

# A short introduction to the world of Human Nutrition & Health

### DSM Nutritional Products

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Place: Maize F Strategy Workshop, TZ

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## Our challenge: help keep the world's growing population healthy



Source: Euromonitor



#### The double burden of malnutrition



+ a high number of undiagnosed people

Source: Euromonitor / WHO



## Malnutrition negatively impacts individuals and society



Source: www.thousanddays.org





## Adequate nutrient intake is essential at every stage of life

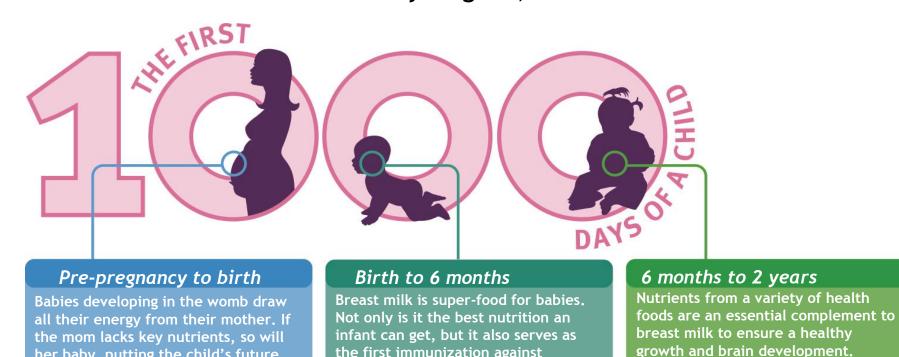
Consumers become more and more aware of the importance of adequate amounts of micronutrients on health and well-being.





## A healthy life starts before birth

The right nutrition before pregnancy and in the 1,000 days between a woman's pregnancy and her child's second birthday builds the foundation for a child's ability to grow, learn and thrive.



the first immunization against

illnesses and diseases.

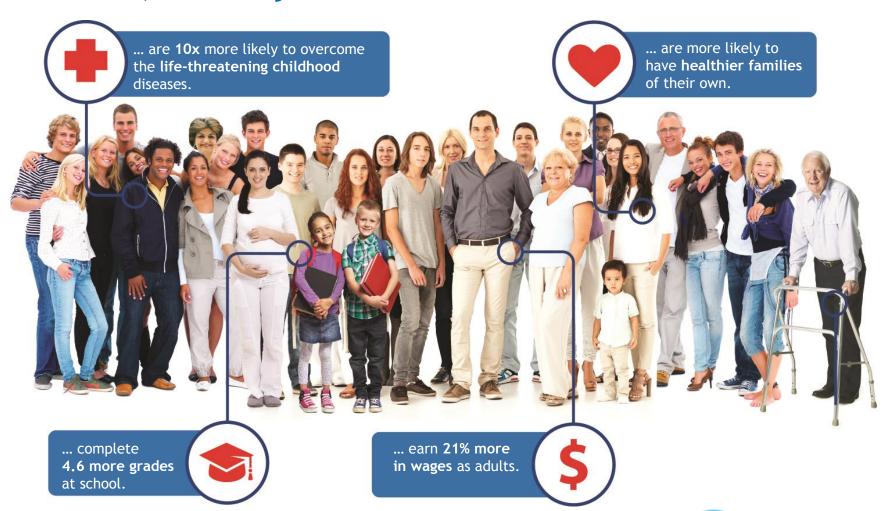
Source: www.thousanddays.org

her baby, putting the child's future

health and development under a risk.



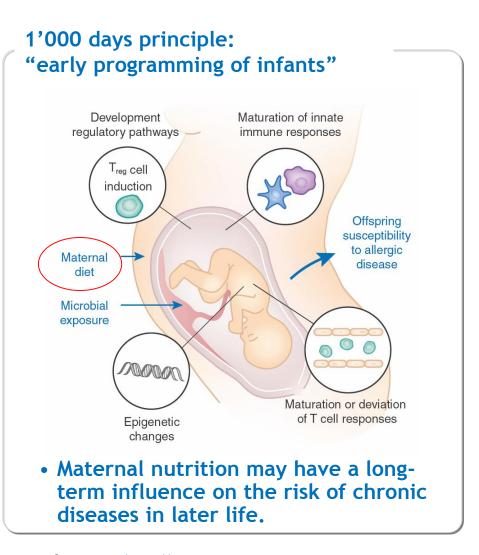
## Children who get the right nutrition in their first 1,000 days...



Source: www.thousanddays.org



### The first 1,000 days echo to the rest of life



## Triage theory by Bruce Ames

 Even modest micronutrient inadequacies have longterm effects on health!



 Continuous intake of sufficient levels of essential micronutrients

Micronurient intake

3rd priority

Long term healthy aging

2nd priority

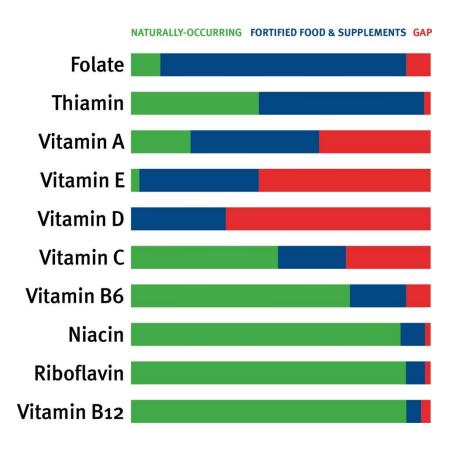
Fitness

Severe deficiency symptoms

Source: www.thousanddays.org



## Even with balanced diets, nutritional gaps exist. What can we do to close them?



3 simple steps to improve nutrient intake



EDUCATE in healthy nutrition



ENRICH diet with fortified foods



ENHANCE supplementation

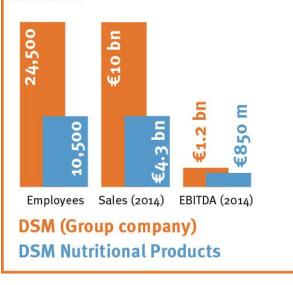
Source: Burden of disease: Lancet global burden of disease study 2010. Global Status report on NCD: Global status report of NCD 2010 by the WHO: How added nutrients and supplements can help fill the gaps: The Journal of Nutrition; 24 August 2011; doi:10.3945/jn.111.142257, page 1853, figure 3". Developed by DSM Nutrition Science & Advocacy.

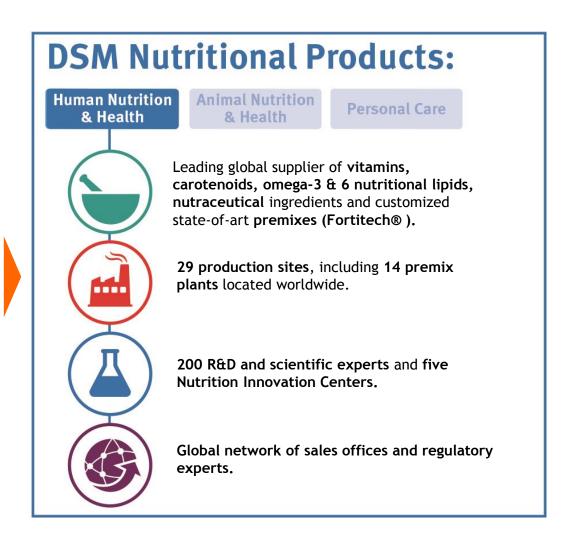


## Our company at a glance

#### DSM is a global, sciencebased company active in health, nutrition and materials.

By connecting its unique competences in Life Sciences and Materials Sciences, DSM creates value along three equally important dimensions: People, Planet and Profit.







## We can help you get to market faster with appealing nutritional solutions that work

#### **Customer segments**

Food & beverage, nutritional supplements, infant nutrition, pharma, base-of-pyramid

Products & customized solutions

Quali®-Blends or individual ingredients

CUSTOMER BRAND SOLUTIONS

Health benefits & lifestyles

Consumer motives to buy health products





#### ...with the customer brand as the core focus





### ...and backed by our Quality for Life™ promise

Quality

Reliability

**Traceability** 

and...Sustainability!



Peace of mind!

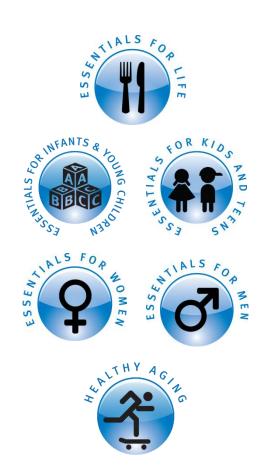




## How can we *Health* you?

Our Health Benefit Solutions address the main consumer health concerns









## Fighting malnutrition: DSM's commitments and partners

#### Nutrition Improvement Program

Develops effective nutrition solutions to improve public health for 4 billion people at the base of the pyramid.



Humanitarian think tank to eliminate malnutrition by advancing research, sharing best practices, and mobilizing support.



unicef 🔮

Private sector partners globally

👑 gain



World Health Organization

### Turning bright science into brighter living

#### **Nutrition Science and Advocacy**



The Nutrition Science and Advocacy is core to our business. We are engaged in a comprehensive strategy that addresses the requirements of nutritional solutions.

#### Consumer education



Each year DSM reaches approximately 1 billion consumers globally with our positive nutrition science, information and messages.



# We can help you get to market faster with appealing solutions that work





### Disclaimer

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#### **R&D** and Innovation

Market-specific competences based on technology-driven set-up



