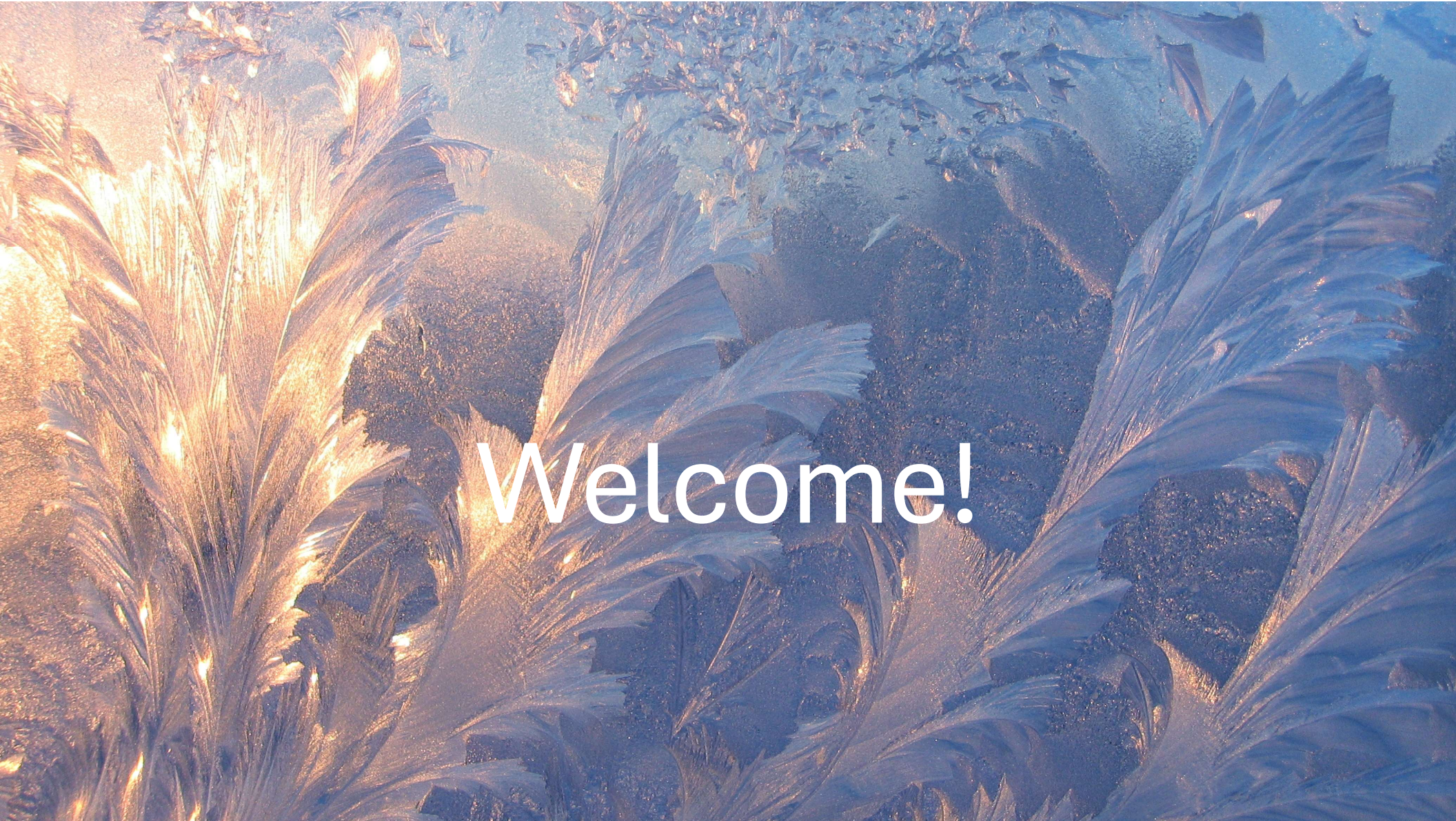


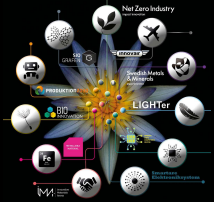


# The new roadmap for Swedish advanced materials

Update | November 19th 2025



Welcome!

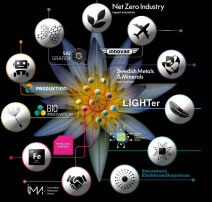


## Good to know

We will answer your questions at the end of the presentation.  
If you have any questions during, please reach out in the chat.

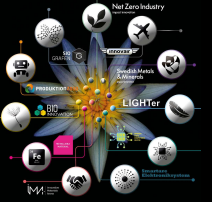
This meeting will be recorded for internal use in the process, to be sure that your input is collected. The recording will not be published or spread outside the working group and will be delated later.





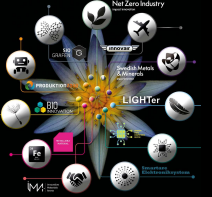
# Agenda

- Update on the process so far
- Preliminary findings from our five meetings and workshops
- Survey
- Next steps



The process so far

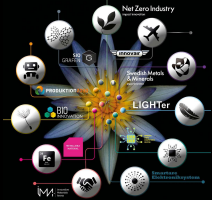




# Applications and industrialisation in focus



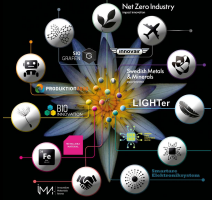
# Ways of collecting input from stakeholders



## Five round table meetings

- 10 September Stockholm
  - 29 September Gothenburg
  - 7 October Västerås
  - 16 October, digital meeting
  - 21 October, digital meeting
- 
- Written input by mail and in forms

# Participants so far



Automotive

Aviation

Industry

Material based  
startups/  
scaleups

Energy

Defence

Suppliers

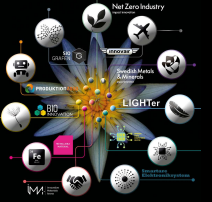
Standardisation

Universities

R&D  
organisations

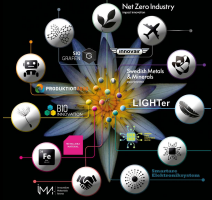
Programs /  
arenas

Public agencies



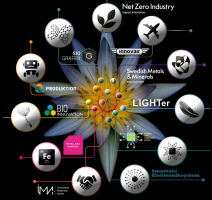
# Preliminary findings

# Desired long-term effects



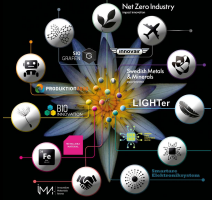
- Create long-term sustainability
- Shorten time to market
- Increase the circularity of materials
- Increase resilience in value chains through strategic sourcing of materials
- Sweden maintains leadership in advanced materials

# Most important to address according to the input so far



- Circularity and sustainability in material use
- Fossil free solutions
- Advanced properties in products
- AI and digitalisation
- Resilient value chains including securing material supply

# Legal & policy



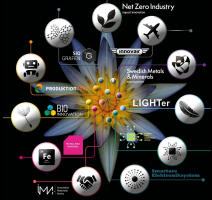
## Challenges and needs

- Standards and frameworks for advanced materials
- Promotion of circular solutions through regulations
- Difficult to follow regulations changes

## Activities

- Dialog with policy makers
- Incentive for sustainable production and circularity materials by taxes or procurement
- Best practice from other programs
- Develop new standards
- Swedish mirror group to partnership IAM-I and program IAM4EU

# Data, AI and digitalization



## Challenges and needs

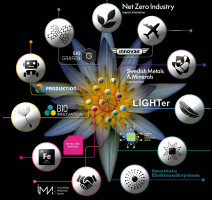
- Access to data and to open, secure platforms
- AI and digital twins for material design and optimization
- Digital Data Passports

## Activities

- AI - material hub
- AI for identification, simulation, synthesis, analysis, quality control
- Remove obstacles for data sharing



# Competence



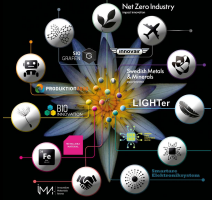
## Challenges and needs

- Material engineers, life-long learning, attracting and keeping talents
- Industrial involvement in education at different levels

## Activities

- National PhD network with strong industrial connections
- Master programs for engineering materials
- Arena where industry and research meet regularly

# Research and Innovation, Upscaling



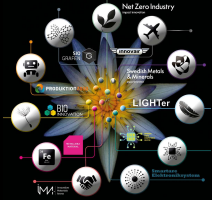
## Challenges and needs

- Access to testbeds, infrastructure and joint platforms for upscaling
- Collaboration arena - Swedish and European

## Activities

- National R&I collaboration platform
- User friendly infrastructure and testbeds
- Applied research
- Strategic foresight advanced materials
- Interdisciplinary collaboration
- National platform for production and upscaling of advanced material
- Manufacturing processes for advanced materials

# Competitiveness and business models



## Challenges and needs

- Long time to commercial breakthrough & first large customer
- Investments in startups/scaleups
- Efficient business models
- Uncertain global trade routes and markets

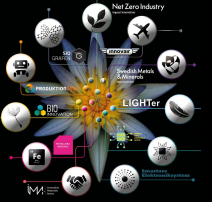
## Activities:

### Internationalization

- Active participation in European initiatives
- Benchmark best practices

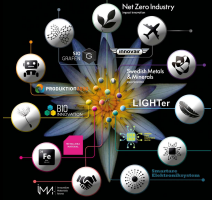
### Commercial acceleration

- Support on high TRL
- Collaboration in value chains
- VC and investors included in the ecosystem



Survey to open for additional  
input and deepen understanding

# Survey

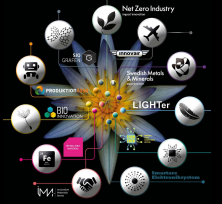


Survey to deepen understanding in specific questions

- Sent from us to all involved so far and via the arenas behind the roadmap
- **Please feel free to spread to other colleagues and persons you think have input.**
- Format: A Forms questionnaire send by mail
- Deadline 3 December

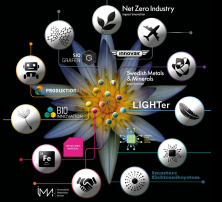


# Next steps



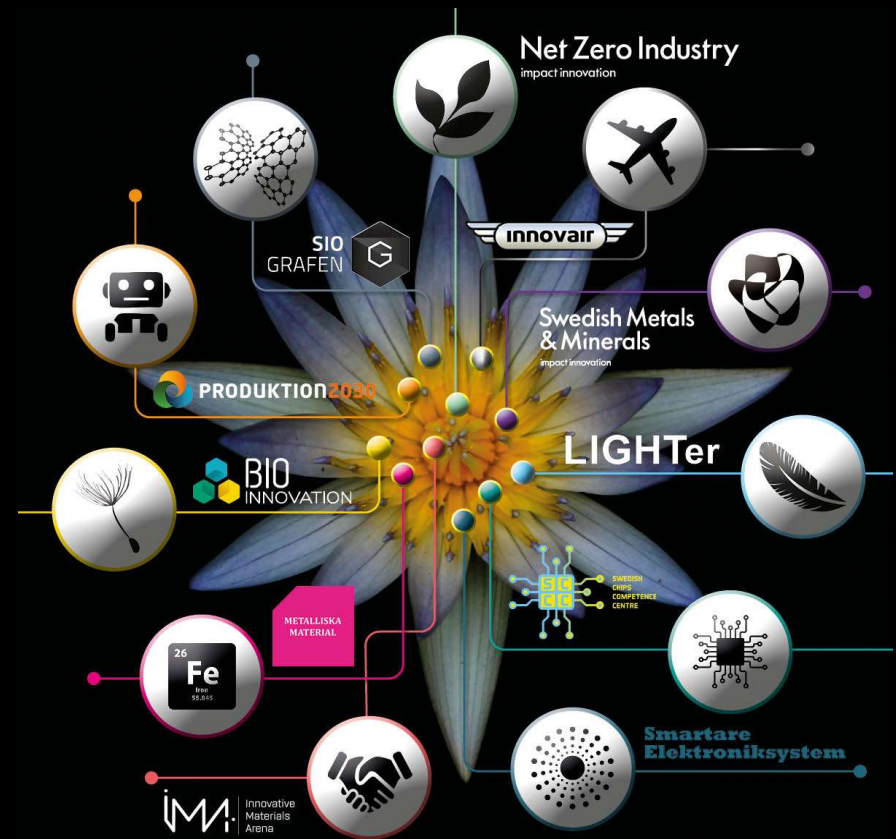
# Next steps

1. Survey with deadline December 3rd
2. A first draft of the roadmap for open consultation before Christmas
3. The final roadmap in Q1 2026



Questions or  
comments?

# Organisations supporting the roadmap



With support from

**VINNOVA**  
Sweden's Innovation Agency

 Swedish Energy Agency

**FORMAS**

Strategic  
innovation  
programmes

Thank you for today!