Dutch Agro & Food: Linking Science, Industry & Government!

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Global challenges

Food security

Climate change

Agri - Food

Food and health

Governance

Biobased Economy
Netherlands Agro-Food

Bits & bites
Dutch production efficiency is high. In the Netherlands the added value per hectare is up to five times higher than the European average.

The Netherlands is the second-largest exporter of agri-food products in the world, surpassed only by the US (which has a surface area 296-times greater).

654,000,000 kg of cheese exports, the 4th-largest worldwide.

Global top 40
4 Dutch companies are included in the global top 40 food & beverage companies: Unilever, Heineken, VION and Royal FrieslandCampina.

80%
More than 80% of exports are destined for Europe, primarily Germany and other neighbouring countries.

4,100 supermarkets serve around 17 million Dutch inhabitants.

Amsterdam is the largest cocoa port in the world.

1.5 million dairy cows occupy 19,200 farms (2011).

Academic
2 Dutch universities feature in the European top 10 with regard to the number of publications related to the agri-food sector.

R&D
€ 48 billion added value for the Dutch economy.

Made in Holland Agri-Food
The Golden Triangle

- Government
- Science
- Entrepreneurs
- Society
The golden triangle

...Science with impact...
Dutch strength: added value

- Added high value
- Bio-refinery
- Horticulture, Dairy, Food & nutrition
- Focus on quality (healthy food)
- Resource use efficiency
Dutch strength: Chain management

- Logistics
- Tracing and tracking
- Certification
- Animal welfare
- Corporate Social Responsibility
Dutch strength: Integrated systems

- Metropolitan Food Security
- Reduction and valorization of waste
- Combine agro-activities
- Chain integration
Trends

Medieval or First Generation University

Humboldt or Second Generation University

Third Generation University

...Science with impact...

Education

+ Research

+ Impact
Technological *and* Socio-economic

...Science with impact...
…To explore the potential of nature, to improve the quality of life…
The Wageningen UR domain: healthy food and living environment

- Sustainable agriculture
- Nutrition and health
- Sustainable fishery
- Biomass
- Chains

- Marine resource management
- Landscape and land use
- Nature & Biodiversity
- Water management
- Competing claims

- Behaviour and perception
- Food security
- Institutions
- Consumer
- Citizen

- Food and food production
- Living environment
- Health, lifestyle and livelihood
Wageningen UR (University & Research centre)

- 2 organisations: Wageningen University & 9 research institutes
- Turnover € 700 mln
- 6,000 employees
- 10,000 stud. (> 100 countries)
- Top 3 in our domain
- 30 locations in The Netherlands
- Center of Excellence in Chile
- Representative Office in China & Ethiopia
- Project offices in Bangladesh & Zambia
Organisation Structure

Supervisory Board

Executive Board

Concern Staff

Facilities & Services

Wageningen University

Agrotechnology & Food Science Group
Animal Sciences Group
Environmental Sciences Group
Plant Sciences Group
Social Sciences Group

Agrotechnology & Food Science
Animal Sciences
Environmental Sciences
Plant Sciences
Social Sciences

Specialized Research Institutes

Food & Biobased Research
Livestock Research
Central Veterinary Institute
Alterra
Plant Research International
Applied Plant Research
LEI Centre for Development Innovation

Wageningen International
IMARES
Wageningen Business School
RIKILT
Education: International context

4,200 Bachelor students – 10% international
4,200 Master students – 45% international
1,700 PhD students – 60% international
Wageningen UR: Increasing student population (BSc/MSc)
Bachelor and Master
A research university

- 4,200 BSc
- 4,200 MSc
- 1,900 PhD

Regular university profile
Wageningen UR International Ranking

- Times Higher Education (THE): 61-70 (overall)
- QS World Universiteit ranking: 151 (overall), 2 (agri sciences), 8 (environmental sciences)
- National Taiwan University (NTU) Ranking: Wageningen UR is No. 1.
International projects

Offices in Brazil, China, and Ethiopia
Campus ecosystem

...Science with impact...

University
- Education and training
- Fundamental and strategic research

Research institutes
- Strategic and applied research
- Pre-competitive & confidential projects

(Inter)national companies
- R&D departments
- Shared facilities
- Joint activities

Spin-offs / SME
- Innovation
- Entrepreneurship
- New companies
Wageningen UR International Strategy

- Collaboration with scientific organizations
  - Joint activities
  - Joint facilities
- Collaboration with Industry
  - Alliances
  - Public-Private Partnerships
- Collaboration with governments
  - Supporting national policies
  - Capacity building
- Triple Helix
Wageningen UR International Strategy

Collaboration

- Added Value
- Excellent Content
- Sound Finances

To explore the potential of nature to improve the quality of life.
Examples Collaboration

**University:**
- Education (student/staff exchange)
- PhD & Post-doc

**Applied research Institutes:**
- Consultancy
- Contract research
- Capacity Building
Thank you!

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