

Session: Developing a national agricultural education and training system

A Dutch perspective

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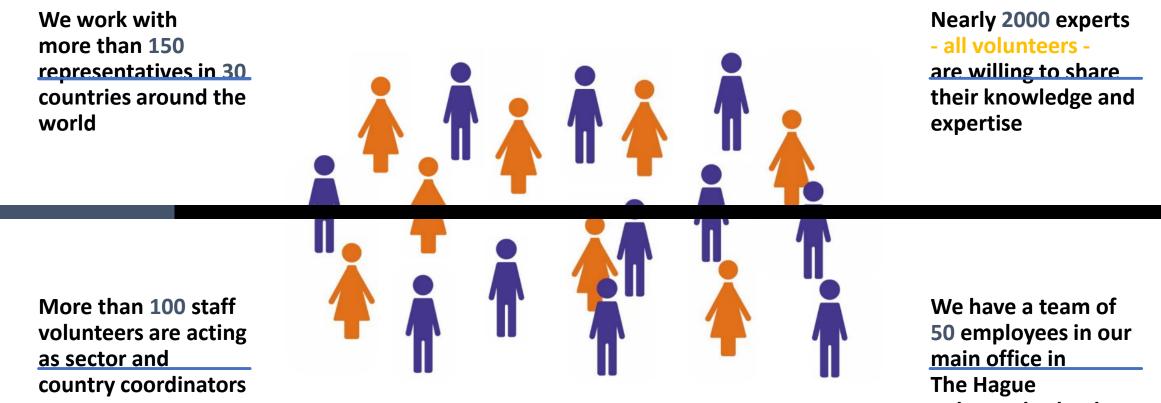
PUM

Netherlands senior experts

Vibrant businesses, better lives

Our people





- the Netherlands

Thematic Approach

Food Security



Agriculture & Horticulture



Animal Production, Beekeeping & Fisheries



Food & Beverages

Health and Environment



Health Care



Energy, Water, Waste & Environment/CSR

Industry and Trade



Chemical & Synthetic Materials

Textile and Leather

F



Building & Construction



Metal Industry

Trade



Tourism & Hospitality



Vocational Education & Training



Business Consultancy



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National Geograpic sept 2017 review: This tiny country feeds the World

• Netherlands #2 agricultural exporter





Innovation and education

- Innovation happens within a social system: "an institutional clustering of practices among the participants (not necessarily implying consensus) (Anthony Giddens)
- Long-term infrastructural investment in 'mental capital' and its improvement is crucial for successful economic development and for competitive trade perforance (Chris Freeman, OECD)
- 'Coupling mechanisms' between the education system, science, production and markets have been an important aspect of the institutional changes introduced when countries are excelling (Freeman, OECD)

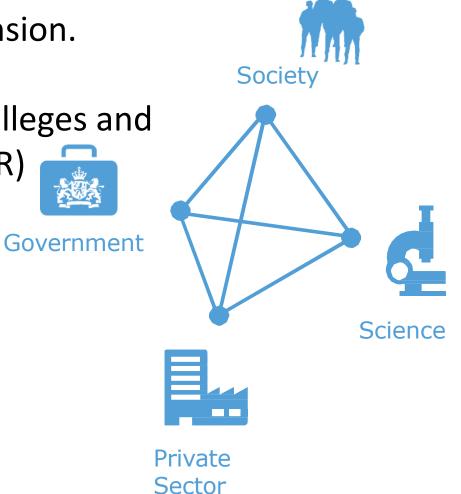
Dutch agro innovation and education

Government support initiated strong links between farmers and research, education and extension.

Vocational training centers, Agricultural Colleges and Wageningen University and Research (WUR)

Partners include :

- Public sector
- Private sector
- Science
- International linkages
- Society (NGO's)



Wageningen University and Research (WUR)

- Wageningen University & Research (WUR) is widely regarded as the world's top agricultural research and education institution, and links with an expansive cluster of agricultural technology start-ups and experimental farms.
- What Stanford University is for Silicon Valley, is Wageningen for agriculture, a celebrated merger of academia and entrepreneurship.

Relevant example of collaboration:



NL-Food Security Alliance

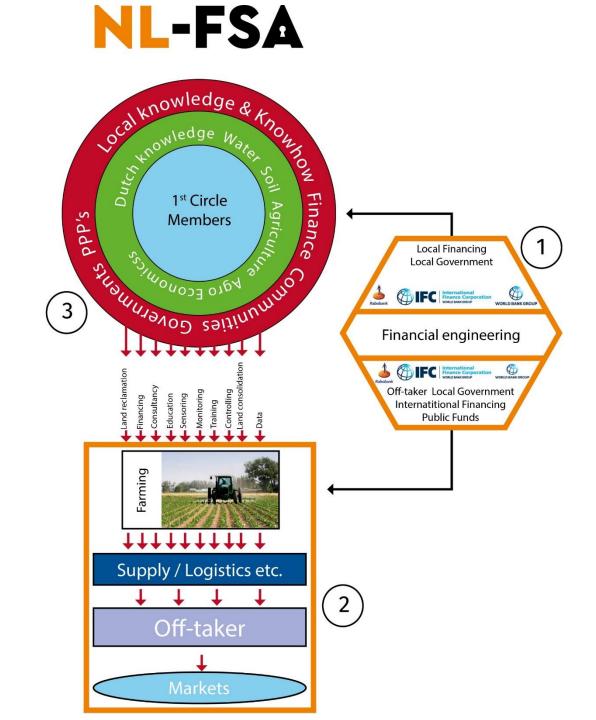
Solving Soil, Water, Food, Social related problems in the World





ROYAL Eijkelkamp





NL-FSA some more partners





Africa needs young farmers



Increasing food demand

The food demand in Sub-Saharan Africa will increase by 55% over the next ten years Ageing farmers

The average age of farmers in Africa is 60, while the majority of the population is under 24 years of age

Economic empowerment

Growth originating from small agricultural producers is 2 to 4 times more effective at reducing poverty than growth from other sectors

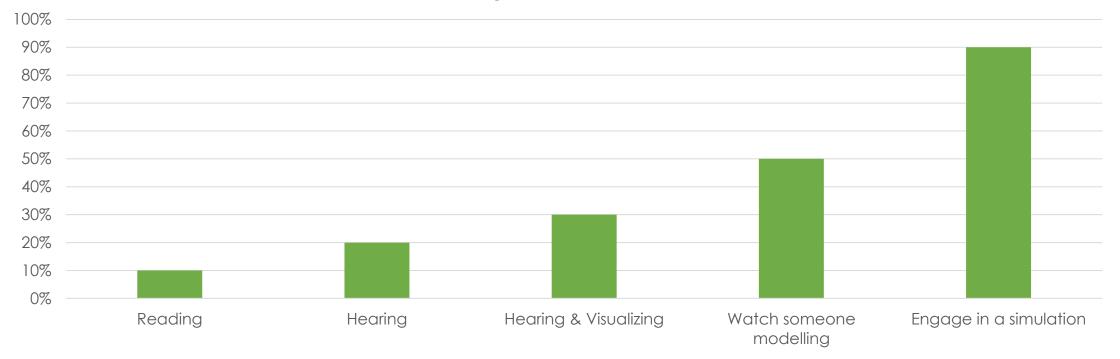
The next generation of billionaires in Africa will be farmers.

Akinwumi Adesina - President of African Development Bank

"EDUCATION IS THE MOST POWERFUL WEAPON WHICH YOU CAN USE TO CHANGE THE WORLD." NELSON MANDELA

Why is game based learning effective?

People remember:



KUCHEZA

empowers small-scale farmers to see their **farm as business** through

game-based learning





Farming Forward

version V4.3.7

Watch the trailer of Farming Forward NTINUE GAME

SELECT SEASON

OPTIONS

QUIT

You're using the demo account.

SIGN OUT

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ABC for farmers





Agronomics

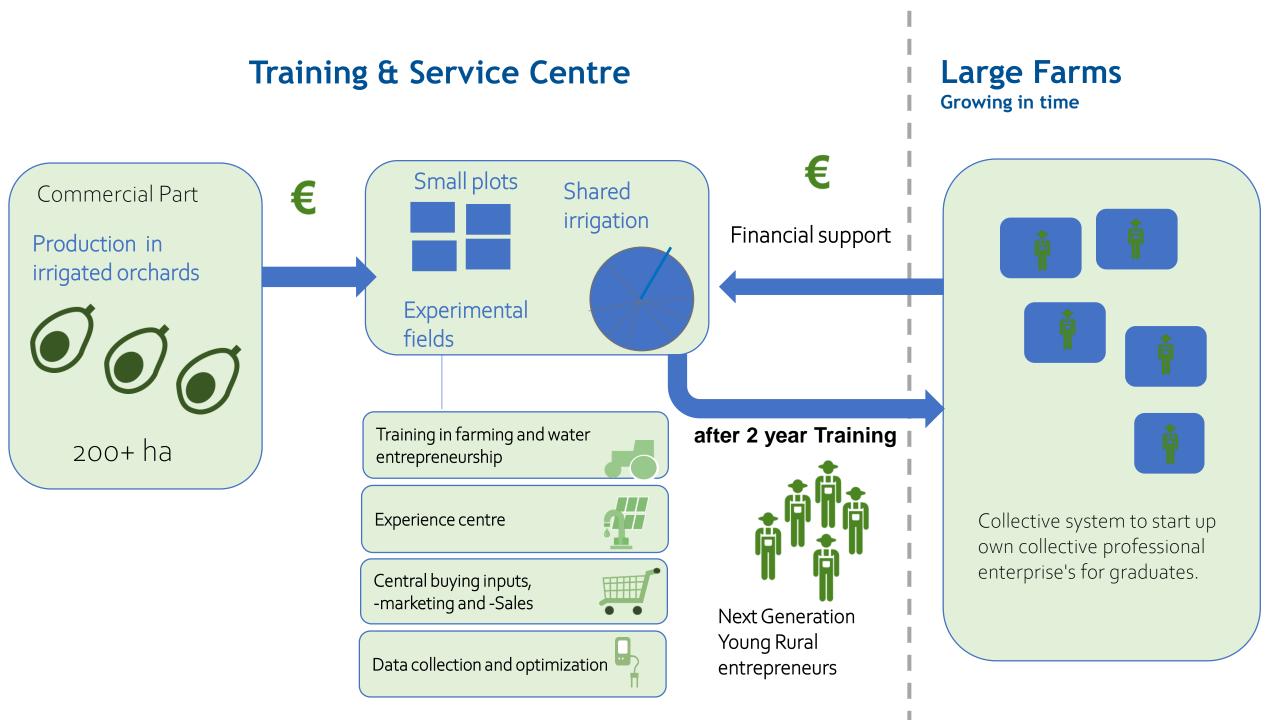
All aspects of the agronomical process from land preparation to post-harvest handling

Business management

All aspects of the business economical side of farming, like business development, bookkeeping, and financial management

Cooperation

All aspects of cooperative entrepreneurship in farming business, from buying inputs together to the development of joint businesses



Training programme

During 2 years, all trainees learn to:



All aspects of the agronomical process from land preparation to postharvest handling and/or potable water supply

Manage financials

All aspects of the business economical side of farming, like business development, bookkeeping, and financial management

Cooperate

All aspects of cooperative entrepreneurship in farming business, from buying inputs together to the development of joint businesses



All steps in collecting data, share experience, new practices, thinking out-of box, use of external support



Questions?