

International CCS+ Education Programme

Initiated by



Digitale Schiene
Deutschland

ProRail  **ERTMS**

Supported by



Co-funded by the
Erasmus+ Programme
of the European Union



Reason and goal

Digitalization and European focus necessary

- In Europe, the rail industry faces challenges with workforce diversity and employability amid rapid digitalization. Without intervention, it risks falling behind in the digital era and missing out on new opportunities. Additionally, there's a need to shift from national to European perspectives to enhance attractiveness and competitiveness, facilitating seamless border crossings.

Harmonized education and training on all levels

- The International Command, Control and Signaling + (CCS+) Education programme aims to unify rail sector education, making it more appealing, reducing training time, and fostering internationalization. This supports European initiatives like ERTMS (European Rail Traffic Management System) and the Single European Railway Area under the Green Deal.



Target groups

The International CCS+ Education Programme focuses on three target groups with a specific programme for each target group:

- University students
 - Master's degree
- Rail Newcomers/Young professionals
 - 1- 4 years' experience in digital rail
- High(er) Management
 - Board of directors in railway organizations, Ministry, EU
- Expert Meetings
 - Network of professionals from all groups



University students

International Master

- The project aims to create an Erasmus Mundus Joint Master program uniting European universities for comprehensive rail-related education. A curriculum board of academic and industry experts will guide content to meet technological and internationalization challenges, incorporating IT, AI, and cross-border knowledge alongside existing rail-related subjects.
 - Full (accredited 120 EC) Master
 - Broad scope within the topic 'digitalization in rail'
 - Join forces with universities in different countries instead of not being able to offer a full program as a single university
 - Minimum of three countries (key universities) needed for financial support from Erasmus+ funds
 - First round to gauge interest
 - Basis for an international career in the (digital) rail industry



Rail Newcomers/Young professionals

CCS+ Summer School

- Two-week all-inclusive programme
- In three different European countries
- Lectures from university professors and experts from the rail industry
- Group assignments on current topics
- Technical visits
- Social program
- Networking

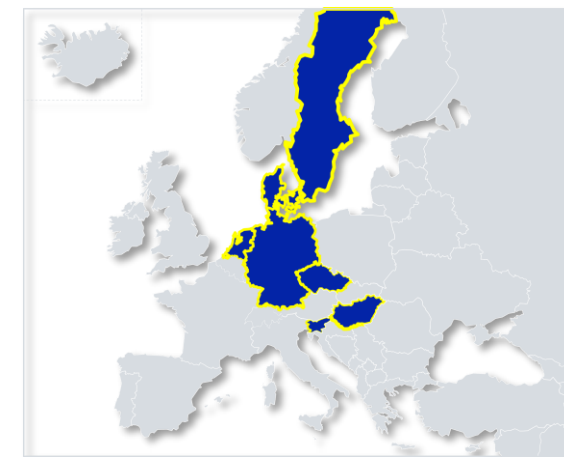


Young professionals



CCS+ Summer School 2023

- 31 participants from 7 countries - Czech Republic, Denmark, Germany, Hungary, Slovenia, Sweden and The Netherlands
- One week in The Netherlands and one week in Germany at two locations

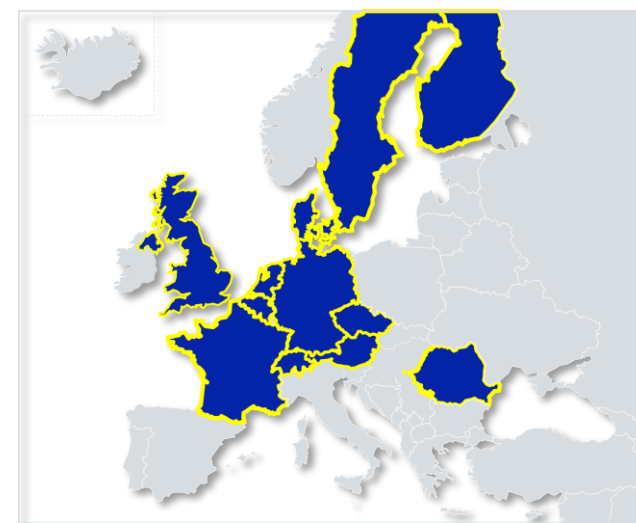


Young professionals



CCS+ Summer School 2024

- 28 participants from 12 Countries – Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Great Britain, The Netherlands, Romania, Sweden and Switzerland
- Two days in Brussels (B), four days in Amersfoort (NL) and one week in Erfurt (Ger)
- Partner in 2024 was the University of Applied Science in Erfurt



Promotion videos 2023 and 2024



<https://youtu.be/fM-IVjdhyBM>



<https://youtu.be/6RCh6xzs49A>
<https://vimeo.com/1053294124>



Young professionals

CCS+ Summer School 2025

- XX participants from XX European Countries
- Two days in Brussels (B), four days in Amersfoort (NL) and one week in Darmstadt/Frankfurt (Ger)



High(er) Management

Executive Master Class

- Compact afternoon – evening – morning event
- Topics presented by high level experts (i.e. professors from universities)
- Exchange lessons learned / best practices
- Networking



Expert Meetings

Meet up of rail experts and CCS+ Summer School Alumni

- 3-4 meetings per year (physical and MS Teams)
- Excursions / Technical visits
- Discussion of current topics
- Meet the current CCS+ Summer School participants
- Social program
- Networking



Country of Origin - Staff Members



2022/2023

Netherlands
Germany



2023/2024

Netherlands
Germany
Denmark



2024/2025

Netherlands
Germany
Denmark
Switzerland
Czech Republic
Belgium



Summary of the program

Target groups

Students at Universities / Universities of Applied Science

Rail newcomers / Young professionals

Management / Ministries / EU

General interest



Target groups

Master's Programme

CCS+ Summer School

Executive Master Classes

Expert Meetings



Further information

For further information please visit

- Website <https://ccs-education.com/>



- LinkedIn <https://www.linkedin.com/company/103857650>



- E-Mail info@ccs-education.com



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