

CIFF transition pathway

The role of Carbon Circularity and CCU

2025/5

Tuomas Tikka

KEMIANTEOLLISUUS

Vastuullisuus/Tuomas Tikka




Over 350 member companies



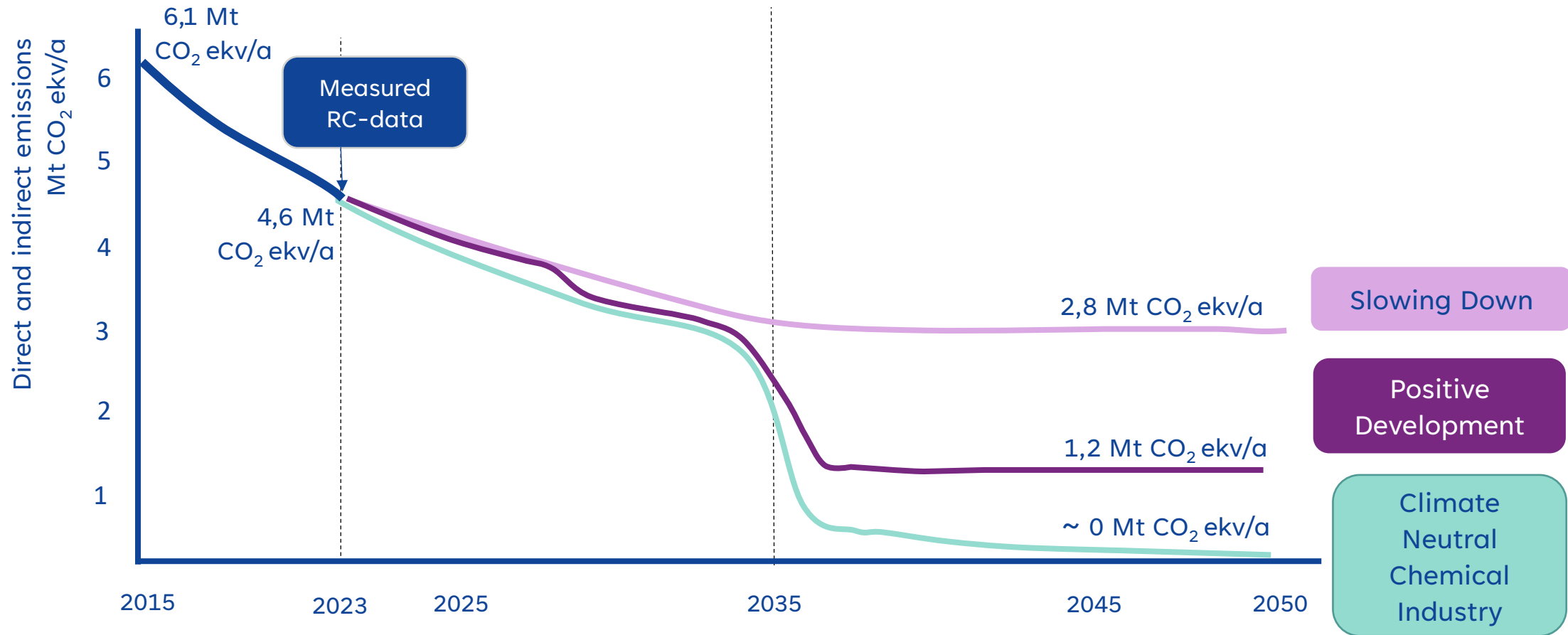
From process chemistry to lipsticks



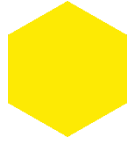
An aerial photograph of a lush green forest with a dark, winding river or stream cutting through it. The text is overlaid on the center of the image.

Our Aim Is a Nature Positive and Climate Neutral Chemical Industry in Finland

On the Pathway to Climate Neutrality: Direct Process Emission & Indirect Emission Reduction Scenarios



Climate Neutrality Requires Investments



Slowing Down

- No extra investments (annual baseline investments 1 bn/a)
- 5,7 TWh electricity
- 0,2 Mt hydrogen



Positive Development

- Additional investments +6 bn eur (cum)
- 14,7 TWh electricity
- 0,2 Mt hydrogen (clean)
- Raw material transition

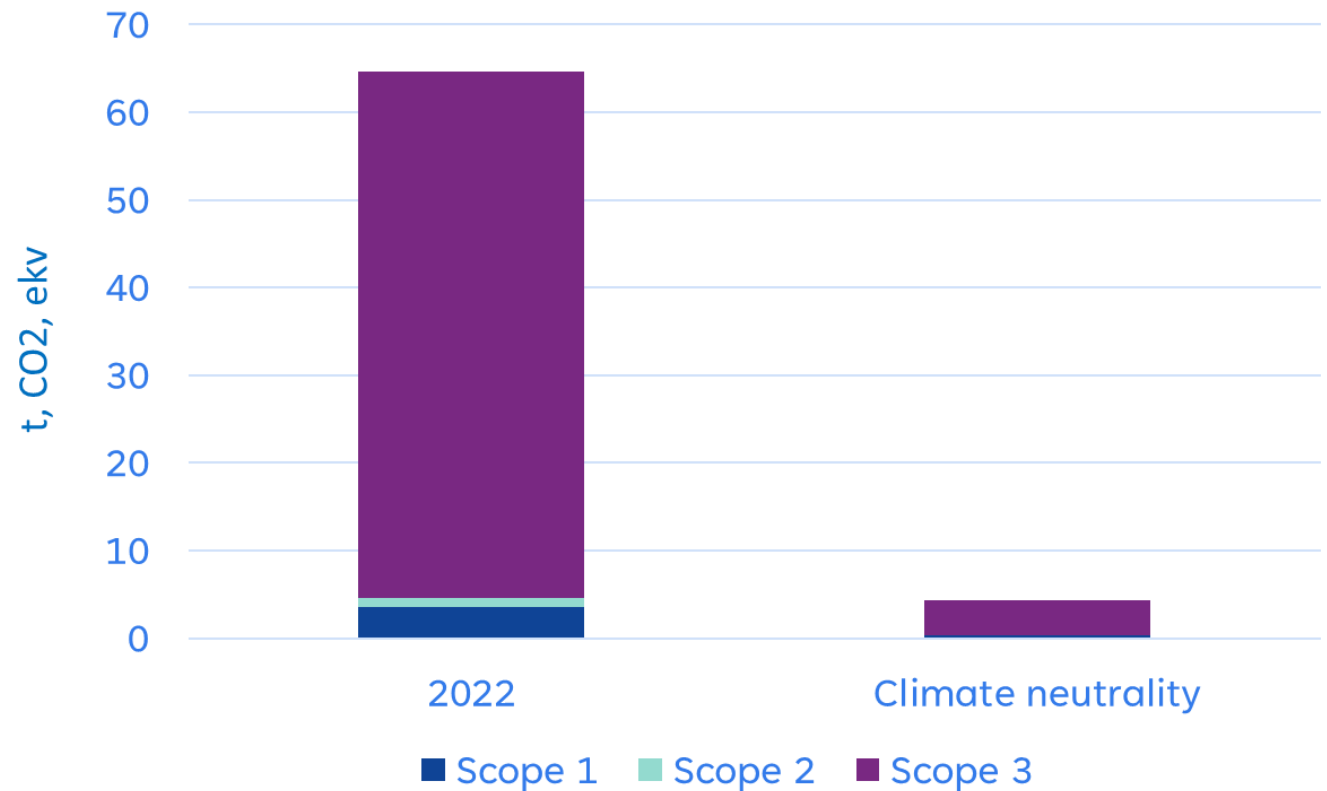


Climate Neutral Chemical Industry

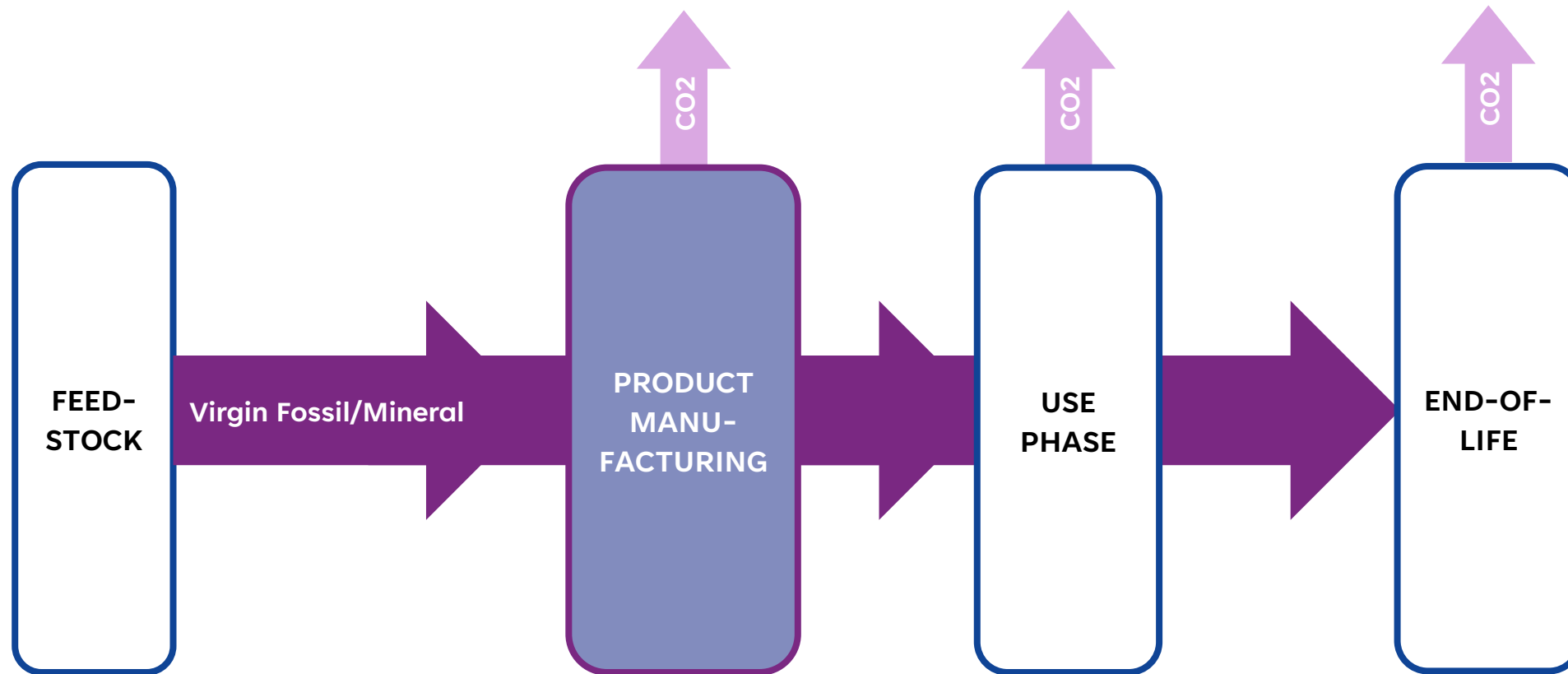
- Additional investments +8 bn eur (cum)
- 19,2 TWh electricity
- 0,2 Mt hydrogen (clean)
- Raw material transition

Key Transition Enablers: Raw Material Transition & Circular Economy

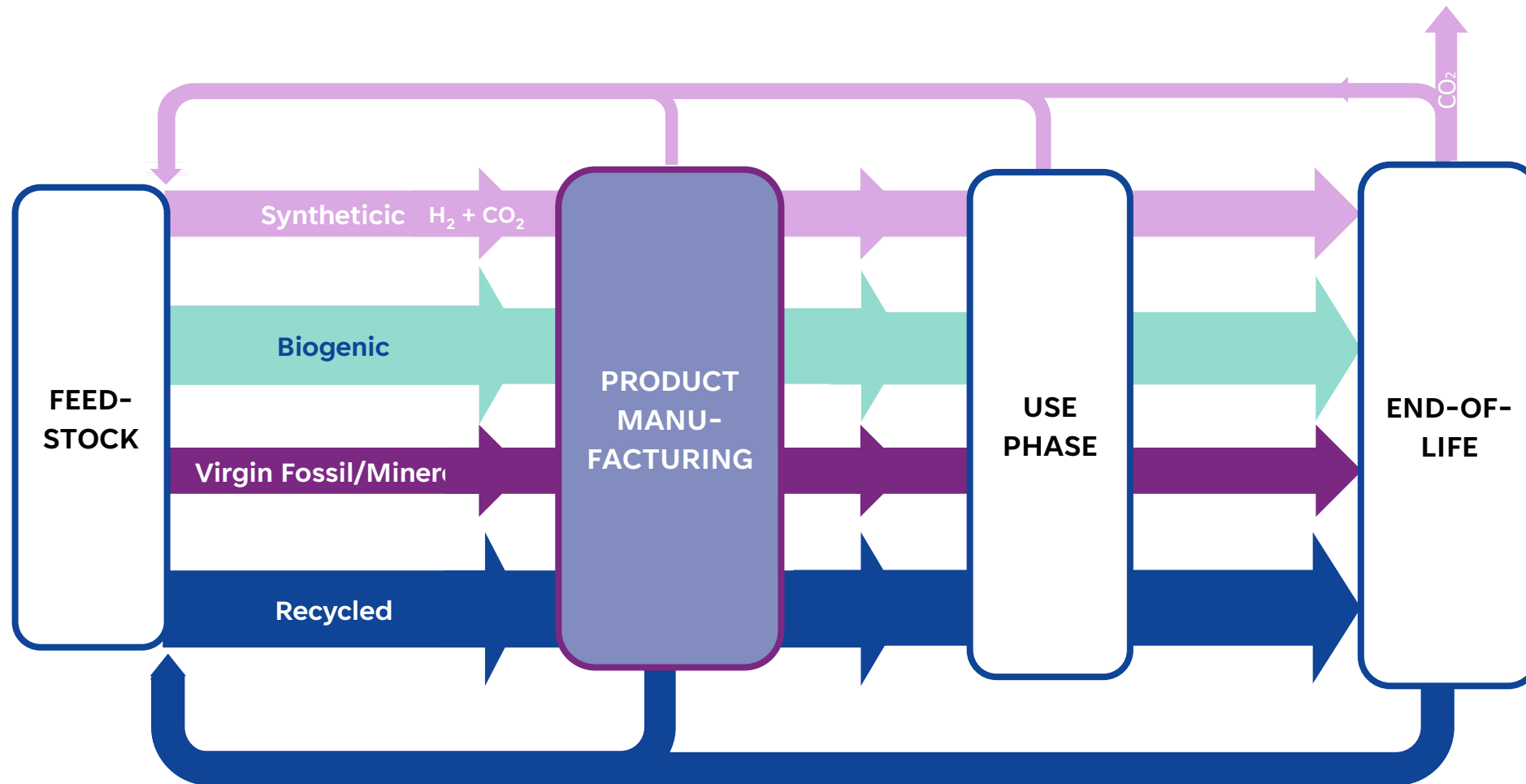
- Transition from fossil to alternative raw materials and energy reduces estimated Scope 3 emissions significantly.
- Impacts related to biodiversity and land use must be carefully evaluated due to increasing share of renewable raw materials.



We Must Evolve From Linear Economy...

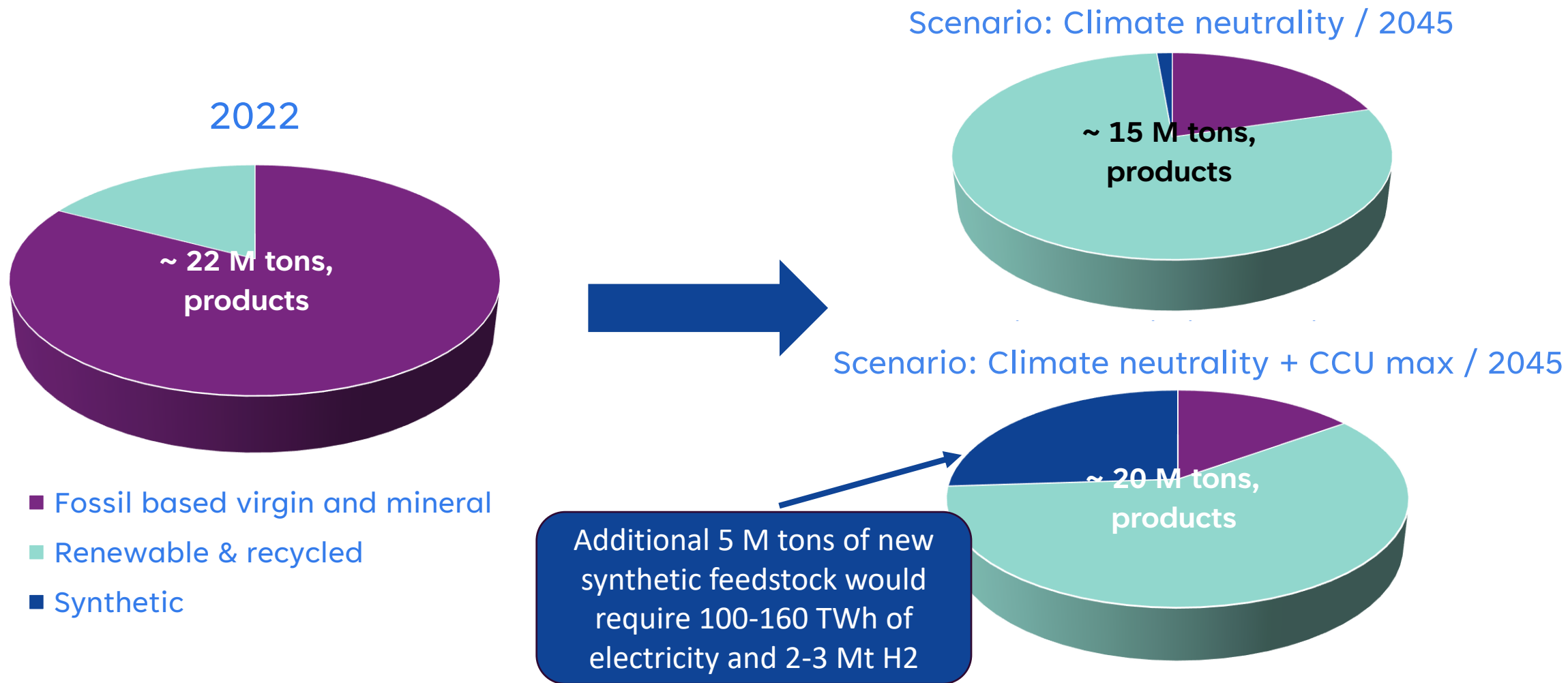


... to Circular Economy



Our Vision of the Raw Material Transition

Boundaries for synthetic raw materials



CIFF TOP3 messages to support circular carbon and CCU

- Legislation must recognize and support all alternative raw material sources (bio, recycled, syntehtic).
- Barriers to use alternative carbon sources like CCU-based carbon must be removed and incentives for the products need to be created
- Availability of clean, reliable, and affordable electricity will be crucial

For more information:



Tuomas Tikka

Chief advisor, Energy and climate

tuomas.tikka@kemianteollisuus.fi

+358 45 131 6683

 [@tuomas_tikka](https://twitter.com/tuomas_tikka)

[#ResponsibleCare](https://twitter.com/tuomas_tikka)

