

# 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 National Programme Circular Economy 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	<b>Benjamin Sprecher (TU Delft)</b> - Overview circularity viewpoint
10:15 - 10:45	<b>Pieter Kuiper (ARN)</b> - Circularity in metals from automotive viewpoint
10:45 - 11:15	<i>Break &amp; poster session</i>
11:15 - 11:45	<b>Christina Meskers (SINTEF)</b> - Role of zero-emission processes in circularity
11:45 - 12:15	<b>Frank Schrama (Tata Steel)</b> - GGS & Circular steel sector
12:15 - 13:00	<i>Lunch</i>
13:00 - 13:30	<b>Kevin Rossi (TU Delft)</b> - AI for metals circularity, from the atom to the planet
13:30 - 14:00	<b>Tijmen Oudshoorn (Myne, tbc)</b> - Challenges in metals sorting and recycling
14:00 - 14:30	<i>Break &amp; poster session</i>
14:30 - 15:00	<b>Theresa Wallner (IenW)</b> - Governmental challenges in circular business
15:00 - 15:30	<b>Harmen Oterdoorn (Butterbridge)</b> - SME challenges in circular business
15:30 - 16:00	Panel discussion