# CERN Environmentally Responsible Procurement

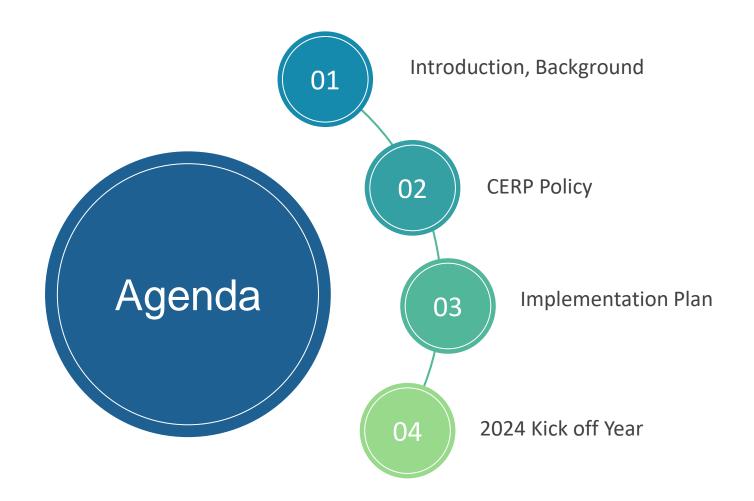
**CERP** 

Project Status and next steps

ILO Forum Meeting, 2024 March 19th

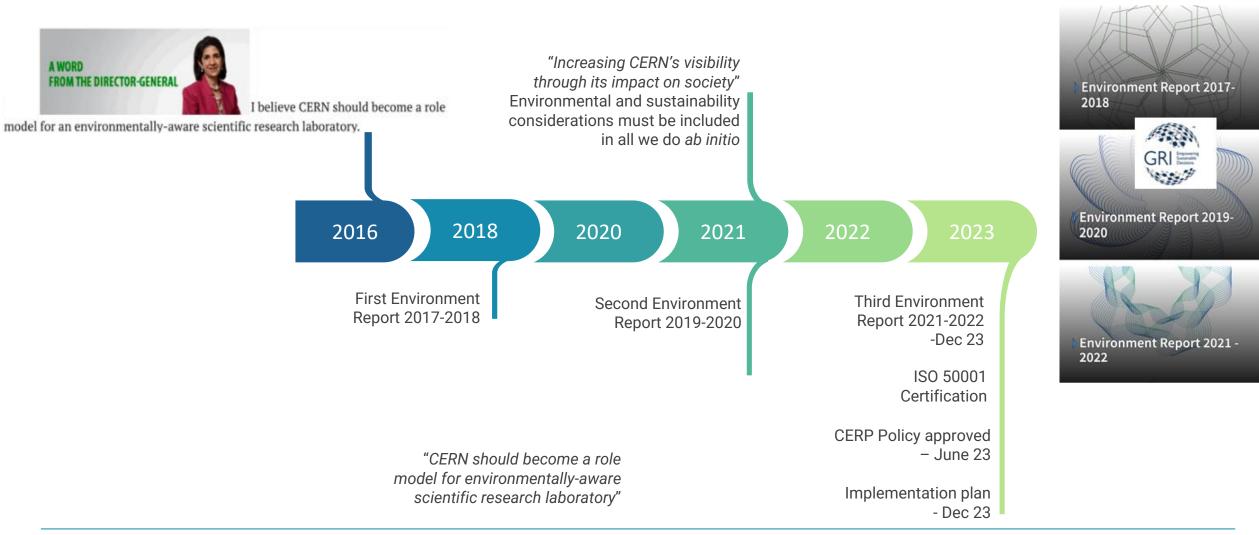








## **Introduction - DG VISION since 2016**





## **CERN Environment Priority Objectives**

More details in https://hse.cern/environment-report-2021-2022



#### **ENERGY**



#### 1215 GWh

The Laboratory is committed to limiting rises in electricity consumption to 5% up to the end of Run 3 compared to the 2018 baseline year, which corresponds to a maximum target of 1314 GWh, while delivering significantly increased performance of its facilities. It is also committed to increasing energy reuse.



#### **EMISSIONS**



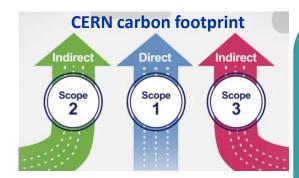
184 173 tCO<sub>2</sub>e

CERN's objective is to reduce direct emissions by 28% by the end of Run 3 compared to the 2018 baseline year, which corresponds to a maximum target of 138 300 tCO2e.



3234 ML

The Laboratory is committed to keeping the increase in its water consumption below 5% up to the end of Run 3 compared to the 2018 baseline year, which corresponds to a maximum target of 3651 ML, despite a growing demand for water cooling at the upgraded facilities.

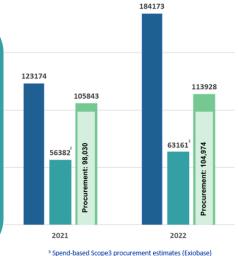


- Report on Scope 3 emissions for the first time
- Objectives set for scopes 1 and 2 emissions, for now

Scope 1 (direct): 184 173 tCO<sub>2</sub>e

Scope 2 (energy): 63 161 tCO<sub>2</sub>e

Scope 3 (indirect): 113 928 tCO<sub>2</sub>e

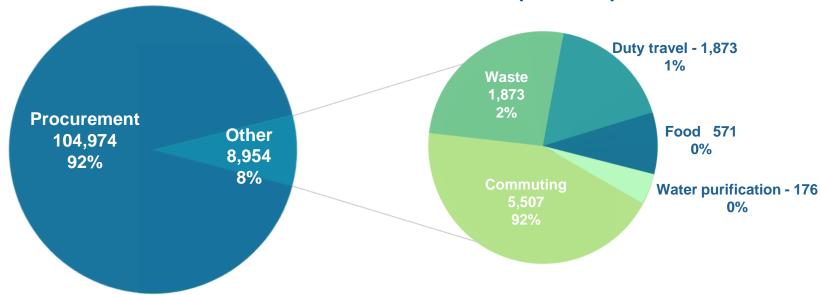


3 Spend-based Scope3 procurement estimates (Exiobase)



## **Scope 3 Emissions:**





40% of global emissions are driven from organisations through their purchases.

~35% at CERN

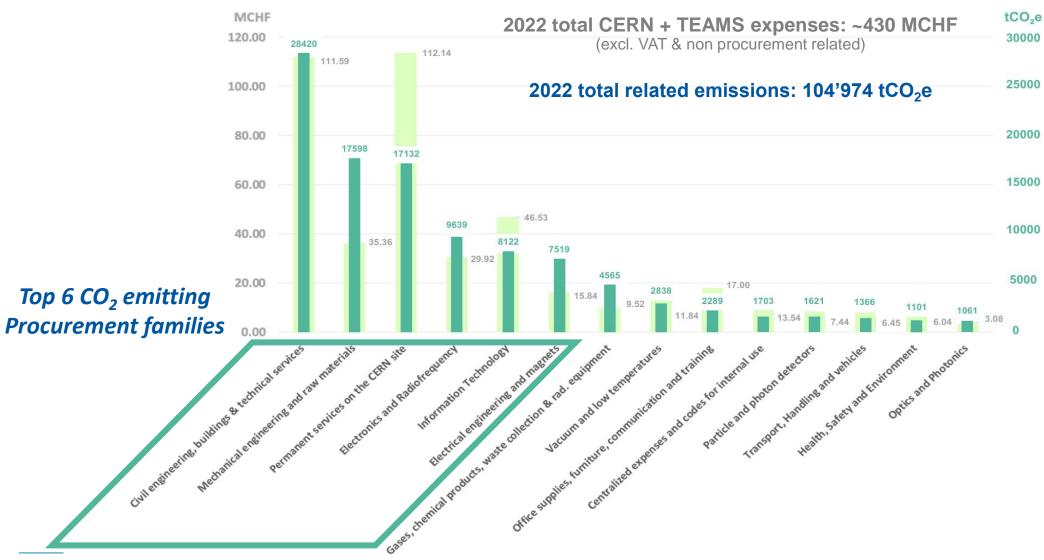
In 2022, > 90% of CERN's indirect (Scope 3) emissions resulted from purchases of goods & services.

40% of CERN's annual funding is spent with its suppliers.

Suppliers'
sustainability maturity
impacts CERN's ability
to be "an
environmentally aware
scientific laboratory".



# CO<sub>2</sub> emitting procurement families

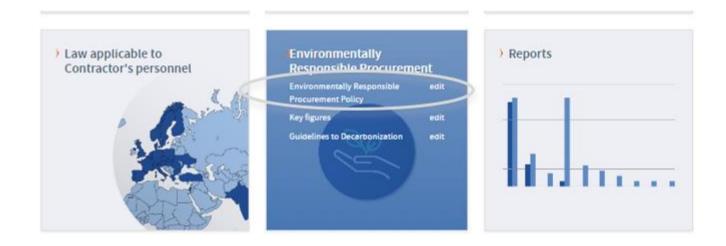




# CERN Environmentally Responsible Procurement Policy (1/3)

CERP Policy available on the Procurement Website

Approved in June 2023 by CERN Extended Directorate





# CERP Policy (2/3)

cern will embed environmental responsibility where appropriate throughout all phases of the procurement process, including at the design phase. [...]

Careful and reasoned attention will be given to the need for the procurement, the specificities of the goods or services being procured, the choice of the supplier, the terms of procurement and the principle of continuous improvement. [...]



# CERP Policy (3/3)

#### The Organization undertakes to:

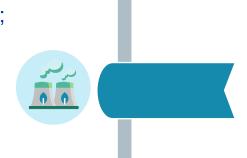
Integrate environmentally responsible procurement practices into current and future supply chains





Measure the impact of environmentally responsible procurement

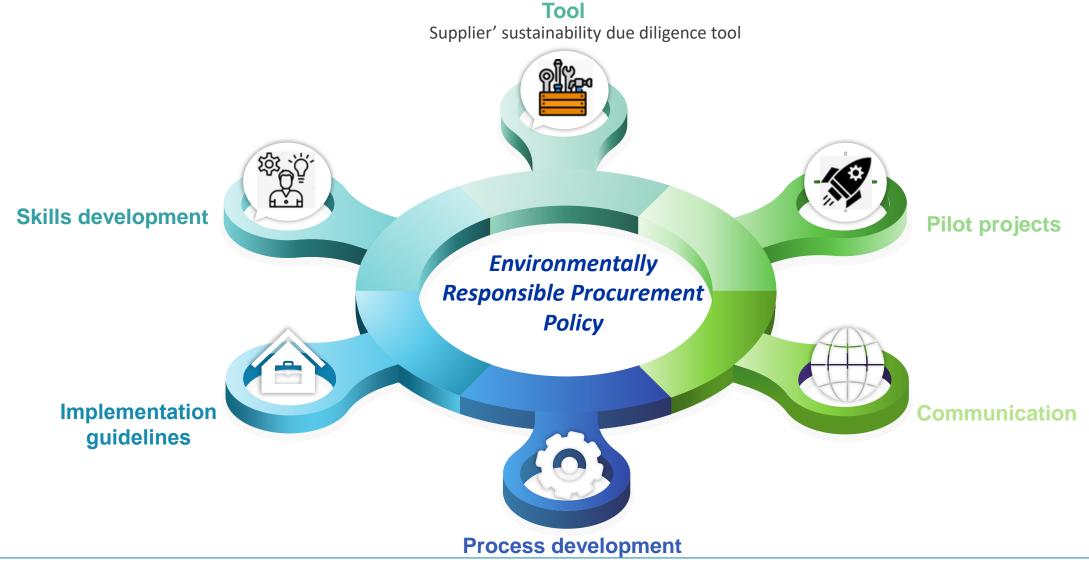
Communicate with, and give guidance to, the CERN community on implementing, monitoring and reporting on environmentally responsible procurement;



<u>Demonstrate</u> and <u>share</u>, where appropriate, best practice for environmentally responsible procurement with its Member States and other organisations, particularly other research laboratories. [...]



## **CERP Policy - Implementation Plan**





# CERP implementation - A phased approach

End of 2023 - Kick off

Assess, train, challenge

3 Focus areas:

- Skills development
  - Pilot Projects
- Suppliers Engagement

#### whenever possible:

- Challenge the implementation of best practices.
- Assess/check existing suppliers' sustainability maturity.
- Start engaging existing and potential/new suppliers on the disclosure of their CO<sub>2</sub> emissions.

**End 2024** 

**Review** 



**Lessons learnt** 

**Feedback** 

**Proposals** 

**Objectives Setting** 

2025

**Deploy** 

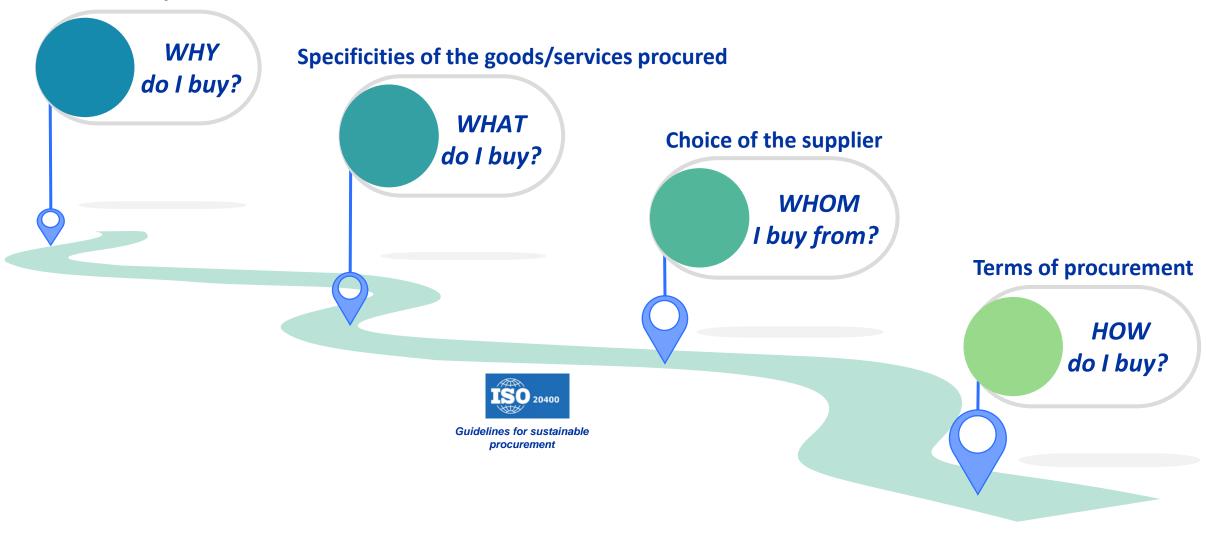
During the deployment, where defined after the review :

- Define and Achieve Scope 3 procurement emissions reduction objectives.
- Apply the practices decided/approved during the review.
- Ensure continuous improvement through training, reviews and asking feedback from stakeholders.
- Conduct supplier assessments wrt the objectives defined.



### In practice

#### **Need for the procurement**





## **CERP Policy implementation – Process**

At earliest possible stage of Procurement Process:

Challenging procurement strategy (Startup meeting)

Challenging the implementation of environment criteria

Decision: Yes / No

Request for information at MS stage

MS & IT

Adjudication

Contract follow up

Market maturity
Best practices & guidelines
TCO analysis

Mimimum level of action

Replies from suppliers are mandatory/collected/reported

Case by case or

Systematic?

- If it does not significantly limit competition OR impact the balanced industrial return OR price, then mandatory/desirable environment criteria should be included in MS for prequalification and in the technical specification at tender stage or included in adjudication basis
- Contract performance : SLA, energy monitoring (ISO50001 compliance), CO2 emissions disclosure improvements etc...

Collect Data /share lessons learnt eventually update/develop objectives and guidelines.



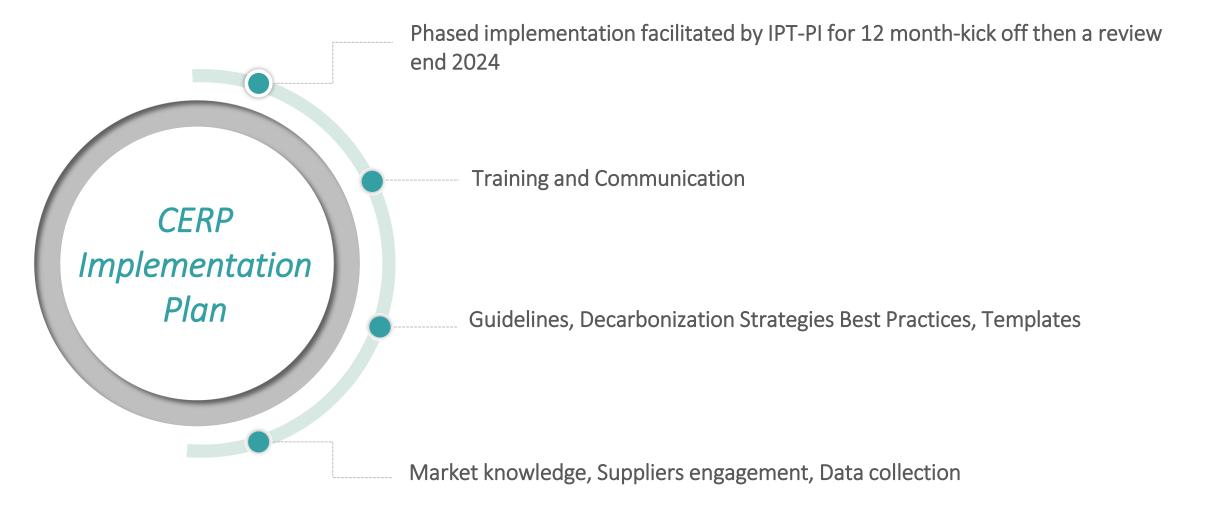
## **Approach adopted in Pilot Projects**

Challenge Implementation of Contract **Embed Criteria in Adjudication Environmental MS** and IT **Method** Management **Principles** Lifecycle Analysis **LC:** Sustainability (Linear/Circular Product/Service requirements Design) Specification evaluated as Set KPIs and/or Yes/No SLAs that can be **Procurement Family** used to measure **Decarbonisation** environmental Guidelines performance over **BVFM:** Scores Supplier the contract weighted and Qualification/ Responsibly included as part of Requirements **Supplier Maturity** the Quality scoring Data

Involvement of IPT-PI at each step of the procurement process to facilitate the implementation of the Policy in close collaboration with the Departments' Technical Officers



### **Conclusion:**







## What are Scope 1, 2 and 3 emissions?

Full video: ESG Base

