

Adding future: natural, high-performance additives

Phil Blakeman

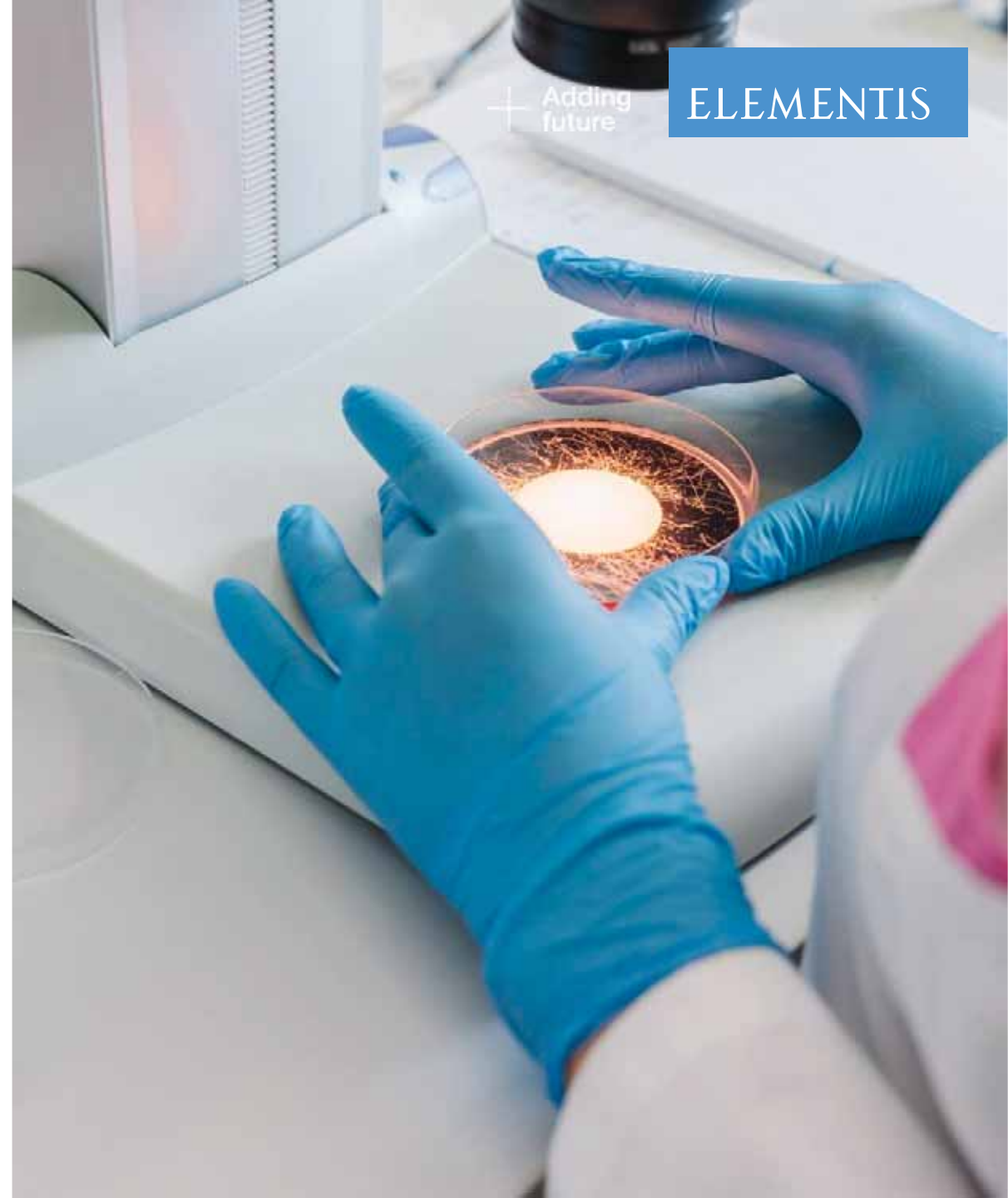
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Our Purpose

Unique chemistry,
sustainable solutions

Unique chemistry, sustainable solutions



+ Adding
future

ELEMENTIS

Elementis at a glance

A global specialty
chemicals company

1844

Date Established

\$737m

2022 Group revenue of

>1,300

Colleagues employed globally

World's largest

source of high-quality
hectorite clay

17

manufacturing sites

Supplier of
high-performance natural

talc

Performance Specialties

Coatings expertise

Rheology

Extensive technology portfolio
Expertise in application / use
Pipeline of innovative products

Surface chemistry

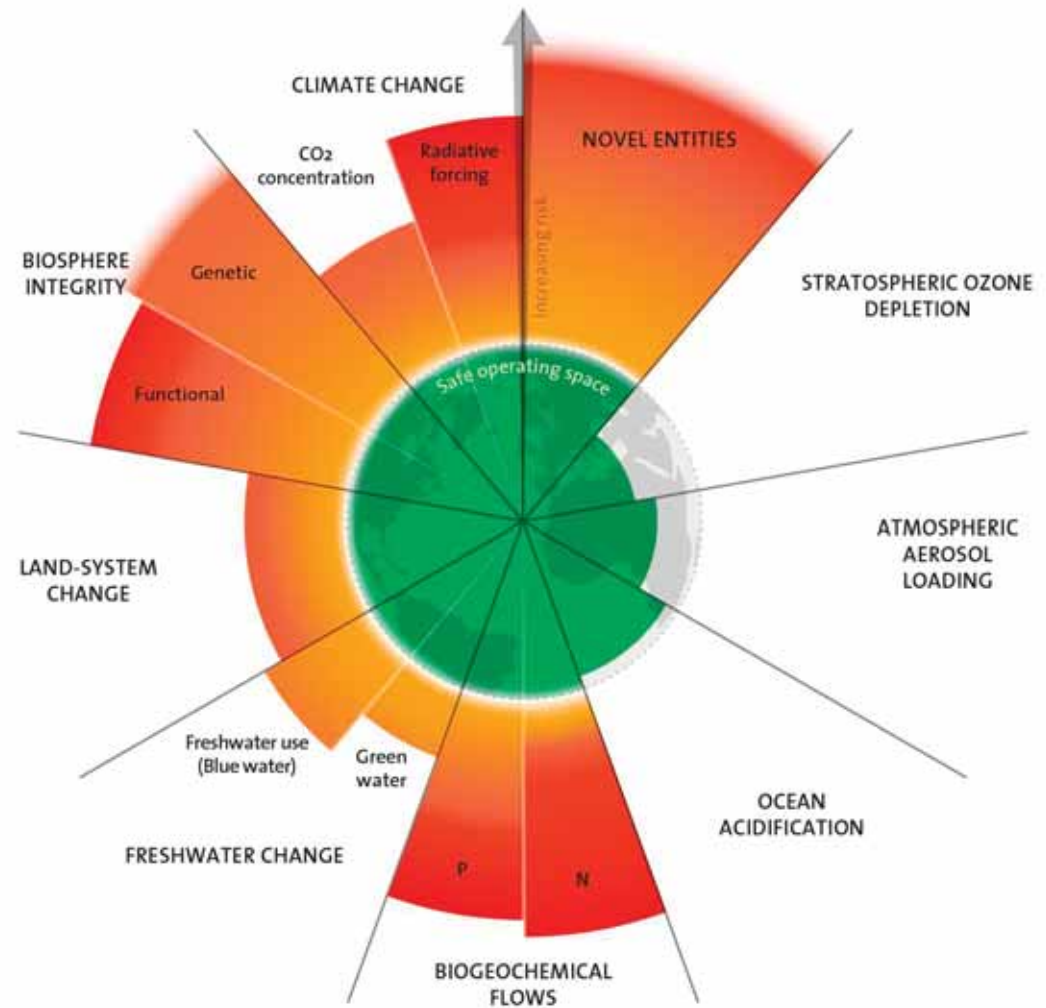
Dispersion and wetting expertise
Broad technology portfolio
Next generation solutions

Talc

Plate-like, pure talc
Improves durability
Enhanced barrier properties

We are in a sustainability crisis

6 Planetary Boundaries have been exceeded



Credit: "Azote for Stockholm Resilience Centre, based on analysis in Richardson et al 2023".

<https://www.stockholmresilience.org/research/planetary-boundaries.html>

Regulators and industry groups are responding

EU Chemical Industry Transition Pathway

- 1) Circular
- 2) Climate neutral
- 3) Safe, sustainable chemicals
- 4) Digital

8 building blocks to organise actions:

-  Sustainable competitiveness

-  Investments and funding

-  R&I, Techniques and technological solutions

-  Regulation and public governance (legislation)

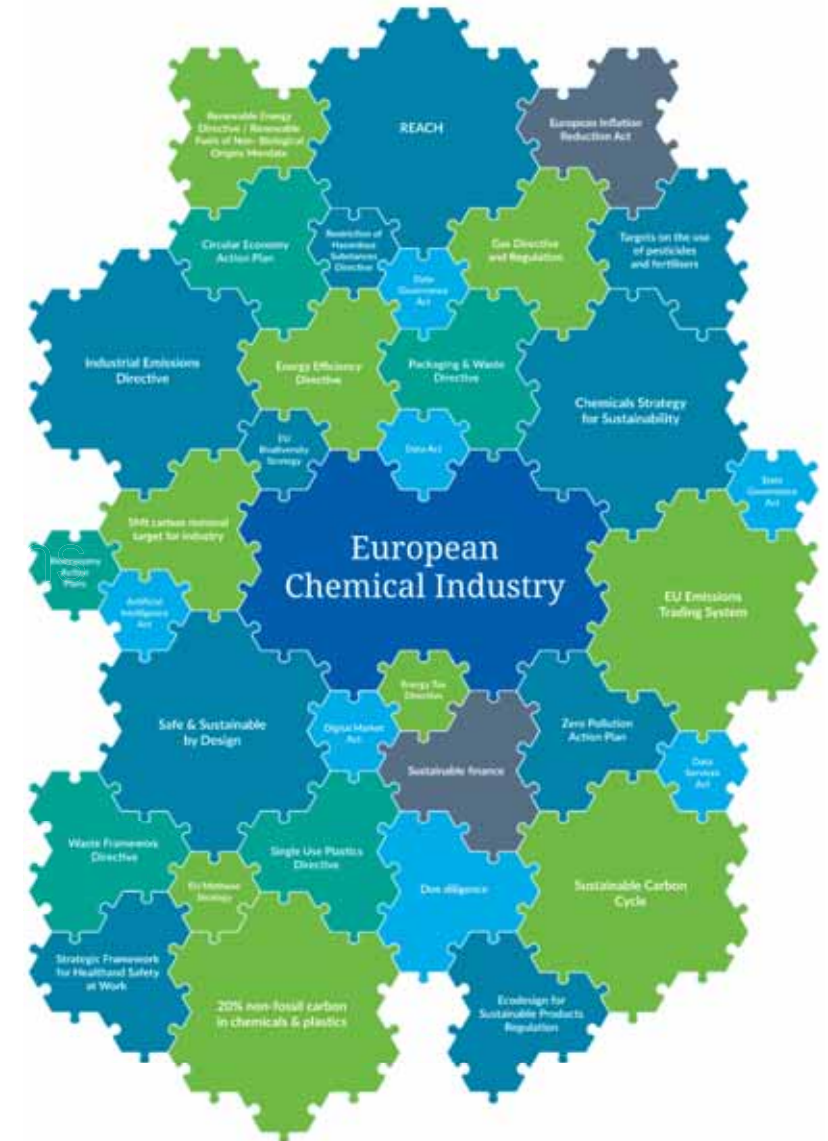
-  Access to energy & feedstock

-  Infrastructure

-  Skills

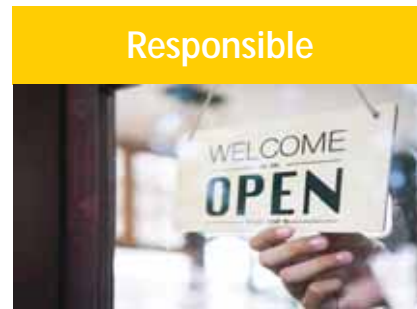
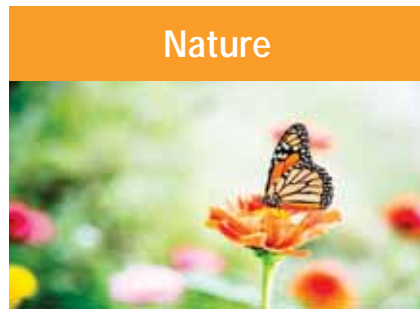
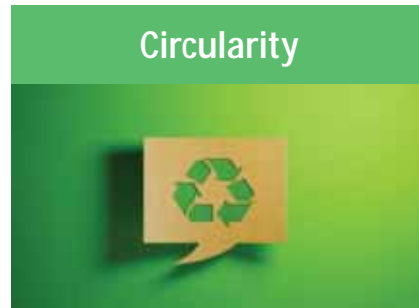
-  Social dimension

<https://transition-pathway.cefic.org/>
<https://ec.europa.eu/docsroom/documents/54595>



Market trends reflect sustainability

Solutions that address these themes are increasingly valued by customers / end-users

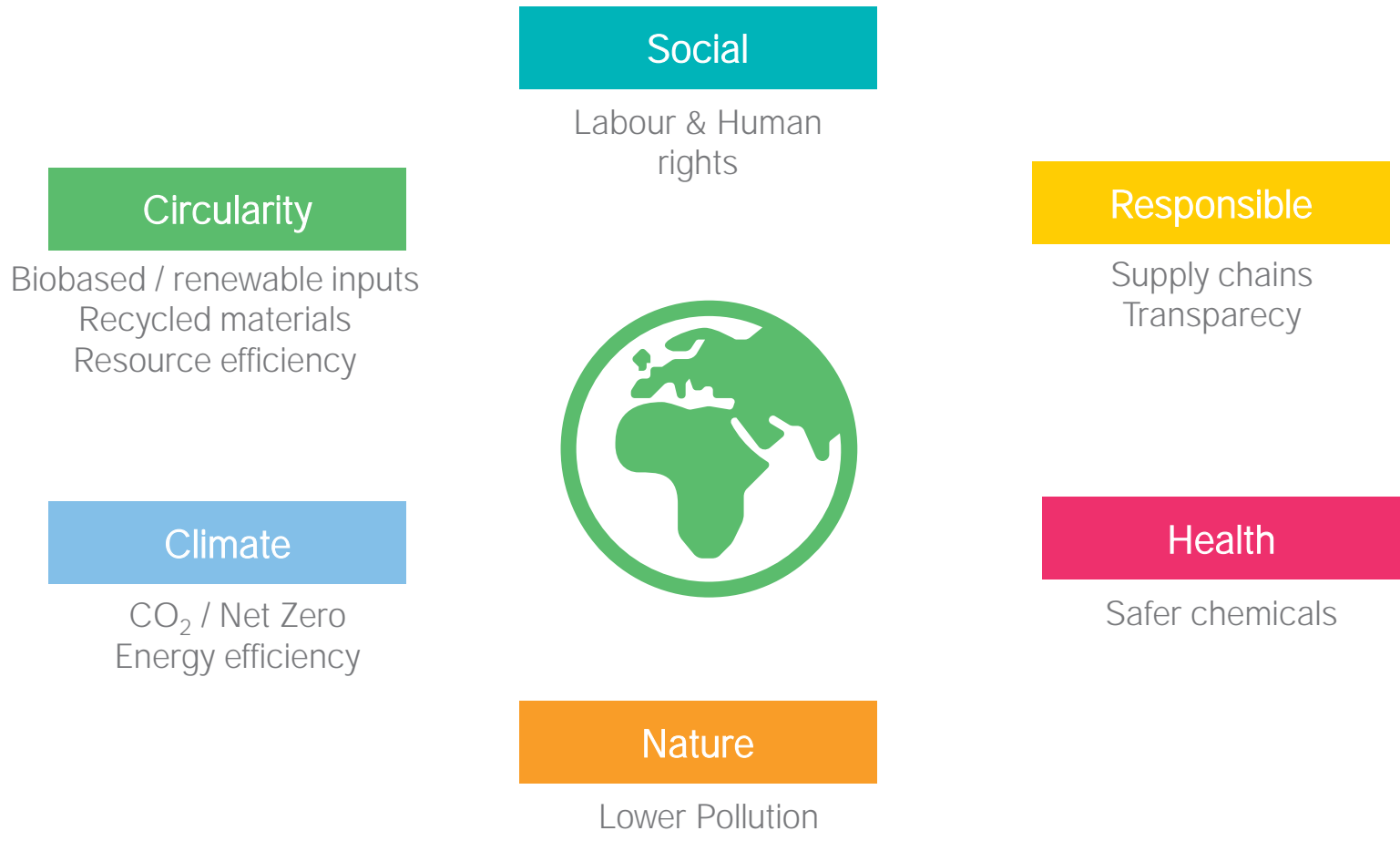


Architectural coatings - examples



Our sustainability focus areas

Better outcomes for all

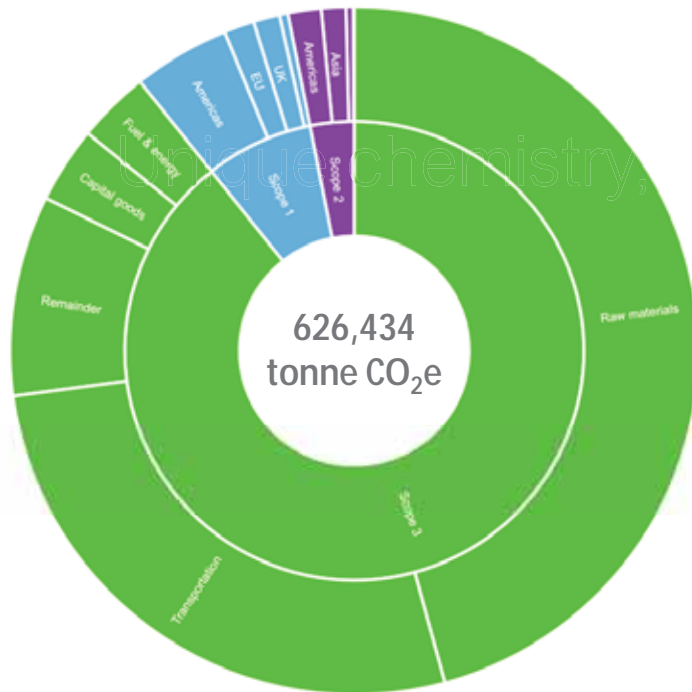


Climate, Nature & Health

Ambition to reach Net Zero by 2050

Committed to SBTi - target verification planned H2 2024

Emissions footprint is understood



58%
reduction in Scope 1+2
(market based) **absolute**
GHG emissions since 2019

77%
of our purchased energy is
from a renewable or
low carbon source

Scope 1+2 (market based) GHG emissions intensity



Safer products
Zero / Low VOC
Zero biocide

Circularity & Resources

Natural, efficient, bio-based

69%

revenues from natural & naturally-derived chemistries (ISO16128)

100%

active products – no water or solvent

REDUCTION TARGETS 2022 CHANGE VS 2019 BASELINE

Energy from fuels intensity

-20%

-4%

Water withdrawal intensity

-10%

-18%

Waste intensity

-10%

-13%



New Taloja facility opened in 2021 with zero water discharge

Social & Responsible

Minerals from our own **responsibly operated mines** in Finland and California



B



Creating more value

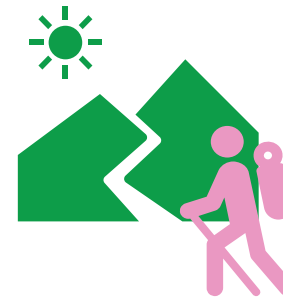
Good progress on key sustainability metrics

- Lowered our negative impacts
- Delivered better products
- Improved data transparency & ratings



BUT, there is still more to do

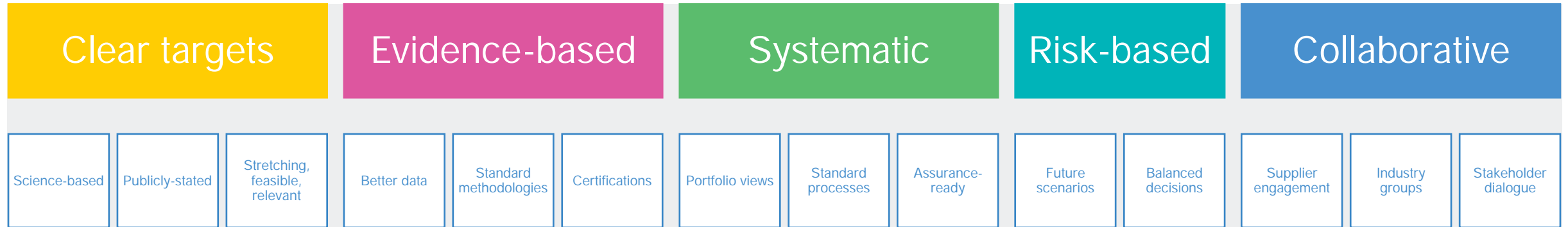
- More investment / innovation
- Need more **product** level data to differentiate



=> We must extend our approach

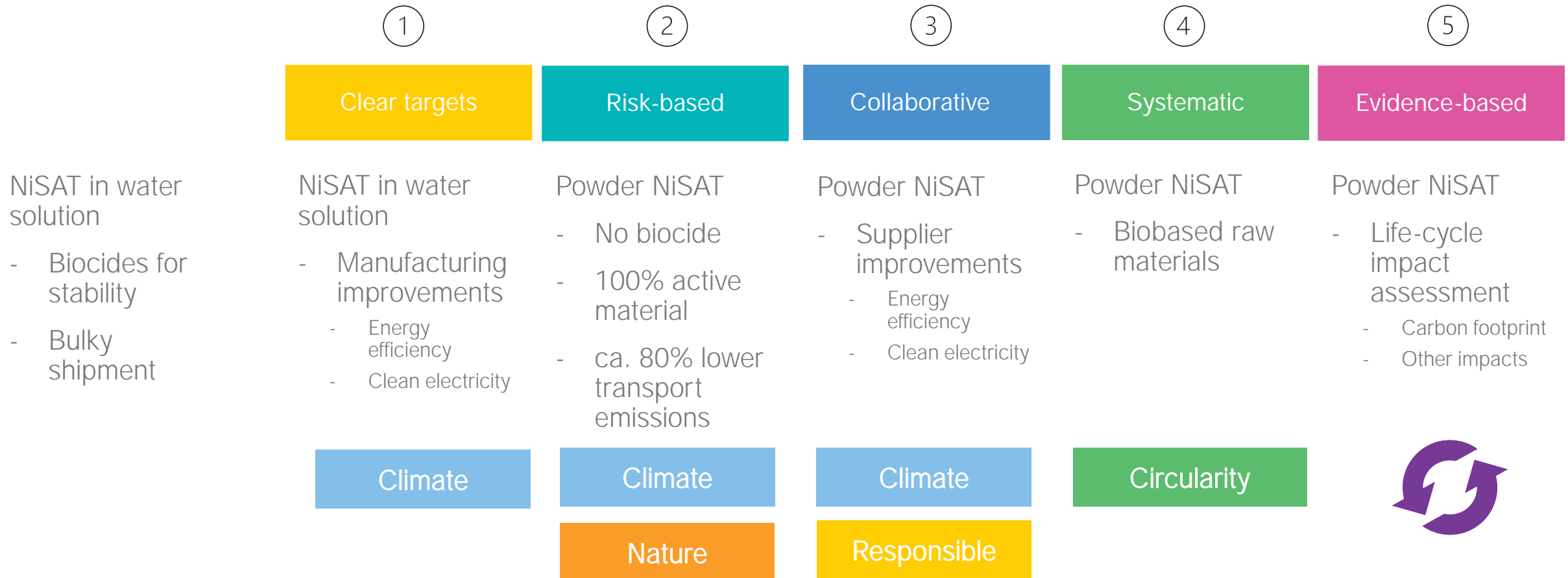
Our 5-point approach to sustainability

Credible, transparent



Improving product sustainability

The NiSAT journey



RHEOLATE[®] Powder NiSAT for architectural paint

+ Adding future

ELEMENTIS



Performance

> 18% more efficient
Improved dry film performance



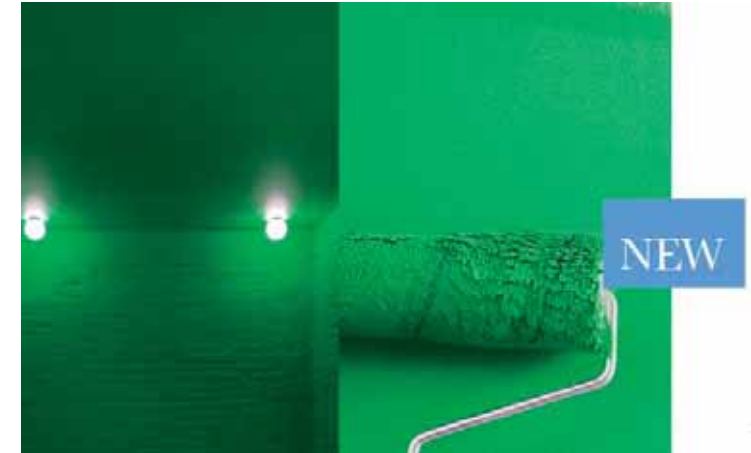
Safer Ingredients

VOC-, Biocide-free
Asthma & Allergy friendly paints
Broad range eco-labels compliance



Sustainability

Up to 80% CO2 reduction on transportation
Solvent free



RHEOLATE® IF Series

Fit for future with RHEOLATE® IF SERIES

+ Adding
future

ELEMENTIS



Performance

Excellent flow & leveling
Enhanced spatter resistance
Superior sag resistance



Safer Ingredients

Ultra low VOC, Tin-, Biocide (Isothiazilon) - free
Asthma & Allergy friendly paint



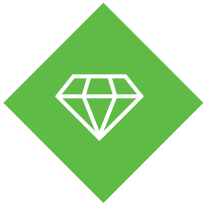
Sustainability

Ecolabeling compliance
Solvent free



DAPRO[®] BIO 9910

Unleashing the power of Biobased Defoaming with DAPRO[®] BIO 9910



Performance

Outperforms mineral oil versions

Consistent and smooth finish

Long-term effectiveness and best reproducibility



Efficiency

Universal use, easy drop in alternative

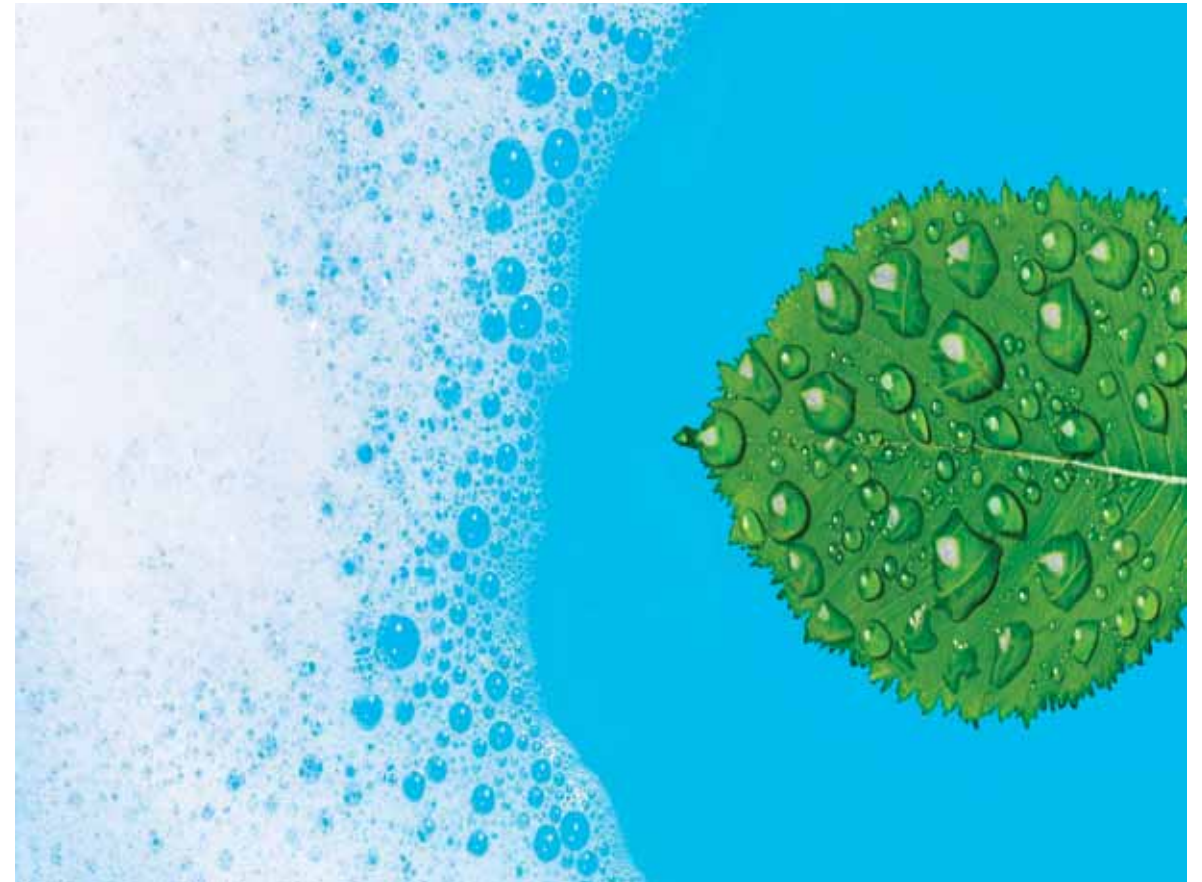
Excellent storage stability



Sustainability

96% Biobased content C14

Based on vegetable oil



THIXATROL® AS 8053

Saving energy while improving production efficiency and quality



Performance

Enhanced sag resistance Thicker coating application



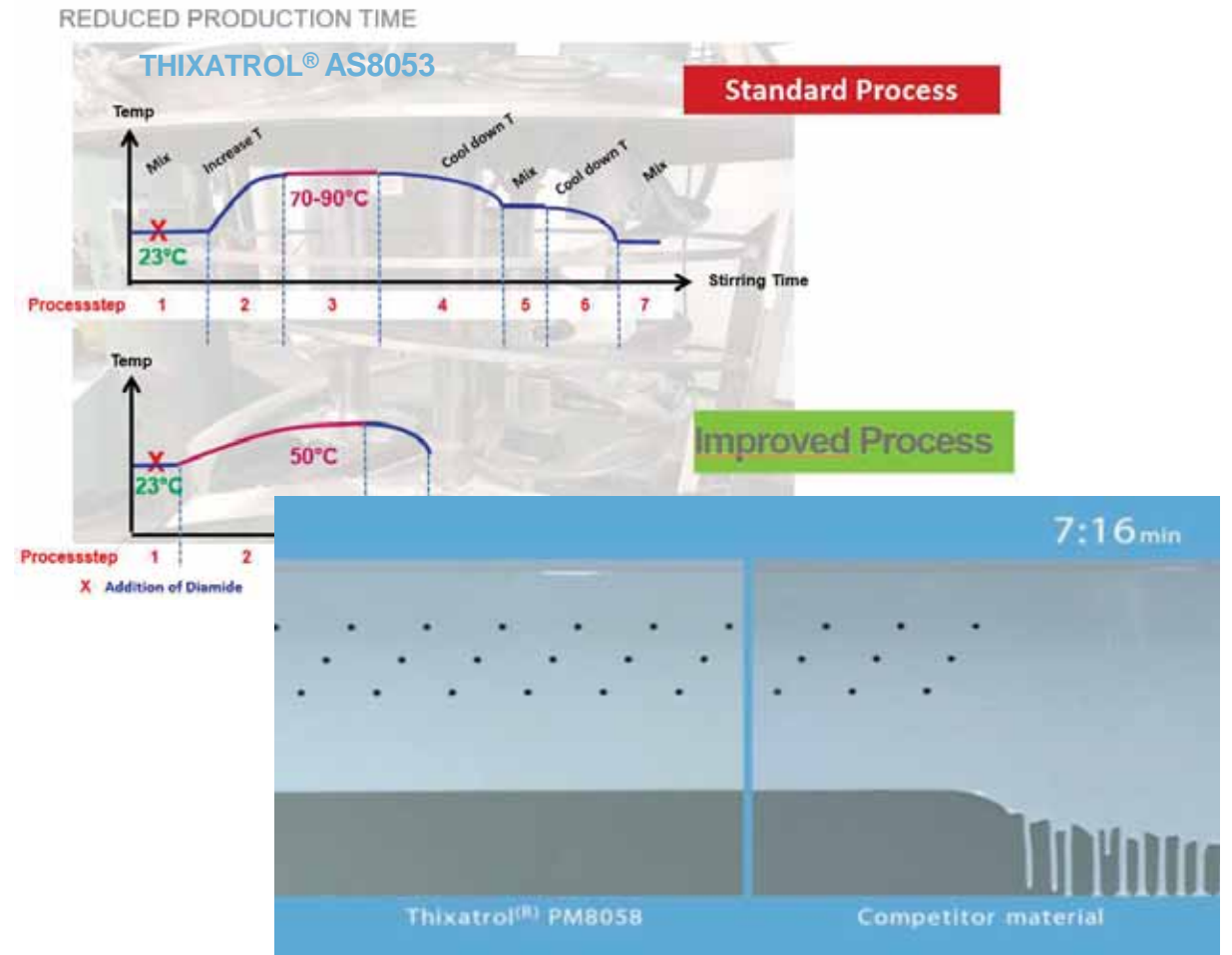
Efficiency

Improved formulation flexibility Reduced customer production time



Sustainability

Naturally derived, bio based (>75%) Lower activation temperature



DAPRO[®] BIO 400

Highly effective replacement for glycol coalescence solvents



Performance

Enhances phase stability and shelf life
Superior coupling performance and low odor



Efficiency

High boiling point 286 °C
Broad compatibility e.g. Acrylic, Sty-Ac, PU dispersion Linseed Oil,
Castor Oil



Sustainability

100% biobased content
VOC Free
Not competing with food chain



A sustainable, high performance toolbox for formulators

+ Adding
future

ELEMENTIS

Climate



RHEOLATE® Powdered NiSATS
FINNTALC M04SLC
THIXATROL® AS 8053

Circularity



DAPRO® BIO 9910
DAPRO® BIO 400
THIXATROL® PM 8056
THIXATROL® PM 8058

Nature



RHEOLATE IF series

Health



RHEOLATE® HX 6025
RHEOLATE® 135
RHEOLATE® 185
NUOSPERSE® FX 618
DAPRO® DF 696

Adding future

Helping formulators create more sustainable products



ELEMENTIS

SUSTAINABLE INGREDIENTS

Shared sustainability path
Wide range of natural and bio-based additives
Responsible resource and energy use

SUSTAINABLE PROCESSING

Additives to help formulators reduce energy use
Easily dispersible for faster production times
High performance means safer handling of smaller chemical amounts

SUSTAINABLE APPLICATION

Less rework and waste, with smoother application
Safer handling - allergy-friendly, tin-free
Less harmful – APEO and biocide free

SUSTAINABLE USE

Better air quality by enabling low / zero VOC paints
Enhanced durability from barrier and adhesion properties

by sustainable solution

Thank you for listening.

Adding future: natural, high-performance
additives



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Unique chemistry, sustainable solutions