

**ROYAL DSM**HEALTH NUTRITION MATERIALS

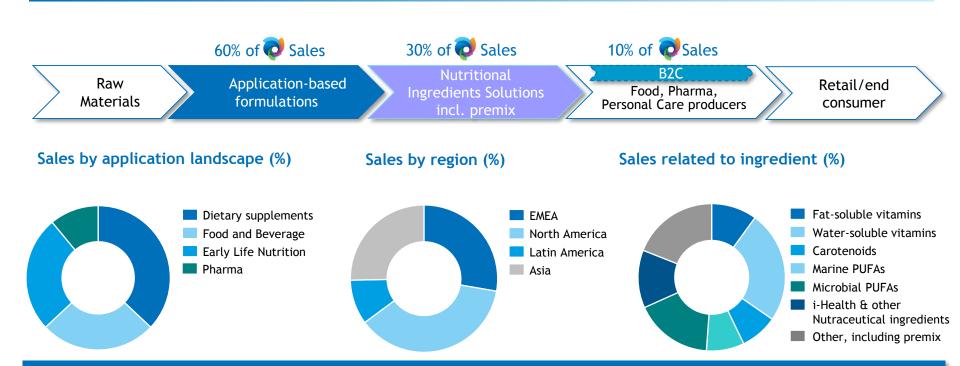


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- A more comprehensive discussion of the risk factors affecting DSM's business can be found in the company's latest Annual Report, which can be found on the company's corporate website, www.dsm.com



### Human Nutrition & Health: €1.8bn sales (2016)



Our challenge is to help keep the world's growing population healthy

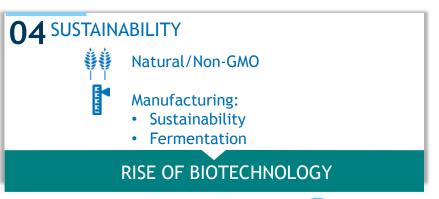


### Key trends driving the markets for Human Nutrition & Health



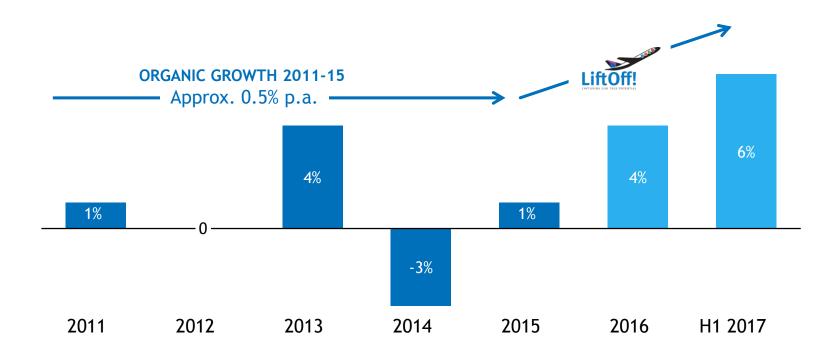








# Growth driven by LiftOff! program, increased segment focus and business models





# Strategy of Human Nutrition & Health is focused on delivering value across three horizons concurrently

#### Horizon 1 DO BETTER

#### Sales excellence

- Customer segmentation
- Project and funnel management
- "White spots"/ winning customers and channels

### Operational excellence

- Premix integration
- Omega 3 fatty acids LiftOff!

#### Horizon 2 DO DIFFERENT

# Segment marketing steering

- From product to segment marketing ...
- ... with segment-specific local solutions
- ... and aligned front-end operating model



## Horizon 3 BUILD THE FUTURE

### New growth initiatives

- B2C development
- Innovation agenda
  - ✓ Plant-based proteins
  - ✓ Gut health (pre-/probiotics)
  - √ Vitamers
  - ✓ New nutritional lipids
- Personalized Nutrition
- Further differentiate via our Unique Nutritional Science & Advocacy capabilities



### Human Nutrition growth recovery in 2016 and 2017 enabled by LiftOff!



### SALES EXCELLENCE

- Customer segmentation
- Price and margin management
- +20% funnel conversion
- +80% larger Funnel 2018



### **ENABLERS**

- Integrated sales force organization
- Goal setting on funnel building and project commercialization
- Structured Performance dialogues



#### STRATEGIC MARKETING

- Segment pricing
- Segment steering, from product to segment marketing
- Driving segment-specific solutions and innovations

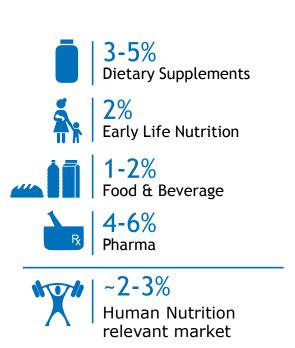




# Focus on strategic segments combined with business models and regions will further drive growth

### MARKET GROWTH

### **GROWTH ENHANCED BY**







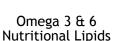
i-Health

# Business model with economies of scale and local customer intimacy drives above market growth

# GLOBAL PRODUCTS Unique product portfolio











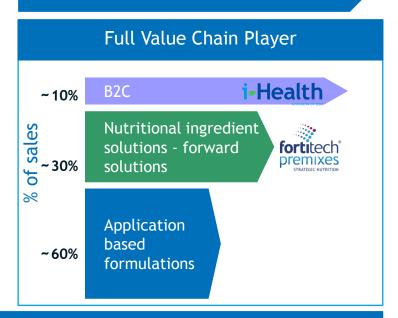




DEMAND CREATION MARKET SEGMENT NEEDS

LEADING COST POSITION RADICAL INNOVATION

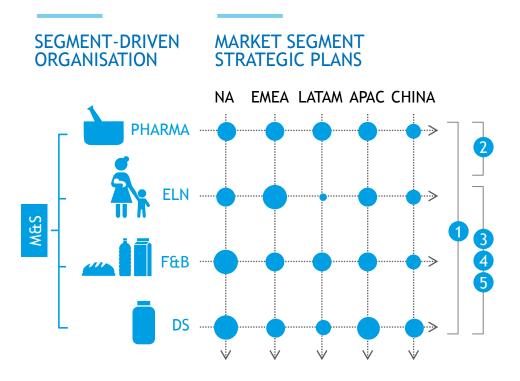
### LOCAL SOLUTIONS



The best of both worlds: economies of scale AND local customer intimacy



# Region and segment matrix drives Innovation priorities to deliver growth in Horizon 2 and 3



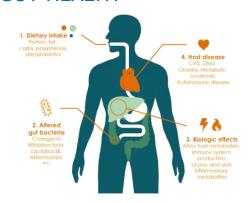
#### MARKET-DRIVEN INNOVATION

AREA	Current Market size (€ bn)	Market Growth 5-Year CAGR
1 Gut health	~2.5	~8%
<ul><li>Probiotics</li></ul>		
<ul><li>Prebiotics/ HMO</li></ul>		
Vitamins in Pharma applications (e.g., MedDay	~0.6 y)	~4-5%
3 Plant-based proteins/ specialty proteins	~5	~8%
<ul><li>4 Nutritional lipids</li><li>High potency</li></ul>	~0.5	~4-5%
5 Personalized Nutrition	~0	$\uparrow \uparrow$



### Key innovation focus areas to shape high growth opportunities

### **GUT HEALTH**



- Expanding beyond food & nutrition focus to maintaining health and treating disease states
- DSM best positioned given evidence of vitamins & lipids as modulators of the human microbiome

# VITAMINS IN PHARMA APPLICATIONS



### Multiple examples:

- Biotin multiple sclerosis
- Omega 3 triglycerides
- High-potency versions of vitamin D3, folate

### PERSONALIZED NUTRITION



- Rapid development
- Requires technology (diagnostics) and distribution (channel) developments and partnerships
- DSM best positioned as "product and science" partners



### Confident on continued organic growth in Human Nutrition in coming years

- Organic growth supported by ~2-3% market growth, and...
  - ✓ Commercial excellence
  - ✓ **Geographic expansion** of core B2B segments
  - ✓ B2C model | i-Health: expansion outside North-America
  - ✓ Nutritional Ingredients Solutions: strong growth in Food & Beverage, Early Life Nutrition and Dietary Supplements premix
  - Start of commercialization of strong innovation pipeline



