



Circular Trade: Vertical & Horizontal

TESSD, 18 May 2022
World Economic Forum

Global circularity

GLOBAL CIRCULARITY METRIC [%]

When we consider the four fundamentals above it becomes apparent that the last one, the cycling of materials is a key factor. For a metric that captures this essential dynamic we therefore suggest the circularity metric to be the share of cycled materials as part of the total material inputs into the global economy every year. Applying this definition to the numbers in the diagram results in a **GLOBAL CIRCULARITY METRIC of 9.1%** for 2015.

Cycled materials / Material inputs

=

8.4 billion tonnes / 92.8 billion tonnes

=

9.1%

8.6%
circularity of global economy in 2020

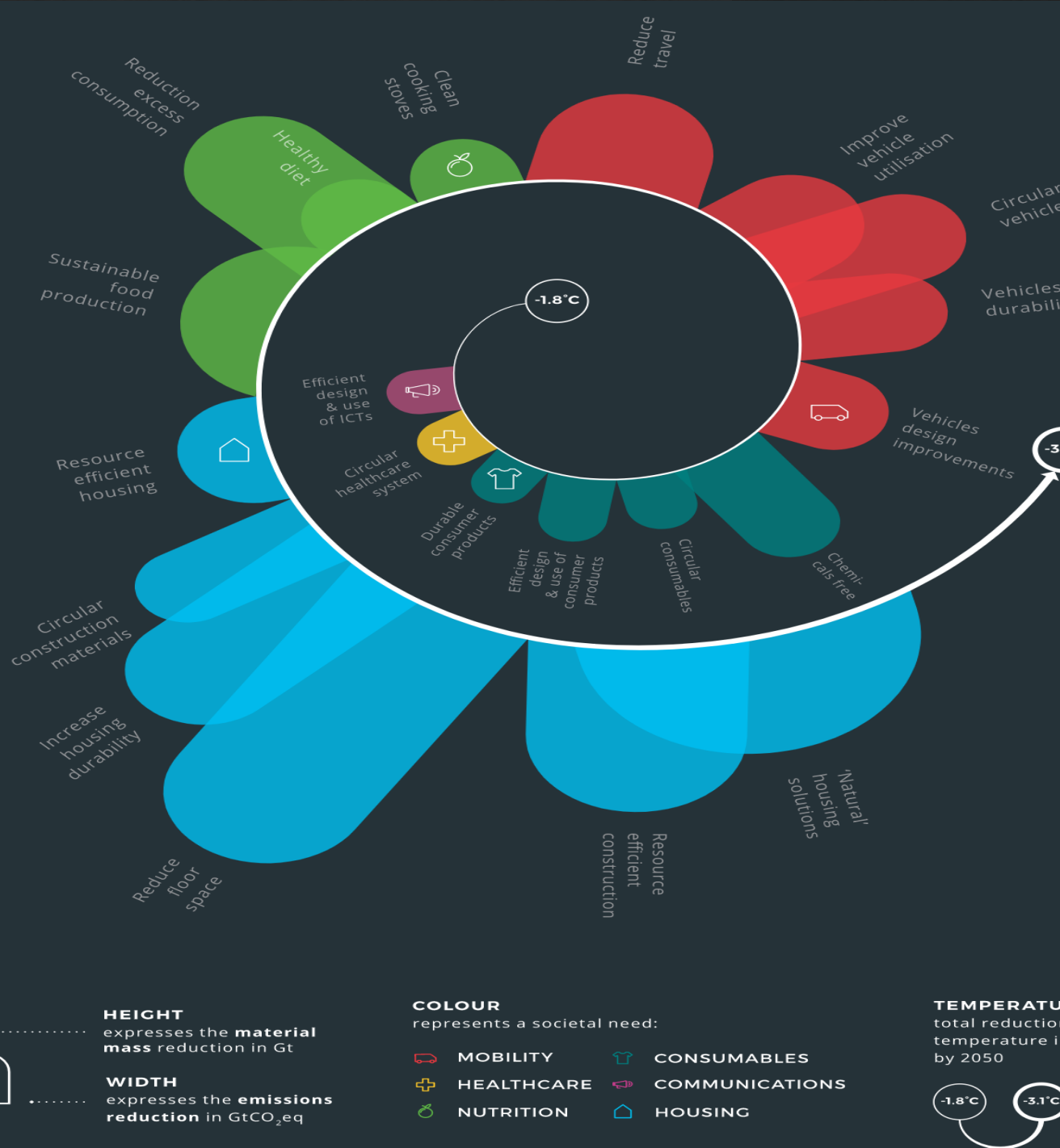
Based on cycled materials as share of
material consumption

Material inputs = minerals, fossil fuels,
metal ores, biomass

THE CIRCULARITY GAP REPORT

2020

When circularity goes from bad to worse:
The power of countries to change the game



Identifying solutions

For more see:
<https://www.circularity-gap.world/2021>

What role for trade policy?

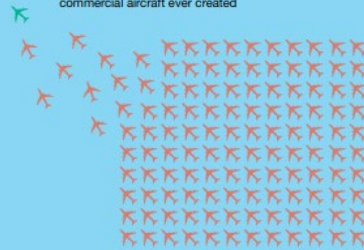
- ◆ Horizontal: work across government (trade, environment), build coherence. Accelerate intergovernmental collaboration. Direction, metrics, coherence
- ◆ Vertical: work on high-impact value chains where trade has a specific role

HOW MUCH E-WASTE DO WE GENERATE EVERY YEAR?

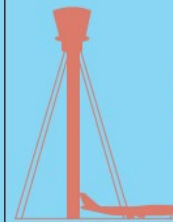
We produce 50 million
tonnes of e-waste a year
that is the equivalent of....

125,000

jumbo jets which is more than all the
commercial aircraft ever created



It would take Heathrow Airport
in London up to six months,
day in and day out, to clear that
many aircraft from its runways.

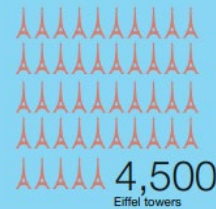


6 months

to clear the runways at Heathrow



This is an equivalent of almost
4,500 Eiffel towers.



4,500
Eiffel towers

Jam them all in one space,
side by side, and they
would cover an area the
size of Manhattan.

the size of
Manhattan



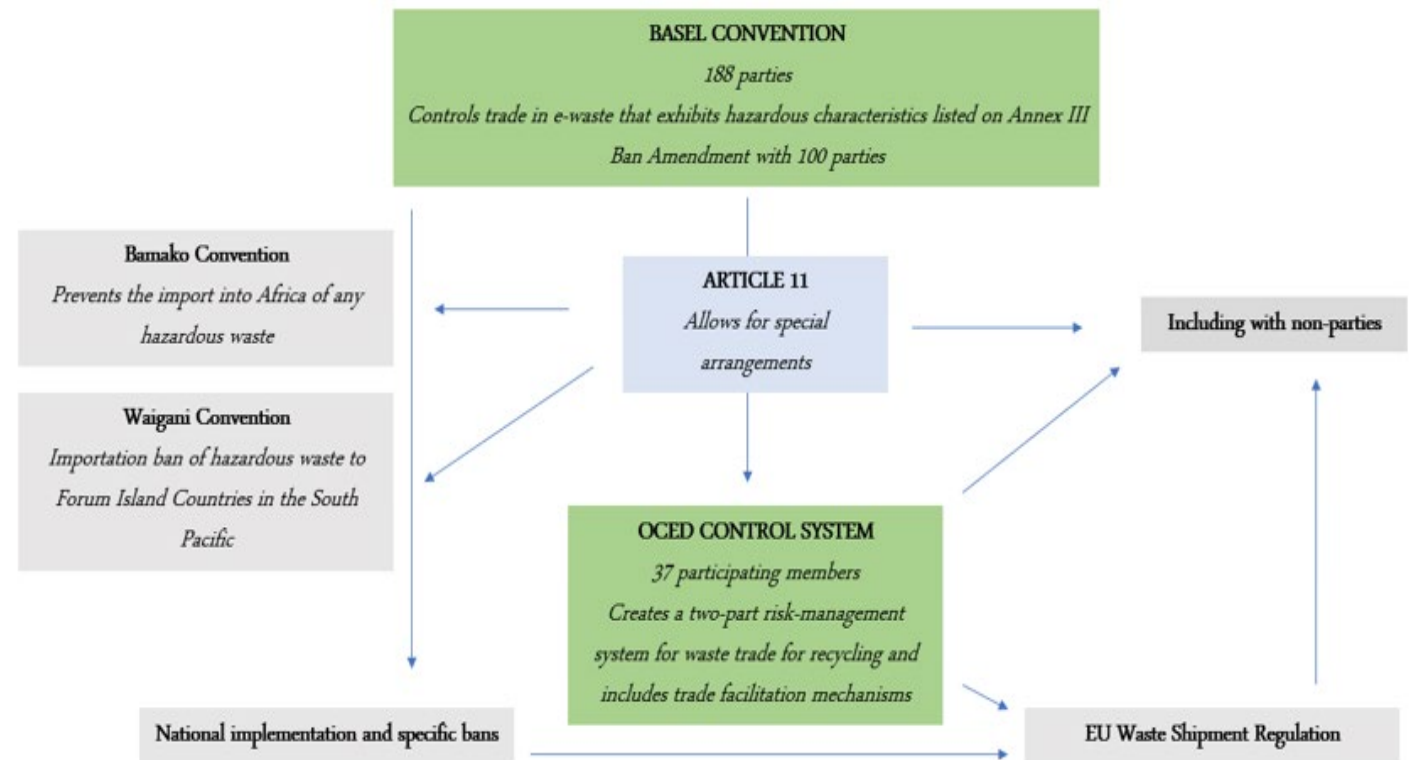
Opportunities?

- ◆ Creating a more circular economy for electronics could tap into about US\$57 billion in materials like iron, copper and gold; critical minerals for the clean energy transition
- ◆ 80% fewer emissions generated per unit of CO₂ from recycled gold compared to primary extraction
- ◆ New job creation potential



How do we make
circular electronics happen in practice?

Where e-waste recycling meetings trade



Discussion Paper

Practical Experiences with the Basel Convention: Challenges, Good Practice and Ways to Improve Transboundary Movements of E-Waste in Low and Middle Income countries

A Collaboration between PREVENT and StEP



Facilitating Trade Along Circular Electronics Value Chains

WHITE PAPER
SEPTEMBER 2020

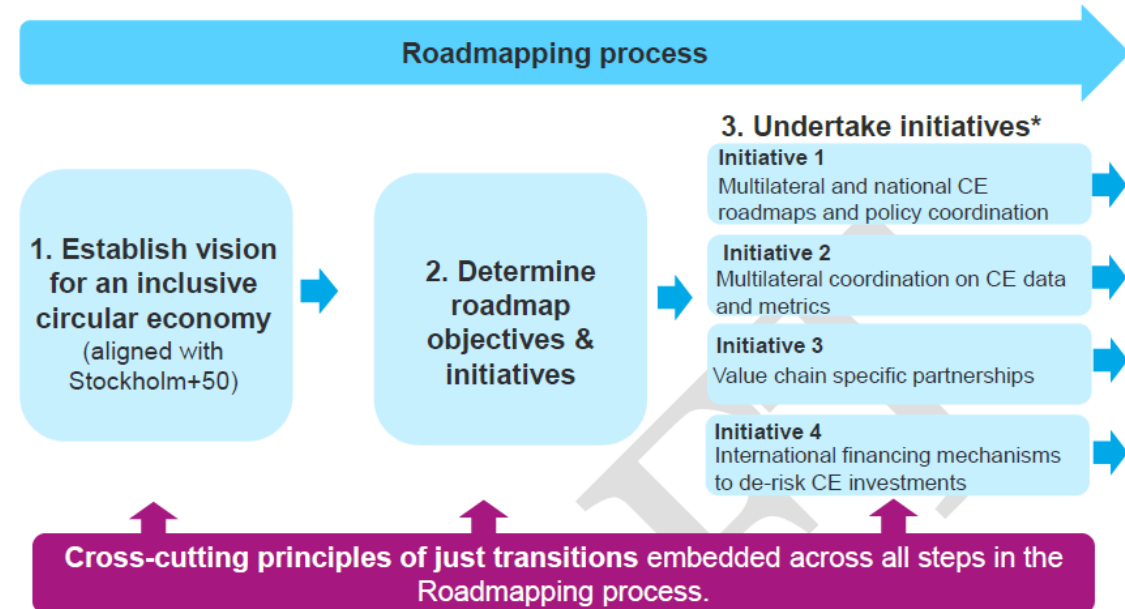


Solutions

- ◆ Better implementation of the Basel PIC procedure, including through digitalization. Forthcoming decision at the COP, may endorse pilot projects
- ◆ Explore green lane “Article 11” options bringing trade facilitation expertise to hazardous waste trade management (bilateral or regional arrangement)

Next steps

1. Stockholm+50
2. Basel Convention
3. World Circular Economy Forum
4. GACERE



* Initiatives presented were identified during international stakeholder workshops and provide a flavor of the type of initiatives that could sit under a global circular economy roadmap. The actual initiatives should be identified during more extensive and inclusive consultation processes as part of the formal roadmap development.

Figure 2: Conceptual framework for a Global Roadmap for an Inclusive Circular Economy