

Kemianteollisuus murroksessa

Prosessiteollisuuden työpaja

2026/3

Tuomas Tikka

KEMIANTEOLLISUUS

Vastuullisuus/Tuomas Tikka



A trade association for the chemical industry and its closely related sectors

Over **350**
company members

14 association
members

Finnish **Bioindustries** FIB

The Finnish **Boatbuilders** Employers' Association

Finnish **Cosmetic and Hygiene Industry** Association

The Finnish **Crop Protection** Association

Recycling Industries of Finland

Employers' Association of Finnish **Goldsmiths**

The Association of Finnish **Leather and Shoe** Industries

Pharma Industry Finland

Association of the **Glass and Ceramic** Industry

The **Oil Product** Association

The Association of Finnish **Paint Industry**

Finnish **Plastics** Industries Federation

The **Rubber** Manufacturers' Association of Finland

Finnish **Battery Industries**

Over 350 member companies

KRATON

REKA
RUBBER

Santen

PENTIK®

BERNER

orthex
GROUP

PREMIX

BOREALIS
Keep Discovering

Terrafame

EKIN MUOVI

Jervois
FINLAND

Visko
Teepak

kemira

BAYER

NORNICKEL
HARJAVALTA

SOLENIIS

Sievi

ORION

NESTE

nokian
TYRES

YARA

PRIMO

CABB

FISKARS®

LUMENE

WIPAK

KUUSAKOSKI
RECYCLING

FORCIT

Chemigate

TEKNOS

TIKKURILA

BASF
We create chemistry

KULTAKESKUS
VUODESTA 1919 - SEDÄN 1919

The Art of Enzymes
roal

TEKNIKUM
Flexible technology

PIPELIFE

KiILTO

KEMIANTEOLLISUUS

From process chemistry to lipsticks

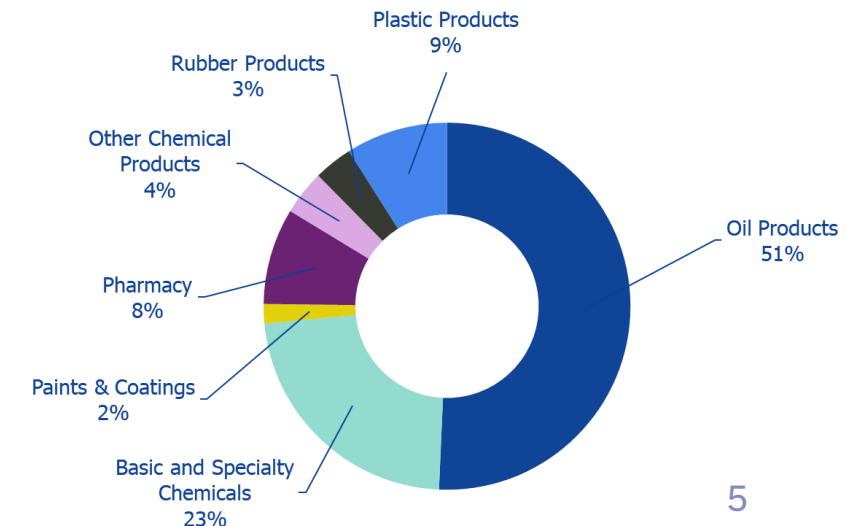


The Chemical Industry In Finland

- **Second Largest Export Sector**
- Turnover 31 billion € & exports 15 billion € (2023)
- Generates an **annual value-added of nearly 8 billion € in Finland.**
- 1 billion € in value-added in the chemical industry generates an additional value-added of 0.9 billion € in other sectors.
- 10 jobs in the chemical industry generate 18 jobs elsewhere in the economy. Directly and indirectly 100 000 jobs.
- R&D investments amount to around 450 million € each year.




Turnover in 2023



Transition Pathway

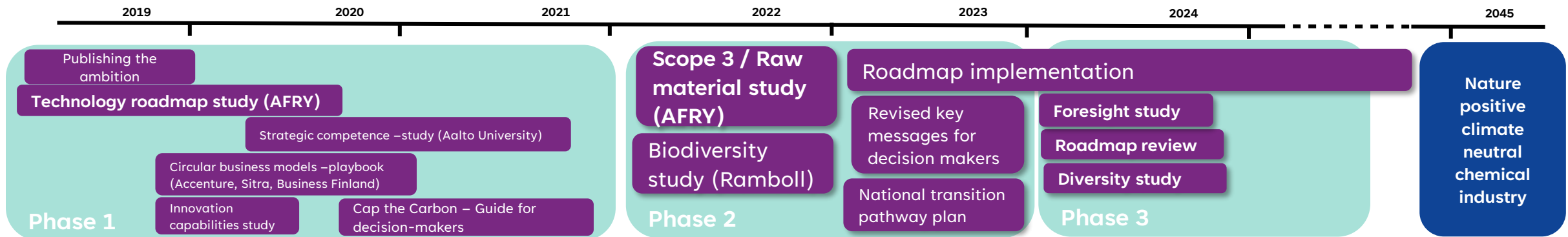


An aerial photograph of a lush green forest with a dark, winding river or stream cutting through it. The trees are dense and vibrant green, and the water is a deep, dark blue-black color. The overall scene is natural and serene.

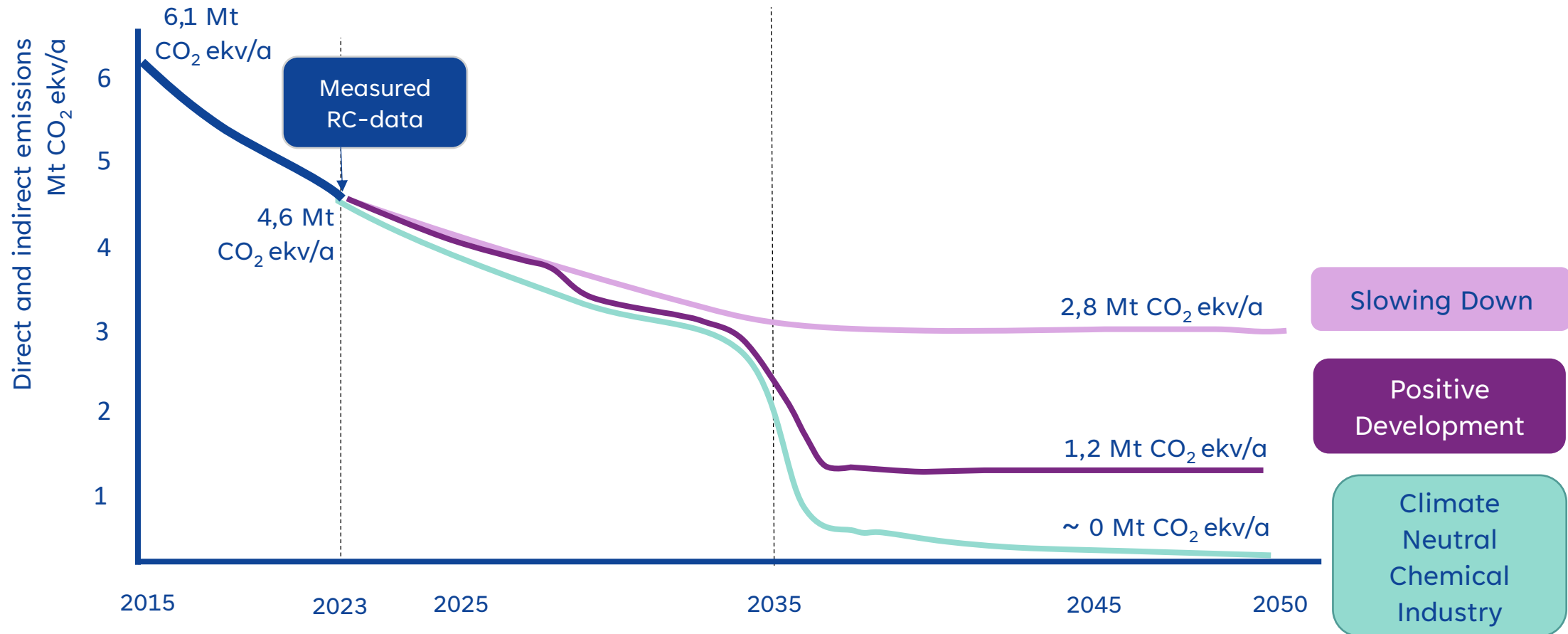
Our Aim Is a Nature Positive and Climate Neutral Chemical Industry in Finland

Our Transition in Finland Has Already Begun

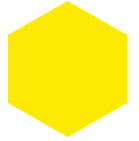
- Our key policy requests are based on our national Transition Pathway.
- We've followed our performance development through our [Responsible Care](#) indicators, provided by our member companies in the program since 1992.
- The chemical industry was the first sector in Finland to initiate its own [Climate & Low-Carbon Roadmap](#) work in 2019. The roadmap was revised in 2024.
- Now we add our work to the European Commission's Transition Pathway for the Chemical Industry, set in 2023.



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

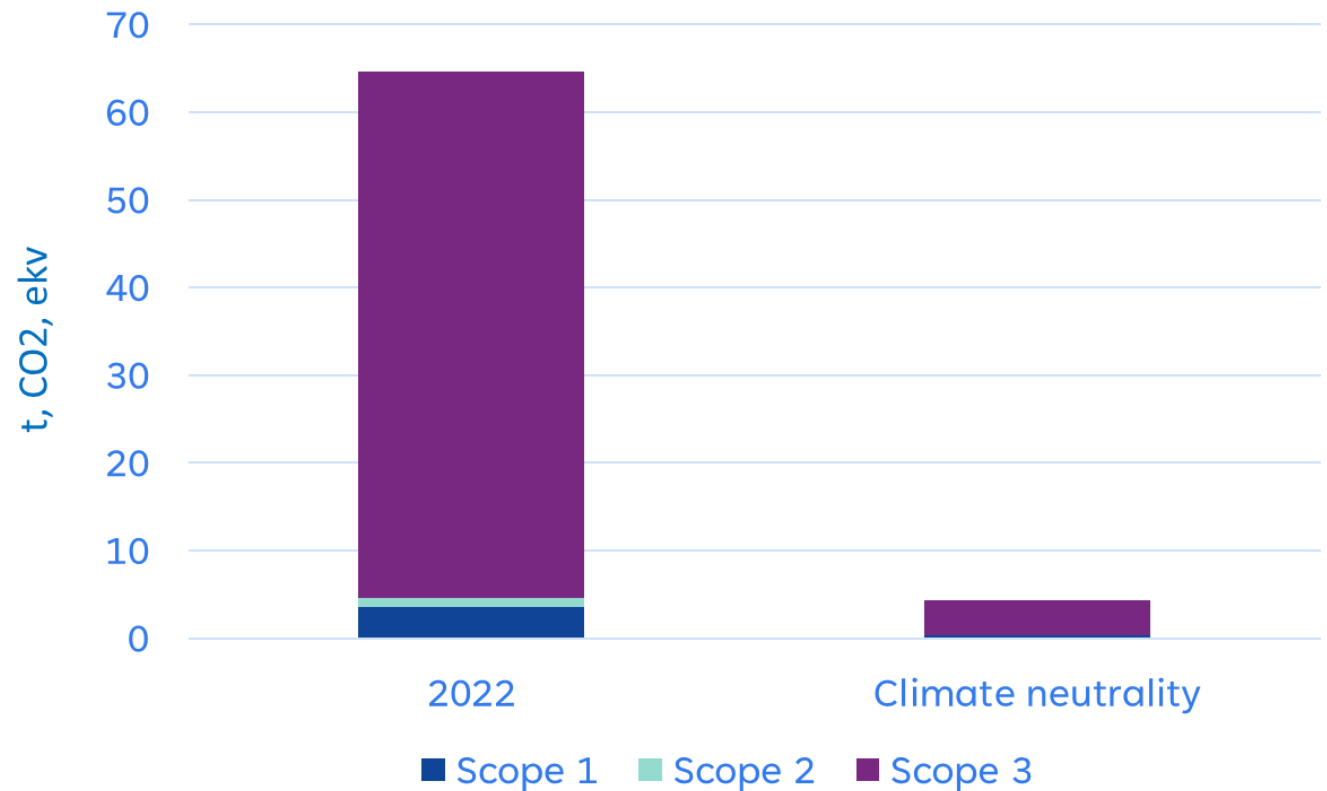


Climate Neutral Chemical Industry

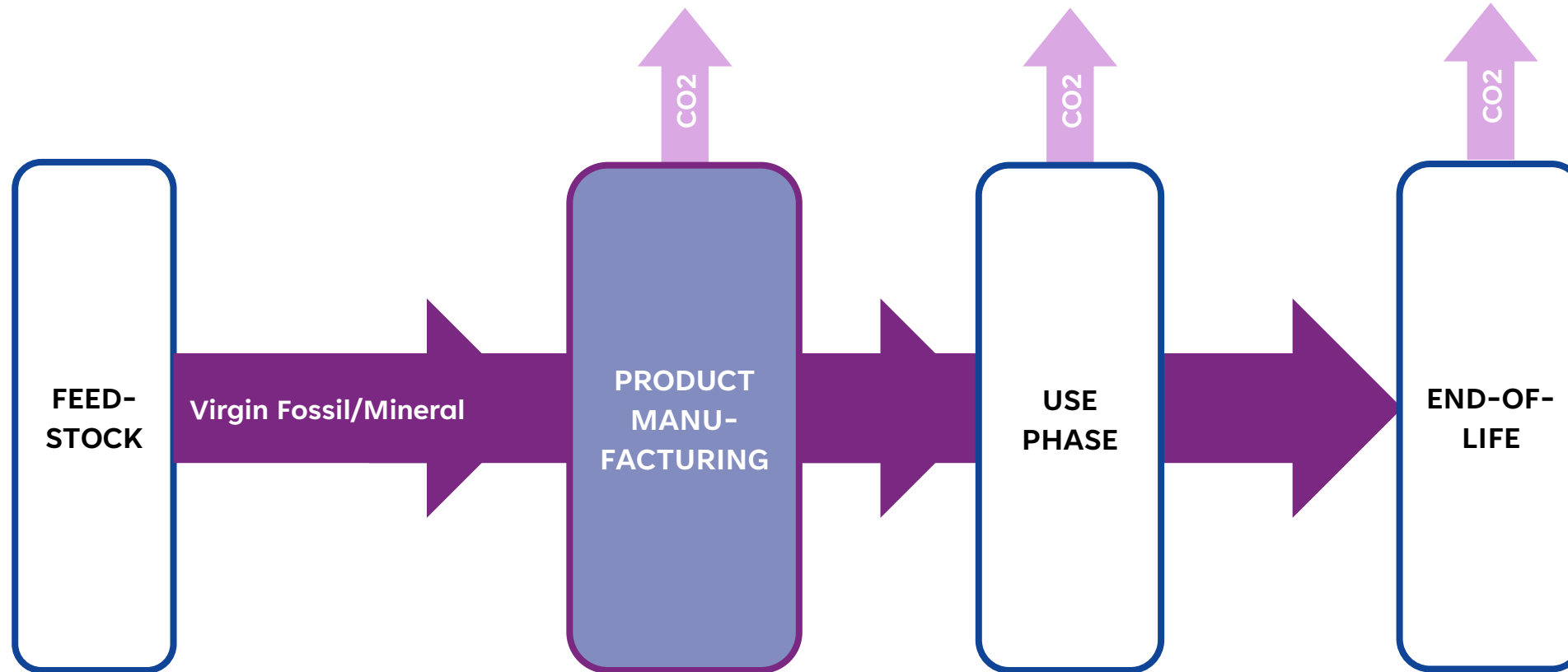
- Additional investments +8 bn eur (cum)
- 19,2 TWh electricity
- 0,2 Mt hydrogen (clean)
- Raw material transition

Key Transition Enablers: Raw Material Transition & Circular Economy

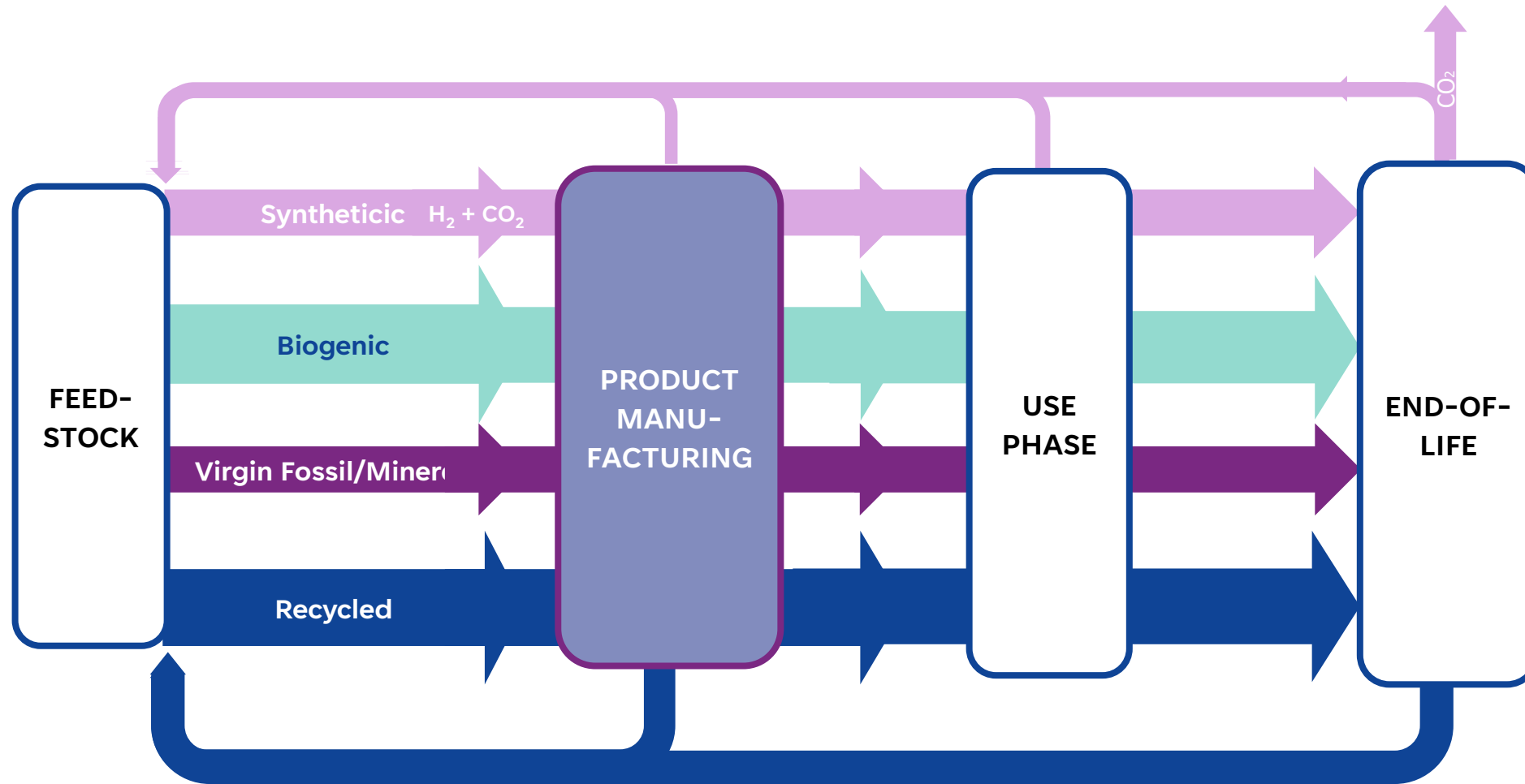
- Transition from fossil to alternative raw materials and energy reduces estimated Scope 3 emissions significantly.
- Impacts related to biodiversity and land use must be carefully evaluated due to increasing share of renewable raw materials.



We Must Evolve From Linear Economy...

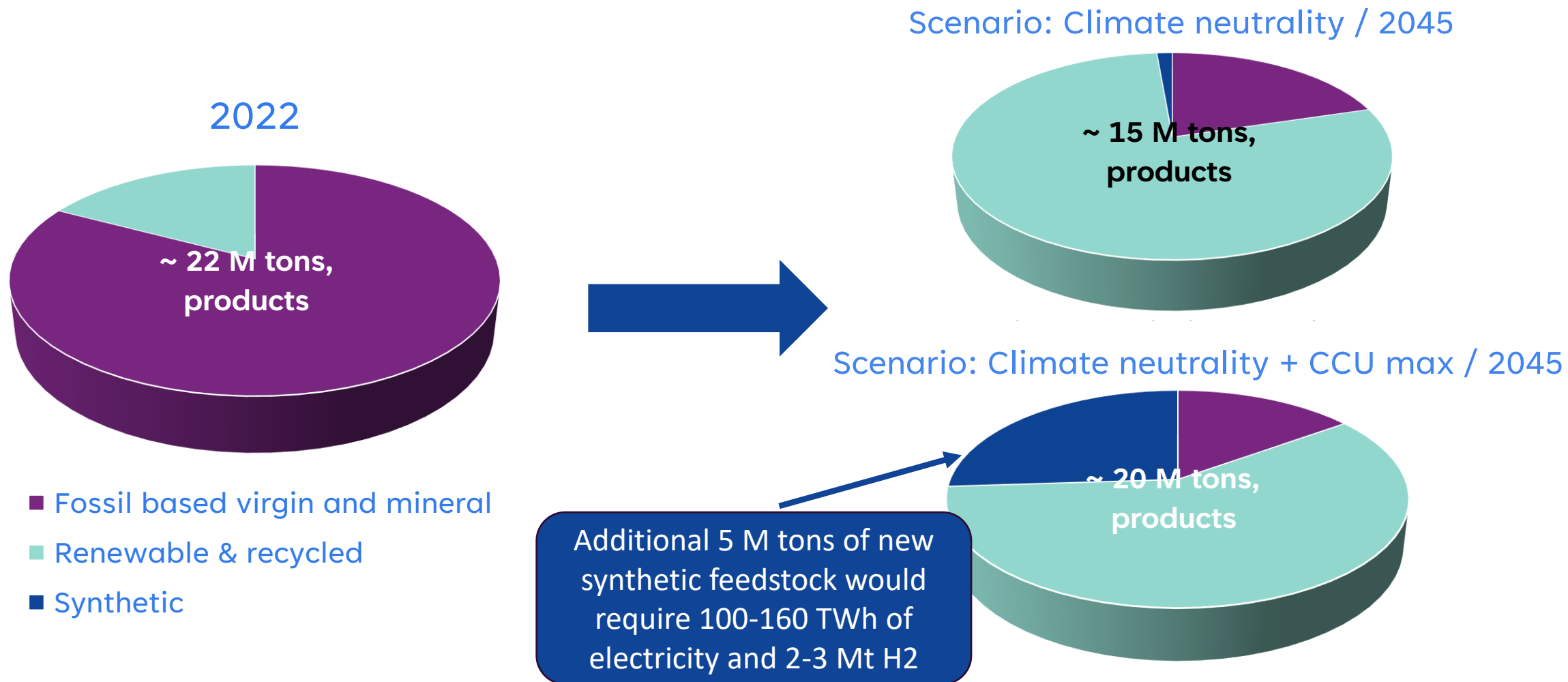


... to Circular Economy



Our Vision of the Raw Material Transition

Boundaries for synthetic raw materials



Case: Domestic ammonia production potential

- All ammonia is assumed to be imported in carbon neutral chemical industry scenario
- Estimated demand for clean/green ammonia—and thus domestic production potential—is at least 500 kt annually.
- Producing 500 kt of clean/green ammonia would require 80–90 kt of hydrogen and 3–5 TWh of electricity.

CIFF recommendations



Four investment waves are needed

1. Clean reliable electricity

2. Hydrogen economy and electrification investments

3. Hydrogen derivatives: Basic chemicals such as ammonia, methanol, and other synthetics

4. Climate friendly chemicals and other end products for domestic markets and export



CIFF messages on supporting raw material transition

- 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
- Infrastructure investments that support the transition will be essential

For more information:



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