



INCUBATION FORUM FOR CIRCULAR ECONOMY IN EUROPEAN DEFENCE (IF CEED)

"IF (we) 'CEED' now, we will harvest tomorrow!"

circular.economy@eda.europa.eu
eda.europa.eu/ifceed

The Incubation Forum for Circular Economy in European Defence (IF CEED) is co-funded by:

The LIFE Programme of the European Union



The Luxembourg's Ministry of Foreign
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CIRCULAR ECONOMY

Incubation Forum for Circular Economy in European Defence (IF CEED)

AIM

- ▶ **Implement circularity principles in European Defence by:**
 - incubating collaborative projects;
 - enabling transnational innovative solutions and revised business models.

*Contributing to
the EU Climate
Change &
Defence Roadmap*



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WHOM FOR?

- ▶ Ministries of Defence
- ▶ Any pertinent EU / national / international public body/organisation
- ▶ Academia
- ▶ Industry
- ▶ Research-and-Technology-Organisations
- ▶ Financial institutions



HOW?

- ▶ Under 2 Incubation Clusters, experts work within below 9 "Project Circles" (PC)

Incubation Clusters [ICs]								
IC 1 "Materials & Innovative Designs" [MIS]				IC 2 "Processes & Digitalisation" [PD]				
PC Critical Raw Materials	PC Circular Additive Manufacturing	PC Circular Materials for Textiles	PC Sustainable Ecodesign	PC Waste Framework Directive, 9.1.i)	PC EMAS Uptake Strategy	PC Green Procurement	PC Circular Data	PC Spare Parts Management

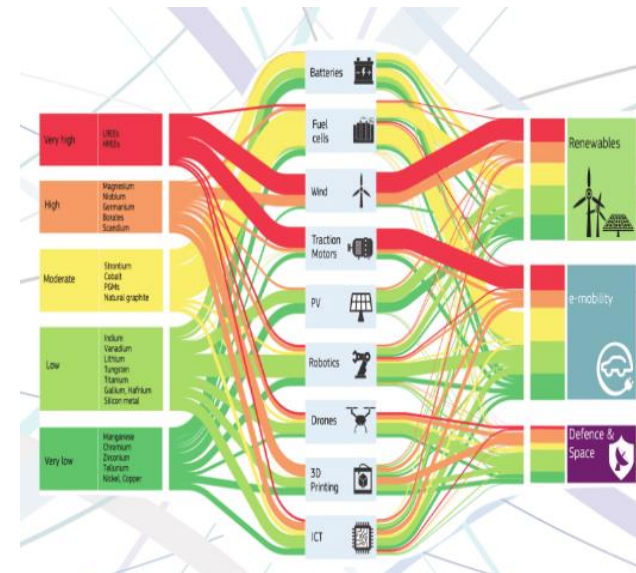
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“Critical Raw Materials” (CRM) Project Circle

MAIN TOPICS

- ▶ Evaluation of the main applications involving CRMs in defence.
- ▶ Reuse and recycling to keep CRM in the EU loop.
- ▶ Substitution of CRM.



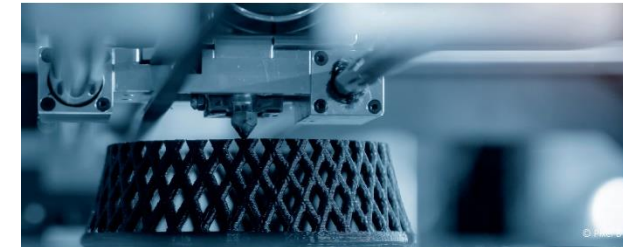
Source: [Critical Raw Materials for Strategic Technologies and Sectors in the EU](#)



“Circular Additive Manufacturing” (CAM) Project Circle

MAIN TOPICS

- ▶ Circularity and resource efficiency in Additive Manufacturing (AM) (*Materials, recycling & recycled content, processes*)
- ▶ Deployable AM solutions



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“Circular Materials for Textiles” (CMT) Project Circle

MAIN TOPICS

- ▶ Avoid contamination, presence of impurities and degradation in the textile recycling process
- ▶ Pre-evaluate the circularity levels by design, especially for textronic-based textiles

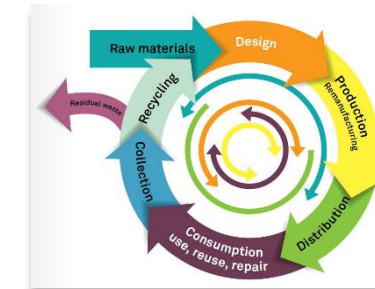


Source: [EDA's STILE: Smart TextILES in Defence factsheet](#)

“Sustainable Ecodesign” (SE) Project Circle

MAIN TOPICS

- ▶ Identify ecodesign requirements for circularity for a certain number of defence capabilities / intermediate products along the whole life cycle
- ▶ Sustainability assessment / environmental evaluation
- ▶ Support the Safe and Sustainable by Design framework



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“Green Procurement” (GP) Project Circle

MAIN TOPICS

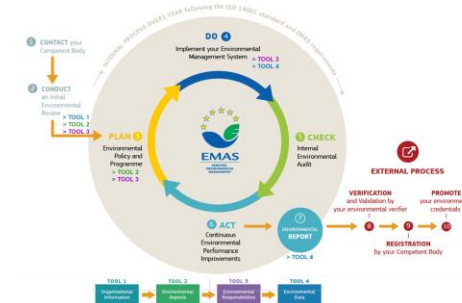
- ▶ Support MoDs to procure goods, services and works with a reduced environmental impact
- ▶ Development of a knowledge platform and a reference system of criteria / standards
- ▶ Feasibility of a training on Green Procurement in defence for MS



“EMAS Uptake Strategy” (EUS) Project Circle

MAIN TOPICS

- ▶ Analysis of the EMAS/ ISO 14001 (or equivalent) certifications for the proposed case studies, including identifying drivers & barriers
- ▶ EMAS certification uptake at military installations.



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“Waste Framework Directive Art. 9.1.i” (WFD) Project Circle

MAIN TOPICS

- ▶ Implementation of the WFD/SCIP database requirements & defence exemptions.
- ▶ Link between SCIP reporting and wider data sharing schemes.
Joint activity with “Circular Data” Project Circle



“Circular Data” (CD) Project Circle

MAIN TOPICS

- ▶ Sharing of data on products along circular value chains & associated schemes (including legal, technical, organisational and economical aspects).
- ▶ Data for (reverse) logistics.



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“Spare Parts Management” (SPM) Project Circle

MAIN TOPICS

- ▶ Common pooling and sharing of spare parts.
- ▶ Certification of spare parts.
- ▶ Focus on spare parts from decommissioned assets.

NB: Link with eco-design and additive manufacturing.



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Status of the activities

PROCESS FOR DEFINITION OF PROJECT IDEAS

1. Identification of priority areas per Project Circle ✓
2. Definition of scope, objectives, expected outcome and impact of project ideas **On-going**
3. Identification of relevant funding sources Upon first consolidated definition (Started).

TIMELINE

Experts in Project Circles are working on the definition of project ideas:

- ▶ to be finalised by May/June 2023;
- ▶ as basis for application to funding & implementation *(timeline depending on funding scheme).*



*If you would like to
join a **Project Circle**
or ask for more info,
please email:*

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MANY THANKS FOR YOUR ATTENTION

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