

CARBON NEUTRAL CHEMISTRY 2045

KEMIANTEOLLISUUS




SUSTAINABLE
DEVELOPMENT
GOALS

3 GOOD HEALTH
AND WELL-BEING



4 QUALITY
EDUCATION



6 CLEAN WATER
AND SANITATION



7 AFFORDABLE AND
CLEAN ENERGY



8 DECENT WORK AND
ECONOMIC GROWTH



9 INDUSTRY, INNOVATION
AND INFRASTRUCTURE



12 RESPONSIBLE
CONSUMPTION
AND PRODUCTION

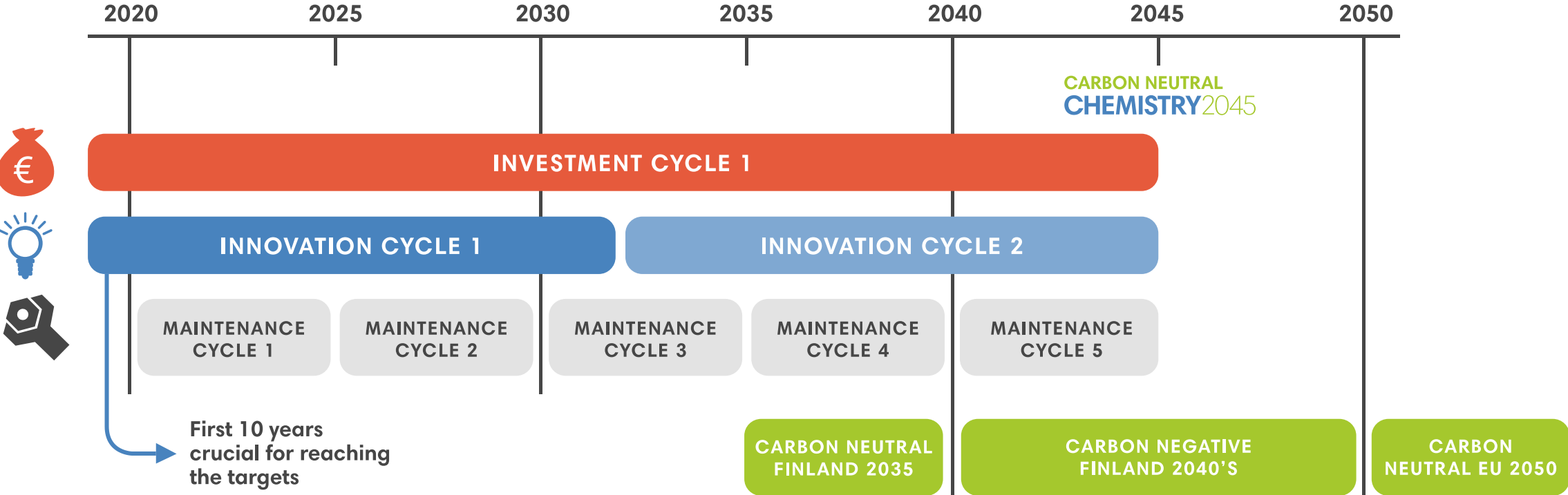


13 CLIMATE
ACTION

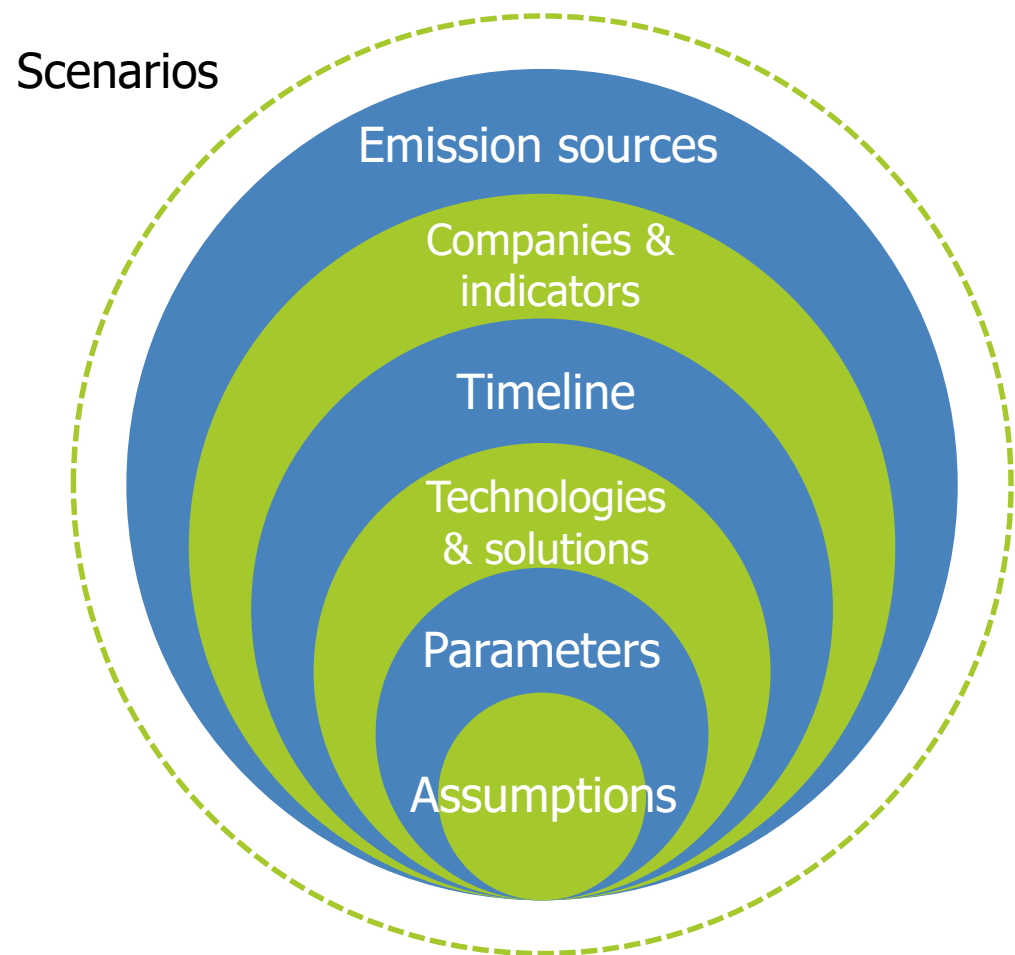


2045 is closer than expected

1 investment cycle – 2 innovation cycles – 5 maintenance cycles

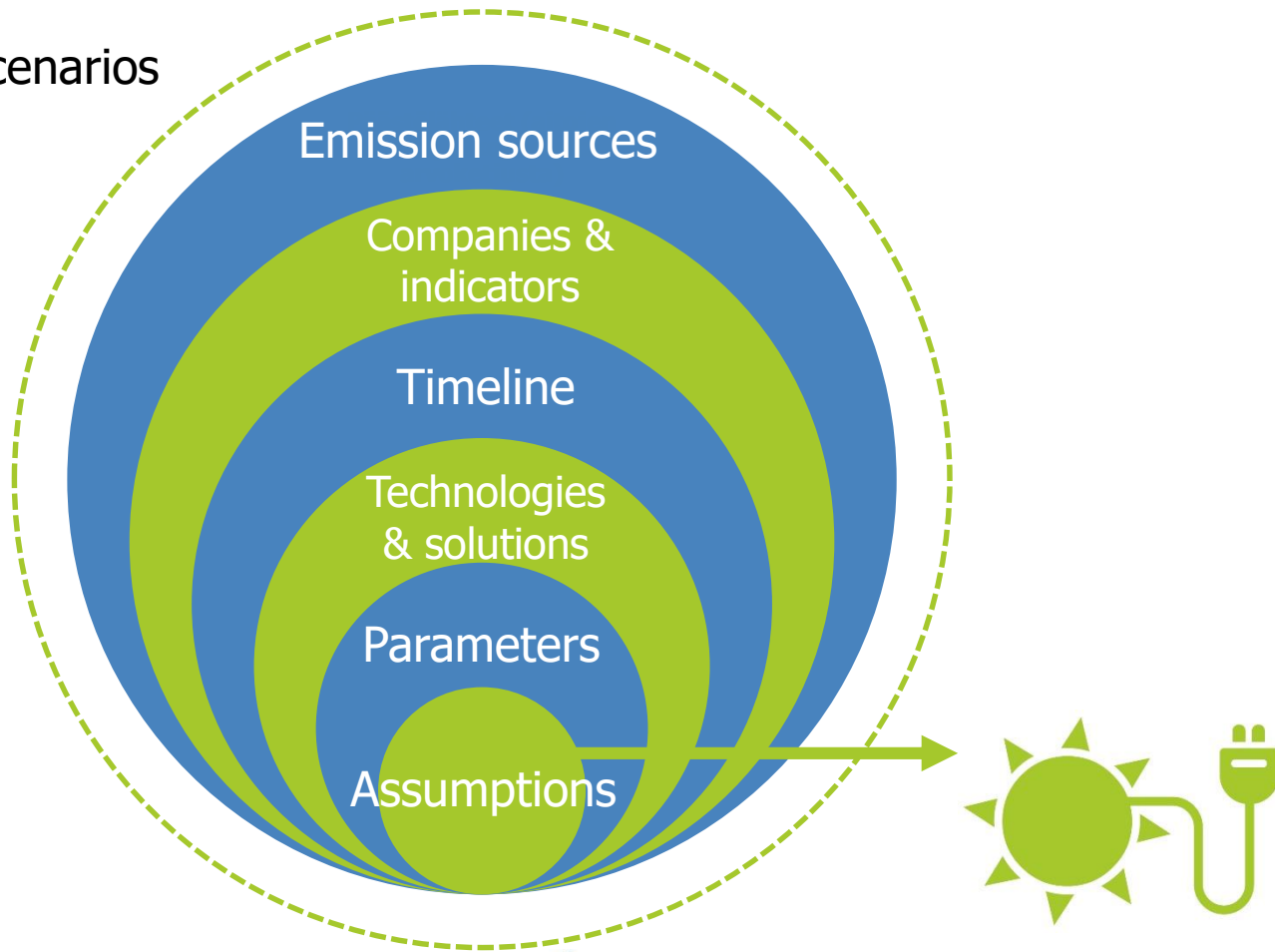


The roadmap - layer by layer

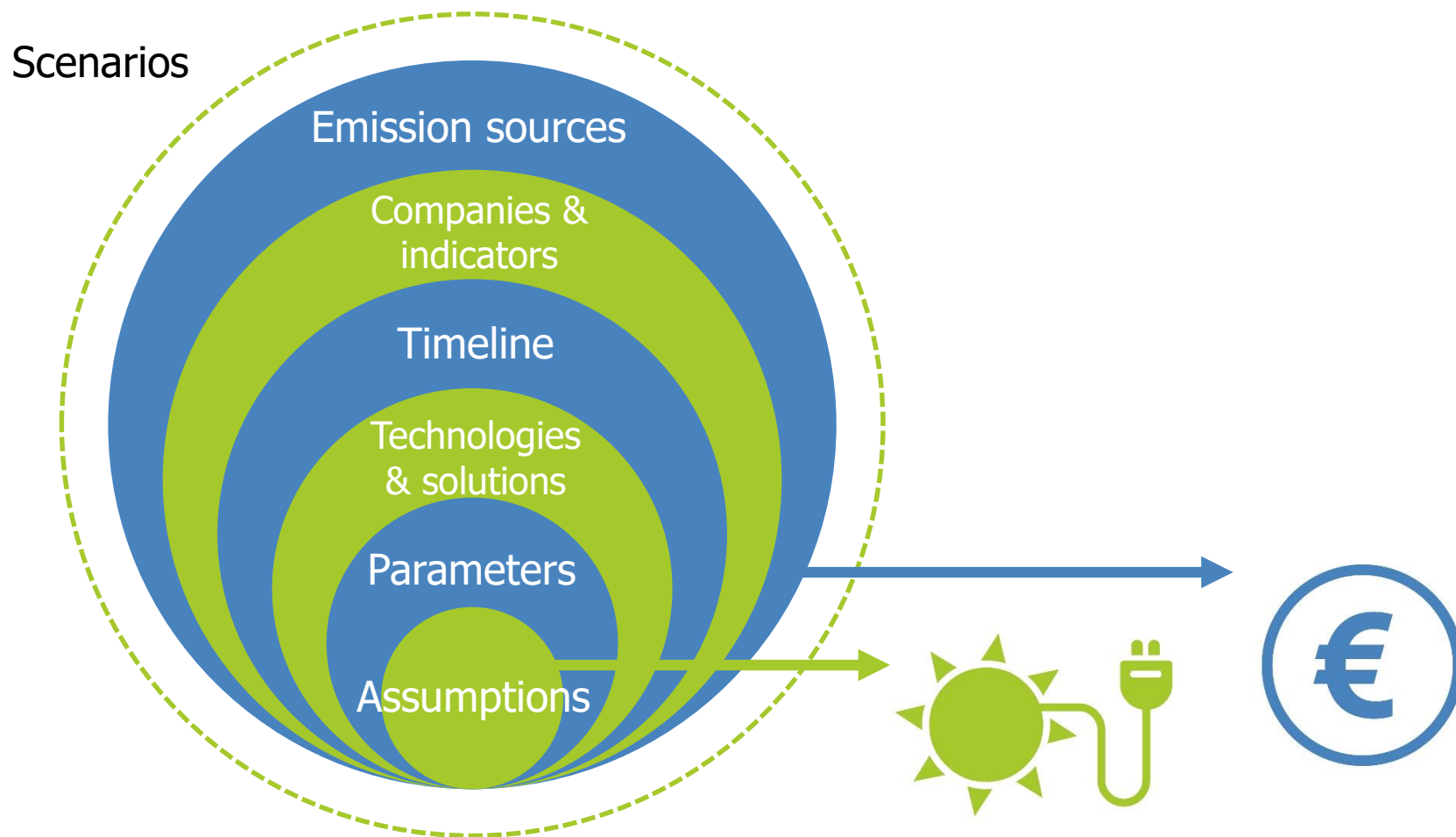


The roadmap - layer by layer

Scenarios

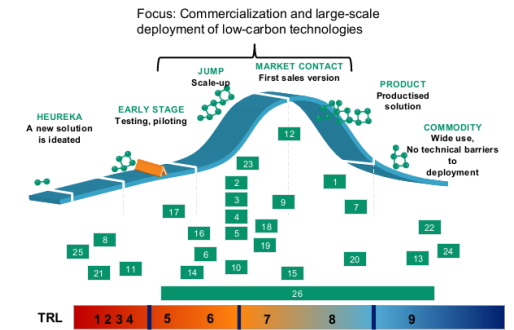
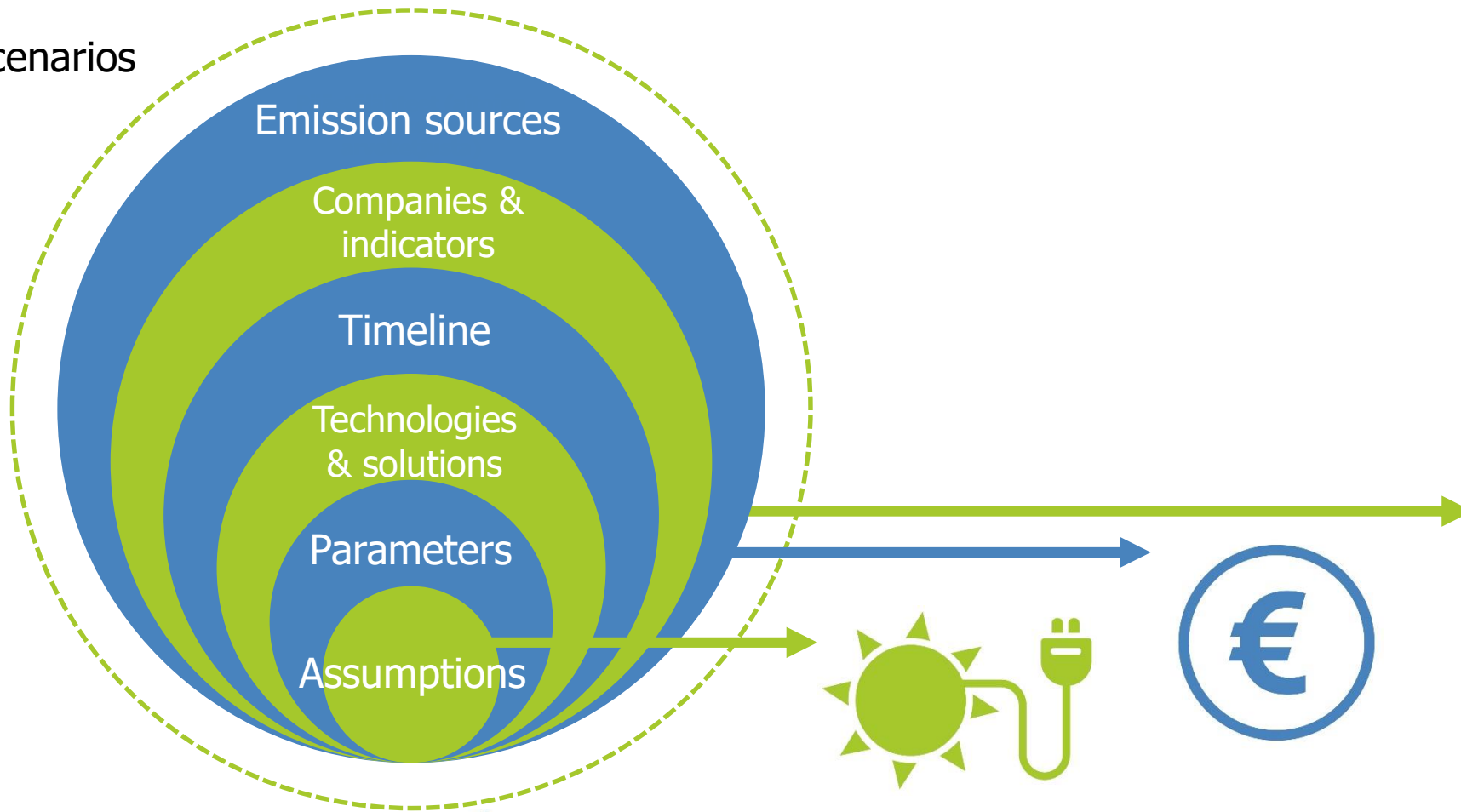


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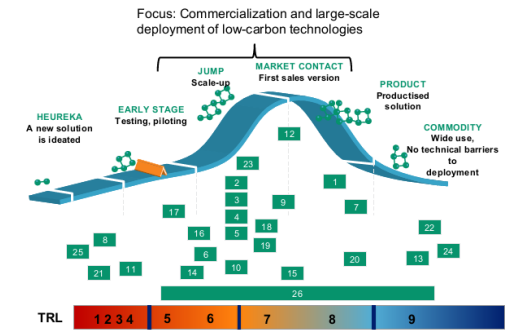
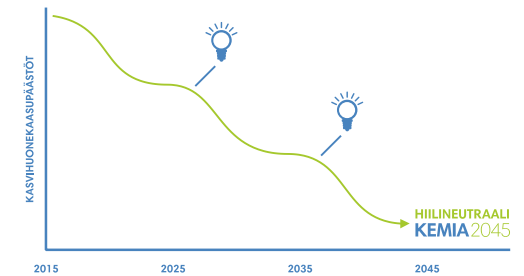
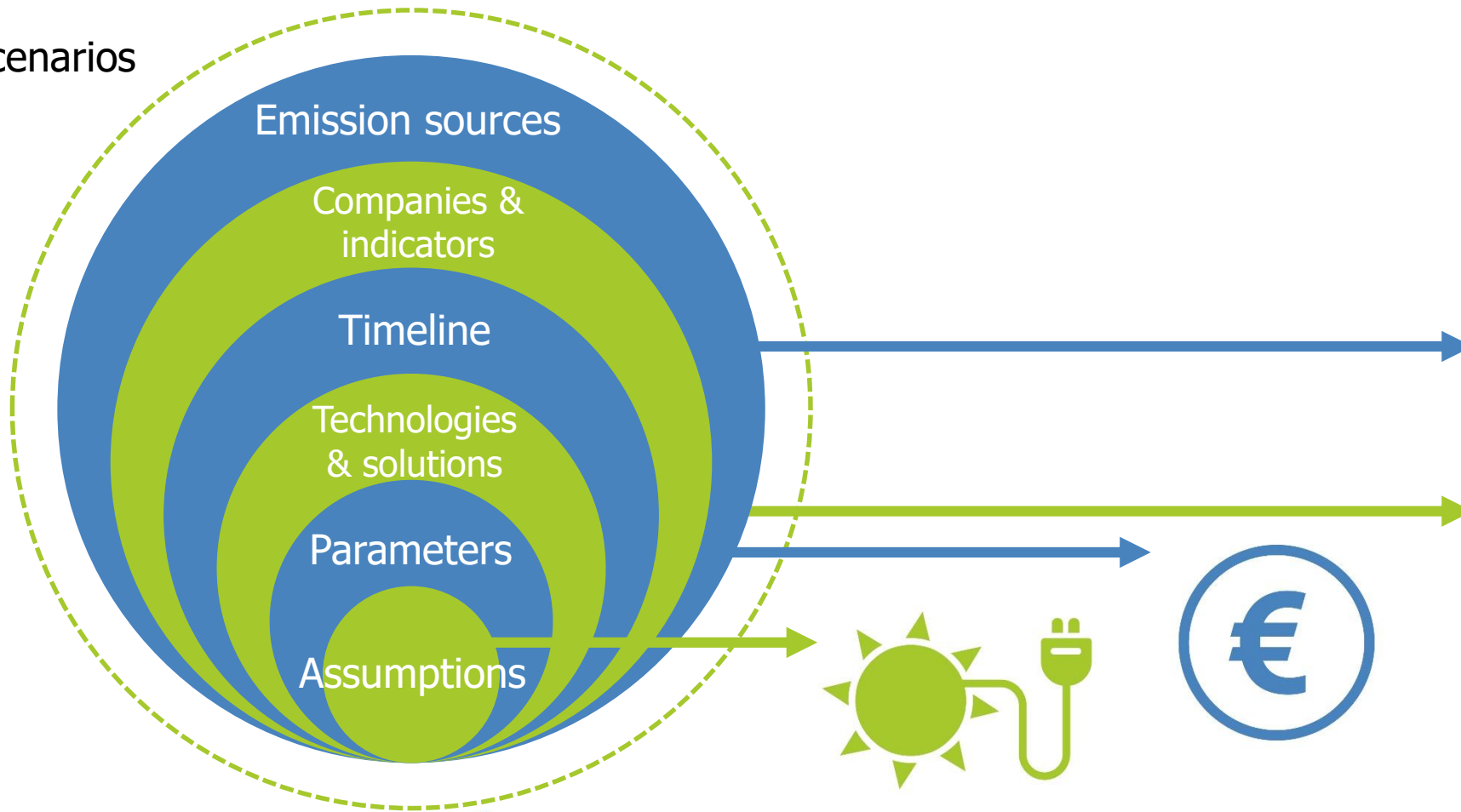
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Scenarios



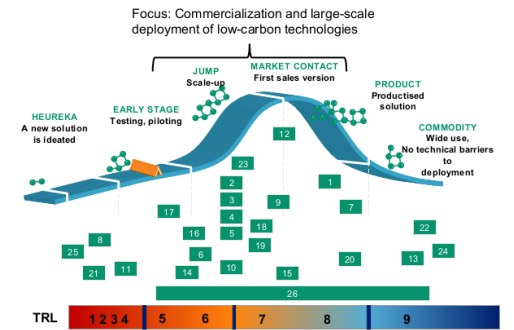
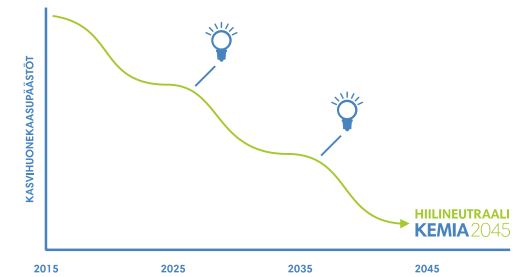
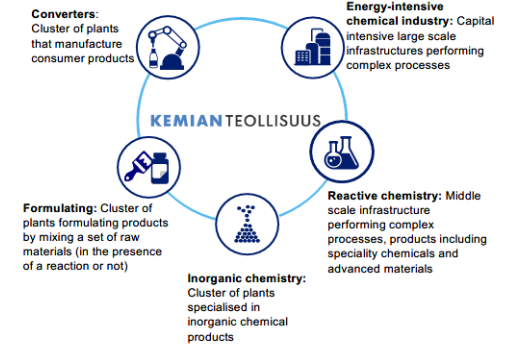
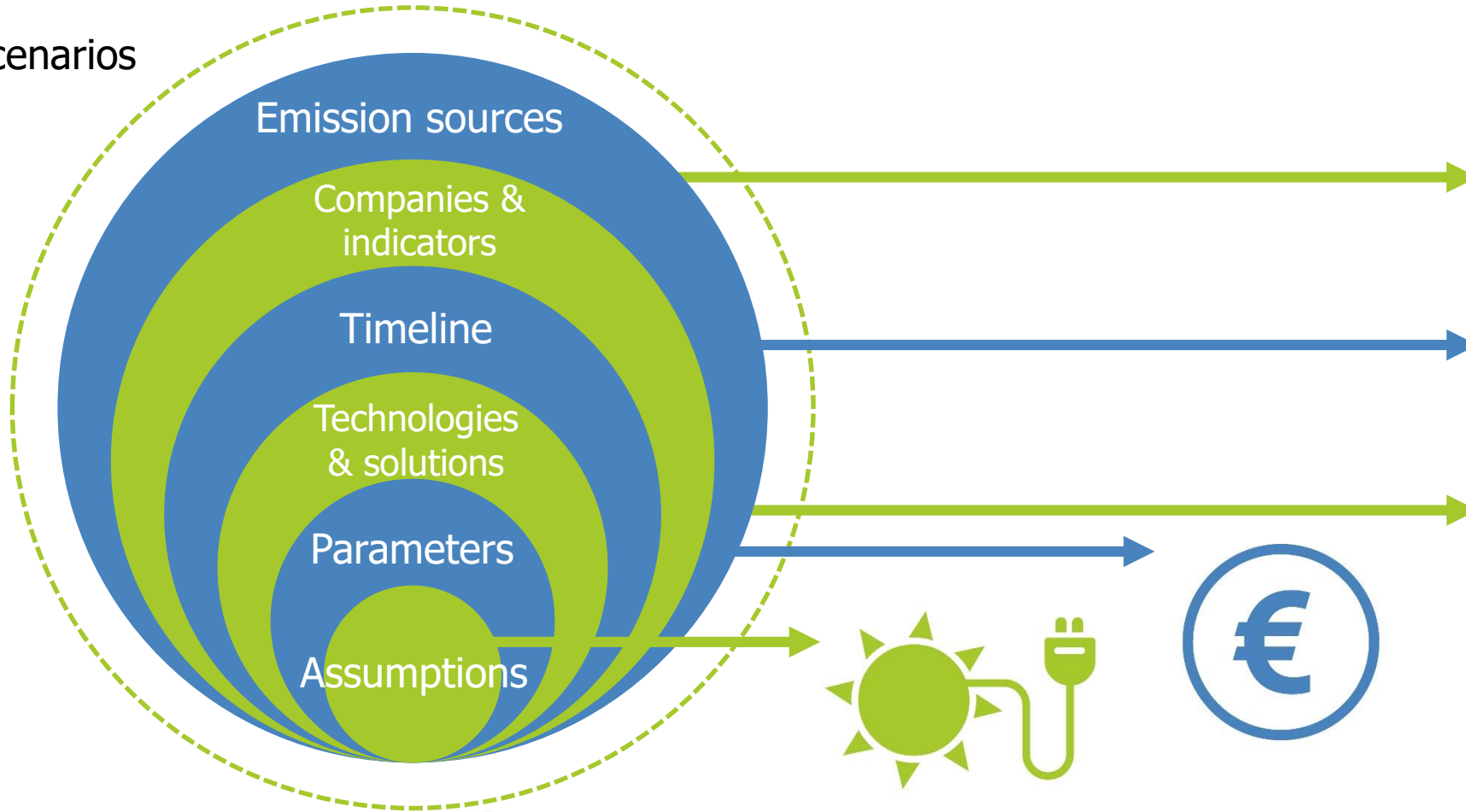
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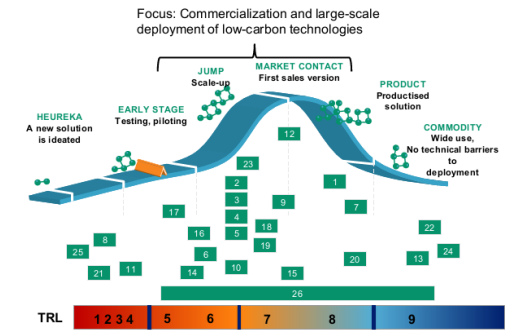
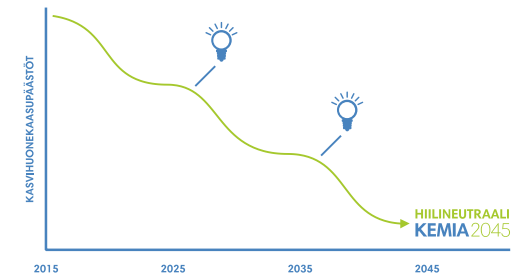
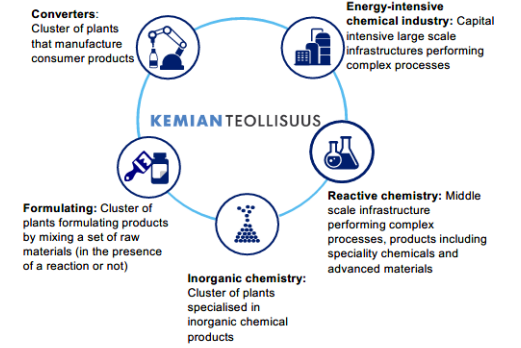
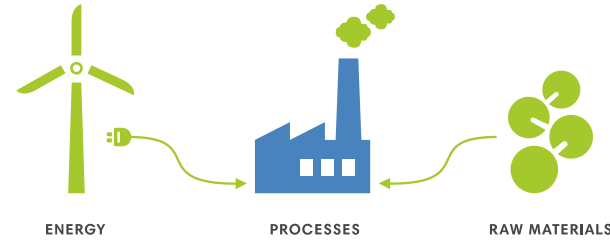
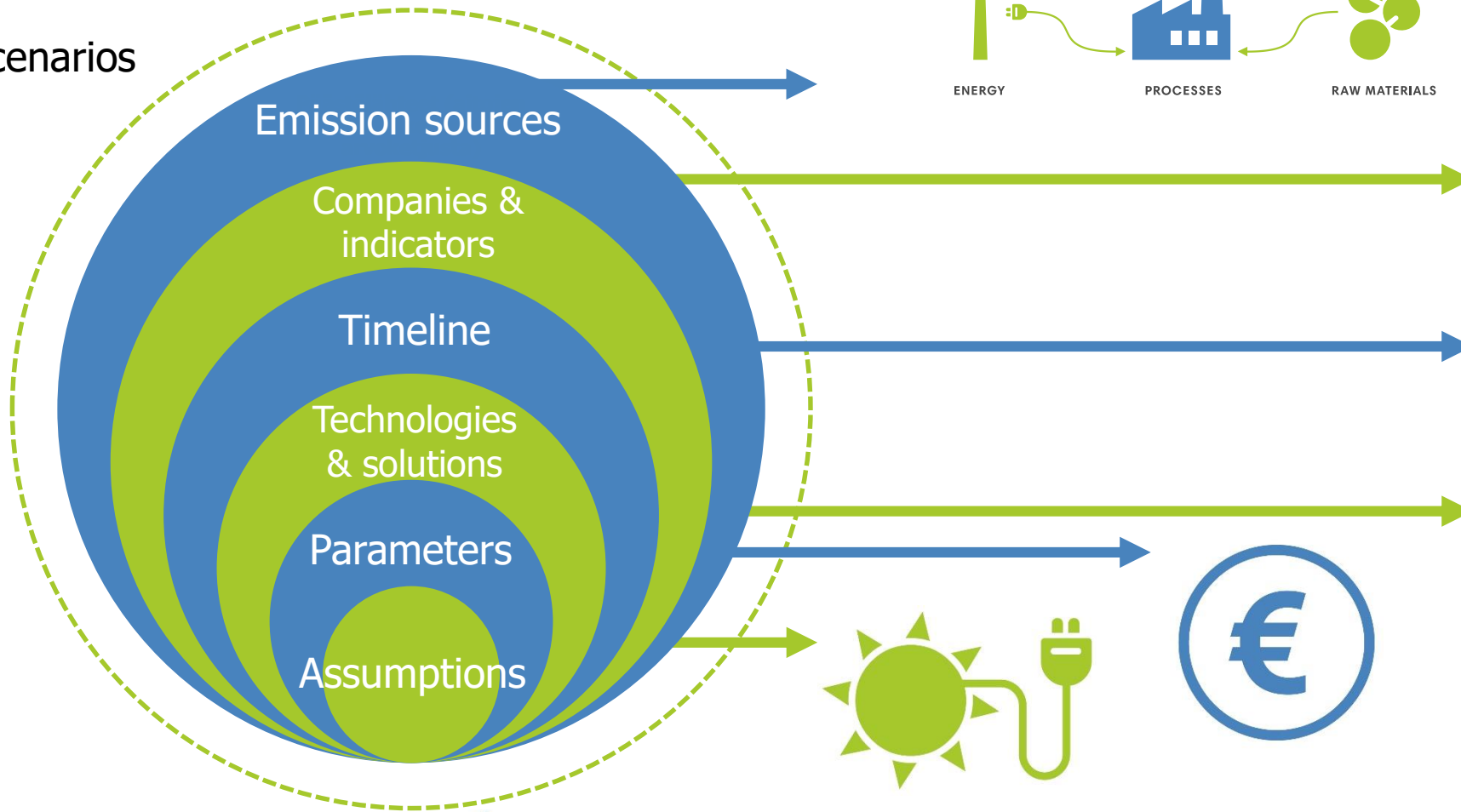
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Scenarios



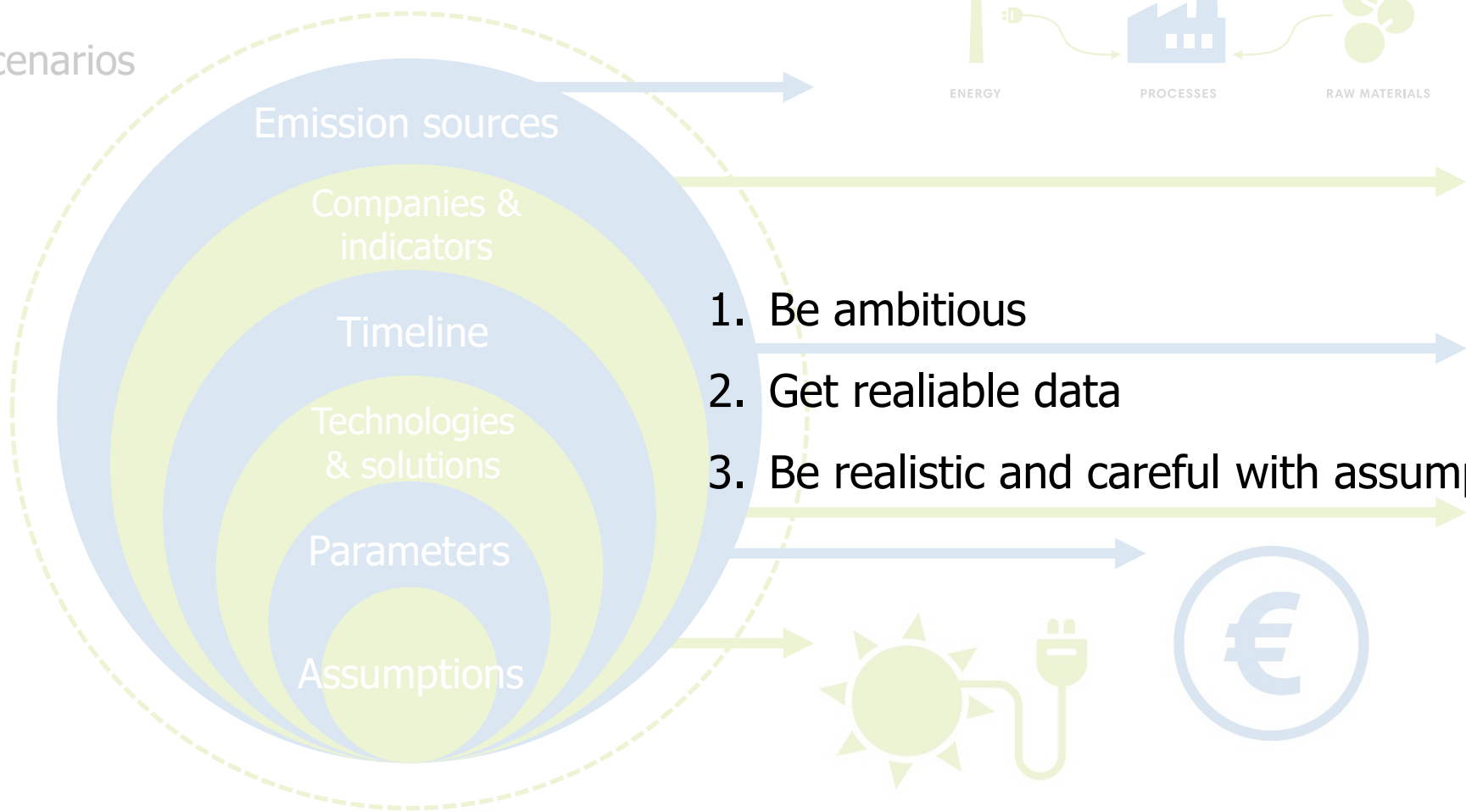
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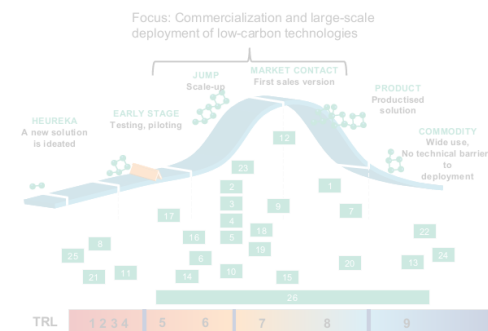
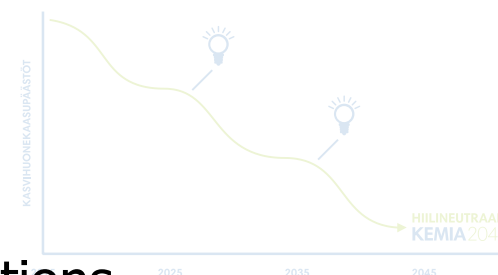
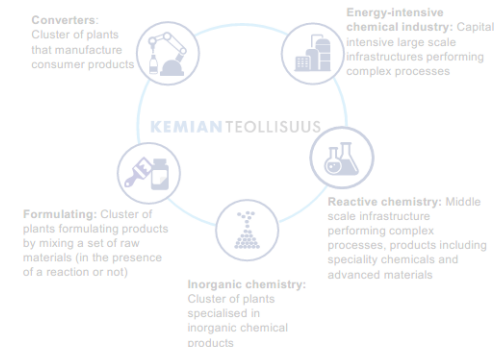
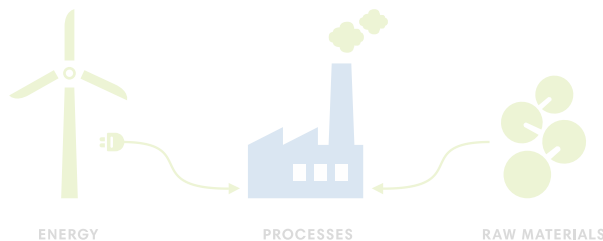


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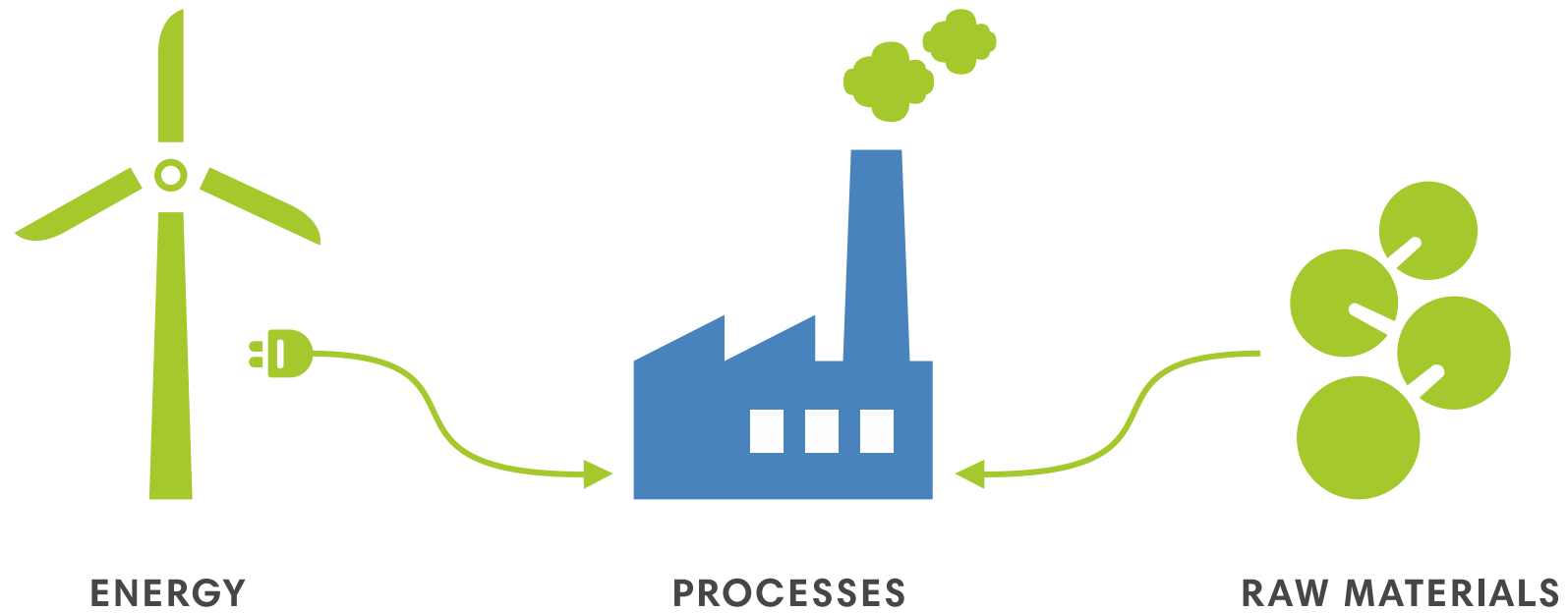
Scenarios



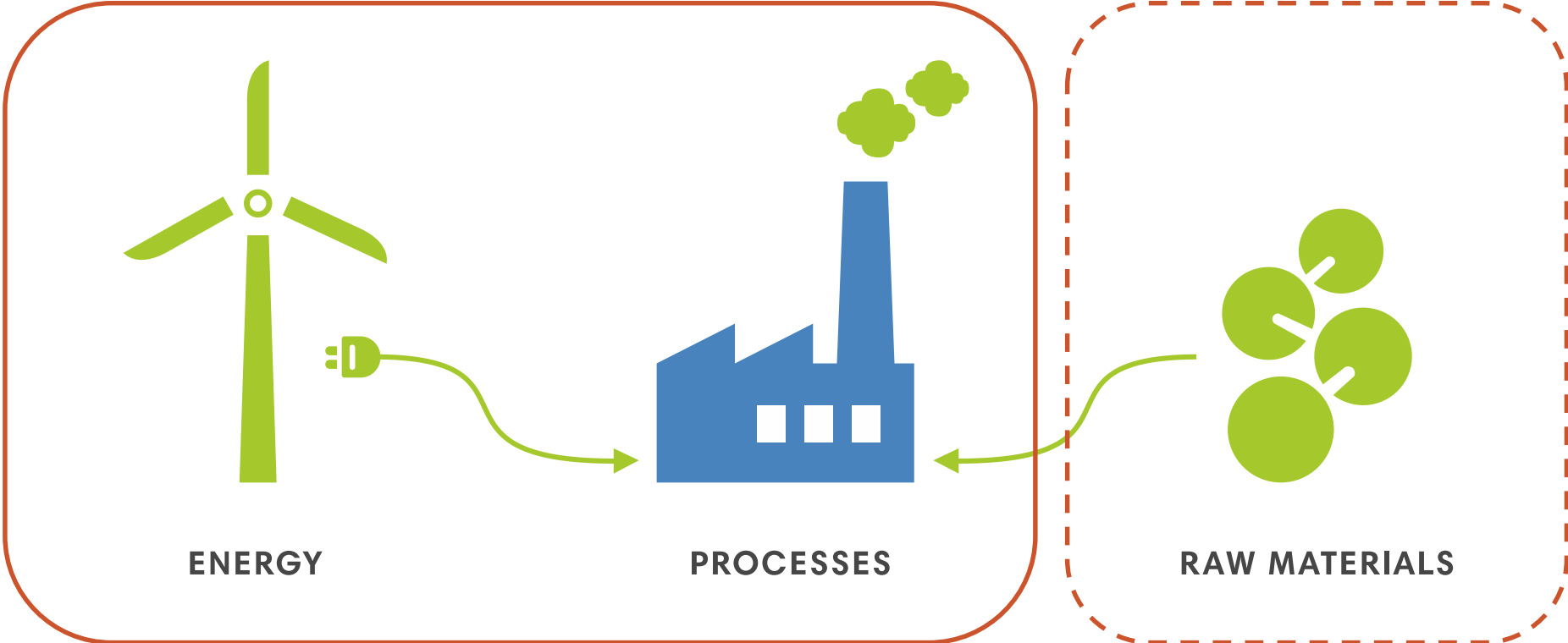
1. Be ambitious
2. Get reliable data
3. Be realistic and careful with assumptions



Roadmap focus






Roadmap focus

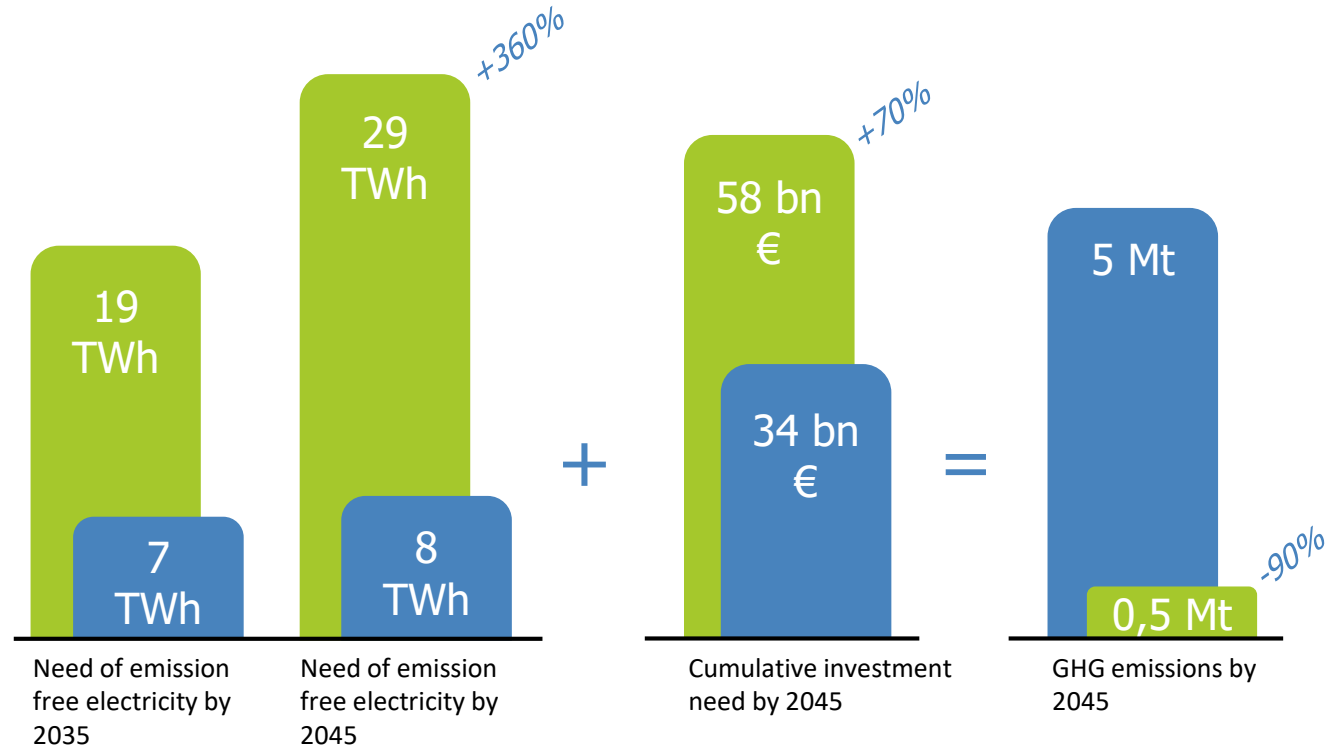


Part1: process and energy emissions (Scope 1 & 2)

Part2: raw materials (Scope 3)

Preliminary results: challenges and opportunities

1. 
2. 
3. 



Business as usual vs Carbon neutrality

Companies increasing ambition

12 March 2020

Neste sets an ambitious target for carbon neutral production by 2035

Published in Releases and news under Climate change, Sustainability
 ● emissions, sustainability, GHG, climate, carbon neutral



KEMIAN TEOLLISUUS



Kemira raises its climate ambition to carbon neutrality by 2045

Kemira Oyj
 Press Release
 February 11, 2020, at 8:35 am (CET+1)

Kemira raises its climate ambition to carbon neutrality by 2045

Kemira joins the growing ranks of global companies aiming for carbon neutrality and supporting the Paris Agreement.

Kemira has set a target of 30% reduction in combined so-called Scope 1 and Scope 2 greenhouse gas (GHG) emissions by 2030, from the 2018 baseline of 0.93 MTCO₂e. The long-term ambition is to be carbon neutral across the whole company by 2045 for combined scope 1 and 2 emissions.

01.02.2019

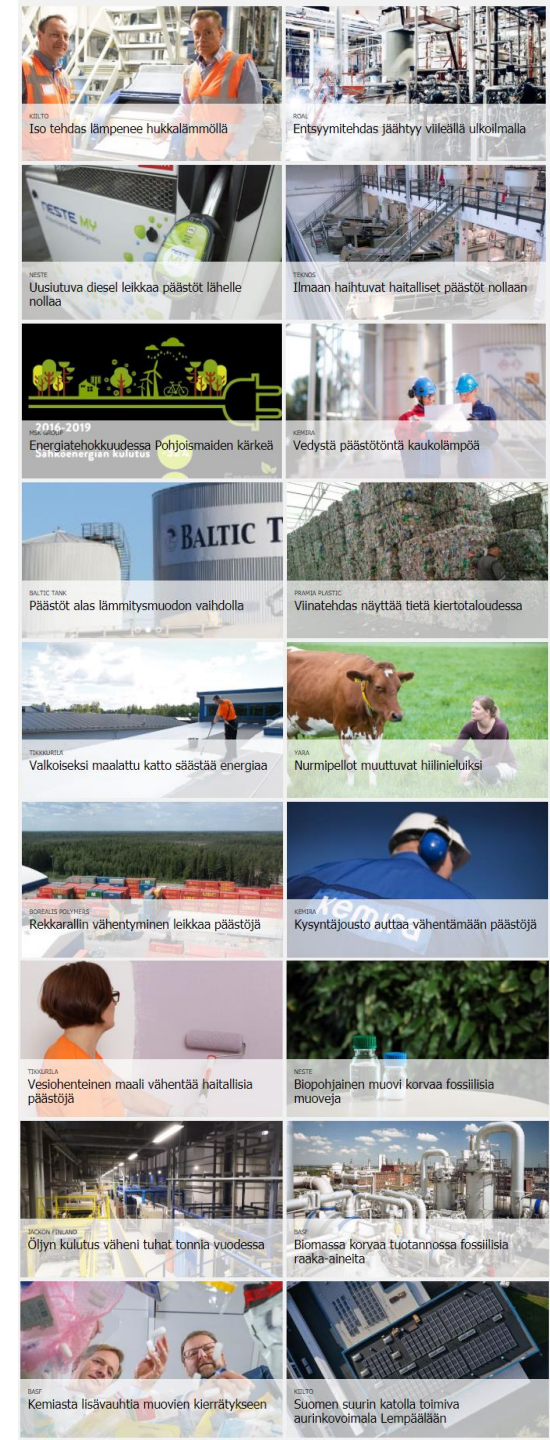
Kiilto's ambition of environmental leadership results in Promise to the Environment

Having long-term focus, safety, and high quality has always been integral to Kiilto's operations. Environmental responsibility is built into our processes. The drive for continuous improvement shows in our efforts to use more environmentally friendly raw materials, to engage more in the circular economy, and to use energy efficiently. Our desire to be the environmental leader in our field of business guides our actions.

We will achieve this leadership through our actions. In Finland, we launched the Promise to the Environment project in spring 2018, with the goal of setting concrete, ambitious, and quantifiable environmental targets to have major impacts on matters that have positive environmental impacts. The project is divided into segments, and the measures concern material choices, packaging and logistics, services, and energy solutions.

By the end of last year, the ambitious objective of environmental leadership had crystallised into the corresponding concrete promises:

- Green material choices: We are the leading company in the circular economy.
- Green packaging and logistics: Positive environmental impacts are the foundation of our packaging solutions.
- Green services: Kiilto Pro Services offer the best circular economy solutions in the business.
- Green energy: All our company operations will be carbon-neutral by 2028.



KIILTO Iso tehdas lämpenee hukkalämmöllä
 ROVI Entsyymitehdas jäähtyy viileällä ulkoilmalla
 NESTE Uusiutuva diesel leikkaa päästöt lähelle nolaa
 ROKOS Ilmaan haihtuvat haitalliset päästöt nolaa
 2016-2019 Energiatasehokkuudessa Pohjoismaiden kärkeä
 KEMIRA Vedystä päästötöntä kaukolämpöä
 BALTIC T Päästöt alas lämmitysmuodon vaihdolla
 ROVANIEMI-VUETI Vinatehdas näyttää tietä kiertotaloudessa
 TAMPERE Valkoiseksi maalattu katto säästää energiaa
 NOKA Nurmipellot muuttuvat hiilineeluisiksi
 ROVANIEMI-Rekkanen Rekkarallin vähentyminen leikkaa päästöjä
 KEMIRA Kysyntäjousto auttaa vähentämään päästöjä
 TAMPERE Vesiohenteinen maali vähentää haitallisia päästöjä
 NESTE Biopohjainen muovii korvaa fossiilisia muoveja
 JOKEN FINLAND Öljyn kulutus väheni tuhat tonnia vuodessa
 NOK Biomassa korvaa tuotannossa fossiilisia raaka-aineita
 SAK Kemilasta lisävauhtia muovien kierrätykseen
 KIILTO Suomen suurin katolla toimiva aurinkovoimala Lempäälään

Thank you!

Rasmus Pinomaa

Project Manager

Carbon Neutral Chemistry 2045

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 @RasmusPinomaa

#hiilineutraalikemia

www.kemianteollisuus.fi/hiilineutraalikemia2045

