# CERP3 Decarbonization Procurement family 03

**Electronics and Radio Frequency** 

### **Current Situation in Procurement family 03 – Electronics and Radio Frequency**

- A large proportion of spend is on semi-conductors, which are challenging to source currently due to global shortages.
- Punchout catalogues are used across several suppliers.
- Sustainability is an area that the procurement family is actively considering.

### Seek to source PCBs and other relevant products from organisations that have water treatment on site

#### Opportunity

 Suppliers treating water on their own site

#### **Spend Area**

• PCBs



#### **Description**

- During PCB fabrication by suppliers, a large amount of wastewater is produced
- Suppliers of PCBs either treat the water on-site, or tank the wastewater and transport it to a site elsewhere for it to be treated
- CERN could state on-site water treatment is a requirement

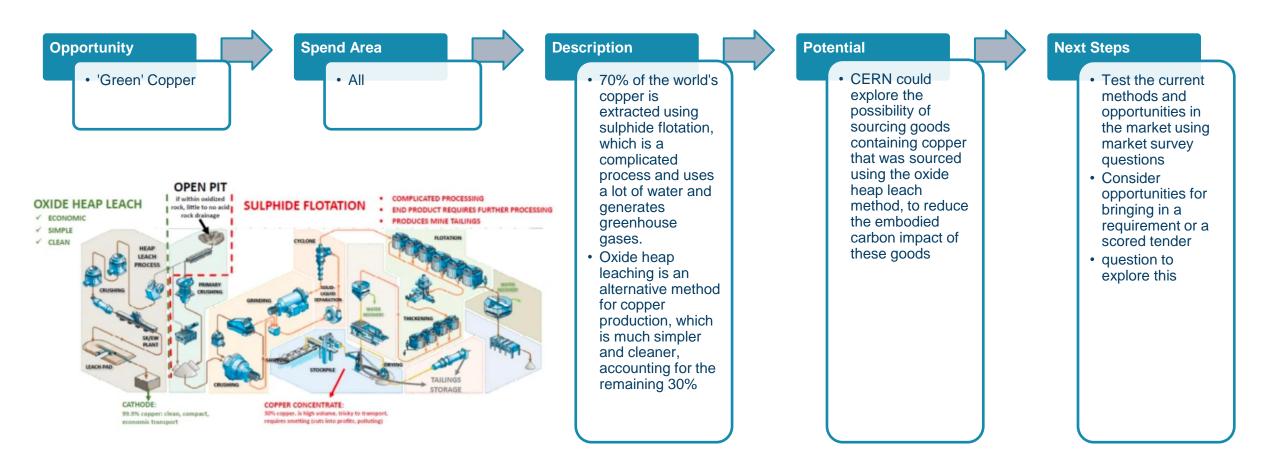
#### **Potential**

- If deemed viable as a requirement through market survey testing, this would generate a tangible reduction to the emissions of transporting the wastewater
- It supports
   CERN's desire to
   work with
   organisations that
   share a similar
   commitment to
   sustainability

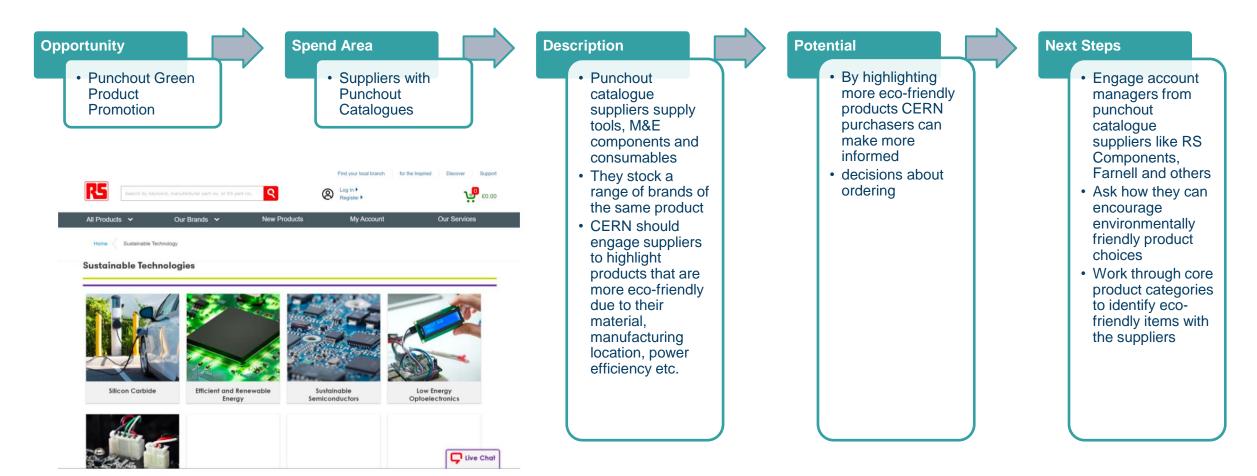
#### **Next Steps**

- Draft a question to ask during market surveys
- Analyse responses across suppliers
- Determine whether the introduction of this requirement would materially impact competition

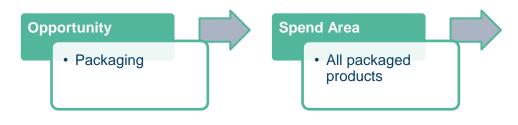
### Explore the usage of 'Green' Copper by suppliers in the manufacture of electrical components



### Engage punchout catalogue suppliers to identify products with low environmental impact and highlight these to CERN purchasers



## Consider expanding the Packaging and Shipping Instructions guidance to encourage sustainable supplier behaviour



#### **Example Content**

The packaging system should be minimised by weight and volume, whilst still providing the necessary protection to the goods

We encourage suppliers' best endeavours to use recycled packaging materials when providing goods to CERN

We encourage suppliers' best endeavours to use packaging materials with recovery options when providing goods to CERN, i.e. material recycling, energy recovery, composting and biodegradation

For frequent deliveries, we encourage collaborative planning discussions to determine whether it is feasible to agree nominated delivery days in order to reduce the frequency of deliveries

#### **Description**

- CERN currently provide packaging and shipping instructions to relevant suppliers, though these do not include environmental suggestions or requirements
- There is an opportunity to add guidance to reduce the amount of packaging or emissions from delivery services

#### **Potential**

- Less usage of packaging in goods bought reduces energy consumption to handle and process packaging waste
- It also reduces GHG pollution from the burning of waste materials
- Consolidating delivery days reduces the emissions from delivery vehicles that CERN would be responsible for

#### **Next Steps**

- Agree content to be added to the Packaging and Shipping Instructions
- Update and reissue the document to suppliers
- Consider opportunities for frequently delivered goods to have nominated delivery days

### Investigate the use of decarbonisation-focussed market survey questions, and later tender questions if suitable

#### **Opportunity**

 Scored decarbonisation questions, specific to the requirement

#### **Spend Area**

All

Example Question	Example Evaluation Criteria
How will you support the delivery of CERN's goal to reduce its carbon emissions resulting from purchased goods & services?	<ul> <li>Understanding of CERN's goals</li> <li>Are there tangible statements and examples?</li> </ul>
Are there any initiatives you are exploring from an innovation / continuous improvement perspective to provide your products/services with a lower carbon footprint?	<ul> <li>What level of maturity is the organisation's understanding?</li> <li>Is this a key area of focus for their organisation?</li> </ul>
Which metrics or KPIs do you use to measure your carbon impact for these products/services?	<ul> <li>Is this area being tracked?</li> <li>If so, what action is being taken to address the outputs?</li> </ul>

#### Description

- CERN could introduce questions to focus on how suppliers would tailor their approach to deliver each specific set of requirements in the least carbonintensive manner.
- This could be trialled initially through market surveys

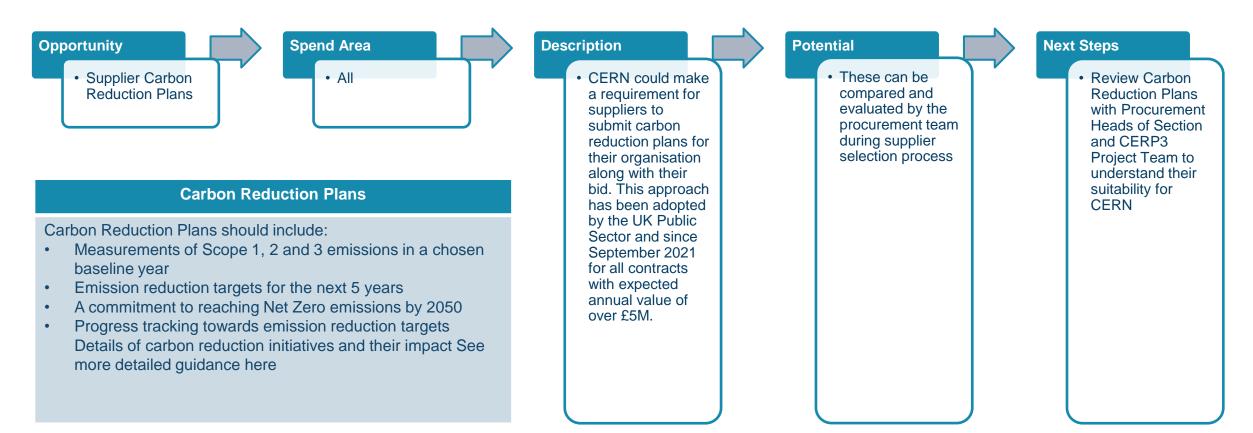
#### **Potential**

As a scored component of a Best Value for Money tender, it encourages suppliers to consider how the requirements can be successfully delivered through means with a lower carbon profile

#### **Next Steps**

- Develop trial questions to ask during market surveys
- Analyse responses across various requirements
- Determine where the opportunity is to introduce such questions to tenders, with appropriate weighting, to encourage sustainable practices

# For large contracts, require suppliers to submit carbon reduction plans and evaluate these as part of the bids if using BVFM adjudication



## For Environmentally Responsible Procurement actions that rely on supplier collaboration CERN should prioritize working with engaged suppliers

Supplier seeking to grow their business with CERN are more receptive to sustainability requests.

Opportunity for supplier in the development in terms of sustainability and innovation.

Low potential to drive sustainability issues. If possible consider changing the supply base.

Source. betterprocurement@hpw.qld.gov.au a client to the supplier? Development Core Very attractive, but Very important client, currently not a large and very attractive client CERN as **Exploitable** Nuisance How attractive is Important client, but Not attractive or important client not very attractive How important is CERN activities to the supplier?

Where would suppliers from each Procurement Code place CERN?

- Open to change and to sustainability requests.
- Focus on driving sustainability objectives and influencing the supply market.

- Focus on improving CERN relationship with the supplier.
- Potential in pushing sustainability agenda through building attractiveness as a client.