



Ministerie van Landbouw,
Natuur en Voedselkwaliteit

Connecting Education - AKIS

Doreen Verbakel
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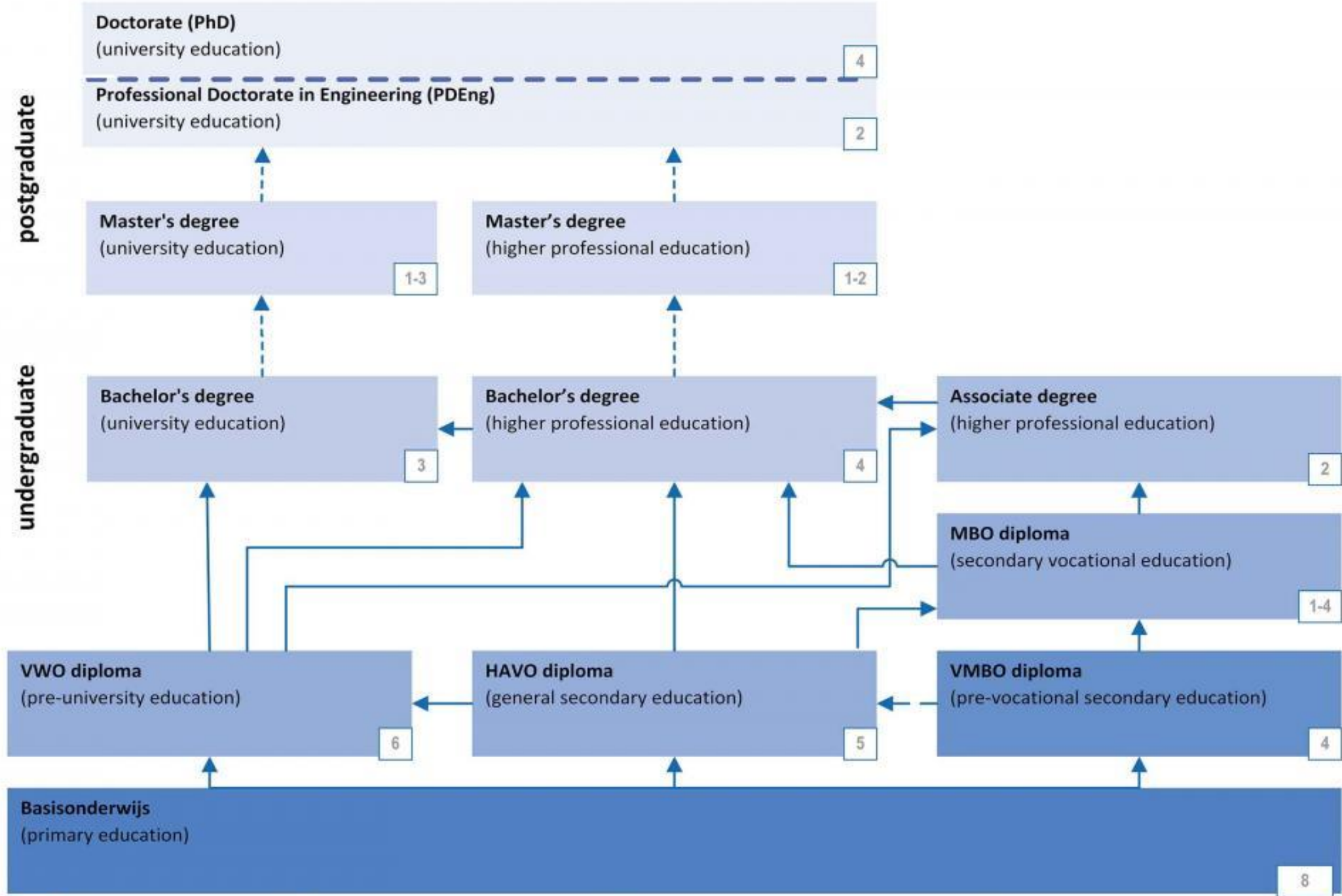
“It's not easy
being green.”





Content

1. Dutch Green Education in a nutshell
2. Role of education in innovation
3. Trends in education
4. Role of SABE and Green Pact

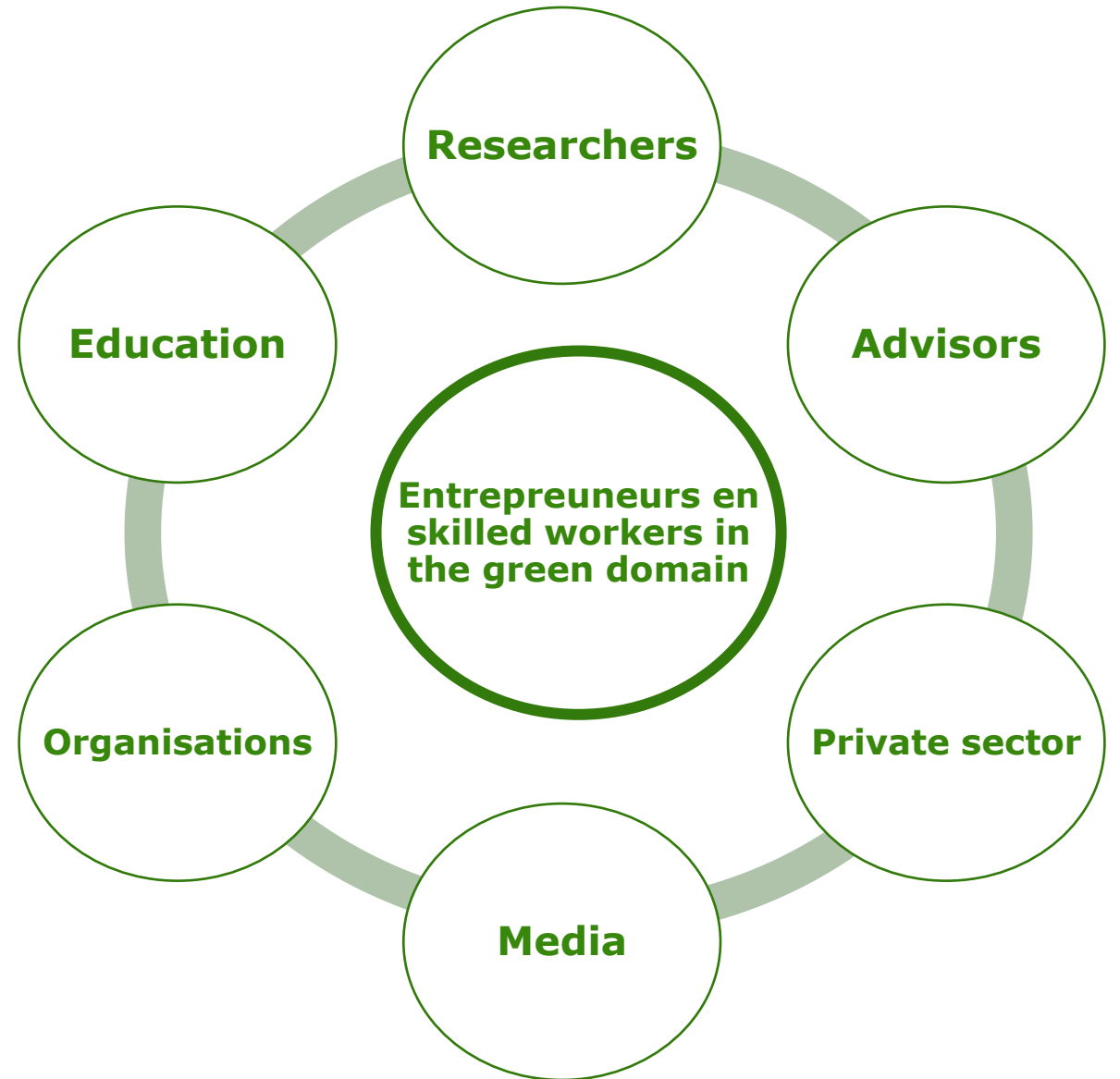


0 Duration of education ↑ Indicates right to access ↑ Some form of selection may be applied



Education and knowledge development and impact

- > **Educating (future) responsible professionals**
- > **Development of knowledge and innovation**
- > **Network function**



Trends



- › **Knowledge transfer and adoption**
 - Shifting focus to knowledge transfer and adoption
 - Transition-driven
 - Education with impact

- › **Flexibilisation of labour market and education**
 - A more fluid labour market
 - Defining the green domain
 - Modular and hybrid education

- › **Life long development**
 - Education institutes
 - Private Sector
 - Participation in practical research
 - Link with advisors





Knowledge and innovation hubs



- World Horti Centre
- Seed Valley
- Fruit Tech Campus
- Greenport Holland
- Food Innovation Academy
- Food Valley NL
- Food Innovation Hub Europe
- Food Tech Brainport
- Fieldlabs: Agro-ecology, Precision Farming, Farm of the Future, Crop protection





Innovation on the farm: SABE Program

> **Vouchers**

- Courses
 - 800 euro for farmers
 - 1250 euro for advisors
 - 50% own payment
- Business Plan
 - 6000 euro
 - 25% own payment
- Professional advice
 - 1500 euro

> **Courses**

- Teachers, farmers, advisors

> **Demonstration farms**

> **Examples**

- Reducing emissions e.g. nitrogen
- Sustainable soil and water
- Precision agriculture
- Nature inclusive agriculture
- Pest management and climate resilience
- Biodiversity
- Sustainable entrepreneurship
- Animal health and welfare



The Green Pact

Goals

Strengthening the green knowledge and innovation system in the Netherlands

Ambitions

Substantive renewal of education and innovation of professional practice, in order to contribute

- the realization of major social challenges
- greening the labor market

Knowledge infrastructure:

- CiV Green (VET)
 - CoE Green (UAS)
 - WUR Knowledge transfer
-
- > 4 Accelerator programs
 - > Knowledge sharing
 - > Practical arrangements/subsidies
 - > Impact prize



The accelerator programs

> 1. Labour market

- Green Classification
- Green Monitor
- Green Future Thinktank
- Green Worlds (orientation)
- Green skills approach
- Life long development: awareness and needs assessment





The accelerator programs

> 2. Knowledge sharing

- Green Knowledge Platform (digital)
- Tailored Knowledge Program
- Program Applied Knowledge Food and Green





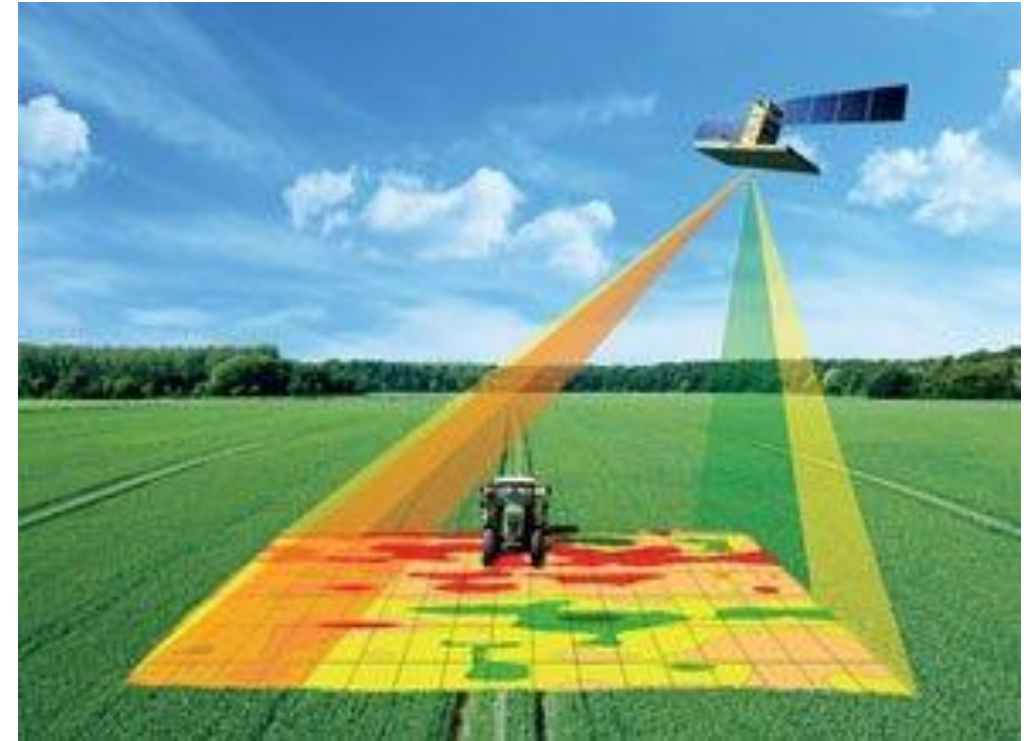
The accelerator programs (2)

> **3. Internationalisation**

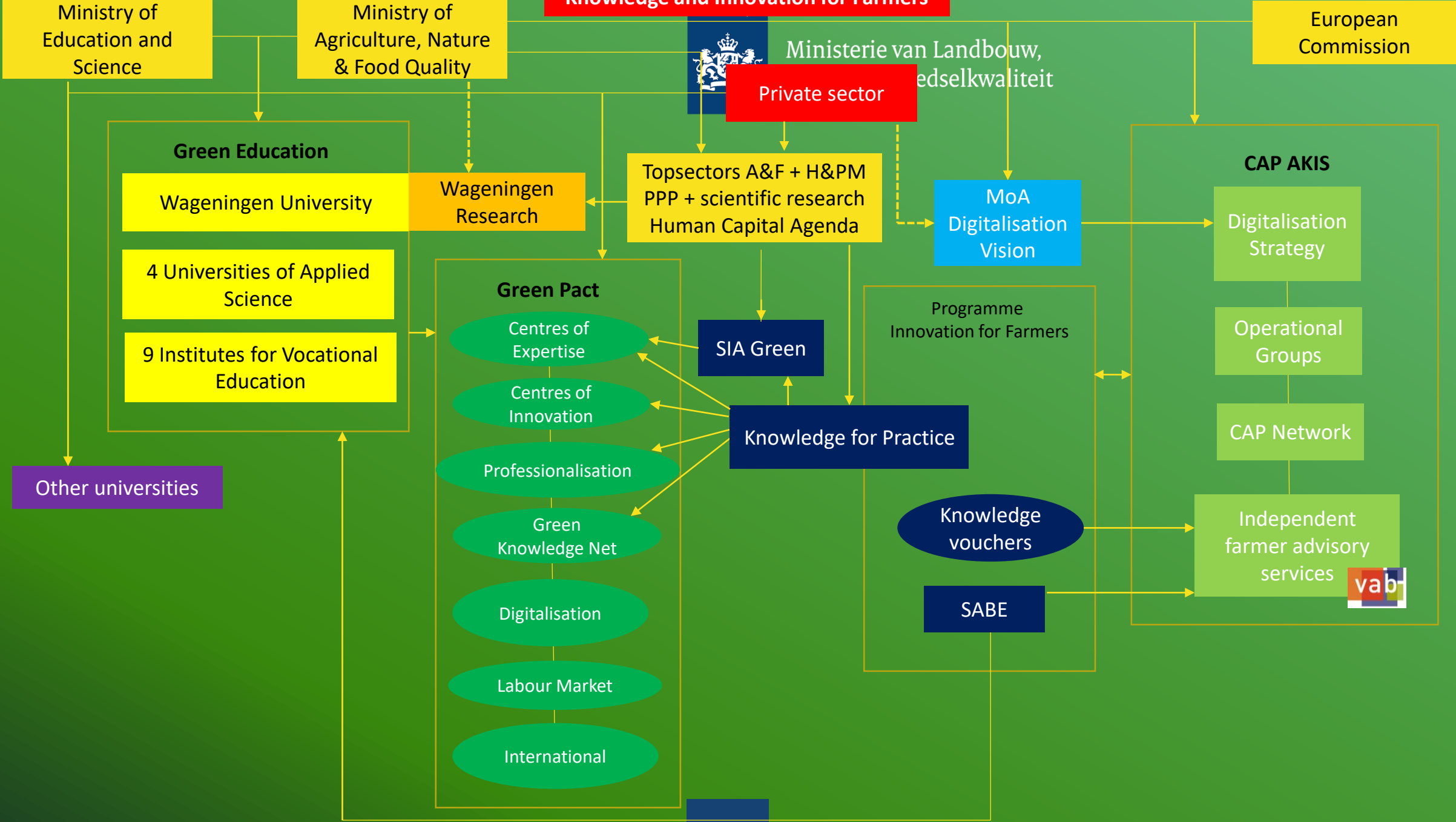
- Borderless network: capacity building
- Exchanges
- SDG's, internationalisation agenda

> **4. Digitalisation & Technology**

- AI, robotics, data science, sensortechnology
- Living labs, hotspots, Fieldlabs precision farming, experimental garden



Knowledge and Innovation for Farmers





Ministerie van Landbouw,
Natuur en Voedselkwaliteit

Questions?



Dutch green education in a nutshell

> 'Green' education institutes (50), 150 locations

- 1 Life Science University, Wageningen University & Research
- 4 Universities of Applied Sciences
- 9 Vocational Education schools
- 36 pre-vocational schools



> Numbers of students (ca. 80.000)

- Pre-vocational: 35.000 (=3,5% of total)
- Secondary vocational education: 22.600 students (= 4,5%)
- Higher vocational education: 12.500 students (= 2,7%)
- University education 12.000 students (= 3,9%)