

International Cooperation in Applied Higher Education

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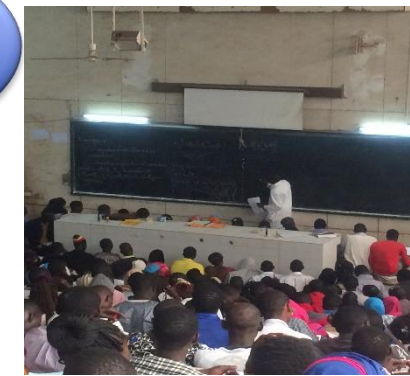
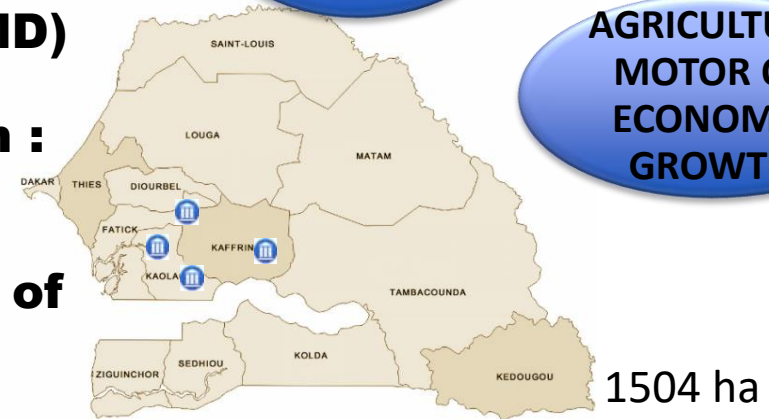
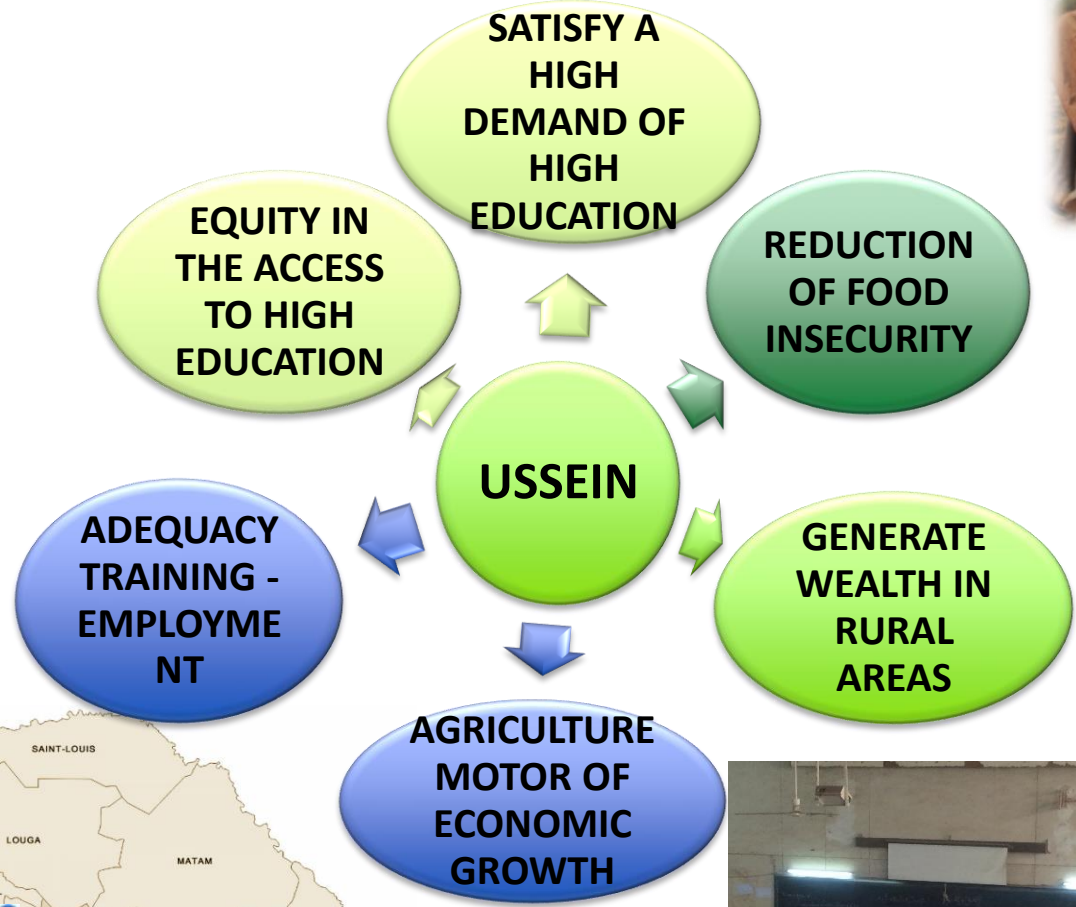
Panel „Promoting capacity development through training cooperation projects“, 9th World Water Forum 2022, Dakar

USSEIN : AN AMBITIOUS PROJECT OF PRESIDENT MACKY SALL



To modernize and develop the agricultural sector
 → creation of USSEIN in the heart of the Peanut region
University with a focus on agriculture in its whole value chain

Standard system of LMD (BMD) and bioengineering
 Competency based approach :
 Emphasis on vocational degrees **(35 Bachelor since 2019 and 2 masters in 2022)** of agriculture-related jobs



CLASSES



**AMPHITHEATRES and
AUDITORIUM**



**LIBRARY,
DOCUMENTATION
CENTERS**



LABORATOIRES



**UNIVERSITY
RESIDENCES**



**SCHOOL FIELDS,
FARMS, POOLS**



Large sectors of agricultural value chain

- **Promote the use of scientific parks and incubators in order to encourage self-employment**
- **A new kind of university oriented towards learning by doing and **entrepreneurship****
- **Services to the community and **sports** will be counted as teaching modules**



USSEIN Department of Hydraulics, Rural Engineering, Machinery and Renewable Energies

- **License in Agricultural Hydro Development, Irrigation Systems, Hydraulics and Sanitation**
 - **Realize hydro-agricultural infrastructures adapted for an efficient and sustainable agriculture**
 - **Ensure good development of irrigated perimeters and adapted irrigation systems**
 - **Build a drinking water supply and sanitation network**
 - **Optimizing the use of water resources**
 - **Control and monitoring of water quality Service**
- **Opportunities / Trades**
 - **Specialist in hydro-agricultural development and irrigation systems/ in hydraulics and sanitation**
 - **Specialist in management and planning of water resources / land resources**
 - **Specialist in maintenance of rural engineering infrastructure**
 - **Technical sales specialist and advisory support**

USSEIN – International cooperation formats

- **Cooperation in the field Education/ Research (HSWT) → MoU in 2021**
 - **Exchange of research students and scientists for educational and research programs of mutual interest.**
 - **Exchange of academic materials and publications in the field of education and research.**
 - **Collaborative research programs, seminars and workshops.**
 - **Faculty development program of mutual interest.**
 - **Exchange of administrative staff of mutual interest.**
 - **Joint consultancies.**
- **Cooperation shall be implemented by the following means:**
 - **Networking**
 - **Practical oriented, professional training in the field of agriculture**
 - **high-performance training and education (implementation and sustainability)**

HSWT - A 'Green' Training Centre



HSWT ...

... offers a **unique portfolio** of 'green' subjects and combines **direct practical relevance** with **scientific excellence**

... focuses on **applied higher education**: Dual study programmes, practical semesters, high proportion of exercises, external experts,...

... drives **innovation** in a wide range of areas (food entrepreneurship, digital agriculture)

HSWT - Network Africa



Focus countries: Ethiopia, Kenya, Senegal, South Africa, Togo, Tunisia, Uganda

1

Training Pact with Africa
incl. 5-months **postgraduate course** “Food Chains in Agriculture”

2

Technology & Transfer Pact

3

African-Bavarian Alliance for Applied Life Sciences

4

TOMATO - Harnessing of Efficient Vegetable and Fruit Production, Processing and Marketing Systems in Ethiopia through Practice Based Education and Participatory Research

HSWT Network Africa

International projects: Applied higher education in the areas of land, soil & water

Sustainable Agriculture & Food Value Chains



International **master degree programme** „Farm Management“

(since 2000)



Exposure courses for professionals

(AMA project, since 2019)



Postgraduate course „Food Chains in Agriculture“

(AMA project, since 2019)

HSWT Network Africa

International projects: Applied higher education in the areas of land, soil & water

Sustainable Agriculture & Food Value Chains



Implementation of agribusiness innovations

(TAP project, since 2020)



Applied degree programs in the area of food technology

(TOMATO project, since 2021)



Bachelor summer semesters in life sciences and green technologies

(AMA project, since 2019)

HSWT Network Africa

International projects: Applied higher education in the areas of land, soil & water

Climate Change, Water & Soil



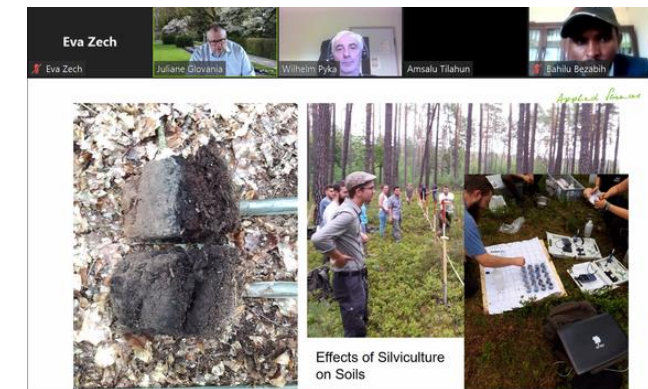
Conferences and seminars in the area of climate change and its impact on agriculture and cities

(BEA/ABA projects, 2021-2022)



Lecture swaps in the Areas of climate change and soil

(BEA project, 2021-2022)



Workshop „Applied Teaching in Soil Protection & Watershed Management“

(BEA project, 2021)

HSWT Network Africa

International projects: Applied higher education in the areas of land, soil & water

Land Use & Regional Management



Component 2
Sustainable Regional Development

- Utilizes English-language teaching resources across HSWT campuses more efficiently for a new English-language master degree program
- Incremental internationalization and collaborative concept development with partner schools and existing degree programs for new master
- Student and faculty abroad experiences; joint teaching and research for shared learning content and degree opportunities among partner schools

Joint master degree programme
in the area of sustainable regional
development

(HAW project, since 2021)



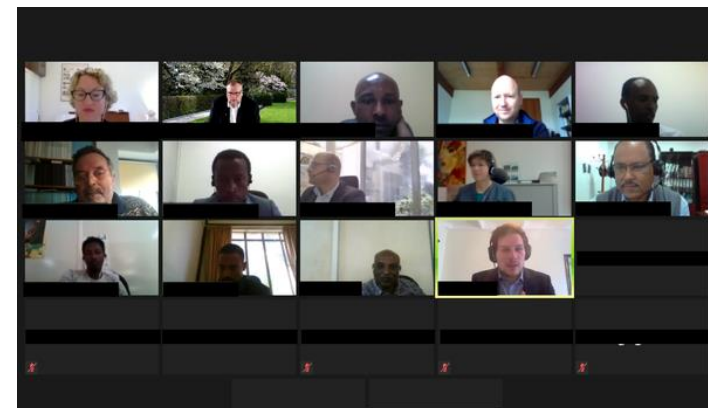
Managing the Use of Land

Lecture swap

By Sayeh Kassaw (PhD)

Lecture Swaps in the areas of
(participatory) land use &
regional management

(BEA/ABA project, 2021-2022)



**Workshop „Applied Teaching in
Land Use“**

(BEA project, 2020)

We are looking forward to connecting with you.

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*Applied Sciences
for Life*