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Attracting Diverse Talent to the Engineering Professions of 2030: **EU Research Project**

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A-STEP-2030



Attracting Diverse Talent to the Engineering Professions of 2030



Una Beagon

Assistant Head of School of Civil & Structural Engineering
TU Dublin



Engineering Education: Future skills, standards and mobility Engineers Ireland, 30th October 2019





Introduction to Project

Project Aims

Activity 1 work

Results to date

- Q1. Sustainable Development
- Q2. Awareness of SDGs
- Q3. Skills and competencies required

Next Steps







Attracting diverSe Talent to the Engineering Professions of 2030

Project Partners:













European Society for Engineering Education
Europäische Gesellschaft für Ingenieur-Ausbildung
Société Européenne pour la Formation des Ingénieurs







Attracting diverSe Talent to the Engineering Professions of 2030

Aligning values of people with the skills needed in the engineering profession

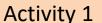
Creating a learning environment which is attractive to all

Encouraging a diverse student body to study engineering



Looking to the Future and the SDGs



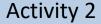






Future Role of Engineers in society and the skills and competencies required to achieve the SDGs









Investigate values and motivations of young people from diverse backgrounds and identify overlap with future role of Engineers



Activity 3



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Develop a new innovative learning and teaching activity to attract diverse students linked to skills needs and student values.



Activity 1





Future Role of Engineers in society and the skills and competencies required to achieve the SDGs

Task 1: Literature Review







Task 2: Focus Groups

	Academics	Students	Employers
Ireland	9	7	6
France	7	9	8
Denmark	8	7	6
Finland	8	4	7



Focus Groups









Q1. Words associated with Sustainable Development

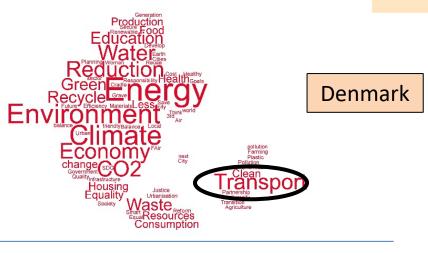




Q1. Words associated with Sustainable Development

Ireland





France

Resources

Consumption

Warming Humans Production

Water Consumption

Plant Consumption

Plant Consumption

Consumption

Water Consumption

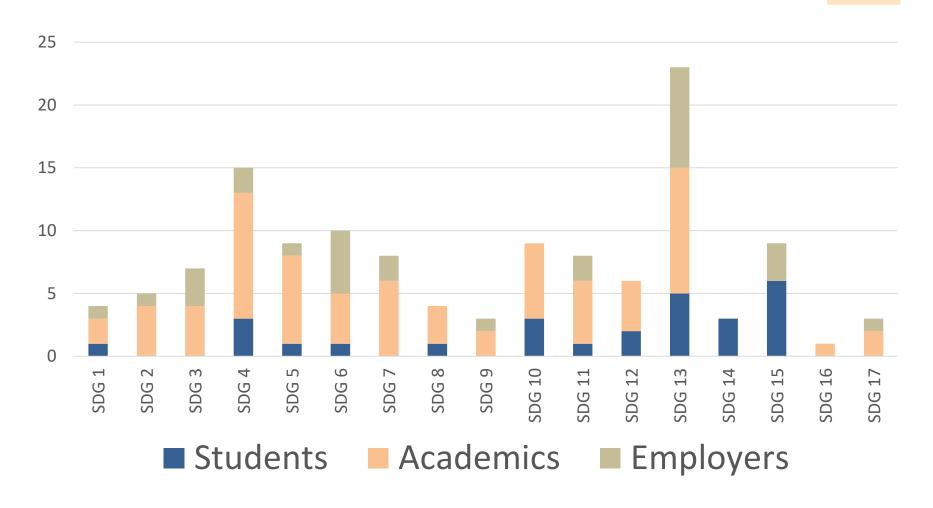
Plant Consumption



Finland

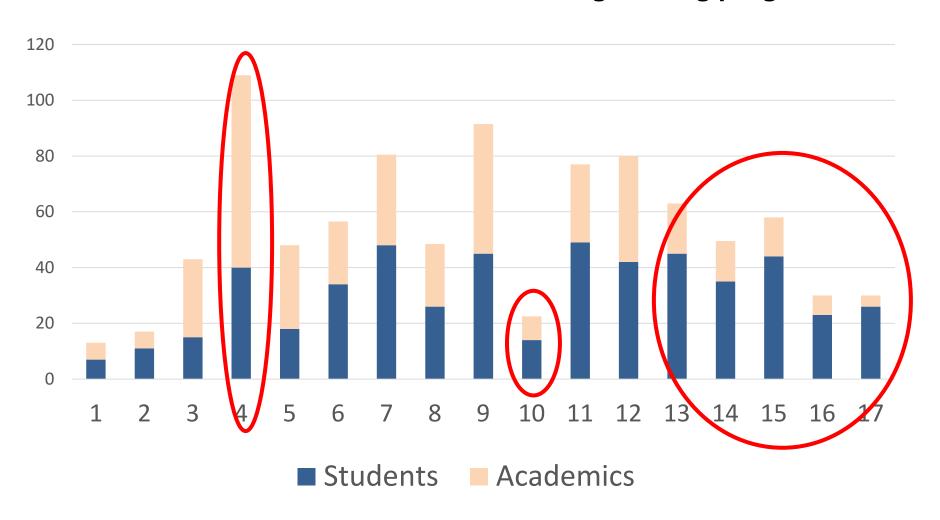


Q2. No of mentions for each SDG by participant group





Q2b. To what extent are SDGs covered in engineering programmes

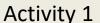




Q3: What are the skills and competencies required to achieve SDGs











Future Role of Engineers in society and the skills and competencies required to achieve the SDGs



Activity 2





Investigate values and motivations of young people from diverse backgrounds and identify overlap with future role of Engineers





AALBORG UNIVERSIT

Develop a new innovative learning and teaching activity to attract diverse students linked to skills needs and student values.



A-STEP-2030 Erasmus+



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