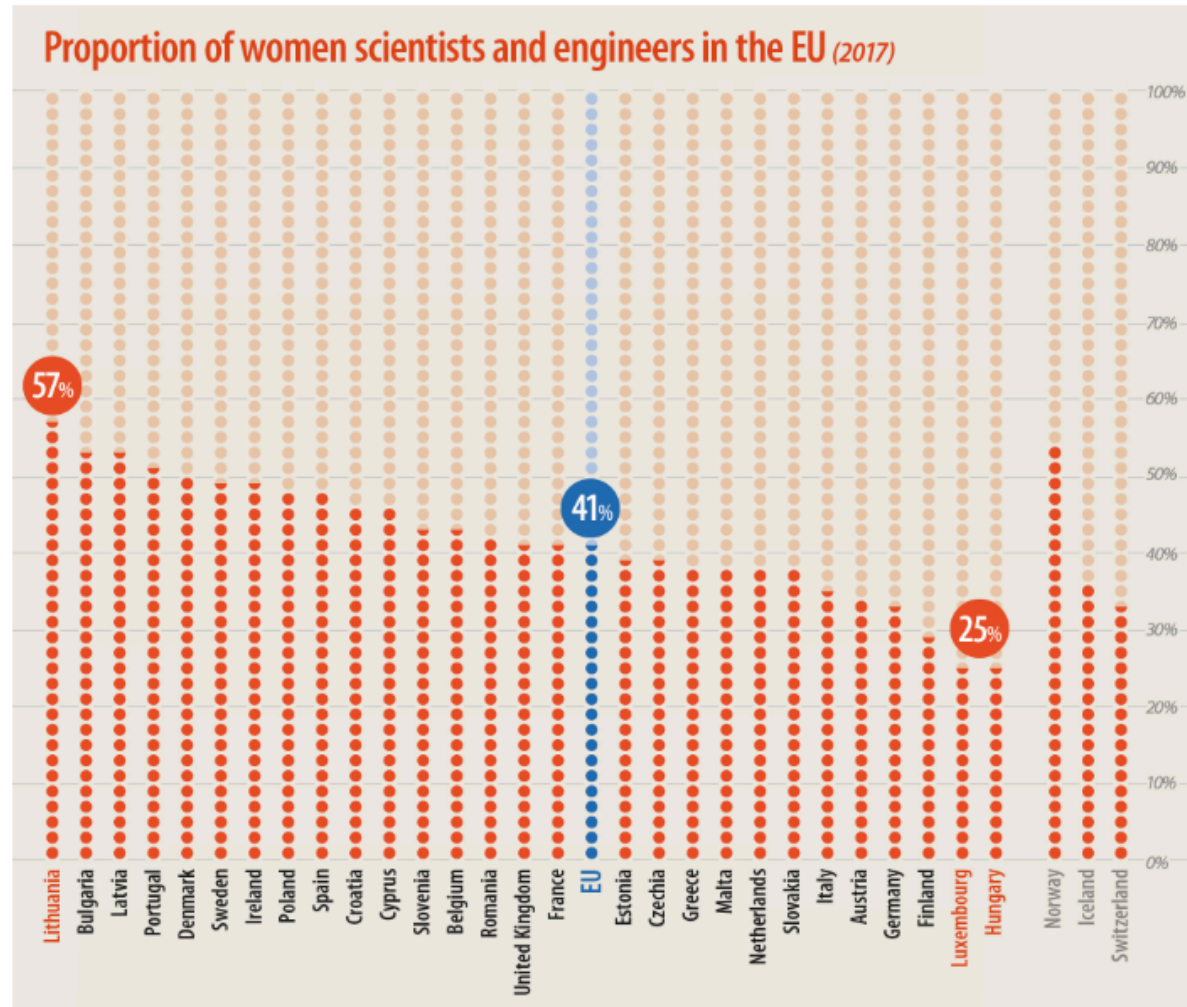


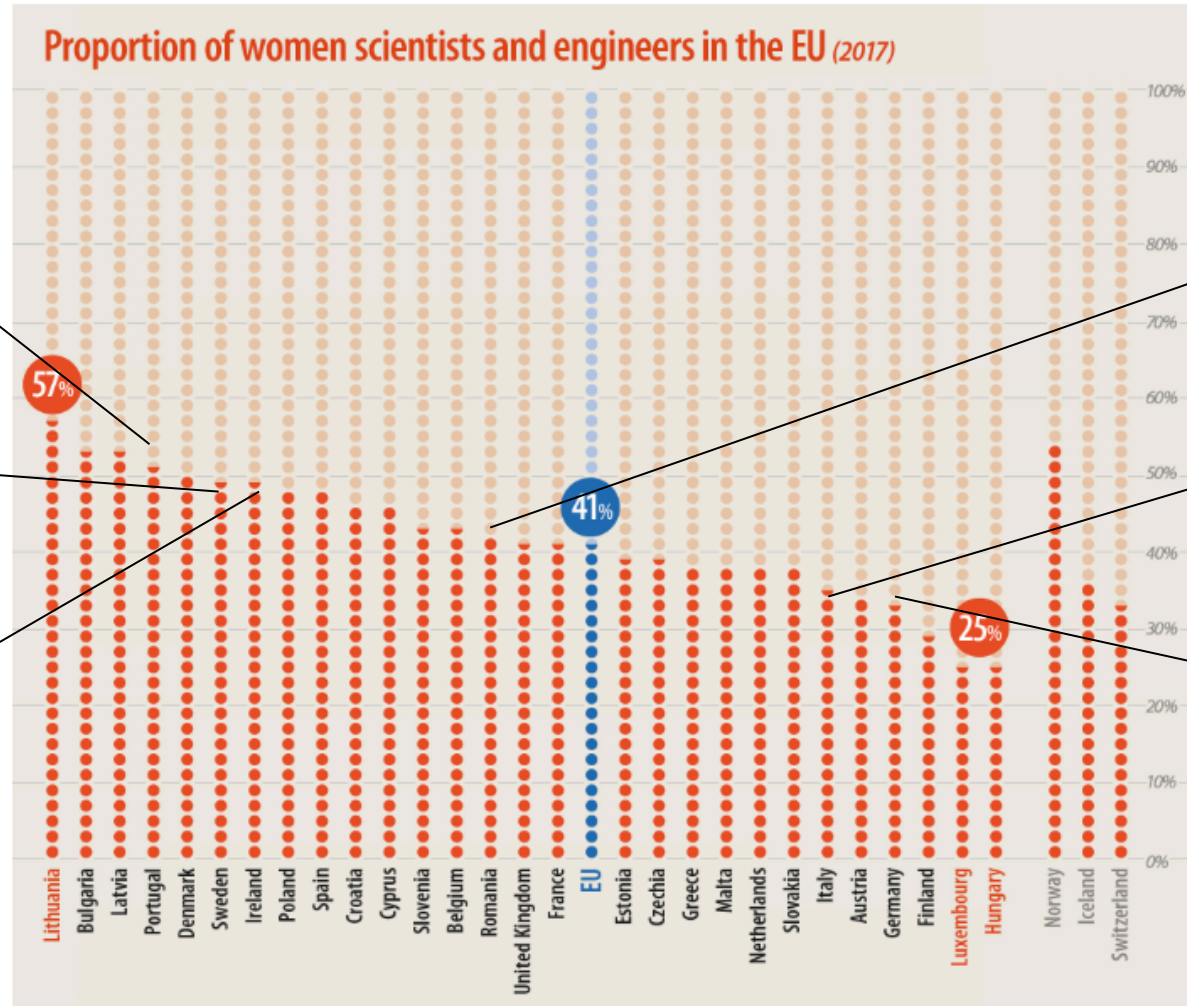
Background to gender diversity in STEM

- Framing the issue
- Gender diversity in STEM today
- INGDIVS, aim and purpose
- Conducted work
- Output, ANNA TOOL

Gender equality is part of sustainability

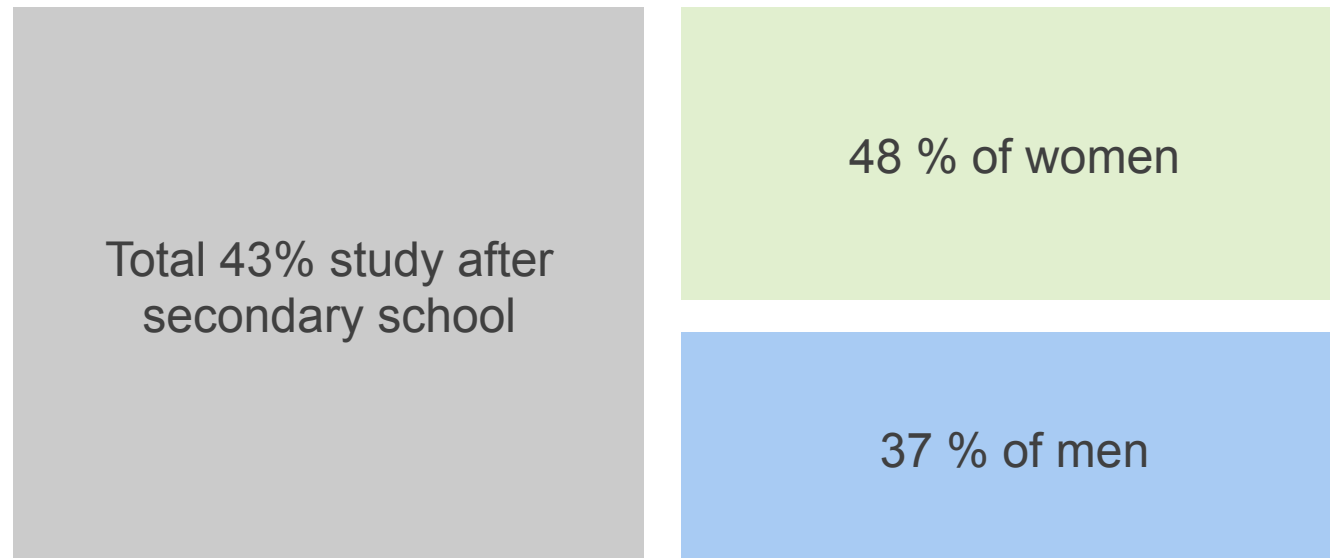








A closer look at the numbers

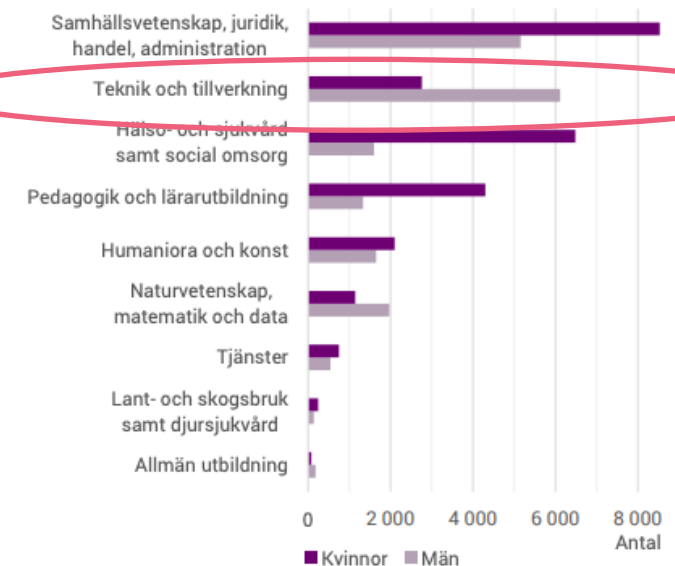




For the population of 1990

- Women participate in tertiary education in larger extent than men independent subject area
- More females on the study preparation programs in high school, but not on the technical trail.
- 56% (W64/M48) has registered at a university course

Antal personer per högskoleinriktning efter kön
Personer födda 1990 som läst en högskoleutbildning till och med 2016



First years students 2018, 33% in total

Figur 2

Antal nybörjare på utbildningsprogram 2015–2018

	2018		2017		2016		2015	
	Totalt	Andel kvinnor/ män (%)	Totalt	Andel kvinnor/ män (%)	Totalt	Andel kvinnor/ män (%)	Totalt	Andel kvinnor/ män (%)
Arkitektutbildning 300 hp	119	58/42	107	57/43	104	60/40	106	61/39
Civilingenjörsutbildning 300 hp								
Bioteknik	82	61/39	68	68/32	72	60/40	69	58/42
Civilingenjör och lärare	56	50/50	60	43/57	57	44/56	58	43/57
Datateknik	191	17/83	166	20/80	187	21/79	206	15/85
Design och produktframtagning	115	47/53	113	48/52	117	51/49	115	52/48
Elektroteknik	97	20/80	83	18/82	77	14/86	80	11/89
Energi och miljö	86	62/38	82	49/51	84	52/48	82	56/44
Farkostteknik	113	16/84	92	13/87	112	21/79	121	18/82
Industriell ekonomi	159	36/64	151	25/75	160	36/64	159	29/71
Industriell teknik och hållbarhet	33	39/61	-	-	-	-	-	-
Informationsteknik	73	21/79	74	22/78	80	26/74	78	22/78
Maskinteknik	159	18/82	190	19/81	201	27/73	165	30/70
Materialdesign	47	40/60	45	38/62	48	33/67	47	43/57
Medicinsk teknik	56	41/59	55	44/56	56	55/45	59	58/42
Medieteknik	79	42/58	69	49/51	69	54/46	70	47/53
Samhällsbyggnad	180	48/52	164	41/59	178	44/56	180	53/47
Teknisk fysik	150	19/81	120	18/82	134	16/84	137	20/80
Teknisk kemi	68	54/46	69	64/36	69	55/45	71	38/62
Öppen ingång	133	29/71	129	28/72	144	33/67	141	28/72
DELSUMMA	1877	34/66	1730	32/68	1845	35/65	1838	34/66

Computer science

17% women

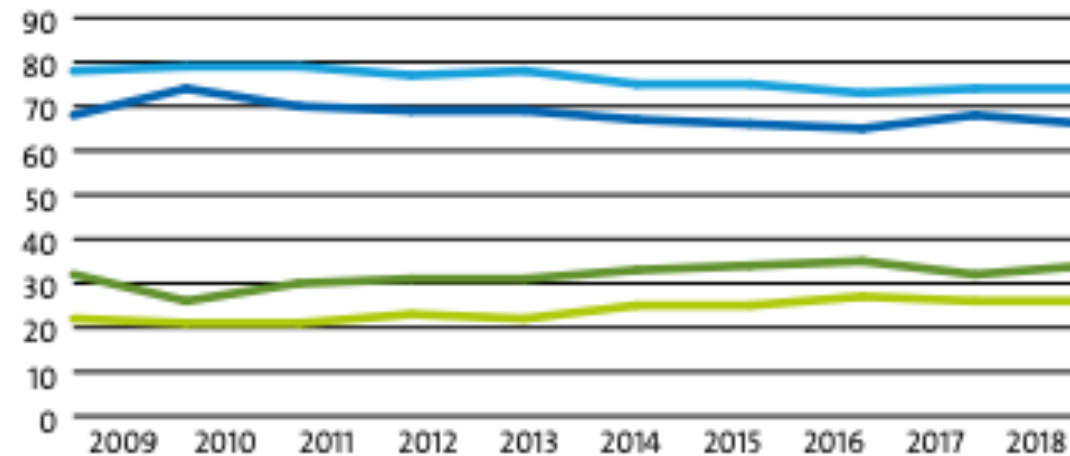
Energy and the environment
62% women

Figur 1

Andel kvinnor och män av nybörjare 2009–2018

Procent

- Höskoleingenjör, män
- Civilingenjör, män
- Civilingenjör, kvinnor
- Höskoleingenjör, kvinnor



Källa: Ladok



Numbers → gender mainstreaming



The overarching goal of the gender equality policy is that women and men are to have the same power to shape society and their own lives.



To create changes we need to change





To make change is to:

create confidence

widen the picture

increase interest

try and explore

Introduce

write the history

educate teachers

start early







About INGDIVS

General objectives:

Increasing the number of graduates attracting a broader cross-section of society into higher education
reducing the numbers who drop out without completing their course





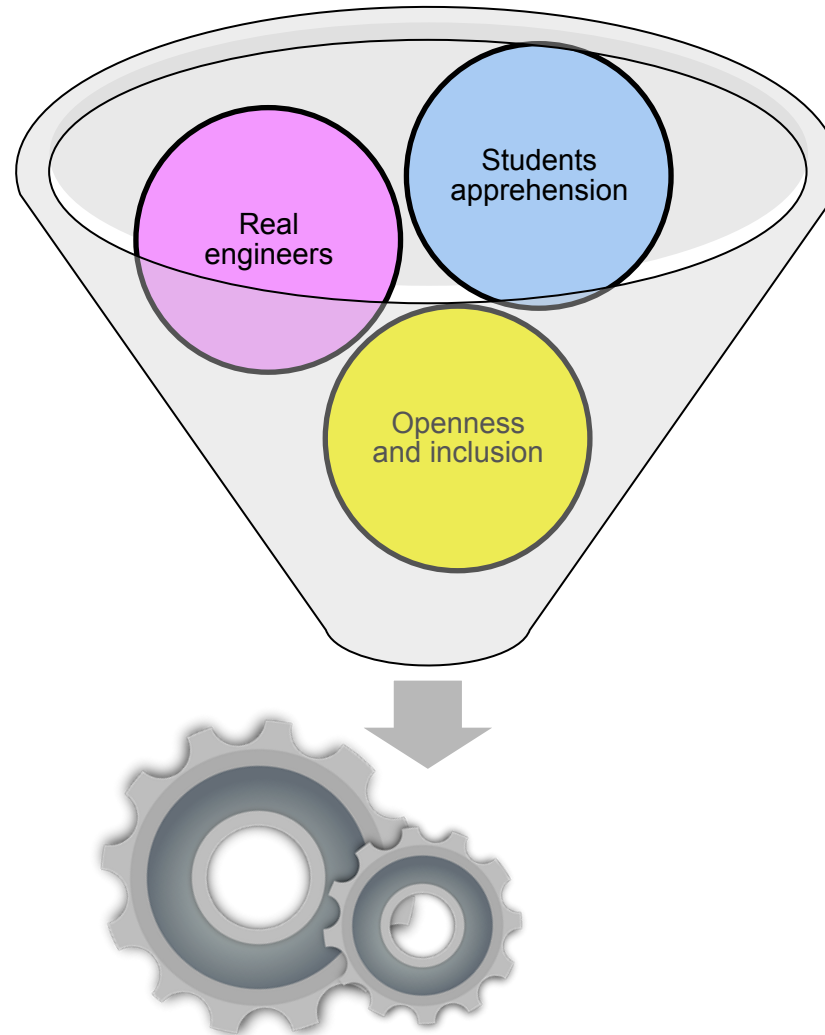
About INGDIVS

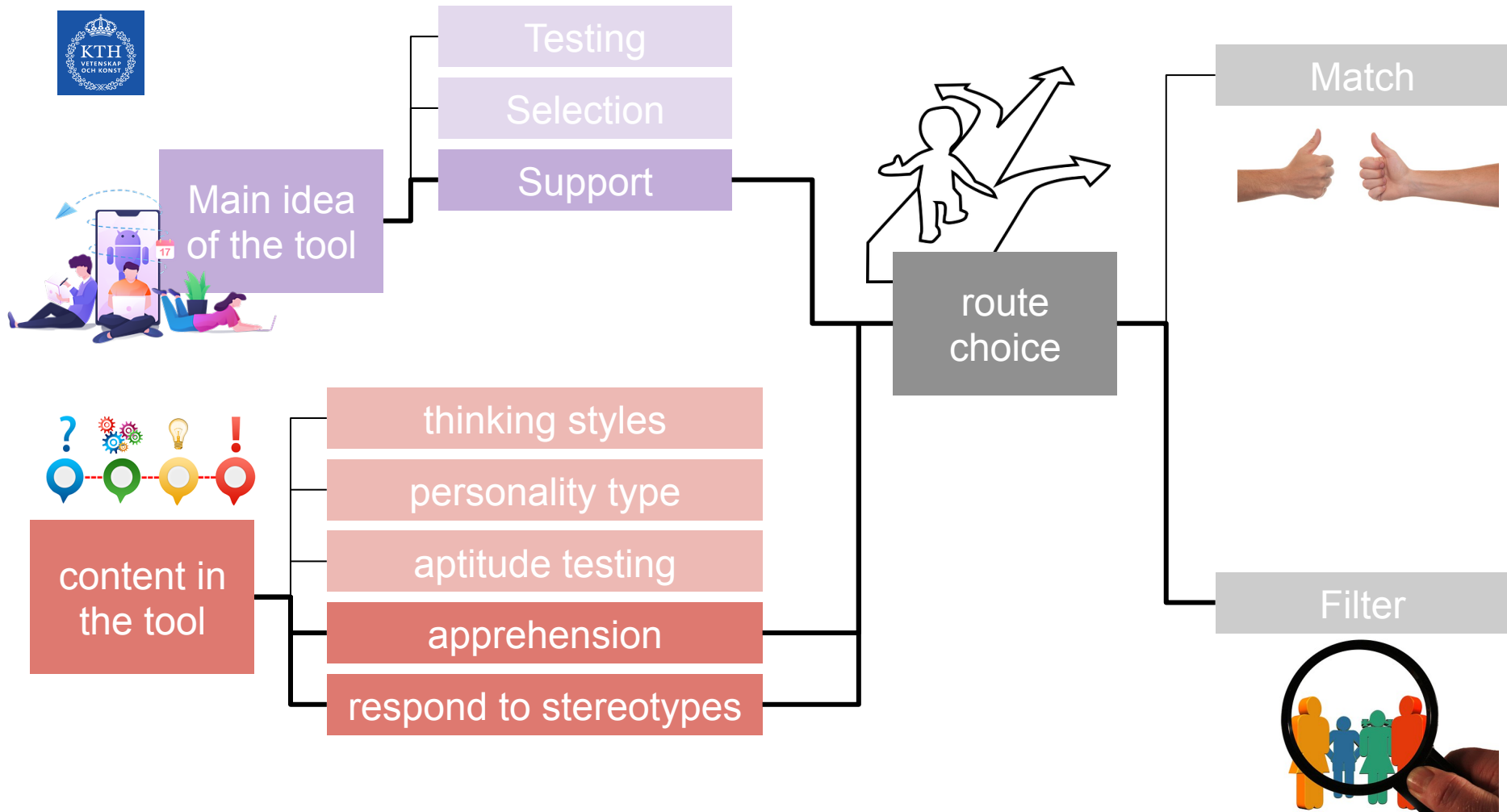
“applied” objectives:

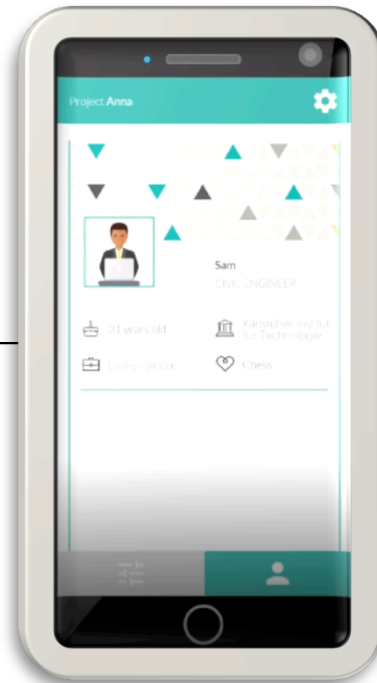
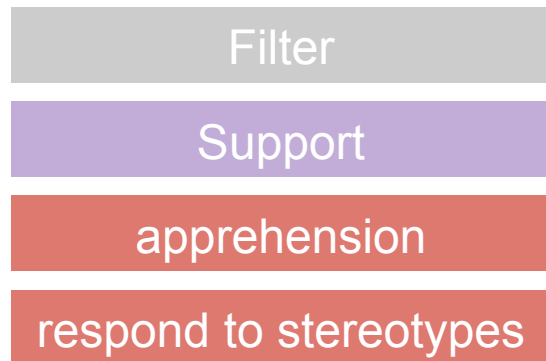
Contribute to increasing the number of graduates attracting a broader cross-section of society into higher education

reducing the numbers who drop out without completing their course by **broaden the vision of who is an engineer**









Landing page



Information

- GDPR
- For users
- For parents

Searching tool with alumni database

Intro video

Evaluation



In the database

To create a profile

1. Profile question –
“Whom are you”
2. Your beliefs about
engineering when you was
a applying for higher
education

Additional question for filtering





* The most surprising thing about engineering is:

! Choose one of the following answers

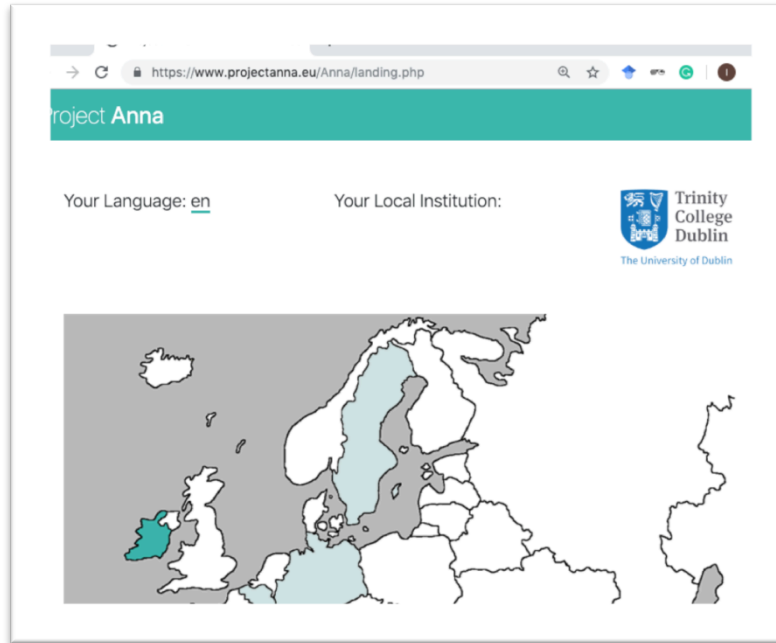
✓ Please choose...

that I get to work on more team projects than I expected
how many options there are to choose from and how broad engineering actually is
that the other students are a lot more like me than thought they would be
Other:

I like people who are most sure of their conclusions.

! Choose one of the following answers

- | | | |
|---|---|--|
| <input type="radio"/> Strongly Disagree | <input type="radio"/> Neither Agree or Disagree | <input type="radio"/> Strongly Agree |
| <input type="radio"/> Disagree | <input type="radio"/> Agree | <input checked="" type="radio"/> No answer |

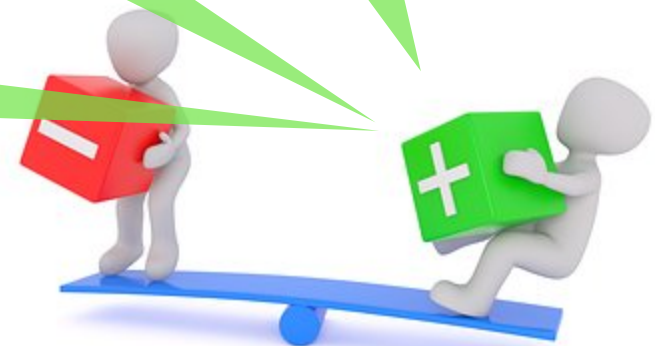


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When see peoples
personal
experiences with
STEM it make it
more relatable ...

Make you think of
engineering which
is not a career
highlighted often in
school

Challenge you to
think about your
stereotypes and
perceptions



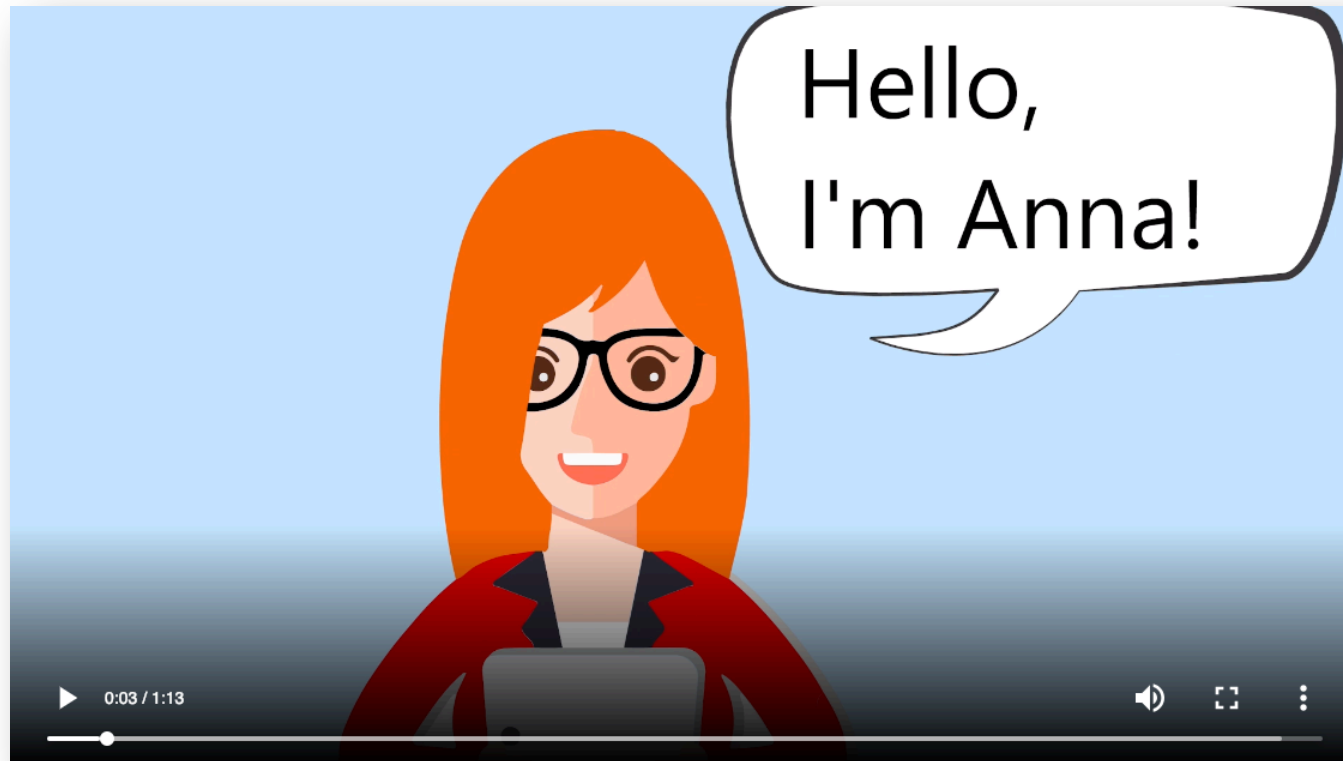


Not so many
profiles in the
database

Did not like the
gender mentioned.
Wants to be
recognized and
advice on her merit
regardless of gender

It is just about
engineering not
any other STEM
career.





<https://vimeo.com/user24717028/review/304330162/3b03e170a0%20%3E>



Have you an engineering background?

<https://www.projectanna.eu/limesurvey/index.php/812944?lang=it>

<https://www.projectanna.eu/limesurvey/index.php/812944?lang=de>

<https://www.projectanna.eu/limesurvey/index.php/812944?lang=pt>

<https://www.projectanna.eu/limesurvey/index.php/812944?lang=sv>

<https://www.projectanna.eu/limesurvey/index.php/812944?lang=nl>



Experience exchange mingel

Share and discuss your challenges and solutions for increased gender diversity in STEM

- What is on the agenda from your horizon?
- What is your local perspective?
- What challenges do you face?
- Good examples of conducted work?
- Present difficulties?
- ...





 **Stockholm**
The Capital of Scandinavia



A Woman's Place Podcast

How to recruit with greater diversity




News and updates



Principles



These are Women's Places



Meet the experts



“Equality in Sweden isn’t perfect, but it might be the best that we have in the world”

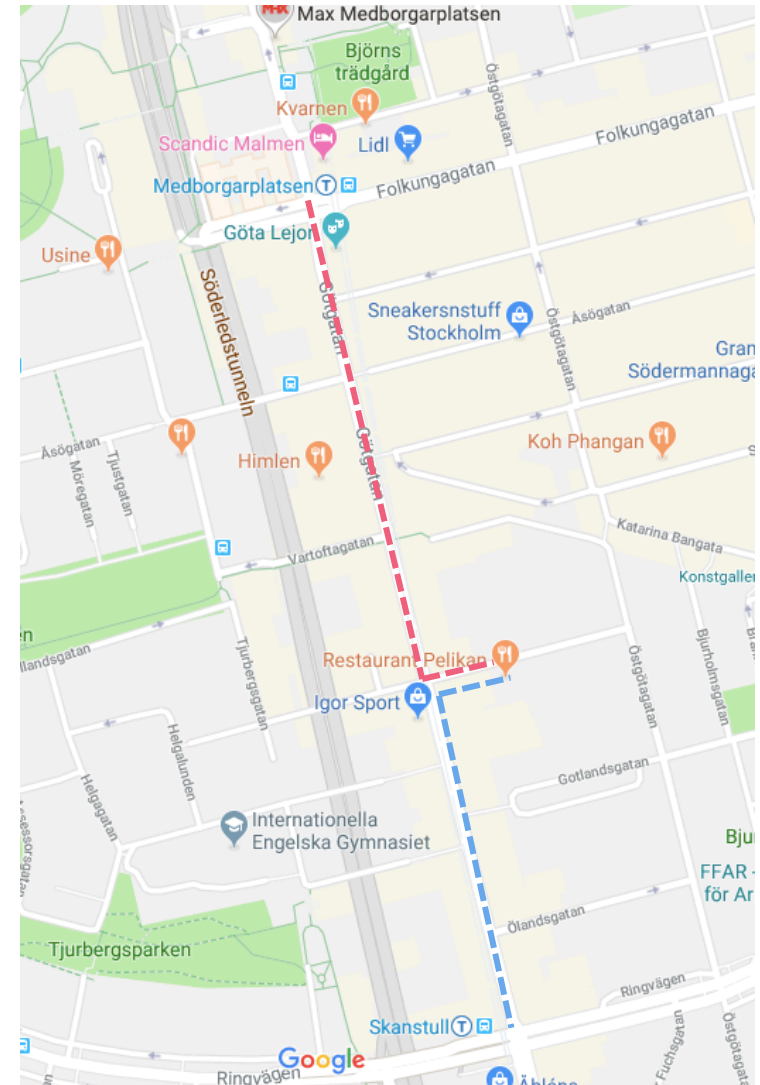


Restaurant Pelikan Blekingegatan 40 116 62 Stockholm

Green line southbound to

- **Medborgarsplatsen**
- **Skanstull**

If you take the subway from KTH change from red line to green line at Slussen or Gamla stan.





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Agenda, 14 June

9:15-9:30	Introduction day 2
9:30-10:30	Li Ljungberg from the Association of Swedish Engineering Industries
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Li Ljungström, teknikföretagen

Teknikföretagen (the Association of Swedish Engineering Industries) is an employers' organisation that has been established to strengthen the competitiveness of our thousands of member companies.



Discussion: next step



What need to be one now in order increase gender diversity in stem? What will be the next step?

How do we do it?

Discusses the issue be prepare to share your ideas with the rest of us.





www.projectanna.eu

- Go to the app and try it!
- Search and search again and again
- Create your opinion

