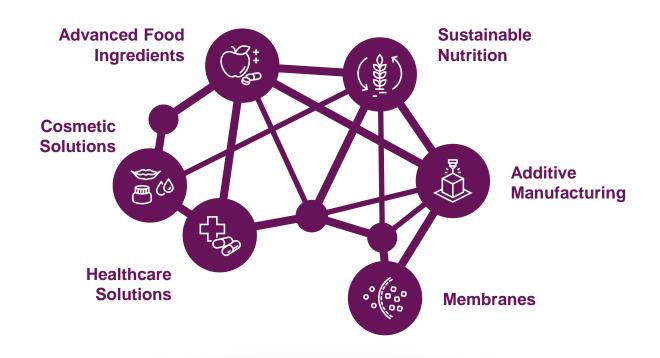
Innovation at Evonik

Evonik Innovation Growth Fields Overview

2023







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

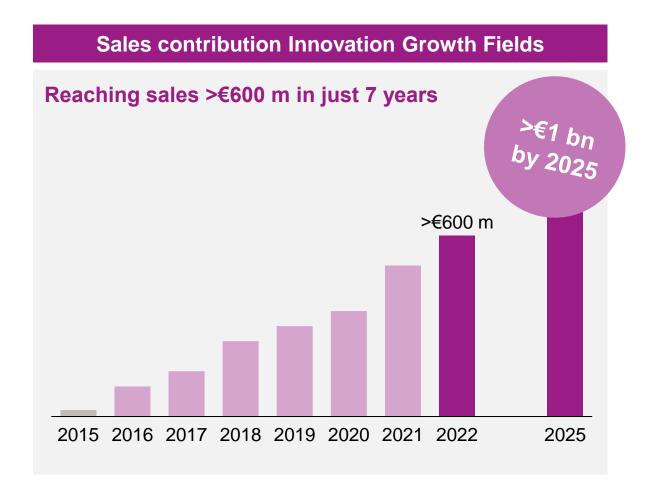
Healthcare

Solutions

Innovation Growth Fields Advanced Food Additive Sustainable Manufacturing Nutrition

Membranes







Cosmetic

Solutions

Innovation Growth Field

Membranes



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: H₂ 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)



A blueprint for future innovation

Evonik with strong growing niche position for gas separation membranes

~2008

Idea for gas separation membranes supported by 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

>1,500 reference plants worldwide

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

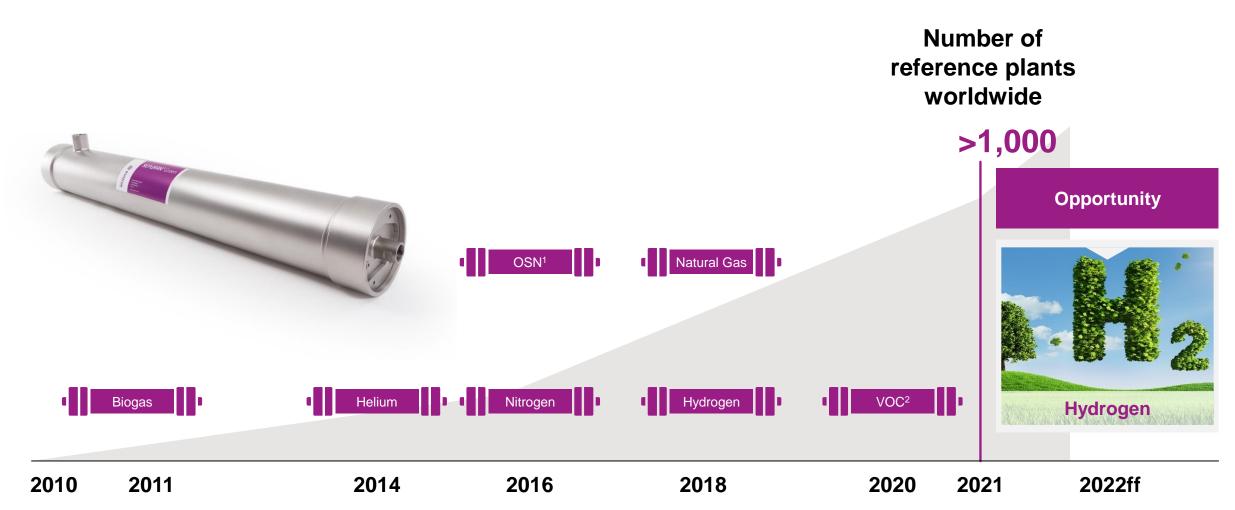


Continuous RD&I efforts to improve product characteristics and scope of application



From startup to global innovation leader within 10 years

Product diversification into multiple gas separation membrane markets



^{1.} OSN – Organic Solvent Nanofitration, 2. VOC – Volatile Organic Compounds



Membranes: Overview of different gas separation markets

Portfolio built on strong technology platforms, innovation, global partner network

Membranes Oil & Gas **Green gases Process gases** Nitrogen Hydrogen/Helium **Natural Gas** VOC **Green Hydrogen Biogas** Market segment Oil & Gas -Heat & Power -Heat & Power -Petrochemicals - Food Oil & Gas Oil & Gas Aircraft **Transportation Transportation** & Beverage **Evonik** SEPURAN® NG PURAMEM® VOC **DURAION®** SEPURAN® Noble SEPURAN® N₂ SEPURAN® Green brands

- Attractive markets with global access: Growth driven by increasing needs for sustainable energy supply
- Strong technology platforms: Backward integration, high-performance polymer expertise
- Partnerships: Global partner network to jointly shape further market needs with highly innovative separation technologies



Membrane example: SEPURAN® Green

Gas separation membrane for efficient biogas upgrading



Evonik has developed an innovative membrane technology for upgrading biogas into biomethane. SEPURAN® Green membranes have the highest CO₂/CH₄ selectivity and are therefore a superior technology for upgrading biogas.

- Biogas passes through hollow fibre membrane made of high performance polymers: Carbon Dioxide (permeate) as CO₂ and water vapor can pass through while Biomethane (CH₄) remains inside
- Evonik with 3-stage patented process ensures lowest energy consumption (< 0.2 kWh per Nm³ raw biogas)
- Advantages are:
 - + Methane-yield of up to >99%
 - + Flexible & modular installation
 - + Highest energy efficiency
 - + No additional ancillary materials needed
 - + Easy installation (plug-in container solution)



Our Membranes Vision: Smart enabler to the sustainable gas economy Contributing to the transition with superior membrane technology



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

- **SEPURAN®** Green
- Raw biogas from organic waste is converted into sustainable biomethane and "green" CO2
- **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 CO₂ and green hydrogen, we ensure efficient product separation
- **Anion Exchange Membrane**
- With our ion-conducting AEM membranes, we contribute to the breakthrough of electrolytic production of green hydrogen in the future



Innovation Growth Field

Cosmetic Solutions



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





Spotlight – Active Ingredients

Transforming cosmetic solutions into tailor-made innovative products





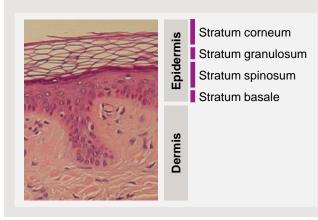


Active Ingredients – Evonik as a strong partner from idea to market

Broad integrated toolbox with scientifically proven benefits

Deep understanding of human skin biology

Strong expertise in analyzing skin conditions to develop actives from idea to product



Scientific toolbox for claim substantiation

- Experimental design with cell cultures, skin models and in vivo human skin
- Screening of novel active ingredients
- Scientific proof of benefits

SimDerma® Platform **CosmetICoS™**



Active Ingredients with proven benefits

- Novel Active ingredients focusing on derma-cosmetics
- Attractive claims to differentiate in the marketplace

Moisturization

Rebalancing and purifying

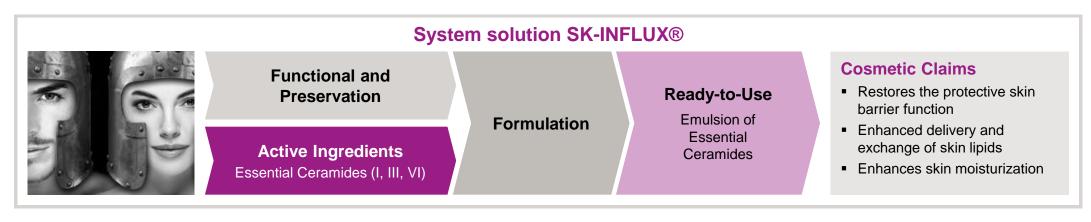
Skin defense

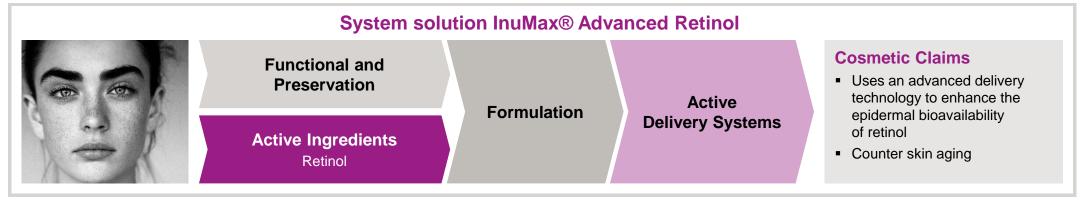
Anti-aging



System Solutions for Personal Care

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



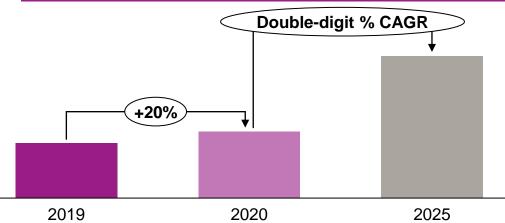




Systematic expansion of the "Actives" portfolio

Building on strong past track record and high growth ambitions

Sales with Active Ingredients & Delivery Systems



- Double-digit % growth track record over last 20 years
- Critical mass of triple digit million € sales
- Majority of future sales growth secured via contracts
- Asset-light and attractive EBITDA margin

Shaping & growing the portfolio

- Organic growth via internationalization and value selling
- Strong innovation engine to generate new products with scientifically proven claims
- Well positioned to spot and integrate attractive M&A opportunities with significant growth and value potential
- Leverage synergy potential of acquisitions across cosmetics, cleaning, food & pharma portfolio



Spotlight – Biosurfactants

Setting new standards for sustainable and versatile bio-based surfactants







Biosurfactants are the next game changer in Evonik's innovation portfolio Leading the way for a sustainable ingredient portfolio transformation

A unique process resulting in a unique product









Fulfilling today's and tomorrow's consumer needs

Origin

- 100% renewable
- No tropical oils
- Natural ingredient

Sensorials

- Mild to skin
- Pleasant skin feel
- Creamy foam

Performance

- **Excellent foaming**
- High cleansing/ degreasing
- Hard water resistant

Environmental

- Bio-processed
- 100% bio-degradable
- Low aquatox





Next generation of surfactants

Biosurfactants vs. biobased surfactants

Evonik Biosurfactants (Rhamnolipids)

Natural surfactants produced by fermentation



Derived from plant-based sugars



Bio-processing (fermentation)
No hazardous feedstocks



Nature identical structures



Consumer perceivable mildness benefit



Best in class environmental profile

Biobased surfactants

Synthetic surfactants from renewable raw materials



Derived from (tropical) oils



High temperature/pressure involved May use hazardous raw materials



Synthetic structures

Examples: Alkyl polyglucosides, Glucamides, nonionic surfactants made from biobased ethylene oxide



Geared for growth following a successful series of launches

Large-scale production of world's first "green" biosurfactant (rhamnolipids)

2018

Pilot launch



- Launch in selected personal care applications
- Personal Care ingredient "RHEANCE® One" awarded at "in-cosmetics"
 2018
- Several commercial personal care products followed



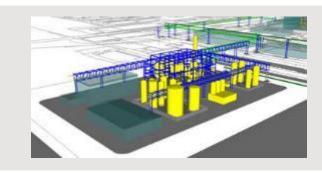
Expansion into Home Care



- Leveraging volume potential with home care applications
- Unilever with successful market launch of a dishwashing product in 2019



Industry-scale investment



- Commercializing Evonik's leading biotechnology capabilities:
 - Evonik will be the first company to produce biosurfactants on industrial scale
 - Basic engineering finalized
 - Ramp-up expected for 2023/24



Innovation Growth Field

Healthcare Solutions



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



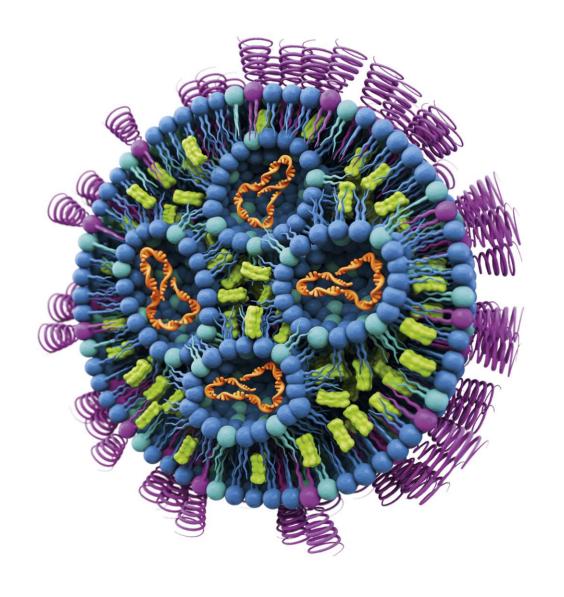
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Spotlight – mRNA Lipid Nanoparticle Systems

Strong growth potential in gene therapies



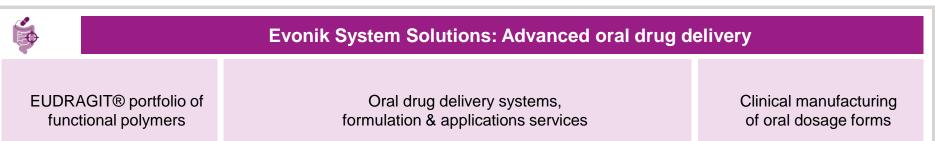


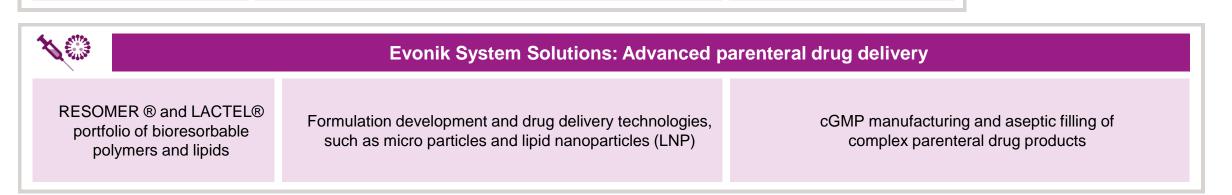


Drug Delivery System Solutions

Fully integrated portfolio across both platforms of oral & parenteral drug delivery









mRNA technology with potential to revolutionize the pharma industry

Promising market potential as a gene therapy enabler

PAST - Chemical



Chemically synthesized small molecules

- Synthetic production utilizing complicated building blocks
- Testing millions of compounds necessary

PRESENT – Biological



Therapeutics like antibodies and vaccines biologically produced outside of the body

- Challenging development for each individual drug
- Production highly specified, cost and time intensive

FUTURE – **mRNA**



Next generation biologicals

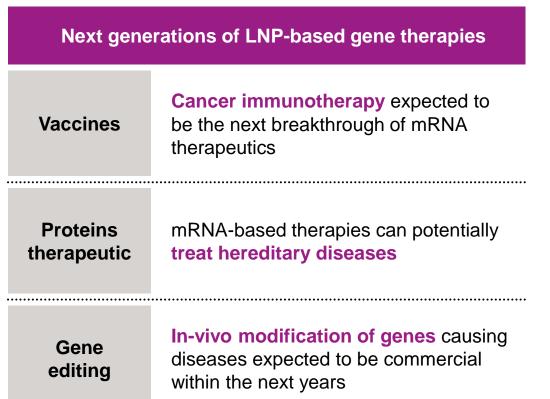
mRNA medicines provide the information for the human body to produce its own drug

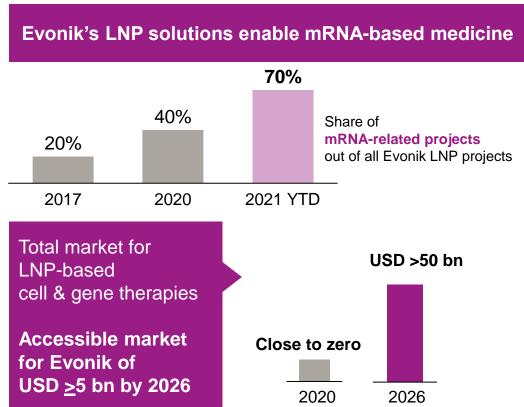
- Wide range of diseases that can be treated or prevented
- Technology platform with synergies every product based on same principle
- Fast development process
- Future applications for personalized medicine



Strong growth ambition for drug delivery business

Growth potential for cell & gene therapies far beyond mRNA-based COVID-19 vaccines









Spotlight – Medical Device Solutions

Improving faster patient recovery by developing custom made medical devices





Medical Devices Solutions

A broad portfolio of biomaterials and application technology services

Biomaterials for Bioresorbable Implant Devices

RESOMER®

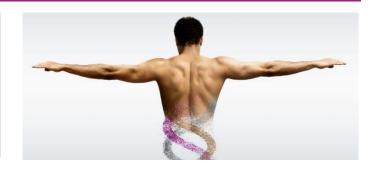
The world's leading portfolio of standard, custom and specialized bioresorbable polymers



Other Biomaterials for Medical Devices

Evonik Collagen

A recombinant collagen platform that is highly soluble, scalable and biocompatible for life science applications



Biomaterials for Surface Modification

Endexo®

Best-in-class additive technology for surfaces to reduce thrombus, infection and biofouling risk



Biomaterial Application Technology Services

A global network

Medical Device Competence Center in the U.S. plus application labs in Germany & China for testing, 3DP & scale-up support

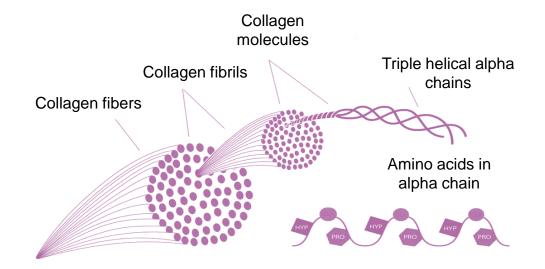




New collagen platform

Non-animal derived collagen based on Evonik's biotechnology expertise

- Collagen contributes between 25% and 35% of the total protein mass in humans and other mammals
- Critical in the formation and functionality of tissues,
 skin, bone, ligaments, cartilage, hair and lungs
- Provides rigidity, shape and integrity



Evonik's new collagen platform

Highly biocompatible

Fermentationbased process

Non-animal derived

Highly soluble at physiological pH



Reproducible ultra-high purity process

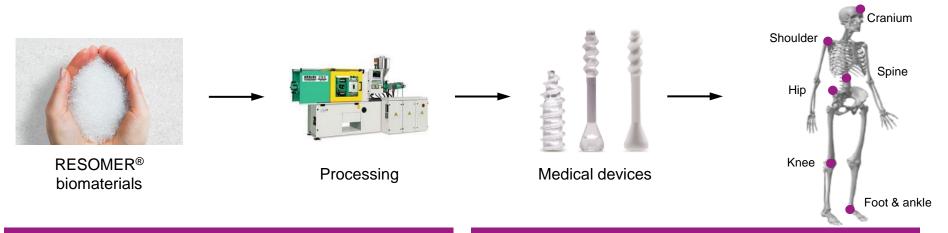
Ideal for hydrogels & other shapes

Commercially scalable

Fully customizable



RESOMER® biomaterials for biodegradable medical devices in modern medical treatments



orthopedic devices

cardiovascular devices

wound care application

other applications

Value Chain Dialogue

- Partnerships with medical device manufacturers
- Dialogue with medical doctors and research organizations, and focus group interviews

Competencies

- Leveraging our polymer competence with application expertise
- Broad variety of RESOMER® biomaterials to tailor medical devices to specific needs
- Adding API and drug delivery expertise for additional functionality





Innovation Growth Field

Additive Manufacturing



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 technologies¹
- World's 1st 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





Polyamide 12 powder for Additive Manufacturing

Fueling the transition from low-volume prototyping to industry-scale production

Strong base established

- Evonik as market leader in PA12 powder-based 3D printing materials
- Several platforms available to serve all major powder-based printing technologies
- Close partnerships with major printing players and innovators:







Expand strong position

1st company which launched on Hewlett Packard material platform



Powder Bed Fusion (SLS/HSS/MJF)

Expand polymers beyond PA12



Unique technology position with focus on Asia



Photopolymers (SLA/DLP)

New Reactive Monomer Solutions



Developing with OEMs to enable transition to series production



Industrial scale AM

Substituting plastic machining and injection molding



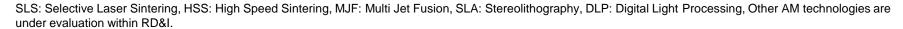
Strengthened by targeted external technology investments





CASTOR









Evonik's brand for ready-to-use 3D printing materials

Powders

(SLS/HSS/MJF)

INFINAM® PA

Polyamide 12 Polyamide 613

INFINAM® TPA

Elastomer polyamide

INFINAM® TPC

Elastomer copolyester

INFINAM® eCO

Polyamide 12 mass balanced



Resins (SLA/DLP)

INFINAM® FL

Flexible photopolymer

INFINAM® RG

Rigid photopolymer

INFINAM® ST

High strength photopolymer

INFINAM® TI

Impact resistant photopolymer



Filaments & Systems

(FDM/FFF)

INFINAM® PEEK

Polyether ether ketone

INFINAM® PMMA

Polymethyl methacrylate

VESTAKEEP® 3DF

Implant grade PEEK

VESTAKEEP® Fusion 3DF

Implant grade osteo PEEK

VESTAKEEP® Care 3DF

Care grade PEEK



SLS: Selective Laser Sintering, HSS: High Speed Sintering, MJF: Multi Jet Fusion, FDM Fused Deposition Modeling, FFF: Fused Filament Fabrication, SLA: Stereolithography, DLP: Digital Light Processing, DLS: Digital Light Synthesis. Other AM technologies are under evaluation within RD&I.

Innovation Growth Field

Advanced Food Ingredients



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



Under the brand name IN VIVO BIOTICS™, Creavis has developed and introduced a portfolio of innovative synbiotic supplements into the market

Why Evonik



Synbiotic system solutions: synergistic combination of probiotics plus additional health ingredients



Evidence-based development: building on vast biotech & formulation expertise supported by valuable consumer insights



Bio-inspired mechanisms of action: harnessing the inherent health potential of the gut microbiome

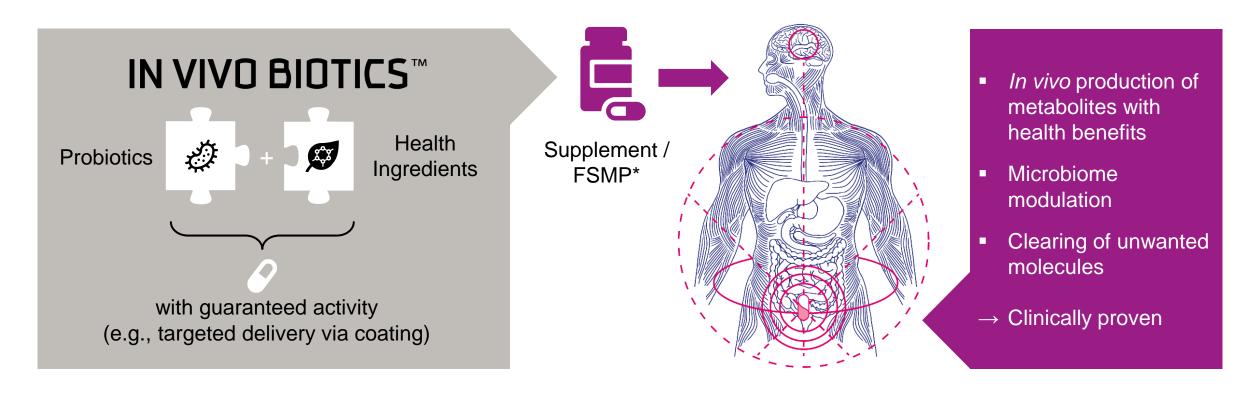


Guaranteed activity: by targeted delivery (e.g., via unique EUDRAGUARD® coating) and pinpointed formulation





Our synbiotic approach harnesses the intrinsic health potential by *in vivo* microbial metabolization and microbiome modulation



^{*} Food for special medical purposes



Innovation Growth Field

Sustainable Nutrition



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



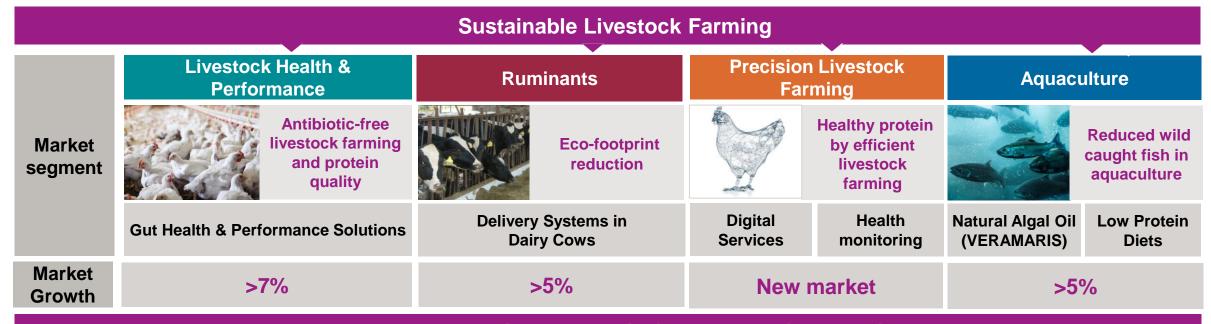
SOLUTIONS formulations, digital Services

Industry Value Potential: ~€5 bn

Potential for product, service & digital revenues



Strong growth with attractive portfolio of sustainable system solutions, enabled by biotech-innovation and global customer access

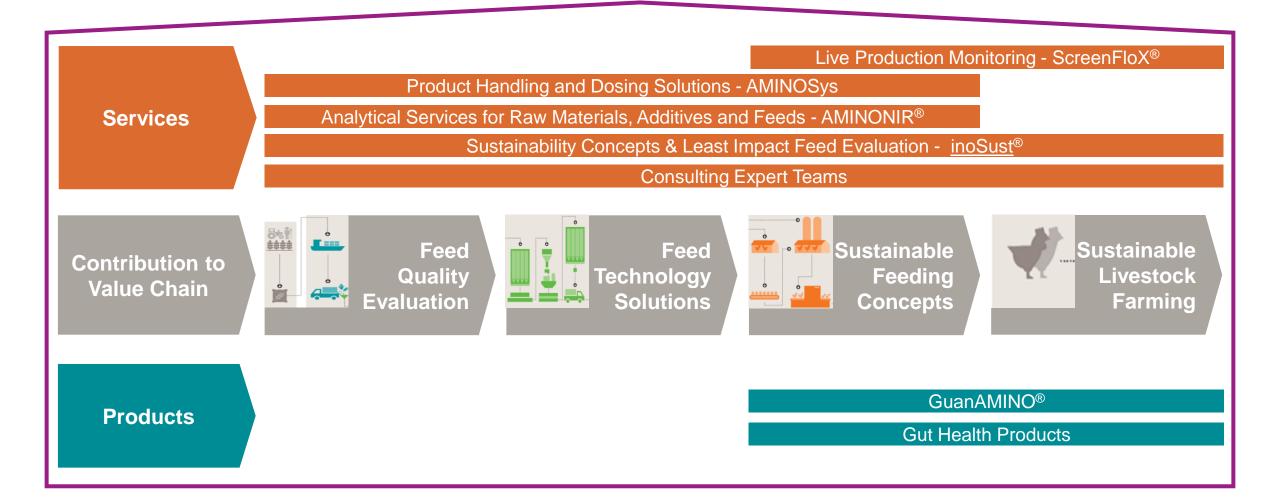


Global customer access to attractive markets with focus on most important industry needs

- Attractive markets with global access: Robust growth driven by increasing needs for sustainable livestock farming
- Innovative System Solutions: Combining products, digital services, nutritional know-how, new Go-to-Market-models
- Strong synergies: Shared technology platform competencies: nutrition research, microbiome modelling, biotechnology



Products and Services along the Value Chain define the Evonik Animal **Nutrition System Solutions**







Spotlight – Sustainable Lifestock Farming

Healthier and more efficient livestock farming to reach genetical potential of animals





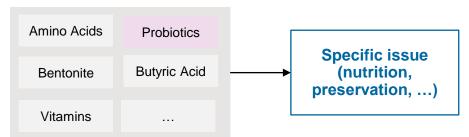


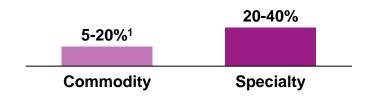
Sustainable Livestock Farming will transform towards selling solutions via building up a differentiated formulation business

1)

SELLING INGREDIENT

Single product for specific needs: either very differentiated ingredient or commodity

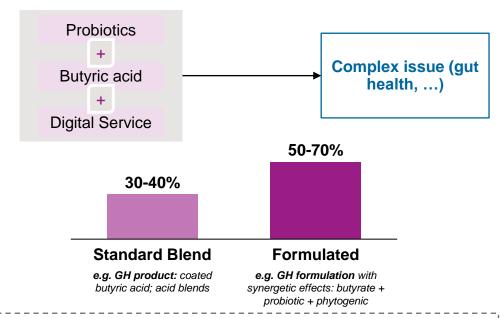




2

SELLING SOLUTION

Multi-MOA formulations for complex issues difficult to tackle with one ingredient: differentiation from synergetic combination



Key Success Factors

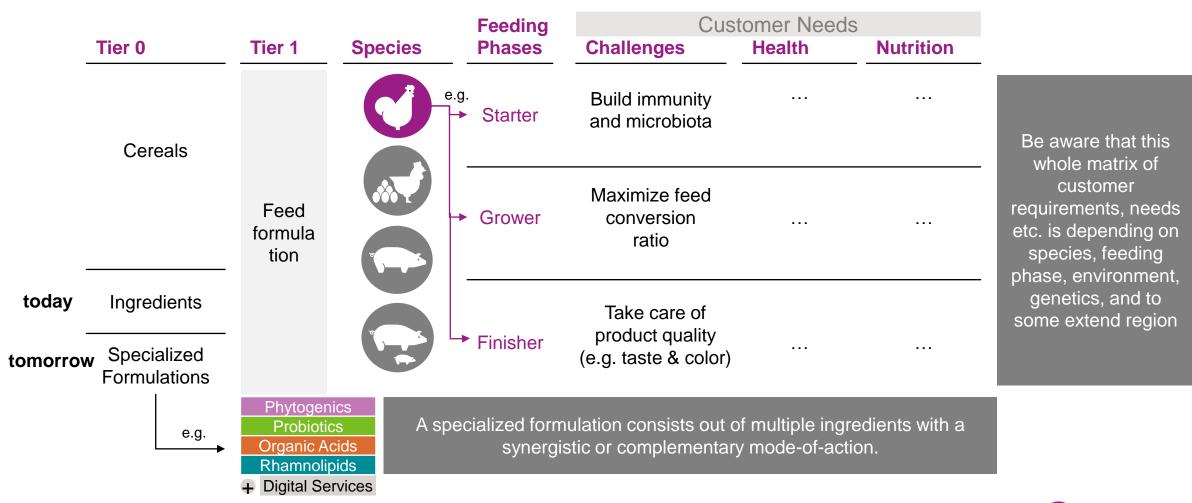
Cost efficiency, differentiated inhouse developed ingredient Formulation science, sales push & marketing

1) Contribution Margin



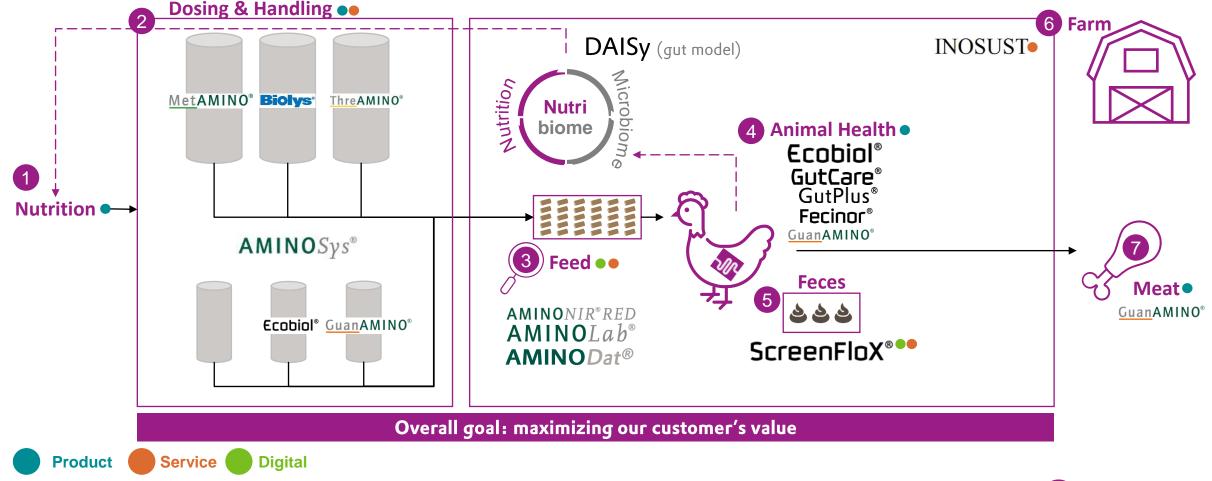
Introduction to specialized feed formulations

A specialized feed formulation targets a very specific customer need





Evonik's system solution portfolio in broiler value chain shows tremendous potential for tackling customer needs broadly





Spotlight – Veramaris®

Harnessing the power of nature to change current practice in aquaculture



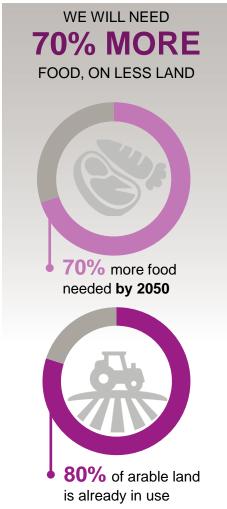


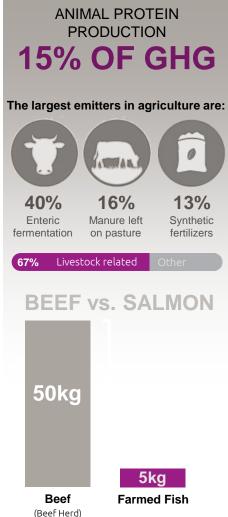


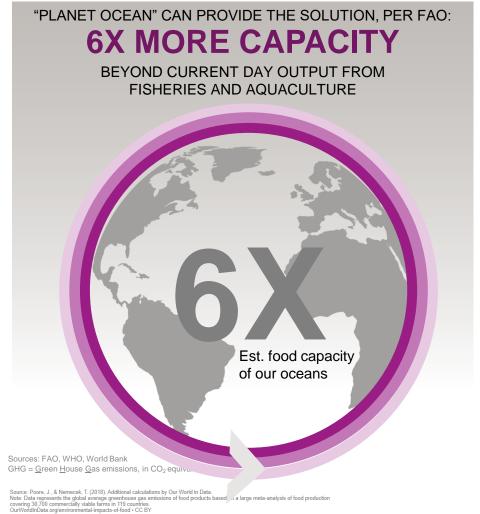
Our Challenge is feeding the world while massively reducing GHG

Aquaculture is the answer, but it takes another 45 million tonnes of feed





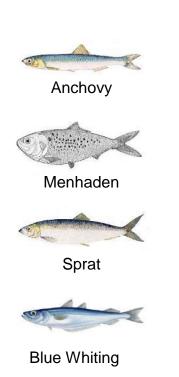






Overfishing of global fish stocks

Wild fish are used on an industrial scale to produce fish oil and fishmeal







16,000,000 tons wild fish



~17% of global wild catch is consumed for the production of fish oil and fishmeal

Sources: IFFO, FAO



~ 5 million tons fishmeal

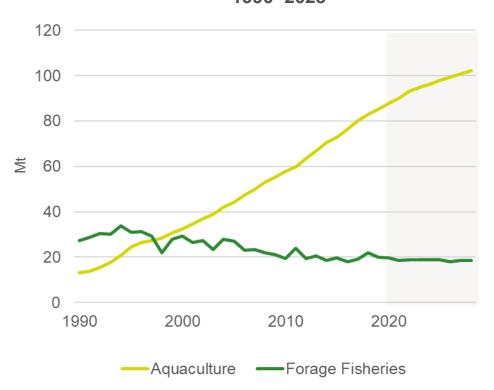


~ 1 million tons fish oil



Demand for seafood drives expansion of the aquaculture industry, but traditional supply of omega-3 dilutes EPA & DHA content in farmed salmon

World Aquaculture and Forage Fisheries 1990-2028



Levels of EPA + DHA in farmed Atlantic Salmon 2006 to 2016



Source: OECD/FAO (2019)

Evonik offers key components for the development of sustainable salmon diet

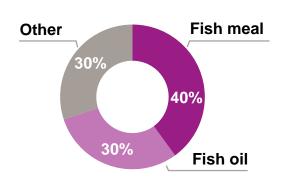
Start of evolution towards sustainable salmon diet

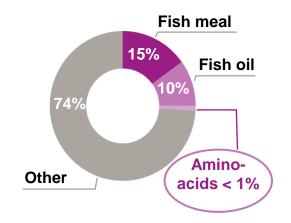
Target: "vegetarian" diet without fish meal and -oil

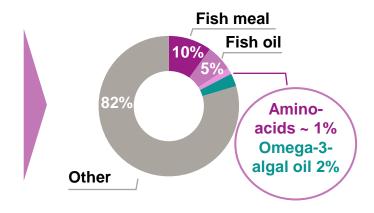


More sustainable diet enabled by amino acids

Further reduction of fish input enabled by omega-3 algal oil

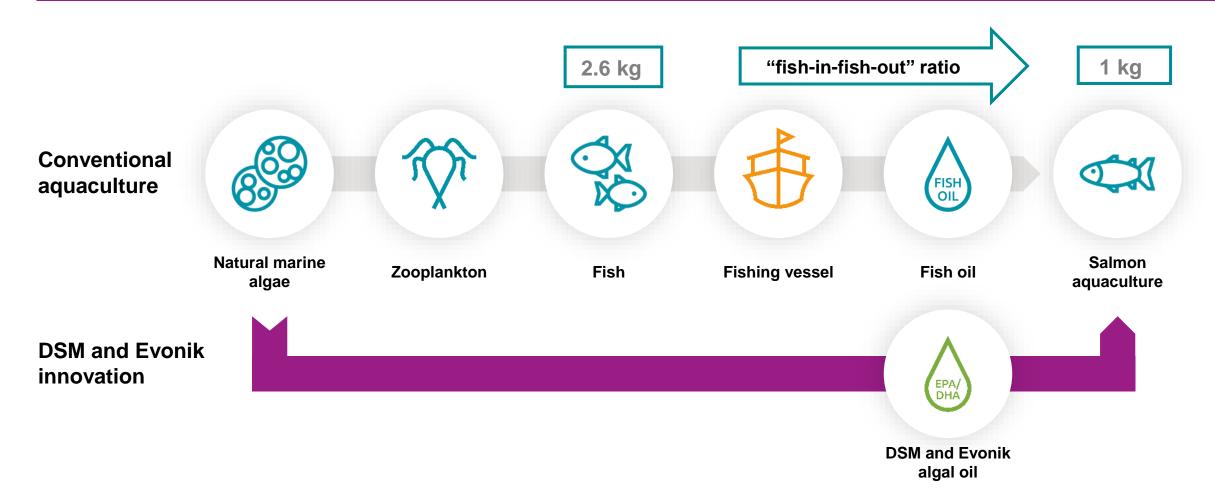








Natural marine algal oil is a sustainable alternative solution for EPA and DHA

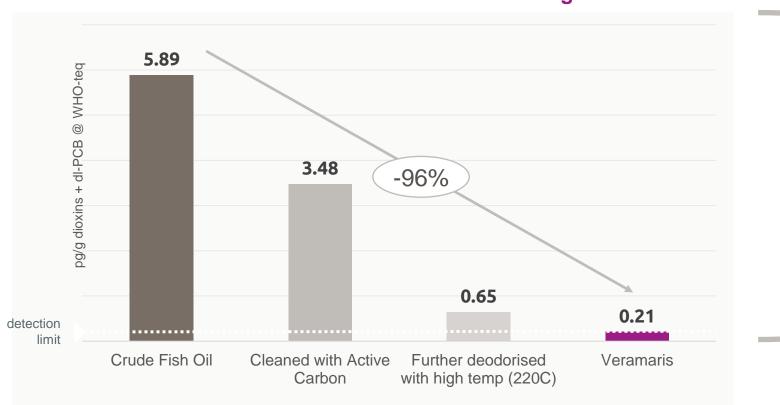


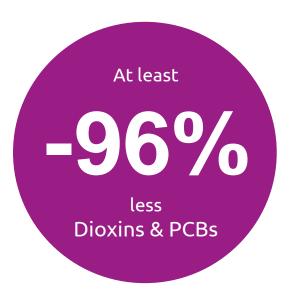
DSM and Evonik breakthrough – shortening the natural food chain



Veramaris® Algal oil is naturally the cleanest source of EPA & DHA omega-3

Dioxins + PCBs in fish oil and Veramaris algal oil

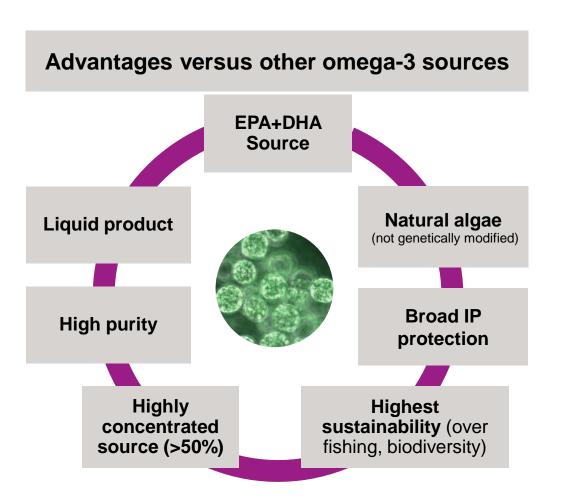




Shows the large potential to reduce pollutants in farmed seafood



Algal oil as a high-quality source of omega-3 for the use in animal nutrition has many advantages



1 kg of our EPA and DHA algal oil can replace 66 kg wild catch fish

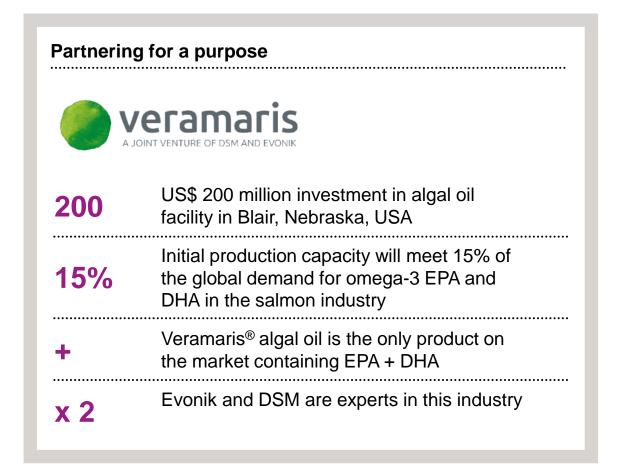


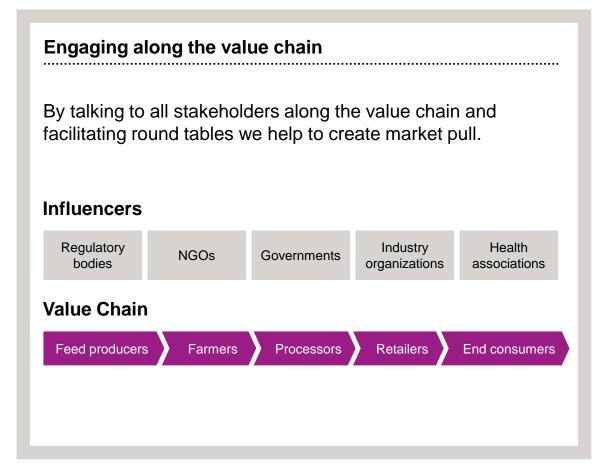
Meeting roughly 15% of the EPA and DHA demand of the global salmon industry



Veramaris® - Strong alliance of Evonik and DSM

Partnerships with stakeholders along the value chain are key to success







Innovation at Evonik

Additional Materials



Video Content

Innovation Growth Fields

Additive Manufacturing

https://www.youtube.com/watch?v=CWu0EjCcJsM

Sustainable Nutrition

Digital Farming

https://www.youtube.com/watch?v=nor8hTiViuk

https://www.youtube.com/watch?v=ZJHr0oUk5Fo

Veramaris

https://www.youtube.com/watch?v=Es4lUi_a0kc

https://www.youtube.com/watch?v=5G6P2D5bKiQ

Cosmetic Solutions

Active Ingredients

https://www.youtube.com/watch?v=v-12auLQo4k

Biosurfactants

https://www.youtube.com/watch?v=SchMK3gB83Y

Healthcare Solutions

Lipid Nano Particles

https://www.youtube.com/watch?v=J8kqAoSzeNE

https://www.youtube.com/watch?v=Ihhc7Ydbrsg

Cell culture Solutions - cQrex®

https://www.youtube.com/watch?v=0m5FxJTrFMo

RESOMER® Biomaterials

https://www.youtube.com/watch?v=pBxlQulqadM

Membranes

https://www.youtube.com/watch?v=6kuNBDI-P0A

https://www.youtube.com/watch?v=eT2_02U0Ze0

https://www.youtube.com/watch?v=Zr_YOXh9l8c

https://www.youtube.com/watch?v=C2jW0NkCKmw



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