



PRODUKTION2030

The future of production is circular and resilient

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Teknikföretagen

HUVUDMAN:
 Teknikföretagen

GRUNDARE:
 SWEDISH
PRODUCTION
ACADEMY

 RISE

 KTH

 CHALMERS

MED STÖD FRÅN:
 VINNOVA
Sveriges innovationssatsning

 Energimyndigheten

 FORMAS

Strategiska
innovations-
program



PRODUKTION2030



2013



bas

that
ry...

VI ÄR FRAMTIDEN!



● = Expansion
○ = Nytablering

Produktion2030 focus: six industry challenges



Resource efficient production



Flexible production



Virtual production



Human centred production



Circular production and maintenance



Integrated product and production development



2013 – 2023

Produktion2030

 PRODUKTION2030

Four instruments – interacting to strengthen innovation

Projects

16 calls
150 projects
>500 companies

Education

National PhD programme
Civilingenjör4.0 - Master
Ingenjör4.0 - Upskilling

SME:s

>150 Technology Workshops
>600 companies
IUC

Analysis & Internationalisation

EU: EFFRA
EIT Manufacturing
Study visits

Produktion2030: & Circularity

HUVUDMAN:
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GRUNDARE:
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Sveriges innovationstrygghet

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PRODUKTION2030

Projects:

Resilient och hållbar produktion - Proaktiv produktionsutveckling av greenfield och brownfield (RaSP)

Certified to LAST - From concept to solution to incentivize and shape cirkular production based on verifiable sustainability requirements

Effektiv ÅTERtillverkning Lean principer och PRODUKTlivscykeldata

Logistic Visibility for CIRCULARITY

Valid Life

Robust texture design for circular polymers

Materialpass: En digital plattform för tillverkningsindustrin för att implementera cirkulära produktionssystem

Circularis

Effektivt cirkulationssystem för material i additiv tillverkning

Rethinking the management of unexpected events for resilient and sustainable production systems

sible value chain: material flow, information and circular economy - SCARCE

Cirkulär tillverkning inom energisektorn: en utvärdering av potentialen för en cirkulär affärsmödl

Enabling Re-use, Re manufacturing and Re-cycling within industrial systems

New logistics for plastic waste in a circular economy

Resilient manufacturing of composites

Organizing the Circular Economy Through A Network of LSAM Microfactories Recycling Ocean Plastics

Adaptive lifecycle design by applying digitalization and AI-techniques to production - Adapt 2030

Tool Trace - adoption of tool traceability and usage behaviours for circularity

Education:

P10: Sustainable development

P13: Sustainability in Engineering
Product development

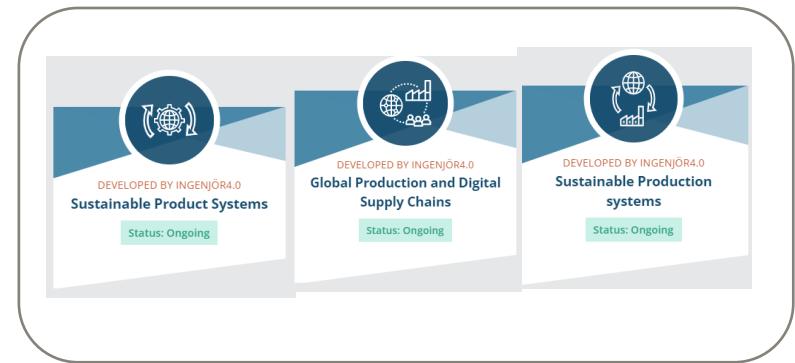
P51: Transdisciplinary Approach to
Circular Economy Research

P52: Maintenance of Industrial Equipment

P53: Product Service Systems

P54: Circular Economy and
Industrial Systems

PhD courses



Ingenjor4.0 course modules



Cirkulär ekonomi

Digital Teknikworkshop

📅 Torsdag 02 Februari 2023

⌚ 09:00 – 12:00



Industriell workshop: Automation inom Återtillverkning

Teknikworkshop

📅 Onsdag 27 Januari 2021

⌚ 10:00 – 15:00



Prediktivt underhåll för tjänstebaserade & hållbara affärsmodeller

Digital Teknikworkshop

📅 Torsdag 10 Februari 2022

⌚ 09:00 – 12:00



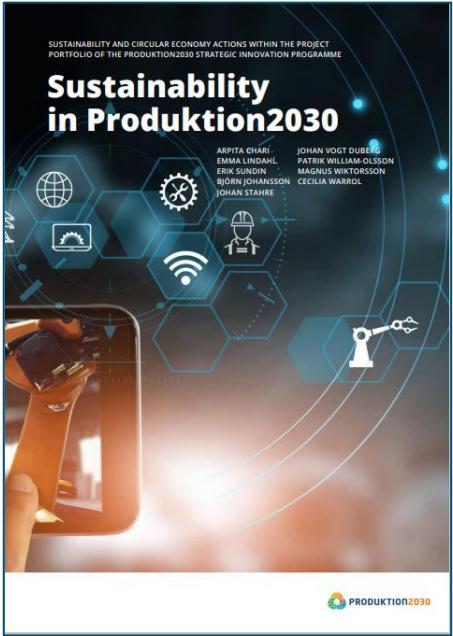
Digital Teknikworkshop – Projekt SCARCE II: Cirkulär ekonomi

Digital Teknikworkshop

📅 Torsdag 18 November 2021

⌚ 09:00 – 12:00

Analysis & Internationalisation:



EFFRA/Made in Europe

Roadmap:

- *Manufacturing in a Circular Economy*
- *De- and Re-manufacturing systems*
- *European Circular Manufacturing platform*
- *Environmental Sustainability*



Low environmental Footprint systems & circular Economy for Green Manufacturing

Analysis & Internationalisation:



R&D/år mrd USD	Engineers educated/year	Share of global production
612	70 000	16,6%
514	600 000	28,4%
160	1 500 000	3,3%
132	50 000	5,8%

What's next...

2023: EU Year of Skills – Deep Tech Talent Initiative (DTTI)

2023: EU Net Zero Industry Act

2023: DE Manufacturing X

2024: SE Q1 – Q2 Impact Innovation programmes kick off

2024: SE Q3 – Q4 Swedish Government Research and Innovation Bill

2025: SE Final year of Produktion2030

2030: Sweden more circular production, increased electrical vehicles
 and several large-scale battery plants in operation

Thank you!

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