

M2I THEMATIC MEETING

Toward the Circular Economy in Metals

Date: 8 April 2025

Time: 9.30 - 16.00

Venue: Het Vakwerkhuis, Professor Snijdersstraat 2, 2628 RA Delft



The transition to a circular economy is a cornerstone of a sustainable future. Recognizing its importance, the EU introduced the Circular Economy Action Plan in 2020 to reduce reliance on natural resources and support the goal of achieving climate neutrality by 2050. Aligned with this vision, the Dutch Nationaal Programma Circulaire Economie 2023-2030 has established clear targets for 2030. In response, the high-tech sector (HTSM) is actively transforming products and production processes to meet these evolving circular standards. Materials lie at the heart of this transition, driving innovation across multiple domains. Advanced material solutions minimize resource consumption, while designs emphasizing durability and reparability extend product lifespans. Modular approaches and disassembly-friendly designs facilitate refurbishment and remanufacturing, while cutting-edge separation technologies and enhanced recycling processes ensure efficient material recovery and the preservation of high-quality recycled materials.

This thematic meeting will focus on the challenges and opportunities of the circular transition within the metals sector. Participants will gain insights into broader strategic perspectives and delve into the latest advancements in recycling, re-use, and circular material design.

AGENDA

9:30 - 9:45	Opening by M2i
9:45 - 10:15	Benjamin Sprecher (TU Delft) - Circular design as a solution to the problem of critical raw materials: how far does it get us?
10:15 - 10:45	Pieter Kuiper (ARN) - Circularity in metals from automotive viewpoint
10:45 - 11:15	<i>Break</i>
11:15 - 11:45	Christina Meskers (SINTEF) - FME ZeMe: perspective for circular metals society
11:45 - 12:15	Frank Schrama (Tata Steel) - Growing towards a circular steel industry in the Netherlands
12:15 - 13:00	<i>Lunch</i>
13:00 - 13:30	Kevin Rossi (TU Delft) - AI for metals circularity, from the atom to the planet
13:30 - 14:00	Roel Smallegoor (Myne) - From Vision to Action: Innovating Metal Sorting Technologies for the Circular Economy
14:00 - 14:30	<i>Break</i>
14:30 - 15:00	Theresa Wallner (IenW) - Policies and the circularity of metals
15:00 - 15:30	Harmen Oterdoom (Butterbridge) - Do we stand a chance: our view on market, technology & innovation
15:30 - 16:00	Panel discussion
16:00 - 17:00	Drinks