

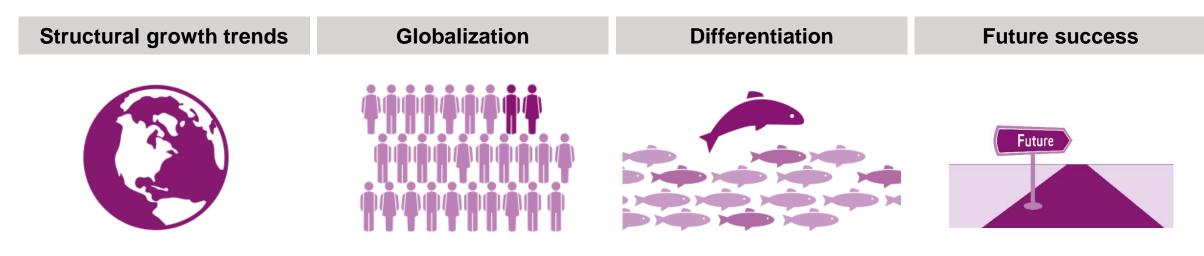
Evonik Nutrition & Care -Much more than Methionine and Baby Care

13 April 2017 **Credit Suisse, London** 

**Dr. Reiner Beste** Chairman of the Board of Management Nutrition & Care



### **Segment overview** What our businesses have in common



We serve growth markets fueled by megatrends with a direct and immediate link to our business. We fulfill basic human needs in a globalizing world.

Our common strategic goal is to strive for differentiation.

We are a group of businesses with an equally promising future.



- Helping to ensure a **Sustainable food chain** for 9 billion people:
  - by reducing the ecological footprint in food protein production
  - by lowering risk of over-fishing as demand for seafood rises
  - with natural compounds for advanced food ingredients
- Addressing the need for more sustainable products:
  - by responding to the overall "natural" trend in cosmetics
  - by enabling the commercial viability of biosurfactants
  - by reducing the ecological footprint to meet new standards in various industries (e.g. textile, agrochemicals, adhesives)





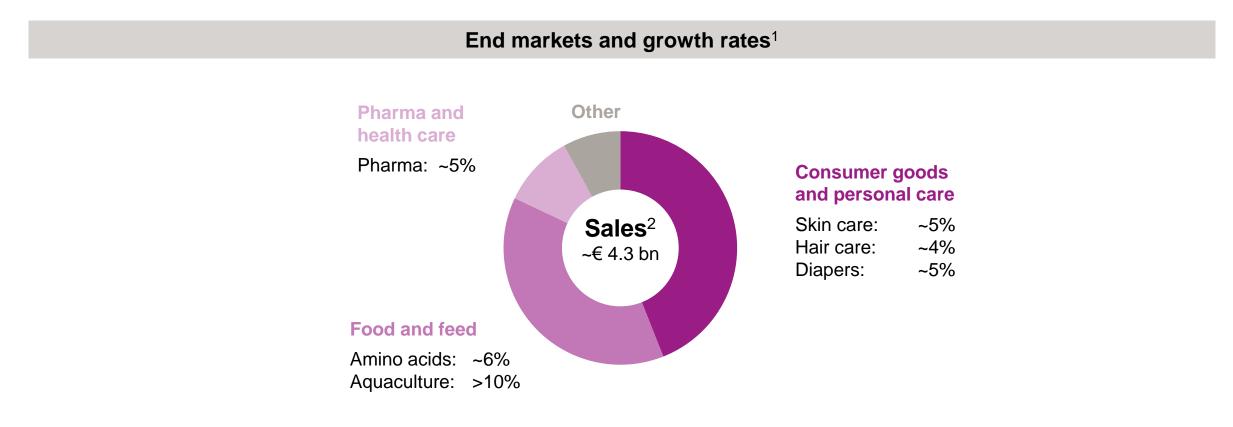


## Segment overview Portfolio of seven Business Lines





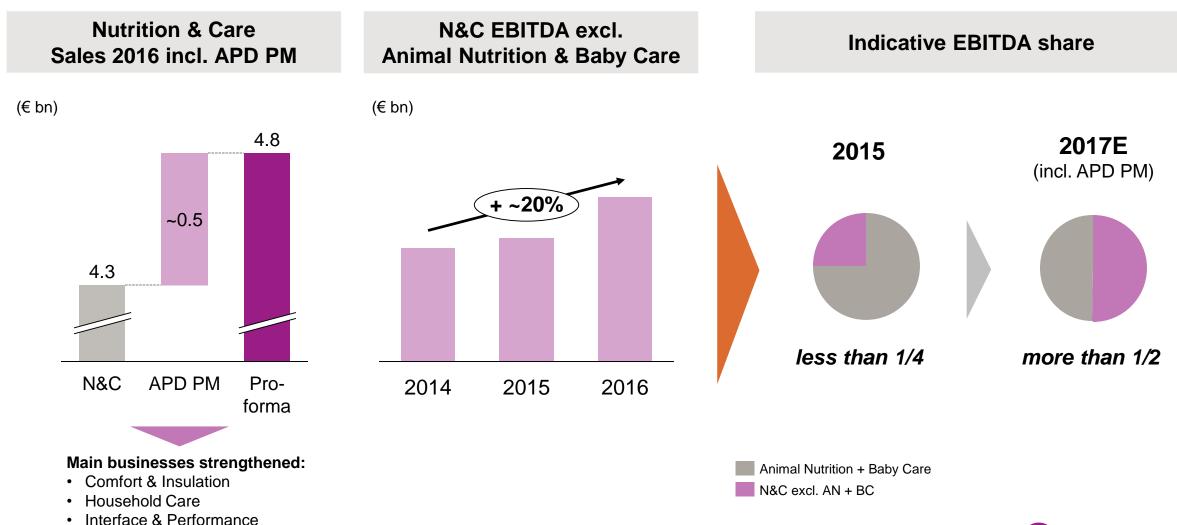
# Segment overview Serving end markets with robust and resilient growth



- 1. Expected end market growth rates p.a. according to industry reports and Evonik estimates
- 2. 2016 numbers



# APD PM acquisition and strong underlying growth strengthen resilience of Nutrition & Care





# **Spotlight Personal Care** Develop specialties portfolio for cosmetic applications

# **Strategic Objective:**

Further develop into specialties supplier with broad portfolio for cosmetic applications

- Attractive global growth market with low volatility (CAGR ~5 % p. a.)
- Persisting trend to natural cosmetics based on sustainable raw materials
- Opportunities for differentiation via Marketing, Application Know-how, Technology and Innovation



# Business Line Personal Care Acquisition of Dr. Straetmans

# Sustainable preservation with state of the art multifunctionals

#### Preservatives

- Preservatives are an essential part of any cosmetics formulation preventing product deterioration (e.g. via oxidation) → important cross-sectional technology
- Trend towards non-traditional preservatives due to criticism of traditional preservatives (e.g. possible estrogenic effects of paraben)
- Use of non-traditional preservatives is more complex and requires higher dosages and higher application and formulation know-how

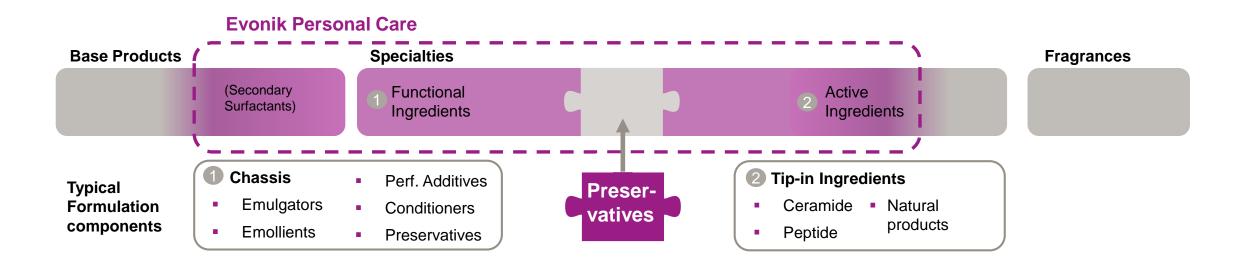
#### CAGR '16-'21 ~€500M "Safest" solution drstraetmans Non-Tradtional 100 ~+10% Requires higher dosage & (mainly triggers more demand vegetable-based) (therefore higher costs) Safer "Safer" than Controversial Traditional 400 (mainly crude oil-based) **Tougher regulations** Controversial Negative public image Consumer pressure 2016(e)

Market shift to high-growth non-traditional preservatives



# Business Line Personal Care Acquisition of Dr. Straetmans

Helping Evonik Personal Care to become a wide technology player



#### **Strategic rationale**

- Combination of preservatives know how of Dr. Straetmans with emulsifier know how of Evonik
- Expanded formulation skills in one hand, thus enhanced capability to offer formulation packages
- Reduced development time and costs for customers



# **Spotlight Health Care**

Solution provider and development partner to the health care industry

### Strategic Objective: Further development of the three product lines with their specific success factors

#### **Pharma Polymers & Services**



- Drug delivery systems
- Functional medical devices
- Services
- ~6% market growth
- Further extension of attractive growth business
- Broadening of technology basis and competencies
- Transformation to solution provider and development partner with broad portfolio for pharma customers

#### **Exclusive Synthesis**



- Service provider for development and manufacturing of APIs and intermediates
- ~5% market growth
- Addition of further differentiating competencies
- Pursue advanced technologies to grow the business in differentiated areas
- Additional preferred partnerships with selected high-value Pharma companies

#### Pharma & Food Ingredients

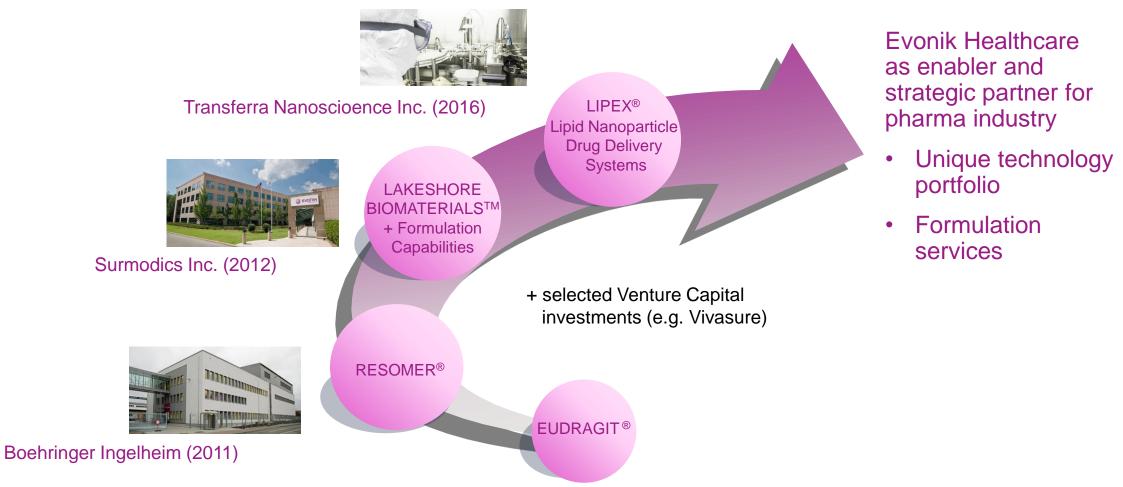


- Pharma-Intermediates and Amino Acids
- Ingredients for medical nutrition / dietary supplements
- ~4% market growth
- Further strengthen and grow existing business
- Expand activities in nutritional supplements via organic growth (innovation) and selected bolt-on acquisitions



# Business Line Health Care Pharma Polymers & Services

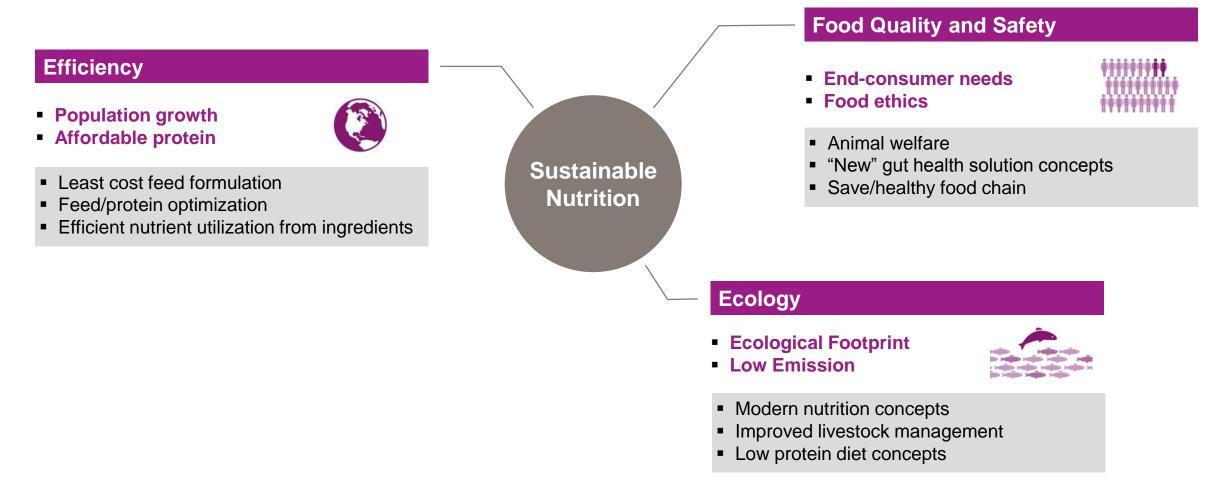
# Building up competences and solution portfolio by Technology M&A





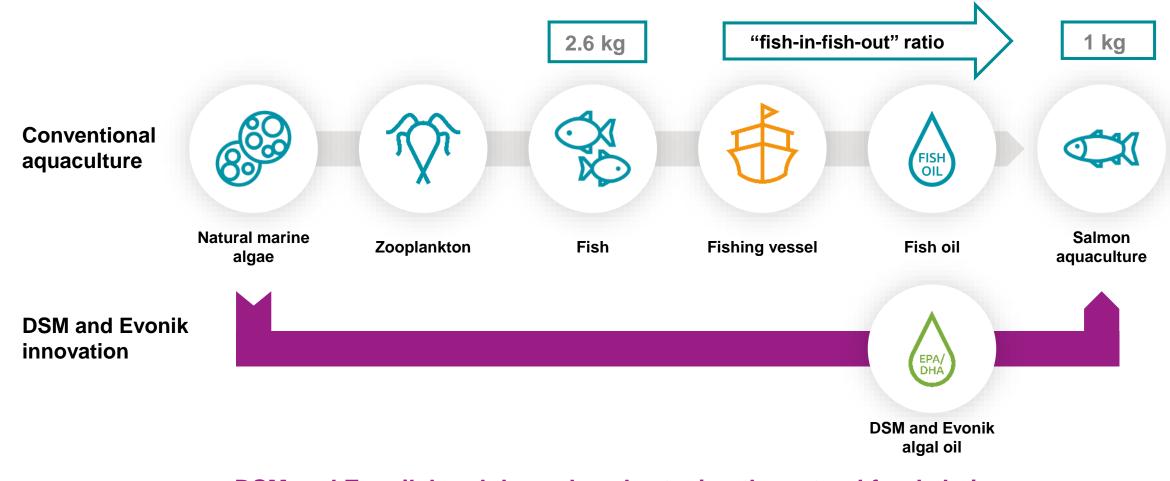
# **Spotlight Sustainable Nutrition**

Innovating for a more sustainable food chain





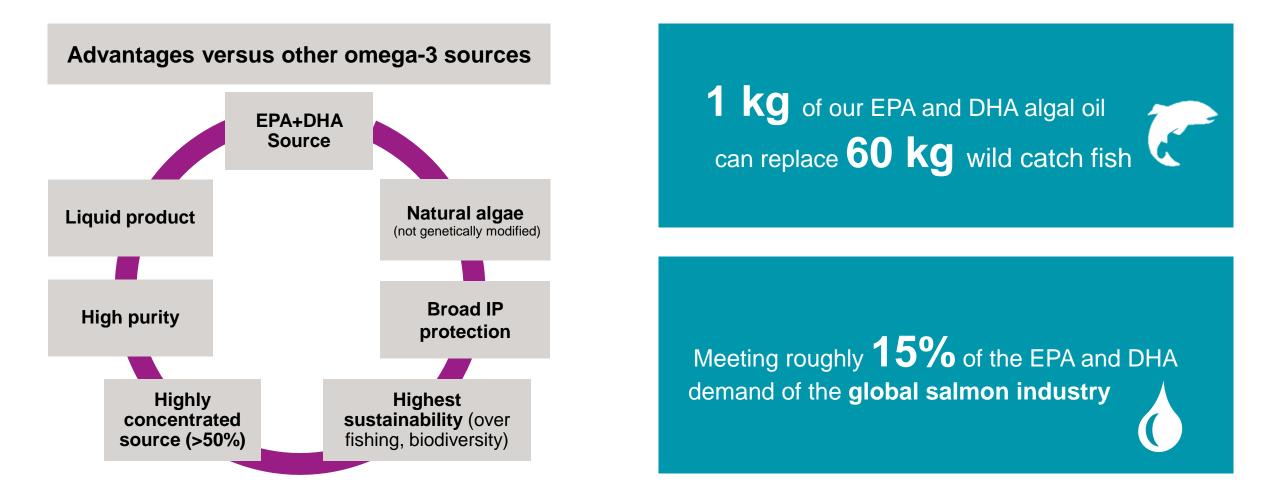
### Growth Field Sustainable Nutrition Natural marine algal oil is a sustainable alternative solution for omega-3 fatty acids used in aquacultures



**DSM** and Evonik breakthrough – shortening the natural food chain



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





# **DSM and Evonik establish joint venture**

- DSM and Evonik to found a 50:50 joint venture to be named Veramaris<sup>™</sup>, headquartered in The Netherlands
- Joint venture for high value omega-3 fatty acid products rich in EPA and DHA for animal nutrition produced from natural marine algae
- Joint venture's capital expenditure in the facility will amount to around US\$ 200 million over the next 2 – 3 years
- Facility is scheduled to open in 2019
- New facility will be built in the United States, at an existing site of Evonik
- Global aquaculture production growth is 5-6% per year with high increasing requirements in fish oil





## **Spotlight Comfort & Insulation**

Leading supplier of specialty additives for the PU-industry

# **Strategic Objective:**

Further strengthen position as the leading supplier of enabling additives for the PU-industry

- Polyurethane is a versatile material with annual growth rates of 5-6%
- Evonik is the global No.1 in silicone stabilizers for PU-foams
- Acquisition of Air Products-PMD business expands product portfolio in the area of PU-catalysts



#### Business Line Comfort & Insulation **Comfort & Insulation at a glance** Prime partner for Polyurethane (PU) foam additives

#### **Business Model**

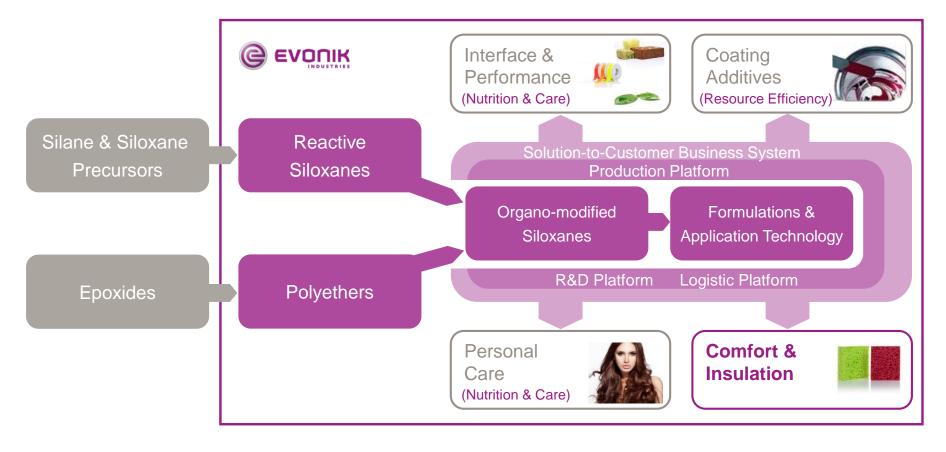
- Global strategic partner of key customers with production in all major regions
- Differentiation by quality, product development, application technology and superior logistics





#### Business Line Comfort & Insulation **Strong technology base** Silicone platform for unique and individual products at attractive economies of scale

Comfort & Insulation embedded in Evonik's **ORGANO SILICONE PLATFORM** that feeds four Evonik Business Lines





# **Evonik Nutrition & Care**

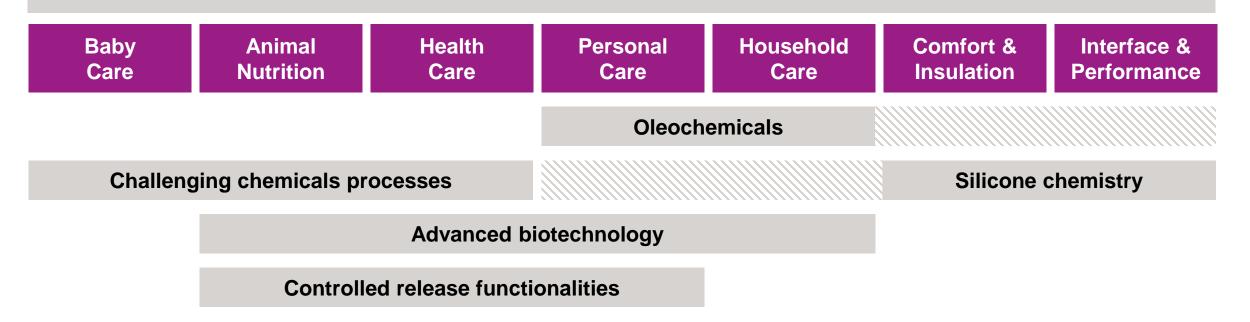
# Much more than Methionine and Baby Care





Shared technology platforms to create innovative solutions for our customers

Shared technology platforms of Nutrition & Care are enabling for >90% of sales
We are the home of strong technology platforms
We create extraordinary solutions from a huge and diverse skill-set
We enable our customers for differentiating solutions in their markets





## **Segment strategy** Growth strategy based on three strong pillars

Organic growth projects



Specialty Silicones

Groundbreaking Shanghai, March 2016

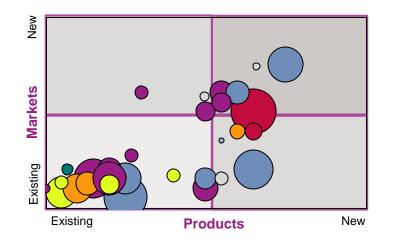


New Lysine plant Start-up Parana (Brazil), July 2016



Groundbreaking Singapore, October 2016

**Methionine** 



Innovation

- Strong pipeline of innovation projects
- Focus on four innovation Growth Fields

#### **Bolt-on acquisitions**



MedPalett AS, Norway Advanced Food Ingredients

# **ECOBIOL**<sup>®</sup>

Norel Probiotics, Spain Sustainable Nutrition



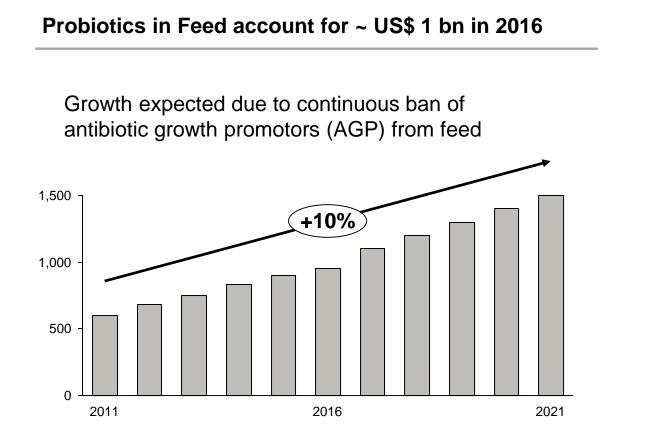
drstraetmans

Transferra Nanosciences, Canada Healthcare Solutions

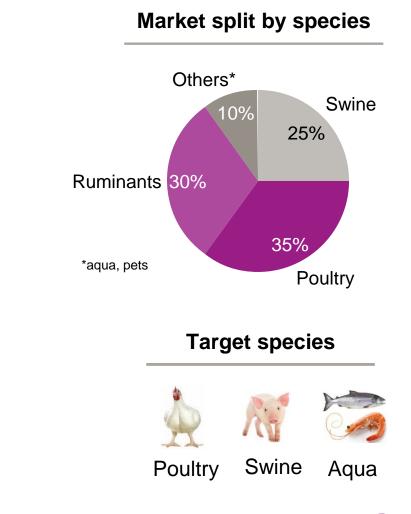
**Dr. Straetmans, Germany** Cosmetic Solutions



#### Growth Field Sustainable Nutrition **Probiotics: Driving sustainable nutrition beyond amino acids** Significant market potential and attractive growth rates



Sources: marketsandmarkets,





#### Growth Field Sustainable Nutrition **Probiotics: Driving sustainable nutrition beyond amino acids** Newly acquired and own developed probiotics promote use of less antibiotics

#### Product portfolio acquired from NOREL S. A. in July 2016

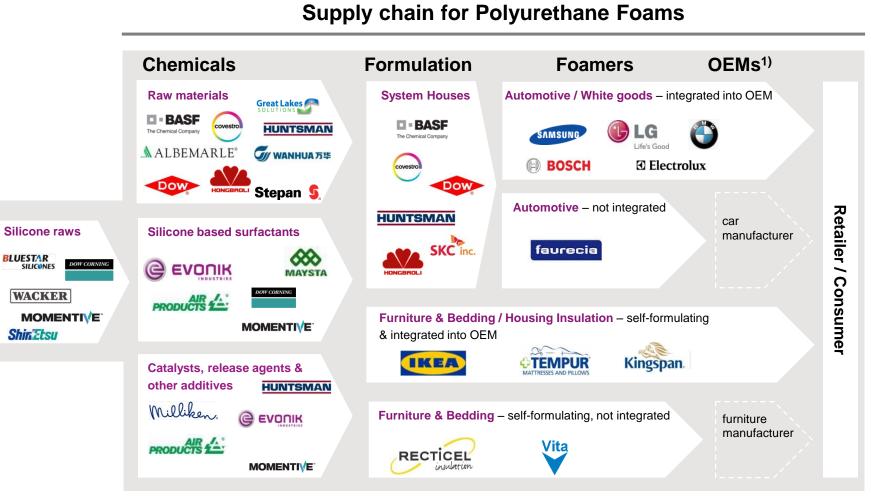
PRODUCTS	DESCRIPTION	SPECIES	PRESENT MILESTONES
Ecobiol®	ECOBIOL <sup>®</sup> (AQUA) contains a <i>Bacillus</i> <i>amyloliquefaciens</i> strain which is able to positively modulate the intestinal microbial flora	Poultry	Introduction of Ecobiol <sup>®</sup> as new part of Evonik product portfolio in Asia South in March 2017 at VIV, Bangkok
		Aquaculture	
Fecinor®	FECINOR <sup>®</sup> contains an <i>Enterococcus faecium</i> strain that positively affects the intestinal balance	Swine	Presentation of Fecinor <sup>®</sup> at EuroTier in Hanover in November 2016

#### First own developed probiotic product by **Evonik**

PRODUCT	DESCRIPTION	SPECIES	PRESENT MILESTONES
GutCare <sup>®</sup> PY1	GutCare <sup>®</sup> contains a <i>Bacillus subtilis</i> strain that improves the overall conditions of the animals	Poultry	First launch of GutCare <sup>®</sup> in USA at IPPE in January 2017 Launch of GutCare <sup>®</sup> in China Feed show in April 2017



# Comfort & Insulation is well positioned within a complex value chain



<sup>1</sup> Direct sales to customers

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