# **Evonik**Leading Beyond Chemistry

Company Factbook 2023





## **Leading Beyond Chemistry – Our purpose**

## Evonik on the way to become a best-in-class specialty chemicals company





Leading ...

- Leading market positions in 80% of our business
- Leading key financial indicators

... Beyond ...

- Connecting skills and perspectives
- Develop solutions together with partners
- Sustainability key driver of growth

... Chemistry

- Clear focus on specialty chemicals
- Target 100% specialty portfolio



## **Evonik in numbers**

€18.5 billion

external sales

€2.5 billion

adjusted EBITDA

€1.17

dividend per share

13.5%

adjusted EBITDA margin

~80%

of sales from leading market positions

~43%

of sales from "Next Generation Solutions"

~34,000

employees

108

nationalities

29%

share of women in management positions

FY 2022; continuing operations



# Next Generation Evonik: Embarking on the next phase of our transformation

Sustainability fully integrated into all three strategic levers

#### Three major strategic levers...

#### ... with sustainability fully integrated ...

#### ... delivering on ambitious targets

#### **Next Generation Portfolio**

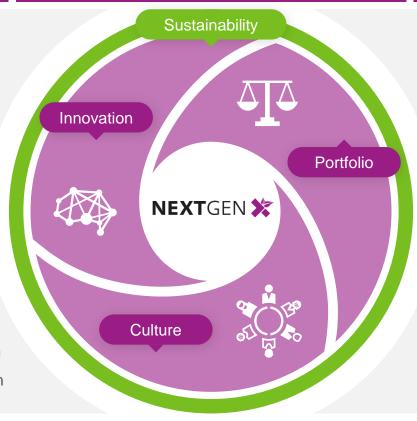
- + Exit Performance Materials
- + Full focus on three attractive growth divisions

#### **Next Generation Innovation**

- + €1 bn new sales well on track
- + Growth areas beyond 2025 already launched

#### **Next Generation Culture**

- + Diversity as key to successful strategy execution
- + ESG targets integrated into mgmt. compensation



### **ESG Targets**

- + >50% sales share of **NEXT**GEN Solutions **\***
- + -25% CO<sub>2</sub> emission reduction, e.g. via **NEXT**GEN Technologies

#### **Financial Targets**

- + Organic growth >4%
- + EBITDA margin 18-20%
- + ROCE ~11%
- + FCF Conversion >40%



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- 3. Financials



## Evonik well equipped as "Enabler of Sustainable Change"

## Portfolio circled around our four "Sustainability Focus Areas"





## Portfolio transformation – Clear portfolio roles

## Focus on three growth divisions - Exit Performance Materials

#### **Specialty Additives**



#### **Nutrition & Care**



#### **Smart Materials**



#### **Performance Materials**



#### **Growth focus**

- Strong innovation pipeline: ~4% R&D/sales
- High sustainability focus: Expand portfolio share of "Next Generation Solutions"
- Targeted M&A in complementary products and technologies
- Selected efficiency measures to strengthen cost leadership and improve portfolio quality

#### **Exit**

- Aiming to find new owners/partners for the businesses in the course of 2023
- Performance Materials to be ceased thereafter



## Portfolio: Full focus on three attractive growth divisions

## Investments in R&D, organic & inorganic growth

#### **Specialty Additives**



#### **Additive Technologies**

- Modular expansion of Silicones & Amine platforms via >€100 m investments (2022 – 2024)
- Addition of new effects, functionalities and technology platforms to Additives portfolio

#### **Nutrition & Care**



#### **Drug Delivery Systems**

 mRNA: Sizeable investments into lipids, formulation and fill-finish

#### **Care Solutions**

- Three-digit million € investment into world's first industrial-scale biosurfactants production (start-up 2023/24)
- Targeting market leadership in Active Cosmetics Ingredients market by 2025 via organic growth and M&A

#### **Smart Materials**



#### **Membranes**

- Modular investments into capacity expansion for gas-filtering membranes
- Breakthrough of electrolytic production of green hydrogen via DURAION® AEM membranes

#### **Specialty Peroxides Solutions**

- Investments into purification capacities to capture growth potential of Specialties applications
- Growth option in highly efficient and sustainable HP+ technologies (HPPO, HPPG)



## Portfolio transformation

## Active portfolio management on multiple layers

## **Business** transformation

#### Examples ...

- Bio-amino acids (toll manufacturing, streamlining production cost base)
- Care Solutions (transformation into a specialty products provider)

# Innovation and product mix

- H<sub>2</sub>O<sub>2</sub> (transform base business into specialized applications)
- Veramaris (switching of Lysine fermentation capacities)

#### **Active M&A**

- Bolt-on M&A to strengthen growth businesses
- Constant portfolio review and exit of commoditized activities

## Target: Specialty portfolio with 100% growth businesses



## **Business transformation**

## Example Care Solutions: Transformation into a specialty products provider

Acquisitions



# PRODUCTS 1

Polymeric and Liposome delivery systems



Alternative preservatives; formulation service



Natural products



Consumer Information (Venture Capital)

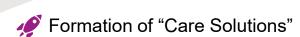




Strengthening digitalization

Sustainable specialty products provider

>400 bps margin improvement since 2016



2016



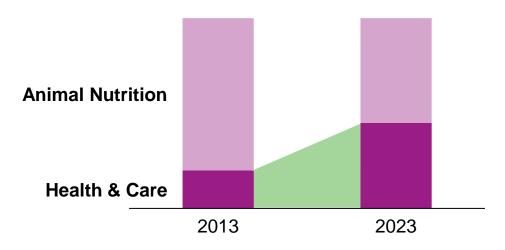
- Streamlining of product portfolio
- Optimization of asset footprint



## **Business transformation – Product mix shift**

## Diversification of earnings in Nutrition & Care

## **Nutrition & Care EBITDA share by sub-division**



- Above-average growth in Health & Care with main growth drivers
  - Drug Delivery Systems
  - Active Cosmetics Ingredients
- Normalization of Methionine price since 2013

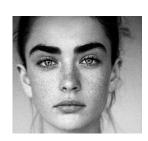
## **System Solutions as growth driver**

#### **Drug Delivery Systems in Health Care:**



- Integrated portfolio for targeted delivery and controlled release (oral & parenteral)
- Example: Lipid nano particles for vaccination, cell and gene therapy

#### **Active Ingredients in Care Solutions:**



- Ingredients with proven benefit
- Example: Ceramides as Ready-to-Use restoring protective skin barrier function
- Double-digit sales growth with high margins



## **Exit of Performance Materials underway**

## Progress in divestments of all three business lines

#### Superabsorber



#### ~ €900 m sales1

- Carve-out completed July 1<sup>st</sup>, 2021
- Start of divestment process on the basis of improved market dynamics and positive financial outlook for 2023
- Teaser will be sent out shortly

## **Functional Solutions**



#### ~ €650 m sales1

- Successful carve-out of Lülsdorf site on January 1<sup>st</sup>, 2023
- Investor negotiations at an advanced stage
- Alkoxides (biodiesel catalysts;
   ~€407 m sales) moved to Smart Materials

#### **Performance Intermediates**



~ €2,100 m sales1

- Carve-out process ongoing
- Closely monitoring market environment for value-enhancing start of divestment process

Aiming to find new owners/partners for each of the three businesses in the course of 2023



## Capital allocation into our green transformation

## Priority on growth investments and targeted M&A

### Significant cash inflow ...

# Increasing Operating Cash Flow

Attractive cash conversion with steadily growing earnings

# **Divestment proceeds Performance Materials**

### ... invested into our green transformation

>€3 bn

2022-2030

S

NEXTGEN X
Solutions

- Growth investments into our sustainability leaders
- Attractive growth rates and returns (IRR >11%)

~€700 m

2022-2030

**NEXT**GEN **X** Technologies

- Investments into infrastructure, production and processes
- Significant energy & emissions reduction as well as reduction of operating costs (>€100 m by 2030)

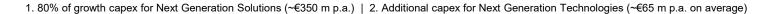
Targeted M&A

- Acceleration of portfolio transformation
- Expansion of businesses with above-average growth, sustainability profile and returns

Attractive dividend

Reliable and sustainably growing

#### Solid investment grade rating





## **Portfolio transformation – Active M&A management**

## Decisive and value-accretive portfolio management

#### **Divestments**

## ~€2 bn cyclical sales

sold at attractive valuation (8.5x EV/EBITDA)

Ø EBITDA margin: ~15%1



## **Acquisitions**

#### >€2 bn resilient sales

Ø multiple of 9.1x EV/EBITDA (incl. synergies)

Ø EBITDA margin: ~22%









Delivery of synergies on track (€80 m by end of 2020)

## Decisive and value-accretive portfolio management

- Portfolio cyclicality & Capex intensity reduced
- More resilient EBITDA margin and improved cash profile

Divestments: Methacrylates business sold for EV of €3 bn (8.5x EV/EBITDA) in 07/2019 Acquisitions: Air Products specialty additives business for US\$3.8 bn (9.9x EV/EBITDA incl. synergies & tax benefits) in 01/2017 I Dr. Straetmans cosmetics business in 05/2017 Huber Silica business for US\$630 m (~7x EV/EBITDA incl. synergies & tax benefits) in 09/2017 I PeroxyChem for US\$640 m (7.6x EV/EBITDA incl. synergies) in 02/2020 I Porocel for US\$210 m (9.1x EV/EBITDA) in 11/2020



1: 2014-2019

## **Active M&A**

## Key M&A examples: Proof of concept for targeted and disciplined M&A approach



## Air Products Performance Materials (2017)

Purchase price	~ €3.5 bn
Multiple <sup>1</sup>	15.2x / 9.9x
EBITDA margin	>20%
Market growth	~4-5%



#### Huber Silica (2017)

~ €600 m	
10.5x / 7x	
>20%	
~4-6%	



# PeroxyChem (2020)

\$640 m
9.9x / 7.6x
~20%
~6%²



## **Porocel** (2020)

\$210 m	
9.1x	

~23%

~4%

**Business** 

Highly attractive strategic fit, seamless integration into existing businesses

Disciplined expansion in high-growth & -margin businesses with excellent strategic fit



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## Sustainability as backbone of Evonik's purpose and strategy

## Clear commitment to growing handprint and reducing footprint

### Sustainability is an integral part of our purpose

LEADING
BEYOND CHEMISTRY
TO IMPROVE LIFE,
TODAY AND
TOMORROW

"We see profitable growth and assuming responsibility as **two** sides of the same coin"

#### Key growth driver...

#### **Our Handprint**



"Sustainability is a key growth driver and the cornerstone of our product portfolio, our investments and our innovation management."

### ...and saving resources

**Our Footprint** 

"We take responsibility by caring about our resources."



Evonik fully integrates sustainability in its Strategic Management Process



2 Evonik intends to increase the portfolio share of products with sustainability benefits



Evonik is committed to foresighted resource management



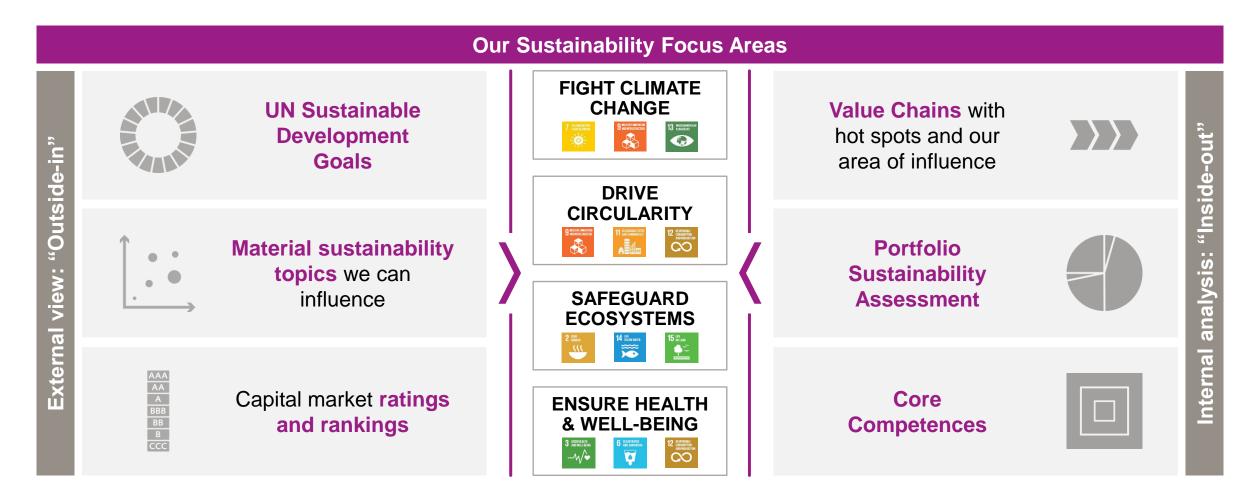
Evonik with high standards for governance and continuous improvement of its reporting





## Our Sustainability Focus Areas defining footprint & handprint measures

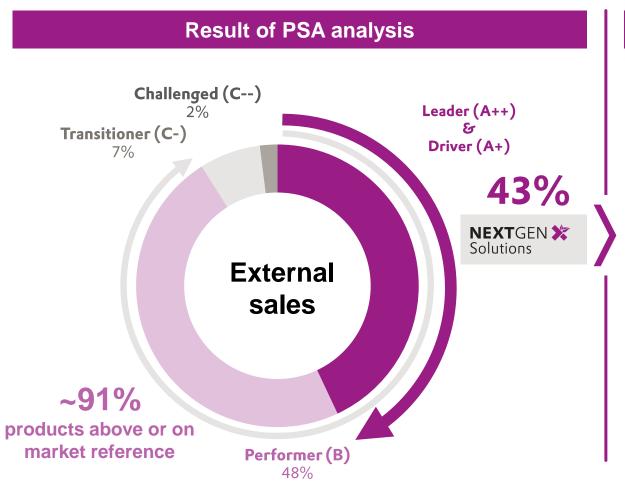
Result of external views and Evonik portfolio and competencies





## **Handprint: "Next Generation Solutions"**

## 43% of Evonik's portfolio with superior sustainability benefits



Best-in-class products in Evonik's portfolio which...

...deliver aboveaverage growth ...address increasing customer demand for sustainable solutions



...deliver superior sustainability benefits to our customers

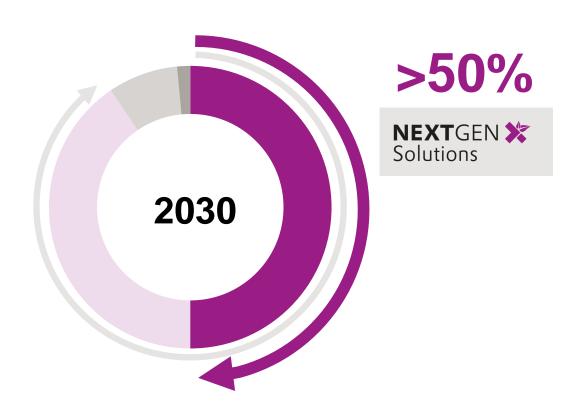
NGS: "Next Generation Solutions" include "Leader" (A++) and "Driver" (A+) products and solutions



## Handprint: "Next Generation Solutions" to grow beyond 50% by 2030

## Ambitious new sales share target to be achieved through three levers

### **Increase "Next Generation Solutions"**



#### Three levers to increase the share of NGS

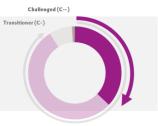
Existing "Next Generation Solutions" with superior sales growth rates



New sales from **innovations** becoming "Next Generation Solutions"



"Challenged" and "Transitioner" products exiting or with new formulations



NGS: "Next Generation Solutions" include "Leader" (A++) and "Driver" (A+) products and solutions



## Above-average growth of existing "Next Generation Solutions"

## Selected examples addressing our four Sustainability Focus Areas

#### **Future Mobility solutions**

#### Additives for durability in construction

- Lightweight applications: PA12 portfolio
- Batteries: additives for electrodes / separators
- "Green tire" technology
- +11%

  +11%

  Our

  Sustainability

  Drive Circulal

  11

  P9%

  Our

  Sustainability
- Water-repellents for building materials
- Additives for integrated protection and self-healing of concrete structures

- Global development partner & solutions provider for delivery systems for effective drugs and vaccinations
- Evonik as pioneer in Lipid Nano Particle (LNP) field for mRNA technology



- High-quality proteins with essential amino acids
- Production of omega-3 fatty acids from microalgae

#### **Drug Delivery Systems**

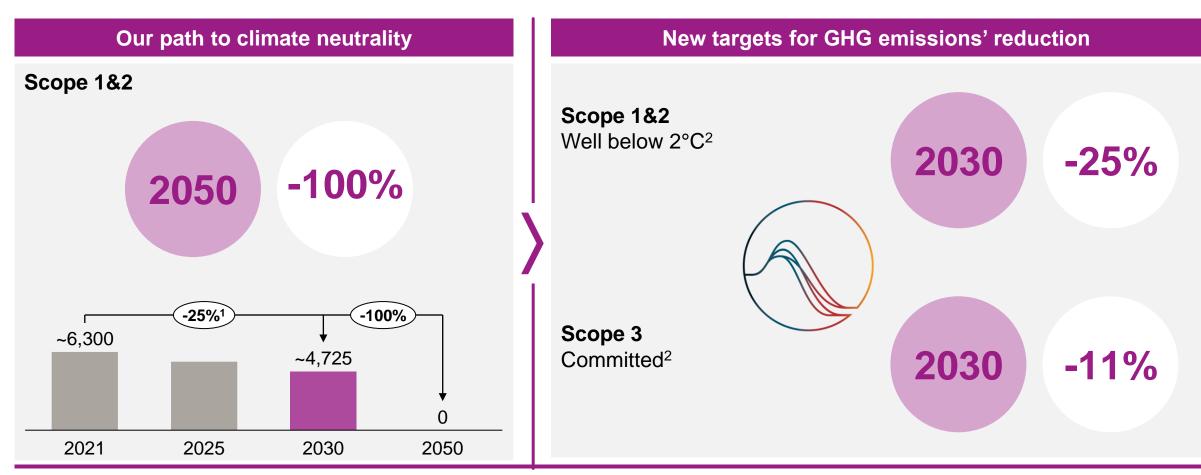
Modern aquaculture solutions

% values: Target CAGR 2021-2030 defined in Strategy Dialogue



## Footprint: Our commitments to reaching the Paris Climate Agreement

Evonik will be climate neutral by 2050. Committed to SBTi.



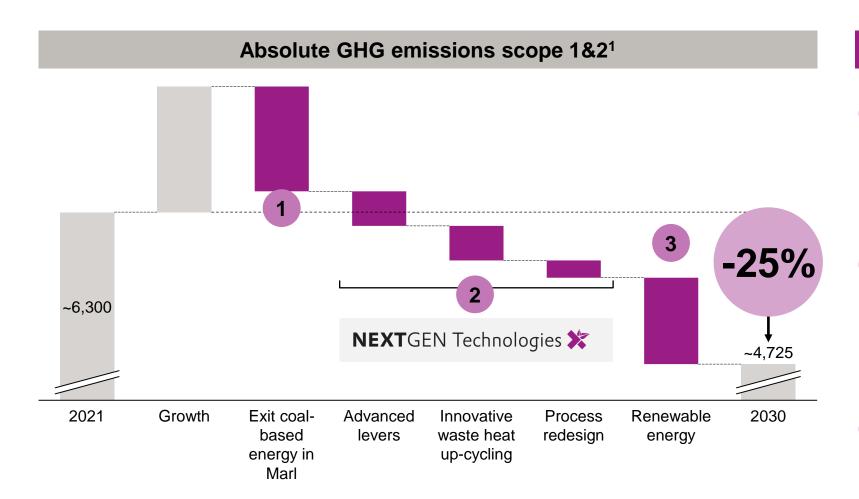
<sup>1.</sup> Gross emissions; reference year 2021, target year 2030



<sup>2.</sup> Commitment letter signed and handed in for SBTi, 25th April 2022

## Footprint: Clear roadmap to achieve Scope 1 & 2 targets by 2030

## Three clusters with economically attractive measures defined



#### **Reduction measures**

Exit coal-based energy in Marl

#### "Next Generation Technologies"

- a. Advanced levers,e.g. Adv. Process Control
- b. Innovative waste heat upcycling, e.g. heat pumps
- c. Process redesign
- Renewable energy, e.g. procuring green electricity



<sup>1.</sup> Gross emissions in kt CO<sub>2</sub>e

## Sustainability drives us

## Substantiated by clear objectives focusing on footprint, handprint and heartprint









#### **Footprint**

**Handprint** 

- **-25%** scope 1 & 2 by 2030
- **-11%** scope 3 by 2030
- 100% renewable sourced electricity
- Be climate neutral for all emission scopes by 2050
- Avoided fossil emissions
- Biogenic based products

- -10% specific production waste
- Significant increase in biobased and circular raw materials
- Renature with increasing share of biodegradable products

- -3% specific freshwater intake
- Site-specific action plans for water-stress production sites
- 100% RSPO MB certified palm oil / derivatives by 2025
- Reduced eutrophication and acidification in product use phase
- Land use savings in product use phase

- -20% other emissions to air
- Maintain low risk exposure to "Hazardous Chemicals of High Concern"
- No of patients or vulnerable consumers reached with health outcomes
- Enable customers to replace chemicals under discussion

#### Heartprint

- Proactive, transformational influence exerted internally and externally
- Moving entirely from attitude to real action

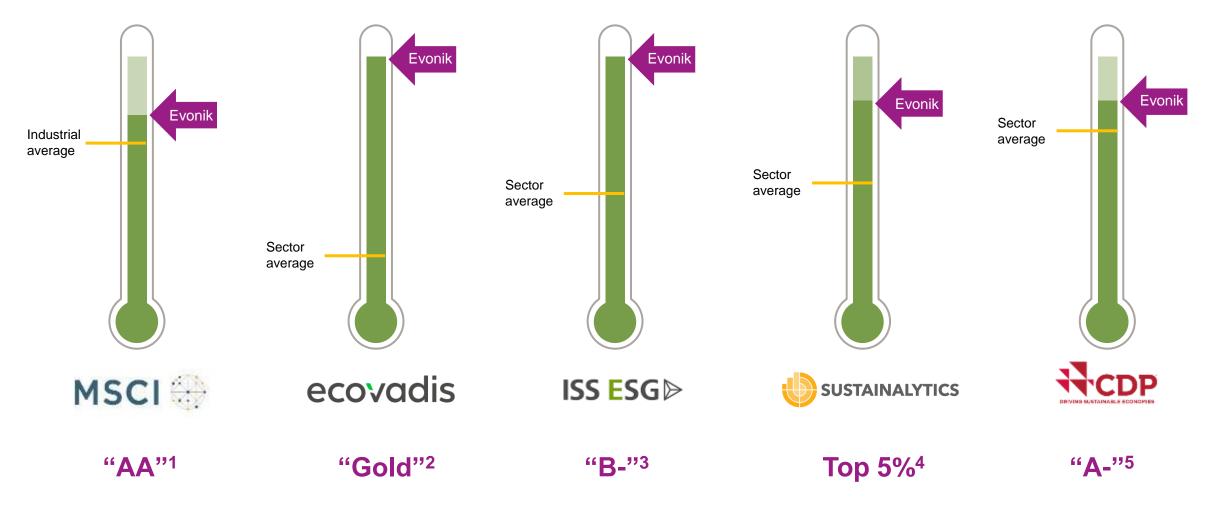
Entrepreneurial thinking defined by collaboration with strategic partners

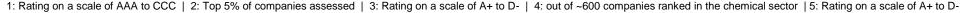
1. RSPO MB: Roundtable on Sustainable Palm Oil Mass Balance



## **Sustainability Rankings**

## Evonik best-in-class within chemicals sector in terms of sustainability







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## RD&I at a glance

## Facts & Figures

## **RD&I AT EVONIK**

FIGHT CLIMATE CHANGE







>€460 m SPENT

>€600 M SALES IN 2022 FROM INNOVATION GROWTH FIELDS

DRIVE CIRCULARITY







~24,000 PATENTS1

**>€2,700 EMPLOYEES** 

SAFEGUARD ECOSYSTEMS







**100% SUSTAINABILITY-INTEGRATED** 

ENSURE HEALTH & SAFETY







1. Patents and patents pending



## Four focus areas where RD&I is adding value for Evonik

#### What we do



#### Sustainability



RD&I is a key enabler for the sustainability strategy of Evonik.

We support our businesses and drive the transformation towards a sustainable portfolio.

#### How we do it



#### Technology Platforms



RD&I develops technological expertise to secure & expand competitive advantage for Evonik.

We leverages synergies across Evonik for the technology platforms of today and tomorrow.

#### Where we do it



#### Internationalization



RD&I actively supports the internationalization efforts of Evonik.

We are looking proactively for opportunities in the regions, close to our customers, close to our partners and in close alignment with the business.

#### Who does it



#### People & Partners

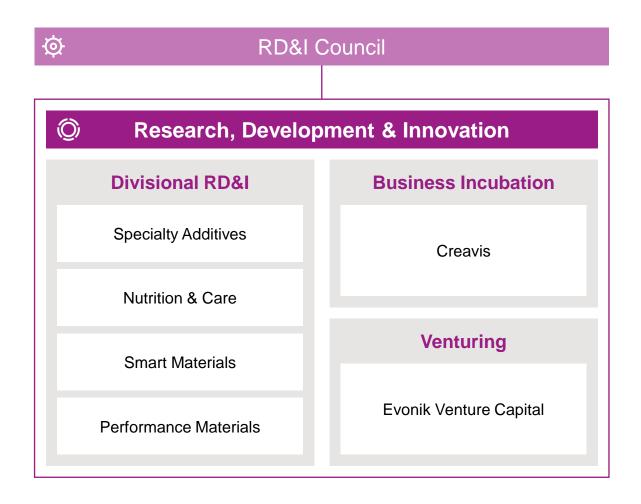


RD&I plays a key role for the attractiveness of Evonik for talents and partners globally.

We attract & develop top talents for a corporate or expert career and establish partnerships to safeguard the future of Evonik.



# RD&I steers innovation based on clear alignment and continuous exchange across the entire Evonik organization



Consistent focus on the same strategic direction as a Group

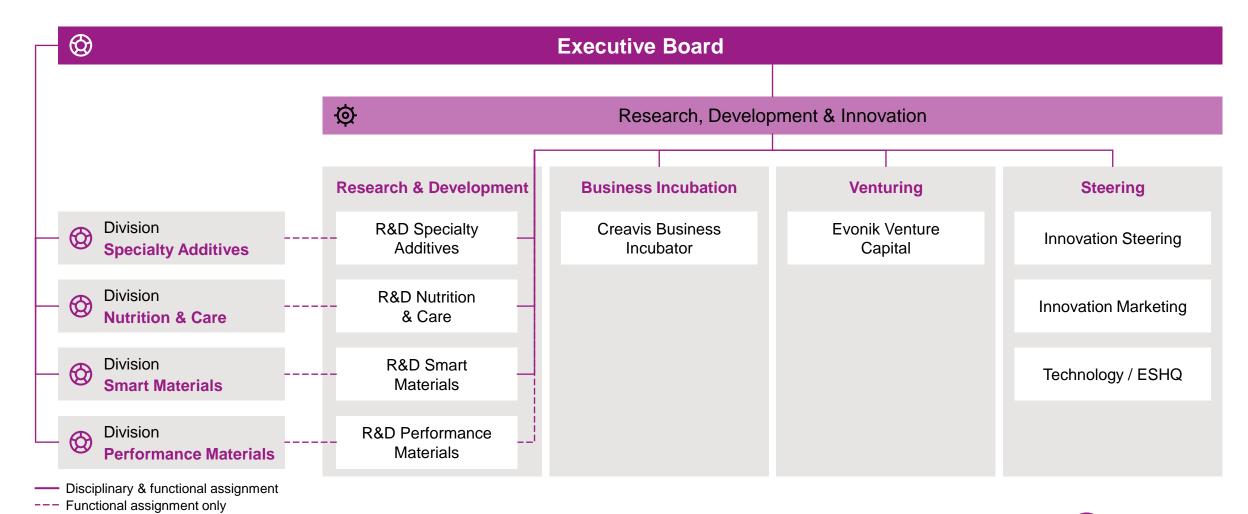
Knowledge sharing and use of different technology platforms

Efficient use of resources and competencies; flexible setup of interdisciplinary project teams

Full integration of sustainability criteria into decision making and allocation of resources

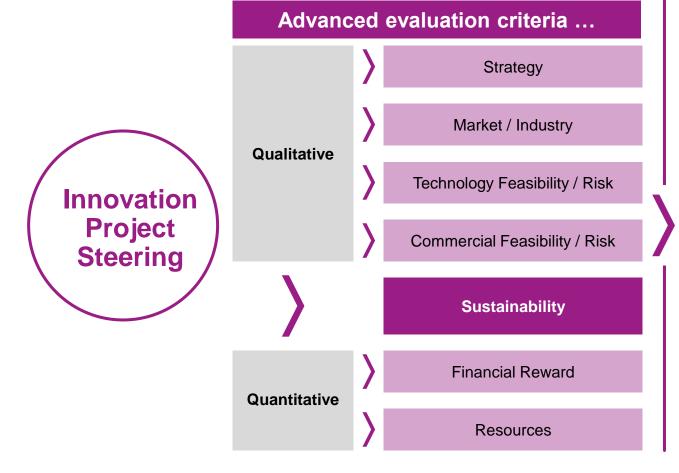


## RD&I well aligned across divisions and functions





# Evonik's RD&I projects are steered using clear criteria for optimized innovation performance and sustainable growth



## ... enable best innovation performance

## Optimize resource allocation

State of the art evaluation criteria enable best innovation & financial performance management and resource allocation

#### Leverage synergies

Harmonization of project management process support synergies and guarantees comparability of innovation pipeline data across all units

#### **Drive Sustainability**

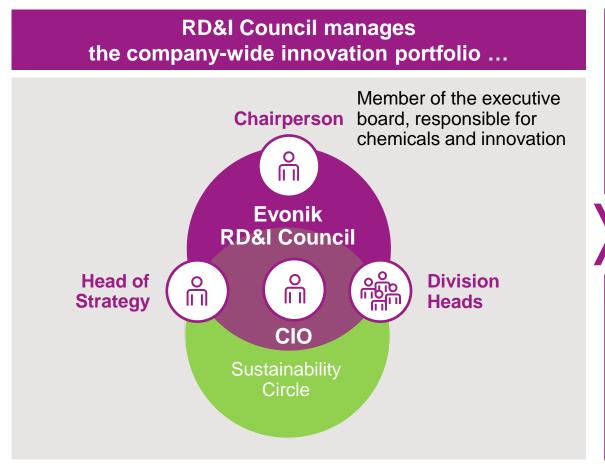
Strict rating of the sustainability impact of innovation project pipeline drives the transformation of Evonik's businesses

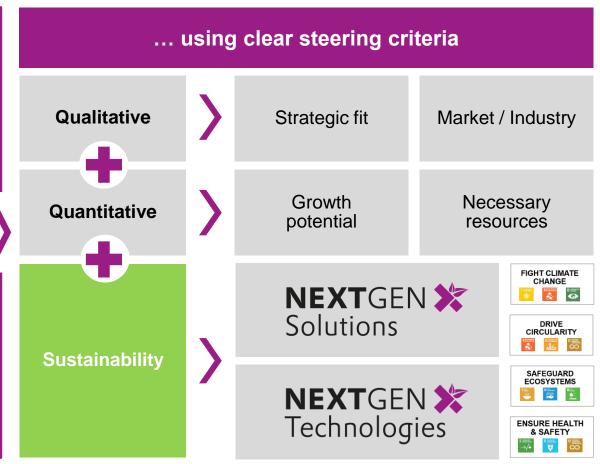
#### Focus on growth

Close strategic alignment with the business units and risk adjusted projections enable RD&I to deliver robust growth



## Sustainability is fully integrated into innovation portfolio steering







## Six Innovation Growth Fields are on track to achieve target of >€1 bn sales

#### **Innovation Growth Fields**



Advanced Food Ingredients



Additive Manufacturing



Sustainable Nutrition



Cosmetic Solutions



Membranes



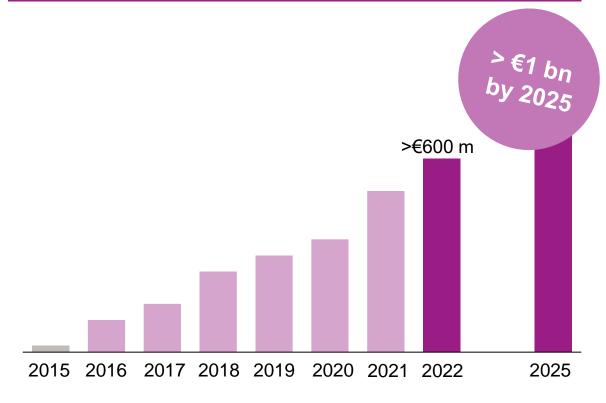
Healthcare Solutions



**Sizeable sales base** established in all growth fields

Above-average margin contribution

## Sales contribution Innovation Growth Fields





## Innovation Growth Field "Membranes" as blueprint for future innovation

~2008

Idea for gas separation membranes created within Creavis



2014 – today

Expanding into separation of further gases such as helium, nitrogen and natural gas

**Beyond today** 

Big growth opportunity esp. in hydrogen



**Business handed over to BL High Performance Polymers** 

Commercialization in first reference plants focusing on biogas separation



2022

>1,000 reference plants worldwide

>€30% sales CAGR since 2015 to mid-doubledigit million sales in 2021



Continuous RD&I efforts to improve product characteristics and scope of application



## Driving sustainability through process innovation in new technologies

# **Breakthrough technology – Catalytic membrane reactors**



- Development of two-in-one reactor:
   Efficient catalytic reactor technology
   and sustainable downstream processing
- Demonstration of CO<sub>2</sub> saving potentials (up to 35%) and increase in energy efficiency (up to 70%)
- New business opportunities by technology enabled alternative reaction pathways

# SAM 3D – Disruptive digital design for sustainable processes



- New generation of reactors designed to drive decarbonization
- Perfectly adjusted reactor geometries by simulations, additive manufacturing and Al for production accurate to the molecule
- Minimized emissions & energy costs in tailored reactors with enhanced process control

# New solvolysis process for PET recycling



- Development of sustainable engineering packages backed by life cycle assessments
- Technology as building block and differentiating factor for strategic alliances
- Enabling new business for Evonik alkoxides in chemical recycling of PET



## Driving sustainability through process innovation in new technologies

# **Energy integration via heat** pumps for site steam supply



- High-temperature heat pumps for steam generation out of waste heat at chemical multiuser sites
- Energy saving of 65% for steam generation by heat recovery
- Substantial CO<sub>2</sub> reduction through total avoidance of natural gas boiler
- Central step for CO<sub>2</sub> neutral production site

# Sustainable processes via electrochemical pH-shift



- Development of sustainable processes avoiding acids, bases and salt containing waste streams
- pH induced reactions by applying electrochemical process steps – "electrons replace chemicals"
- Technology as enabler to minimize carbon footprint

# **Turning old mattresses into value by new PU foam recycling process**



- Integrated process development as enabler for circular economy of Polyurethane (PU) foams
- Significant CO<sub>2</sub> footprint reduction of recycled PU monomers of high quality
- Securing and supporting the growth of core business for PU foam additives



# **Innovation Growth Field: Membranes**

# Superior gas separation efficiency enabled by tailored polymer properties

# **Technology / USP**

High performance hollow fibre membranes for efficient gas separation

### **Advantages**

- Low energy consumption
- No waste, no emissions
- Flexible & easily expandable
- High yield & purity

Robust & durable



~€800 m

Market growth:

> 10%

# Status quo

Innovation leader by backward integration into membrane polymer chemistry

2010: Market entry: biogas upgrading

2014: Roll-out with process gases (like

Helium & Nitrogen)

2018: Diversification into Natural Gas,

Hydrogen and Aviation

Now: 1,000 membrane plants supplied

already today

# **Potential going forward**

Future growth driver: Hydrogen

Today: H<sub>2</sub> extraction membranes

 Using membrane technology to extract hydrogen from existing natural gas pipelines

Future: Anion Exchange Membranes
Breakthrough of electrolytic
production of green hydrogen

- 30% lower CAPEX
- 10% lower OPEX

(vs Proton Exchange Membranes)



# Innovation growth field: Cosmetic Solutions

# Leading sustainable system solution provider for cosmetic ingredients

# **Unique selling point**

### Full-service provider for our customers from an idea up to a claimable product

### **Evonik key success factors**

- Wide portfolio of specialty products with scientifically proven & claimable benefits
- Strong customer intimacy
- >30 years of extensive experience in white biotechnology

### Relevant market:

>€5-6 bn

### Market growth:

**Functional ingredients** and Actives ~5.5 %



# Status quo

### Highly specialized **System Solutions**:



### **Active ingredients**

- Novel Active ingredients with focus on derma-cosmetics
- **Expertise in Ceramides**



### **Delivery Systems**

infinitec • 2021 acquisition of Infinitec adds 7 novel delivery systems



### **Botanicals**

 2021 acquisition of Botanica adds sustainable botanicals



### **Sustainable Functionals**

 Unique sustainable Biosurfactants and Emollients

# **Potential going forward**

### Future growth driver: Fully bio-based solutions

- Our 100% bio-based surfactants are made from plant-based sugar
- Applicable in Care Solutions as well as Cleaning Solutions
- Market growth >50%

### Latest launch:

### **RHEANCE®** One finding new markets in a variety of cosmetic applications

- 100% bio-based rinse-off application
- USP of good foam & no bitter taste is ideal for applications in toothpaste



# Innovation growth field: Healthcare Solutions

# Attractive portfolio with high level of synergies and access to fast-growing markets

# **Unique selling point**

An integrated system solutions portfolio of
Advanced Drug Delivery, Functional
Excipients, and Contract Manufacturing
serving the pharmaceutical and medical
device markets

### **Advantages**

- Track record of reliable, high quality specialized products, technologies and services
- Shared competencies and technology platforms across the portfolio

### Market size:

~€200 bn

### **Market growth:**

4 to >8%



# Status quo

### Strong market position in



### **Drug Delivery Systems:**

Focused on system solutions that transport an active agent in the body to safely provide the desired therapeutic effect

### Cell Culture Solutions1:



Focused on providing system solutions for biological drug production and next-generation biological constructs

### **Medical Device Solutions:**



 Focused on providing biomaterials and services for mechanic support or enhancement of biological structures

# **Potential going forward**

# Future growth driver: mRNA-based solutions for

- Vaccines: e.g. cancer immunotherapy, COVID-19, Malaria
- Protein therapeutics: treating hereditary diseases
- Gene therapies: offering the potential for curative therapies at the genetic level

### Market potential:

Accessible market of

≥ **USD5 bn** by 2026





# Innovation growth field: Additive Manufacturing

# Driving industrial scale 3D printing technology along the entire value chain

### Markets and USP

Ready-to-use high-performance materials for infinite 3D applications

# INFINAM® advantages:

- Highest quality & highest performance
- Ready-to-use
- Customized for different 3D technologies
- Unique combination of properties

### Market size:

~€1 bn (polymer powders & photopolymers)

Market growth: >15%



# Status quo

# Market leader for PA12 – Innovation leader for new materials

- Evonik as market leader in PA12 powder materials for powder-based 3D printing technologies<sup>1</sup>
- World's 1<sup>st</sup> PEEK filament for medical implant applications in 2020
- New product line for INFINAM® Photopolymers established in 2021
- Targeted external technology investments









# **Potential going forward**

### From prototyping to manufacturing

Substitution of plastic machining and injection molding through:

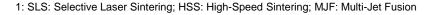
 Close partnerships with major printing players and innovators





 Scaling the broadest portfolio of ready-to-use high-performance materials for all key 3D printing technologies to large volumes







# Innovation growth field: Advanced Food Ingredients

# Portfolio of high-value functional nutritional products

### Market

Nutraceutical system solutions provider for supplements in human applications

### **Evonik strengths:**

- Fast-growing market driven by health-conscious consumers
- Differentiation through scientific evidence and formulation capabilities
- High level of synergies within Nutrition & Care (e.g. biotech, delivery systems)

### Market size:

~€25 bn

### Market growth:

5 - 10%



## Status quo

Business transformed from only human amino acid business towards portfolio of high-value functional nutritional products, e.g.:



### AvailOm®:

- Omega-3 fatty acid powder
- >5 times higher bioavailability than traditional liquid soft-gels
- 100% sustainable sources (algae)



### IN VIVO BIOTICS™:

Product portfolio of synbiotic solutions launched, addressing gut, metabolic, and mental health, beauty from within and gluten intolerance

# Potential going forward

7 products launched until today

### **Geographical expansion**

B2B: **AvailOm**® new registrations in Brazil, India & Australia

B2C: **Medox**® high double-digit growth in China

5 new launches in 2022 (e.g.
 GuardCap™, new capsule generation for delayed release)

### **Future growth drivers:**

Expanding existing competencies into additional markets (e.g. Nutricosmetics)

Leverage strong N&C expertise in fermentation to participate in fast growing alternative proteins market



# Innovation growth field: Sustainable Nutrition

# Transform Animal Nutrition into system solutions for sustainable protein

### **Markets and USP**

System solutions addressing demand for sustainable & healthy food chain with reduced environmental footprint

### **Evonik ideally positioned:**

- Strong nutritional know-how and services
- Global customer reach through Evonik's brand recognition in Animal Nutrition
- Key capabilities in R&D and innovation (in vivo, in vitro, gut model)

Relevant market: ~€800 m

Market growth: ~7%

# Status quo

### **Established product portfolio for:**



Non-antibiotic livestock via Gut Health Solutions (e.g. probiotic "GutCare")



Dairy eco footprint improved via delivery system "Mepron"



**Fighting overfishing** via omega-3 from natural marine algae

# Potential going forward

### **Future growth driver:**



### **Sustainable Livestock Farming**

Coherent portfolio of differentiated products, services and solutions for poultry, swine and ruminants



**MONITOR** livestock farming



**SOLUTIONS** formulations, digital Services

Industry Value Potential: ~€5 bn

Potential for product, service & digital revenues



# Creavis acting as business incubator within Evonik

# The Creavis approach ...

Using this approach Creavis pursues New Business

Development for the divisions and the group











is cross-industry and interdisciplinary



<sup>1.</sup> Next Generation Solutions (Driver, Leader) according to PARC logic at the time of commercialization 2 After project start

# Innovation with clear focus on Sustainability Focus Areas

**FIGHT CLIMATE** Hydrogen Economy **CHANGE Membranes** 13 KUNIDUET Renewable Carbon **DRIVE** Circularity **CIRCULARITY** Cosmetic Solutions **New Formulation Business** >€1 bn sales **Evonik Innovation Growth Fields Creavis New Growth Areas** by 2025 **SAFEGUARD** Farm to Fork **ECOSYSTEMS** Sustainable Nutrition 15 LIFE ON LAND **New Data Business ENSURE HEALTH** Healthcare Solutions **Novel Therapeutic Concepts & SAFETY Prevention & Wellbeing** Advanced Food Ingredients



# **New Growth Area: Hydrogen Economy**

# Tapping into a major opportunity with our DURAION® membrane

# Challenge

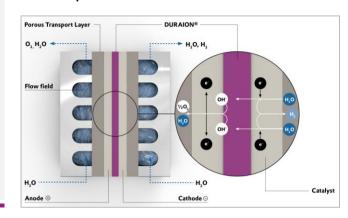
Currently two major technologies in place for hydrogen electrolysis – both with major downsides:

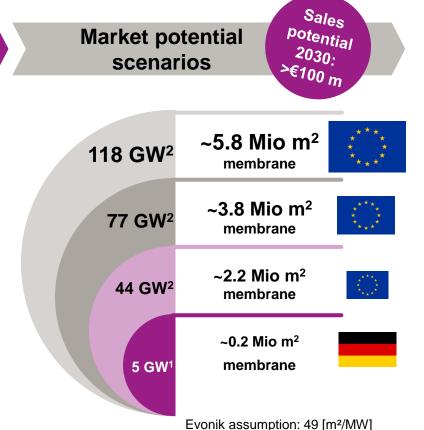
- State of the art Proton Exchange Membrane (PEM) electrolysis requires rare precious metals and expensive materials
- Established Alkaline Electrolysis (AEL) does not require precious metals, but is not very flexible

# **Evonik Proposition**

Evonik's novel Anion Exchange Membrane (AEM) is the most cost-efficient way to ramp-up green hydrogen with key advantages:

- High production rates
- Dynamic operation
- Pressurized H<sub>2</sub> production
- Inexpensive materials & electrodes



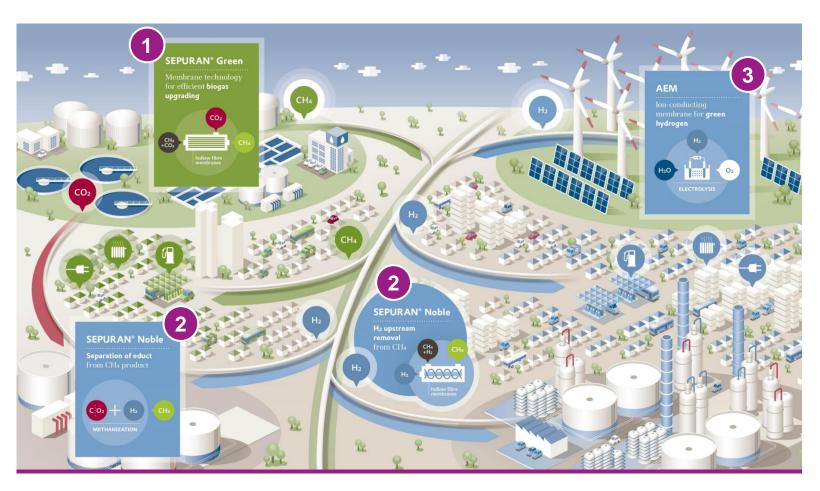




membrane area required for 1MW

<sup>1.</sup> Study IndWEDe-NOW GmbH, 2018 2 Green Hydrogen for a European Green Deal A 2 x 40 GW Initiative, Hydrogen Europe; Translation with internal assumptions (Creavis)

# Smart enabler of the sustainable gas economy



With our **membrane technology**, we significantly contribute to the transition to a sustainable gas economy:

# 1 SEPURAN® Green

 Raw biogas from organic waste is converted into sustainable biomethane and "green" CO<sub>2</sub>

# 2 SEPURAN® Noble

- Our hydrogen extraction membranes enable to use existing natural gas pipelines to transport and extract green hydrogen
- In the production of synthetic biomethane from CO<sub>2</sub> and green hydrogen, we ensure efficient product separation

# 3 Anion Exchange Membrane

 With our ion-conducting AEM membranes, we contribute to the breakthrough of electrolytic production of green hydrogen in the future



# **New Growth Area: Circularity**

# Novel PU additives enabling chemical recycling of flexible foam

### Challenge **Evonik Proposition** Solution 40 million mattresses are discarded in Vita EVONIK Europe per year $\rightarrow$ 300 kt/a of PU waste **Evonik offering is twofold:** an components Tailored Evonik PU additives to allow for high use level of recycled PU components Landfill Incineration Downcycling 50 % 33 % 17 % Recycling **New proprietary hydrolysis** process providing high quality Retailers, OEMs & EU pushing for recycled raw material for circular solutions of flexible PU foam re-use in polyurethane foam PU industry threatened if PU foam production cannot be recycled Disposal



# We have aligned Creavis to address key global challenges



### **Defossilation**

Solutions for a climate-neutral society



# Life Sciences

Solutions for a growing & aging world population



# **Solutions Beyond** Chemistry

Data-based solutions for system renewal





# **Foresight**

Identification of future chances and challenges



### **Networks**

Link to external innovation partner & organizations



# **Technology & ESHQ**

Providing the technical and organizational basis



# **Evonik Venture Capital enables access to technology leaders globally**

- Investments in global innovation leaders with disruptive technologies and business models
- High relevance for Evonik portfolio aim to support and accelerate the growth of Evonik

**€250 m** designated funds

46 investments to date

**7** exits to date

>2x financial returns<sup>1</sup>

## **Integration into business**

# **Structured Polymers (US)**

- Formulations and Materials for 3D-Printing
- Acquisition by Division
   Smart Materials in 2018

# JeNaCell (DE)

- Nature identical biomaterials
- Acquisition by Division
   Nutrition & Care in 2021

# Value creating exit

## FRX Polymers (US)

■ IPO in May 2022

Cooperation with Division Specialty Additives



<sup>1</sup> Based on capital invested

# **Evonik Sustainability Tech Fund**

# for investments in technologies towards carbon neutrality

Hydrogen

**Economy** 

New **Venture Capital fund** with volume of

€150 m

Started in May 2022 Investments made with the primary objective to achieve CO<sub>2</sub> mitigation by reducing and removing emissions and foster carbon sequestrations Drive Feedstock Switch **Future Mobility** Circularity and Substitution Renewable

Carbon



Clean

**Energy Production** 

# **Enabling sustainable growth through innovation**

Our new RD&I organization enables clear alignment across divisions and functions – ensuring consistency and efficiency

Sustainability is fully integrated into innovation portfolio steering – aiming at both handprint and footprint optimization

**Innovation Growth Fields** on track to achieve target of >€1 bn sales in 2025

Creavis focused on potential beyond 2025 – aligned with our four Sustainability Focus Areas

New Sustainability Tech Fund to capture business opportunities and position Evonik as sustainability leader



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# **ONE Evonik. ONE Culture**

# ... with unifying elements for a diverse company

# **Our Purpose**

inspires us

LEADING BEYOND CHEMISTRY

TO IMPROVE LIFE,
TODAY AND
TOMORROW

# Our Values guide us



# Safety first as foundation:

- Accident frequency as part of management compensation
- Low level secured over the last years<sup>1</sup>

# Diversity as basis of our economic success:

- Ambitious targets defined
- Inclusive mindset and behavior ultimately utilize diversity successfully

# **Attractive employer:**

 Employee commitment with increase of 5 pp in latest employee survey



<sup>1.</sup> below upper limit of 0.26 (number of accidents per 200,000 working hours)

# High-performing organization complemented by self-help measures

# Cost excellence in Administration and Operations supporting margin target



**Administration** 

### SG&A

- Started in 2018
- Total savings of ~€200 m achieved by end of 2020

Completed



**Operations** 

### On Track

- Continuous factor cost compensation in Production and Procurement
- Started in 2008,~€120 m gross savings p.a.

Ongoing

### **New divisional structure**

- Leaner organizational setup & and optimization of processes (reduction of 150 FTE¹)
- Cost savings of €25 m by end of 2021

New

# **Optimizing businesses**

 Strengthening cost position and optimizing portfolio on business line level (e.g. Animal Nutrition, Care Solutions)

Ongoing

## **Factor cost compensation**

- From 2021 onwards, following completion of SG&A program
- Continuous benchmarking in Corporate and Admin

Going forward

### **Supply Chain**

- Optimized end-to-end processes
- Lower supply chain costs and reduced Capital Employed

Going forward



# Diversity goes far beyond qualitative targets

# We approach diversity with diversity

# Diversity is key to economic success

 Evonik ranks among top European companies in terms of diversity



- We address diversity strategically, culturally and with an eye toward our business processes
- Top management as prominent role model in embracing diversity, e.g. in Diversity Council

# **Specific goals with highest priority (by 2023)**

- Gender diversity: e.g. 23% of executive & senior management positions and 30% on manager level (2022: 20%/17%/29%)
- Intercultural mix: e.g. 20% of executive and 35% of senior management positions (2022: 15.8%/25.5%)

# Diversity open far beyond qualitative targets!

- Diversity is not only a numeric game but a matter of culture
- An inclusive mindset and behavior ultimately determine if we can utilize diversity successfully

**Diversity creates growth** 

**Diversity creates innovation** 

Diversity brings us closer to our customers

**Diversity is our future** 



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# **Specialty Additives**

# Additive solutions for maximum performance

## "SMALL AMOUNT. BIG EFFECT"

FY 2022 financials



Margin<sup>1</sup>: **23%** 



Sales: **€4,184** m



ROCE: 16%

Key products & solutions



Additives for coatings and inks



Additives for polyurethane foam



Specialty defoamers and wetting agents



Epoxy hardeners for crosslinkers



Lubricant additives

**Growth** highlights



Making the difference



Enabling circular economy



Digital Solutions



<sup>1.</sup> Adjusted EBITDA margin

# **Specialty Additives**

# End markets and product examples

### Other

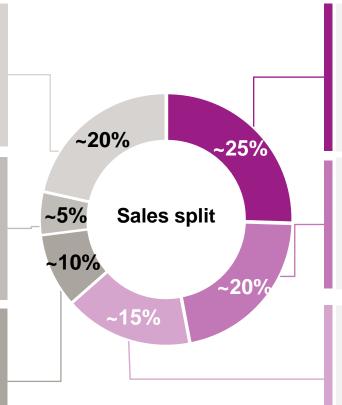
- Additives for conventional and biological plant protection for growing global population
- Industrial gear lubricants to achieve more productivity, less downtime and optimal fluid service
- Coating Additives for flame retardant cables

### **Environmental**

- Crosslinkers for wind blades to enable mechanical stability and ensure a long service life
- Linerless labels to reduce material usage
- Foam stabilizers for water-based PU artificial leather production

### **Coatings**

- Additives for paint systems as lasting barrier against chemical cleaning agents
- Marine coatings
- Fillers to increase burnish resistance and prolong life of paints



### **Mobility**

- Coating additives for topcoats and under body coating
- Anti-fouling coatings for ship hulls
- PU foam additives for seating
- Lubricant additives for motor and transmission oils

### Construction

- Crosslinkers for composite-reinforced bars
- Additives for more durable cement-based applications
- Water repellent additives to protect buildings against precipitation

### **Consumer goods**

- PU foam additives for fridges and freezers
- Soil and water repellent additives for fabrics used in outdoor clothing and equipment



# Specialty Additives make the difference in customer's formulations Improving product characteristics and sustainability profile



# **BIG EFFECT.**



Novel **PU additives** enabling environmentally-friendly **housing insulation spray foam** 





Coating additives
prolong life of wall paints





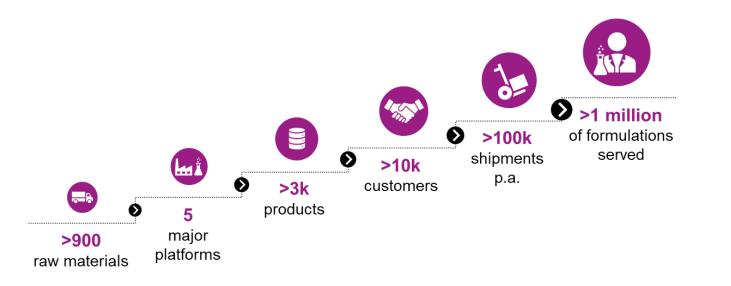
Silicone coatings for linerless labels resulting in up to 40% material reduction





# Specialty Additives is mastering a highly complex business

# Resulting in tangible benefits



# How? Experienced management team Culture & collaboration Mastering complexity Digitalization & automation Supply chain excellence

**High barriers to entry** 

Strong market & customer position

Resilient financial performance



# Specialty Additives is an important enabler of Circular Economy

# Decoupling growth from resource consumption

MECHANICAL RECYCLING



- During separation/washing,
   our additives help to make recycling processes more
   efficient resulting in higher quality of recyclates
- During compounding, our additives improve processing leading to competitive costs and quality

CHEMICAL RECYCLING



- Technologies & additives to enable chemical recycling
- Additives enabling for example
  - use of recycled polyurethanes
  - silicone recycling

>€350 m

sales potential of Evonik Circular Plastics Program by 2030



# **Nutrition & Care**

# Focused portfolio on consumer-oriented end markets with high level of synergies

# "Bringing Nutrition & Care to Life – For life and living"

FY 2022 financials



Margin<sup>1</sup>: **16%** 



Sales: **€4,237 m** ROCE: **9%** 



**Business** lines



Sales: **€2,045** m

Care **Solutions**  Health Care



Sales: **€2,192 m** 

**Animal Nutrition** 



Growth highlights



**Active Ingredients** 



**Drug Delivery Systems** 



Sustainable & **Healthy Nutrition** 



Biotechnology (e.g. Biosurfactants; Veramaris)



<sup>1.</sup> Adjusted EBITDA margin

# **Nutrition & Care**

# End markets and product examples

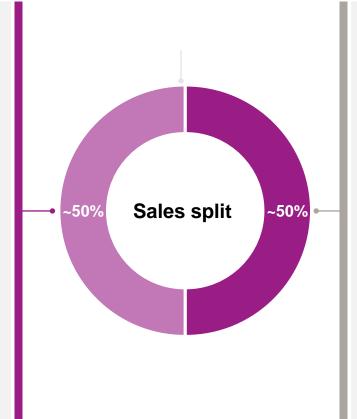
### **Health & Care**

### **Personal and Home Care**

- Cosmetic Active Ingredients
- Active Delivery Systems
- Cosmetic Functional Ingredients
- Biosurfactants
- Fabric Enhancer
- Industrial and Institutional Cleaning

### **Pharmaceutical**

- Drug Delivery Systems
- Contract Development and Manufacturing (CDMO)
- Active Pharmaceutical Ingredients (APIs)
- Pharma Amino Acids
- Cell Culture & Tissue Engineering
- Medical Devices



### **Nutrition**

### **Animal Nutrition**

- Amino Acids
- Delivery Systems in Dairy Cows
- Gut Health Solutions
- Enhancement of energy metabolism
- Natural Algal Oil (Veramaris)
- Digital and Analytical Services

### **Human Nutrition**

- Advanced Food Ingredients
- Neutraceutical Coatings



# Nutrition & Care growth: Focusing on shared technology platforms Strong synergies and joint resources across all three businesses

# **Technology Platform Example Biotechnology – Process Excellence and Launched Products**

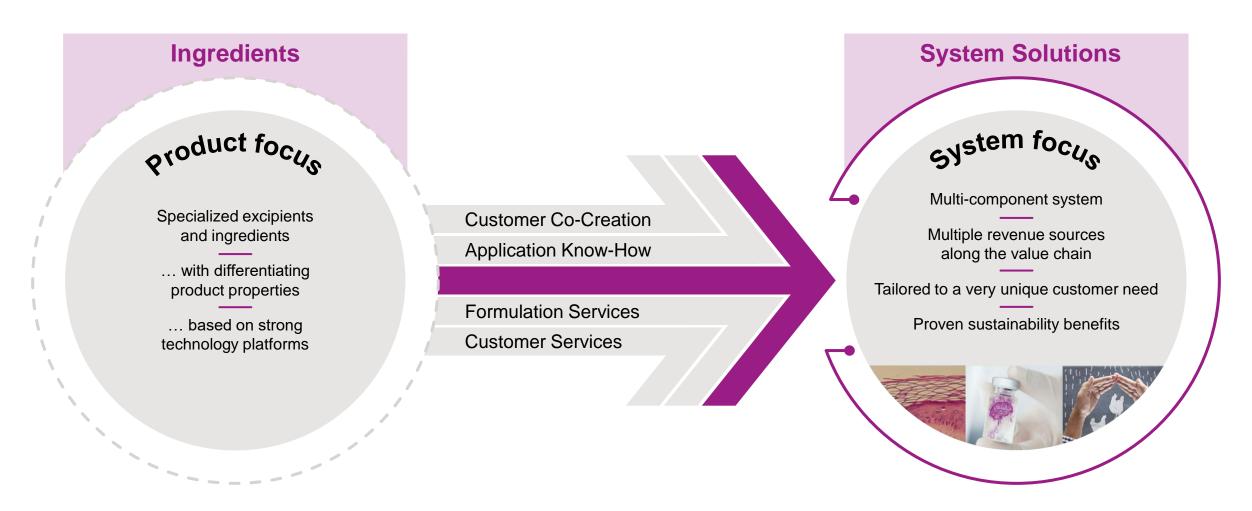
	Care Solutions		Health Care	5	Sustainable Nutrition
Microbiome Modulation	Microbiotic actives to support skin barrier function	Probiotics and Gut Health Solutions			
Biotech Processes	Non-animal derived Collagen		Cell Culture		Natural algae-based omega 3 fatty acids
	Actives (e.g. Ceramides)		CDMO (e.g. fermentation-based proteins)		
	Biosurfactants		Amino acids pharma grad	de	Bio amino acids

Sales potential from biotechnology platform of ~ €1 bn by 2030 latest



# Nutrition & Care: Strategic portfolio shift towards "System Solutions"

Portfolio upgrade towards higher specialization and higher returns





# Nutrition & Care: System Solutions businesses as major growth driver

>50% sales from Systems Solutions as strong commitment

# **Sales share of System Solutions**



# Resulting in....

Higher growth prospects

Strong pricing power

Above average margin

Higher return on capital

# **Examples of System Solutions**



## **Active Ingredients - Retinol**

- Reducing wrinkles without inducing skin irritation
- Formulation service: Encapsulation as delivery technology to increases stability and bioavailability



### **Drug Delivery Systems – Complex Parenterals**

- Lipid nano particles for vaccination, cell and gene therapy
- Integrated services from feasibility to commercial



### **Sustainable & Healthy Nutrition – Probiotics**

- GutCare® for healthy poultry nutrition without AGP¹)
- Holistic, ready-to-use concepts for animal diet formulations, designed on specific customer needs





# **Smart Materials**

# Focused portfolio on environmentally friendly solutions

# "We find solutions for the needs of today and tomorrow"

FY 2022 financials



% | Margin<sup>1</sup>: **14%** 



Sales²: **€5,240** m



ROCE: **7%** 

Two strong technology platforms



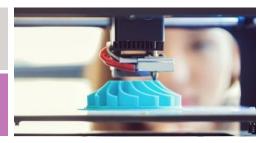
Sales: €3,891 m

**Inorganics** 



M Sales: €1,349 m

**Polymers** 



Growth highlights



Future Mobility (e.g. PA12, Silica, Battery Materials)



Eco-Solutions (e.g. Active Oxygens, Membranes, Catalysts)



Adjusted EBITDA margin

Restated for Alcoxides

# **Smart Materials**

# End markets and product examples

### Chemicals, Oil & Gas

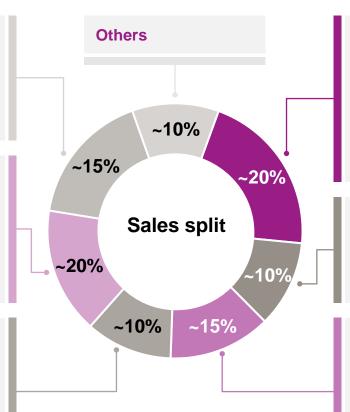
- Silica for silicones
- H<sub>2</sub>O<sub>2</sub> for chemical synthesis (e.g. HPPO, HPPG, PA12 and PA6)
- Catalysts for refining industry

### **Environmental**

- H<sub>2</sub>O<sub>2</sub> and PAA for waste-water treatment
- Gas-separation membranes (e.g. biogas, natural gas)
- Rejuvenation of catalysts
- Catalysts for diverse applications (e.g. hydrogenation)
- Silica for adhesives in windcraft blades

### **Consumer Goods/Durables (incl. electronics)**

- High-performance polymers for lifestyle and sporting goods
- High-purity H<sub>2</sub>O<sub>2</sub> for semi-conductors
- Resins for coatings in durable goods
- Polymer powders for additive manufacturing



### **Automotive/Transportation**

- Silica / Silanes for low rolling resistance tires
- High-performance polymers (e.g. PA12) for under-thehood applications (e.g. fuel lines, busbars)
- High-performance foams, PEEK, PA12 for lightweight applications for aerospace
- Binders & additives for sealants & adhesives

### **Construction/Coatings**

- Binders & additives for coil coatings
- Protective coatings for buildings
- Binders & additives for sealants & adhesives

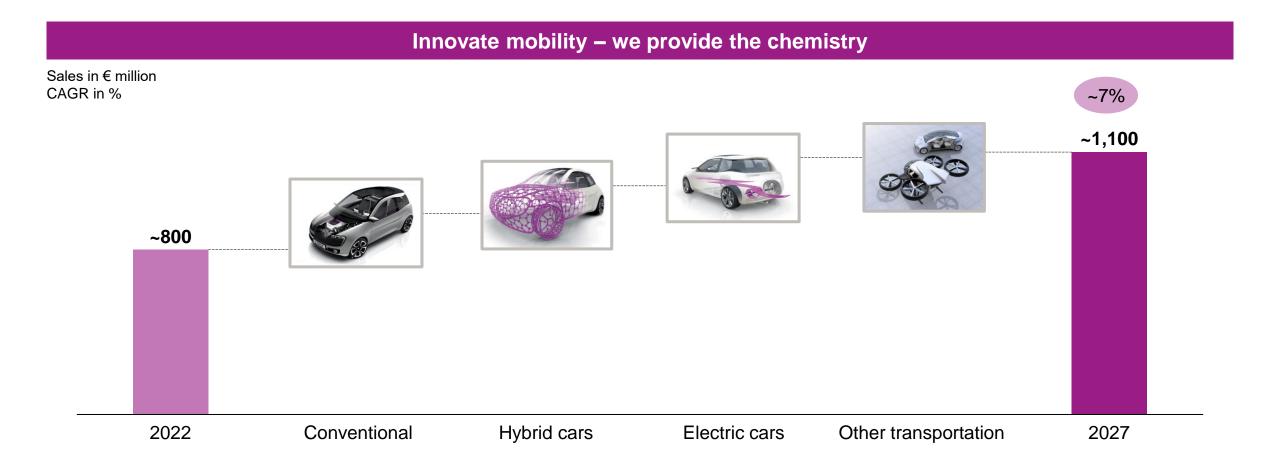
### Personal Care, Food, Feed, Pharma

- Silica for toothpaste
- Catalysts for pharma synthesis
- PEEK for medical applications
- H<sub>2</sub>O<sub>2</sub>/PAA for disinfection of food & beverage
- Additives for nutrition industry



# "Future Mobility" growth drivers

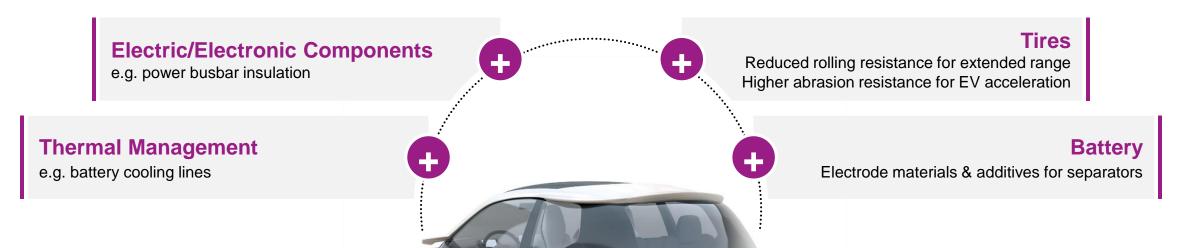
# Growth to around €1.1 billion sales by 2027





# Smart Materials: Product solutions in hybrid and full battery cars

Extending the value potential of a conventional car (~€30)



# **Hybrid Car**

In a hybrid car, Smart Materials' existing solutions with a value potential of

~€45

# **Full Battery Car**

In a full battery car, Smart Materials' existing solutions with a value potential of

~€70



# "Eco-Solutions" growth drivers

# Growth to around €900 million sales by 2027

**Active Oxygens** 

**Specialties** 

# Focused on specialty end markets with strong secular growth trends

Membranes

Sales in € million CAGR in %

~900 Enabler to thermal Enabler to efficient insulation chemical processes Reduced energy Enabler to renewable consumption Reduced CO<sub>2</sub> energy generation emissions and waste Potential for 100% High yield, high purity renewable raws separation Only water and acetic acid in use

**Special Catalysts** 

Other eco-solutions



2027

~9%

2022

~600

<sup>1.</sup> Not incl. €300 m Alcoxides transfer from PM to SM as of 1st January 2023

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## **Financial targets**

## ... for Evonik and its three growth divisions

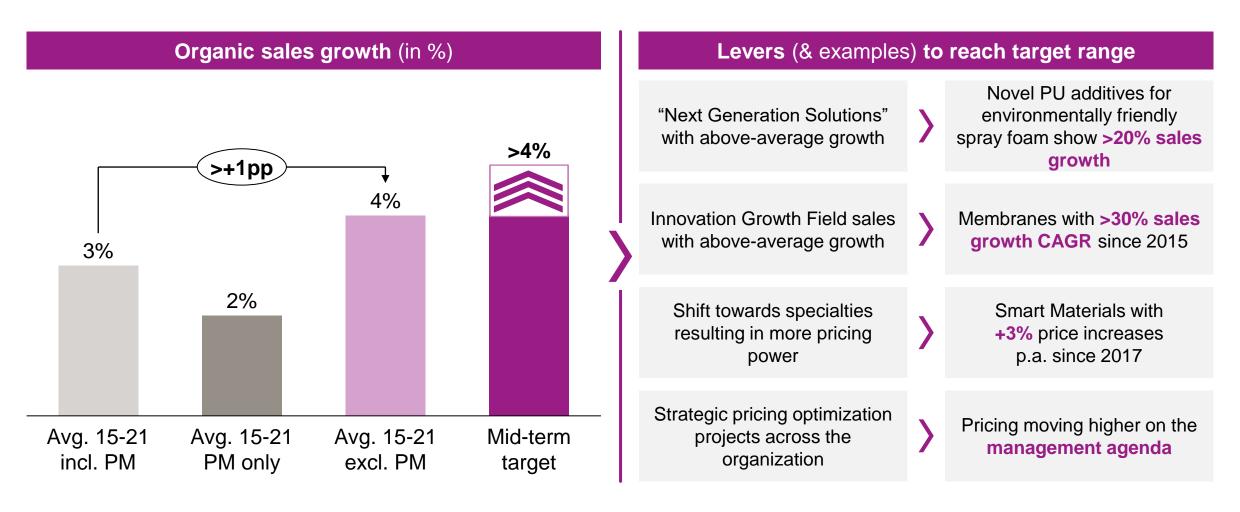
Group Targets	
Organic sales growth CAGR <sup>2</sup>	>4%
Structurally lift EBITDA margin into sustainably higher range of	<b>)</b> 18-20%
Cash Conversion ratio of <sup>3</sup>	>40%
ROCE well above Cost of Capital	~11%
Reliable and sustainably growin	ig dividend
Solid investment grade ra	ating

Targets Growth Divisions							
	Specialty Additives	Nutrition & Care	Smart Materials				
Next Generation Solutions <sup>1</sup>	>40%	>50%	>50%				
EBITDA margin	Secure strong level (2022: 25%)	<b>&gt;22%</b> (2022: 20%)	<b>~20%</b> (2022: 14%)				
ROCE	Secure strong level (2022: 18%)	<b>&gt;14%</b> (2022: 12%)	<b>&gt;11%</b> (2022: 8%)				



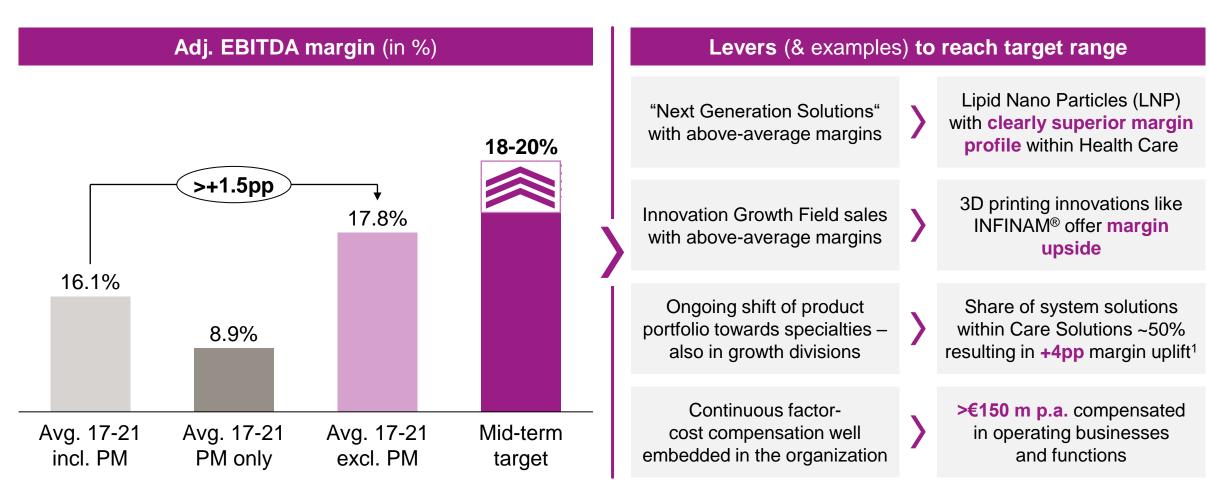
<sup>1:</sup> Products and solutions with a clearly positive sustainability profile that is above or well above the market reference level | 2: In growth divisions | 3: Cash Conversion ratio defined as FCF/Adj. EBITDA

## Accelerated organic sales growth through sustainability, innovation and pricing focus





# Constant portfolio upgrading and cost consciousness resulting in margin uplift

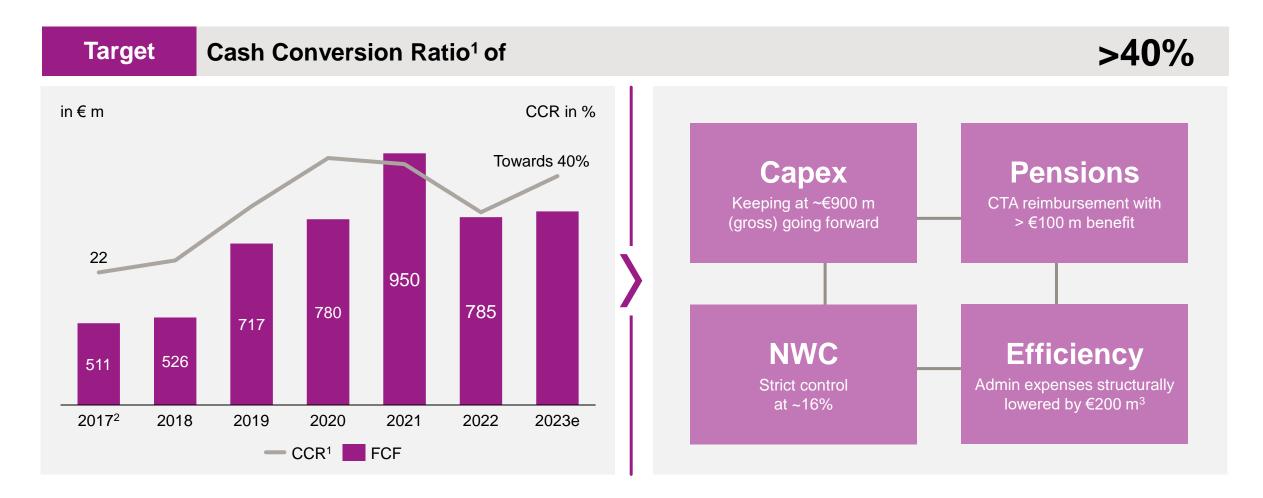


<sup>1.</sup> System solutions share as of today; margin comparison 2021 vs. 2017



## FCF: Cash conversion rate towards 40% in 2023 again

Target of >40% already achieved in 2020 - further levers going forward





## Cash flow and divestment proceeds drive our green portfolio transformation

#### Significant cash inflow ...

### **Increasing Operating Cash Flow**

Attractive cash conversion with steadily growing earnings

**Divestment proceeds Performance Materials** 

#### ... invested into our green transformation

>€3 bn

Growth capex for<sup>1</sup>

**NEXT**GEN **X** Solutions

~€700 m

2022-2030

Capex for<sup>2</sup>

**NEXT**GEN **X** Technologies

#### **Targeted M&A**

to accelerate green portfolio transformation

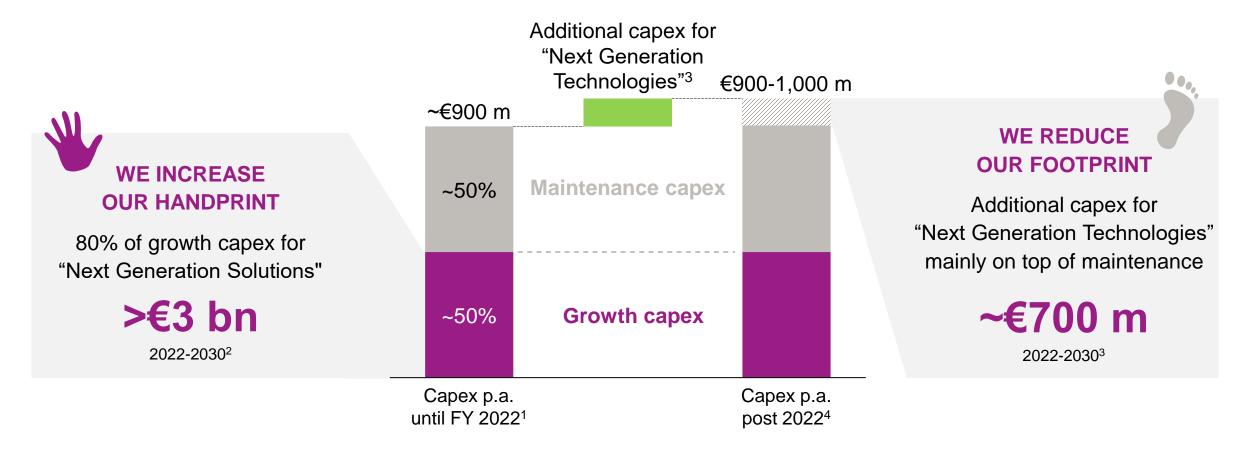
Reliable and sustainably growing dividend

#### Solid investment grade rating

1. 80% of growth capex for "Next Generation Solutions" (~€350 m p.a.) | 2. Additional capex for "Next Generation Technologies" (~€80 m p.a. on average), incl. Performance Materials



## Capex as key element for investments into handprint & footprint



<sup>1.</sup> Incl. ~€50 m p.a. for Performance Materials | 2. ~€350 m p.a. | 3. ~€80 m p.a. on average incl. ~€15 m p.a. for PM, ramping up gradually over the coming years | 4. Incl. ~€65 m p.a. for PM



## Clear value generation with investments into "Next Generation Solutions" and "Next Generation Technologies"

## **NEXT**GEN Solutions **X**

## **NEXT**GEN Technologies **\***

#### Target & benefit



>50% sales share

Products with superior sustainability<sup>1</sup> and financial performance



**-25%**<sup>2</sup>

Projects to lower CO<sub>2</sub> emissions with value-enhancing, positive NPVs

#### Value creation

#### Clear investment criteria – aligned with strategic, sustainability and financial targets

- Above-average market growth
- Superior sustainability profile (PSA analysis)
- IRR above ROCE target (>11%)
- CO<sub>2</sub> pricing implemented

#### 1. "Next Generation Solutions" include "Leader" (A++) and "Driver" (A+) products and solutions

#### €700 m capex (2022-2030) ...

Scope 1+2

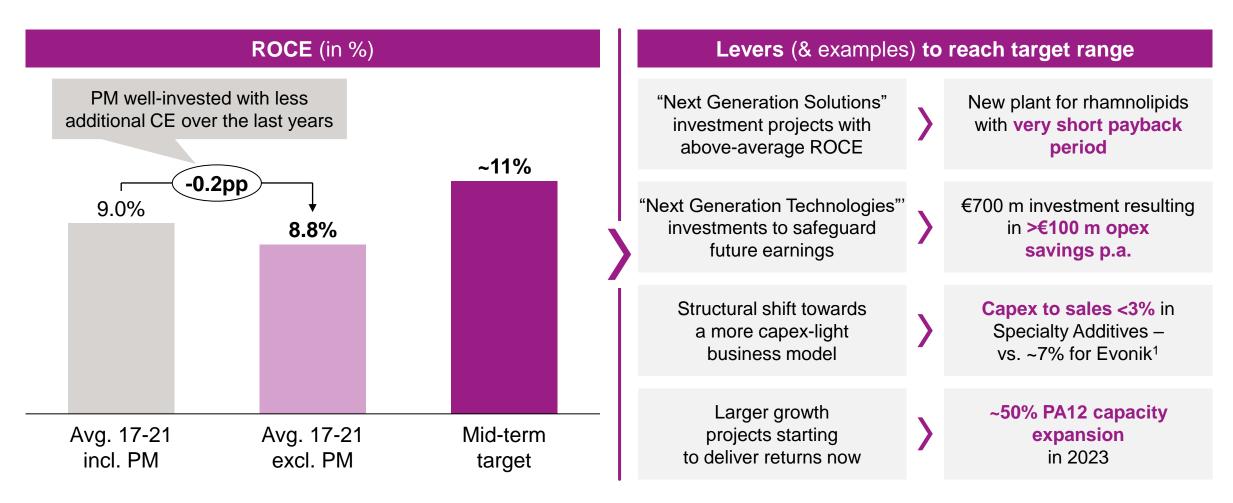
- For NPV-positive projects
- For advanced levers, innovative waste heat up-cycling and process re-design

... resulting in >€100 m opex savings (p.a.)



<sup>2.</sup> Commitment letter signed and handed in for SBTi, 25th April 2022, gross emissions reduction with reference year 2021, target year 2030

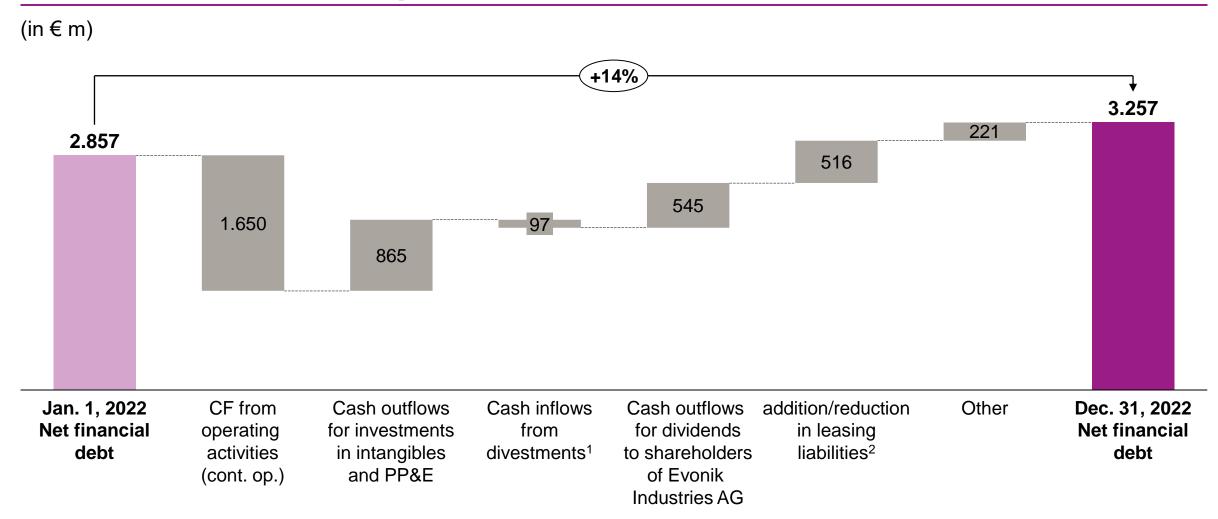
## Organic growth and capex discipline to lead towards a structural ROCE increase



<sup>1.</sup> Average 2017-2021



## Net financial debt development FY 2022

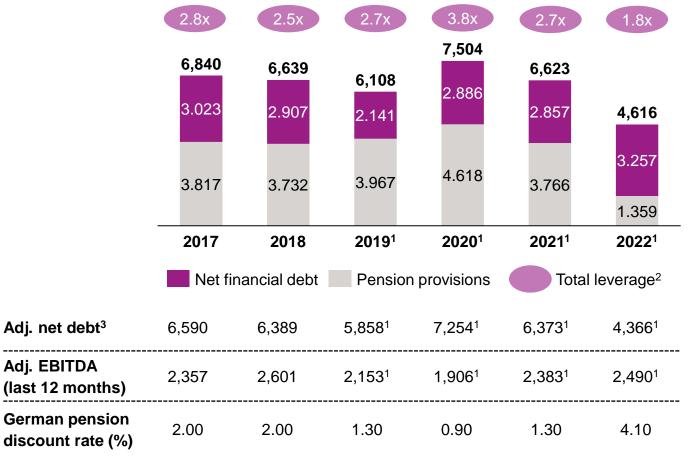


<sup>1.</sup> Incl. cash-in for divestment of TAA-derivatives and US betaine operations in Hopewell, Virginia | 2. Primarily due to the start-up of new gas and steam power plants in Marl



## Development of debt and leverage over time

(in € m)



<sup>1.</sup> Continuing operations (excluding methacrylate activities) | 2. Adj. net debt / adj. EBITDA

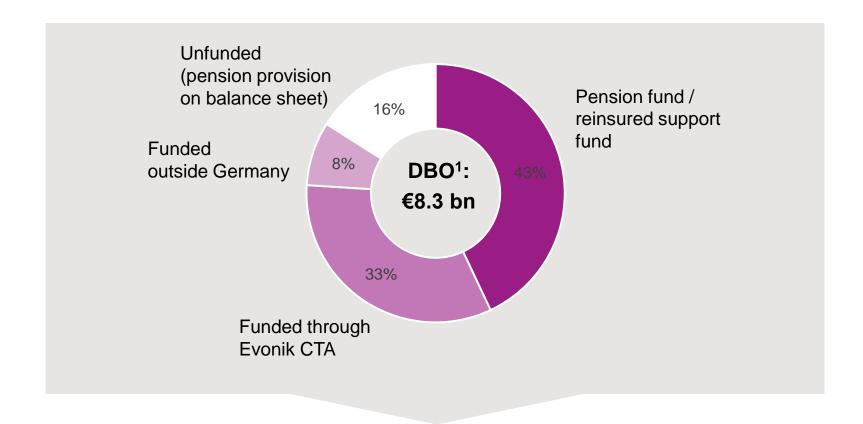
- Majority of net debt consists of long-dated pension obligations with >13 years duration
- FY 2022: Lower pension provisions from increase of pension discount rates (German pension discount rate increase from 1.3% at year-end 2021 to 4.1%)
- Pension provisions partly balanced by corresponding deferred tax assets of ~€0.5 bn
- Increased net financial debt versus year-end 2021: free cash flow counterbalanced by cashouts for dividend and additions of leasing liabilities, primarily due to start-up of new gas & steam power plants in Marl
- Low net financial debt leverage at 1.2x<sup>4</sup>



<sup>3.</sup> Net financial debt – 50% hybrid bond + pension provisions | 4. (Net financial debt – 50% hybrid bond) / adj. EBITDA

#### **Pensions**

## Pension funding overview as of 31 December 2022



- Pensions very long-term, patient debt (>13 years) with no funding obligations in Germany
- Lower pension provisions (€1.3 bn)
   from increase of discount rates
  - German pension discount rate increase from 1.3% to 4.1%
- Solid funding level of ~85%

Funding level at ~85%

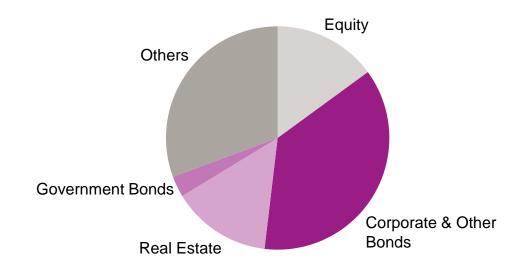


<sup>1.</sup> DBO: defined benefit obligations

#### **Pensions assets**

## Structure and performance of pension assets

#### **Structure of pension assets (FY 2022)**



**€7.0 bn** plan assets covering **~€8.3 bn** DBO with **~85%** funding ratio<sup>1</sup>

#### **Performance of pension assets**

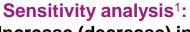
- Pension assets with a relatively defensive and diversified portfolio mix (only 15% equity quota)
- Conservative performance targets going forward sufficient to keep the current funding ratio

Even in a more difficult environment **no need for further top-ups** to maintain current funding ratio



#### **Pensions**

## Sensitivity to discount rate changes



Increase (decrease) in discount rate by 100 bp in year x



#### Impact in year x

Personnel costs: no impact

• Finance costs: no impact

Cash flow: no impact

DBO: decrease (increase) of DBO by
 -€1.9 bn (+€2.4 bn) against equity and deferred tax liabilities (assets)

#### Impact in year x+1

- Personnel costs: decrease (increase) due to lower (higher) service costs
- Finance costs: increase (decrease) due to higher (lower) pension interest

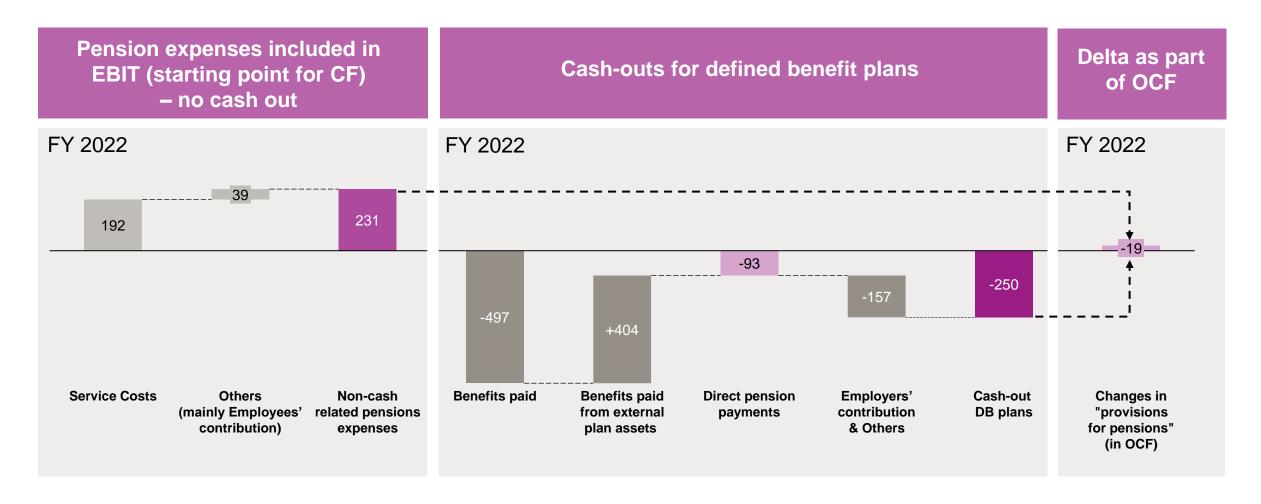
Cash flow: no impact

■ DBO: no impact



<sup>1:</sup> Excluding any effects from potential actuarial changes and changes in the valuation of plan assets

## Transition of "Changes in provisions for pensions" in Operating Cash Flow

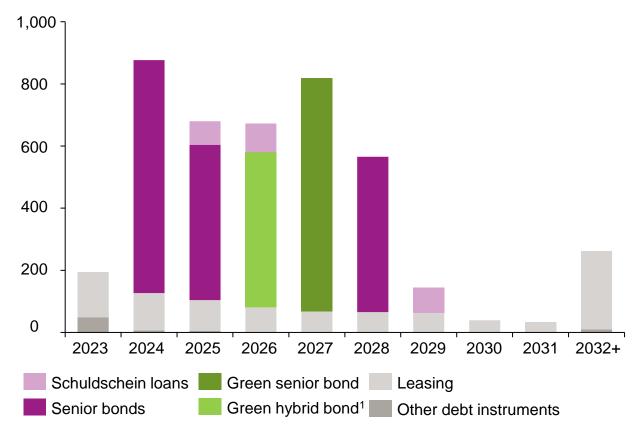




#### **Debt Structure**

## Well balanced maturity profile

(in € m as of December 31, 2022)



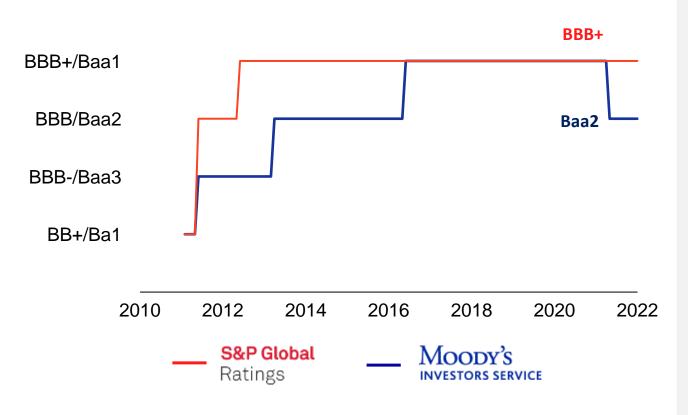
1) Formal lifetime of 60 years; first redemption right for Evonik in 2026

- Well balanced debt maturity profile with no single bond maturity greater than €750m
- In May Evonik successfully issued a €750m green senior bond to refinance a senior bond in same amount due beginning of 2023 (early redeemed already in October)
- €250m Schuldschein loan issued in August with tenors of 3, 4 and 7 years
- Long-term capital market financing secured at favorable conditions:
  - average coupon of 1.1% p.a. on €2.5 bn senior bonds
  - coupon of 1.375% p.a. on €0.5 bn new hybrid bond
- €1.75 bn syndicated credit facility early refinanced in full amount in November with a tenor of 5 years (plus two extension options for one year each)



## Financial policy

## Maintaining a solid investment grade rating



**S&P** rating remains unchanged at **BBB+/stable** since 2012

In April 2021, **Moody's** downgraded the rating of Evonik from Baa1/negative to **Baa2/stable** mainly due to elevated leverage metrics. At the same time Moody's acknowledges Evonik's progress in the further development of its specialty chemicals portfolio as well as its solid liquidity profile

A Baa2/stable still represents a solid investment grade rating

Both rating agencies acknowledge

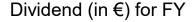
- a strong business profile of Evonik underpinned by significant size and leading global market positions
- greater-than-peer diversity in terms of end-markets and product range
- supportive financial policy and management commitment to a solid investment-grade rating

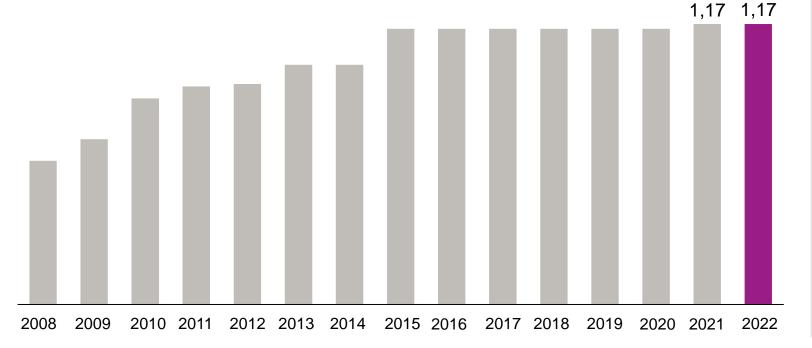
Maintaining a solid investment grade rating is a central element in our financing strategy



## **Spotlight on shareholder returns**

## Reliable and attractive dividend policy





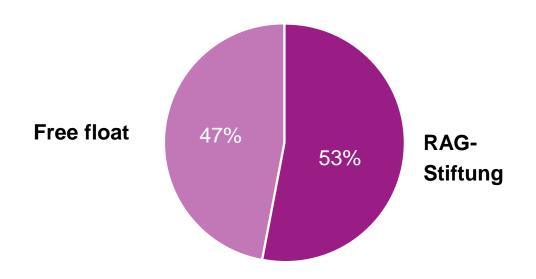
- Stable with €1.17 in FY 2022
- Attractive dividend yield of ~6%
- Reliable dividend policy targeting:
  - Dividend continuity
  - Adj. EPS and FCF growth
     with potential for sustainable
     dividend growth going forward



## "RAG-Stiftung" as long-term shareholder

### Focus on total shareholder return

#### **Ownership structure**



#### **RAG Stiftung**

- RAG-Stiftung manages a portfolio of ~€19 bn assets under management, one of the biggest foundations in Europe
- Portfolio consists of publicly traded securities, private equity, direct holdings, real estate and bonds of various types
- RAG-Stiftung focuses on investments with high total shareholder return and strong cash/distribution profiles
- Underlying goal is to finance/cover the perpetual liabilities arising from hard-coal mining in Germany
- >60% of total portfolio invested in assets other than Evonik
- RAG-Stiftung with strong interest in Evonik's profitable growth, resulting in significant shareholder returns
- Clear intention to remain significant shareholder



## **Management compensation**

Fixed salary

~1/3

To be paid in cash for each financial year

Bonus

~1/3

**KPIs aligned to mid-term strategic targets** 

- 1. Progression towards EBITDA margin target
- 2. EBITDA growth (yoy)
- 3. Contribution to FCF target

... and integrating Safety First mindset:

4. Accident performance

Long-term incentive plan

~1/3

80% share price

- Granted LTI target amount calculated in virtual shares (4-year lock-up)
- Absolute performance: Real price of the Evonik share
- Relative performance against external index benchmark (MSCI Chemicals)



LTI based on strategic ESG KPI's, e.g.:

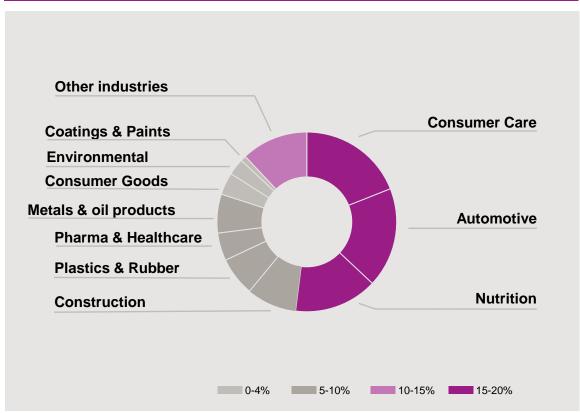
- Sales share of "Next Generation Solutions"
- CO<sub>2</sub> emission reduction
- Employee commitment



## Balanced regional and end market split (FY 2022)



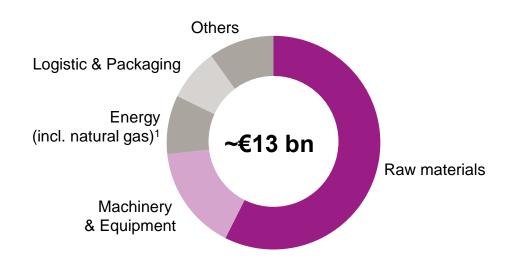
#### **End market split**



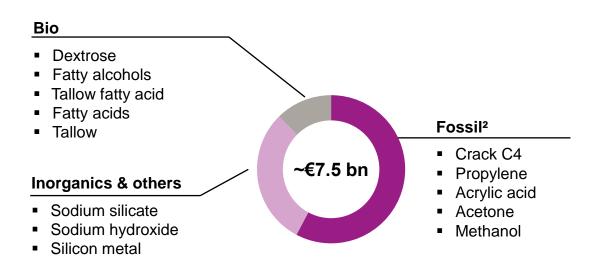


## Procurement volume split & breakdown of raw material spend

#### **Total procurement volume 2022**



#### **Breakdown of raw material spend (examples)**



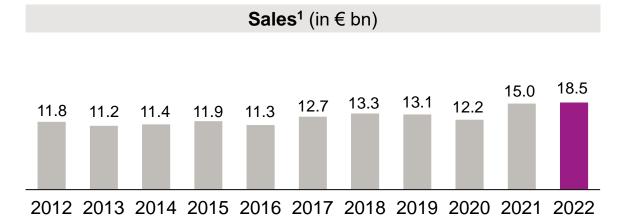
Specialty Additives	Nutrition & Care				
Acetone	Propylene				
Ammonia	Methanol				
Fatty Alcohol	Dextrose				

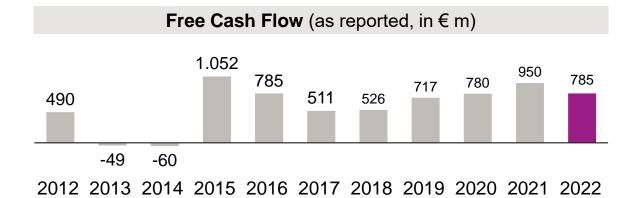
Smart Materials	Performance Materials			
Sodium Silicate	Crack C4			
Silicone Metal	Propylene			
Sodium Hydroxide	Acrylic Acid			

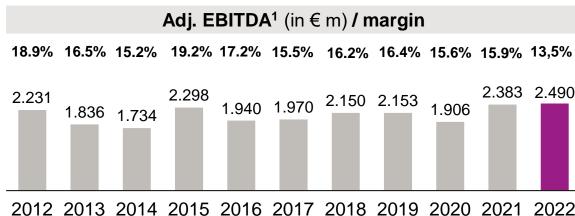


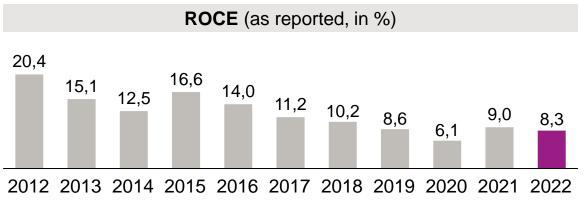
<sup>1:</sup> Gross energy bill, not considering the selling to external parties | 2. Fossil raws from base petrochemicals and synthetic organic markets

### Financials<sup>1</sup>













## **Divisional overview by quarter**

#### RESTATED for Alkoxides business<sup>1</sup>

Sales (in € m)	Q1/21	Q2/21	Q3/21	Q4/21	FY 2021	Q1/22	Q2/22	Q3/22	Q4/22	FY 2022
Specialty Additives	907	922	934	947	3,710	1,049	1,116	1,113	906	4,184
Nutrition & Care	780	838	931	1,008	3,557	1,038	1,027	1,062	1,111	4,237
Smart Materials	909	975	1,002	1,032	3,918	1,284	1,335	1,365	1,256	5,240
Performance Materials	580	708	784	840	2,911	844	945	797	666	3,253
Services, Corporate & Others	182	193	220	264	859	283	349	541	401	1,574
Evonik Group	3,358	3,636	3,871	4,091	14,955	4,498	4,772	4,878	4,340	18,488
Adj. EBITDA (in € m)	Q1/21	Q2/21	Q3/21	Q4/21	FY 2021	Q1/22	Q2/22	Q3/22	Q4/22	FY 2022
Specialty Additives	273	242	224	181	920	252	263	243	188	946
Nutrition & Care	143	183	192	200	717	222	185	148	122	677
Smart Materials	173	176	177	123	650	212	219	188	124	743
Performance Materials	42	99	97	80	317	82	142	63	63	350
Services, Corporate & Others	-43	-51	-45	-82	-221	-33	-81	-27	-85	-226
Evonik Group	588	649	645	502	2,383	735	728	615	413	2,490

<sup>1.</sup> Alkoxides business moved from Performance Materials to Smart Materials as of January 1st, 2023; 2022 financials restated



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