



Africa- Bavarian Alliance for Applied Life Sciences

Brief presentation/ Virtual Kick-off event

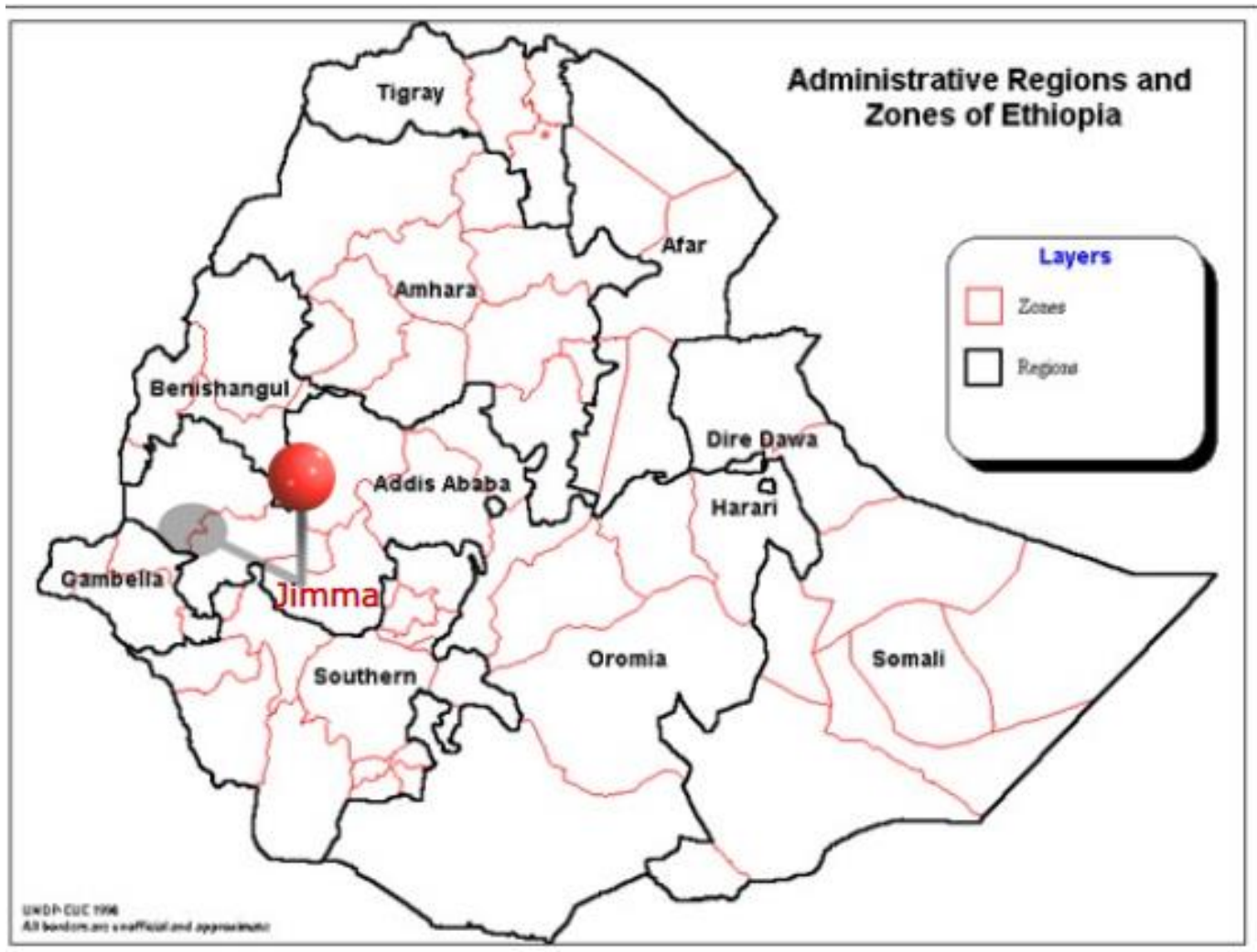
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March 11, 2022

JU-background



Jimma University location



Jimma University (JU)

- JU is one of Ethiopia's leading and oldest universities founded on the amalgamation of JCA (1952) & JIHS (1983) and established in 1999.
- **Motto 'We are in the Community'**
- **Vision:** Aspiring to be one of the leading community-based research universities in Africa and renowned in the world by 2030

JU campus

JU has

- 2 complex teaching institutes,
- 6 colleges,
- 4 research institutes, and
- 6 research centers



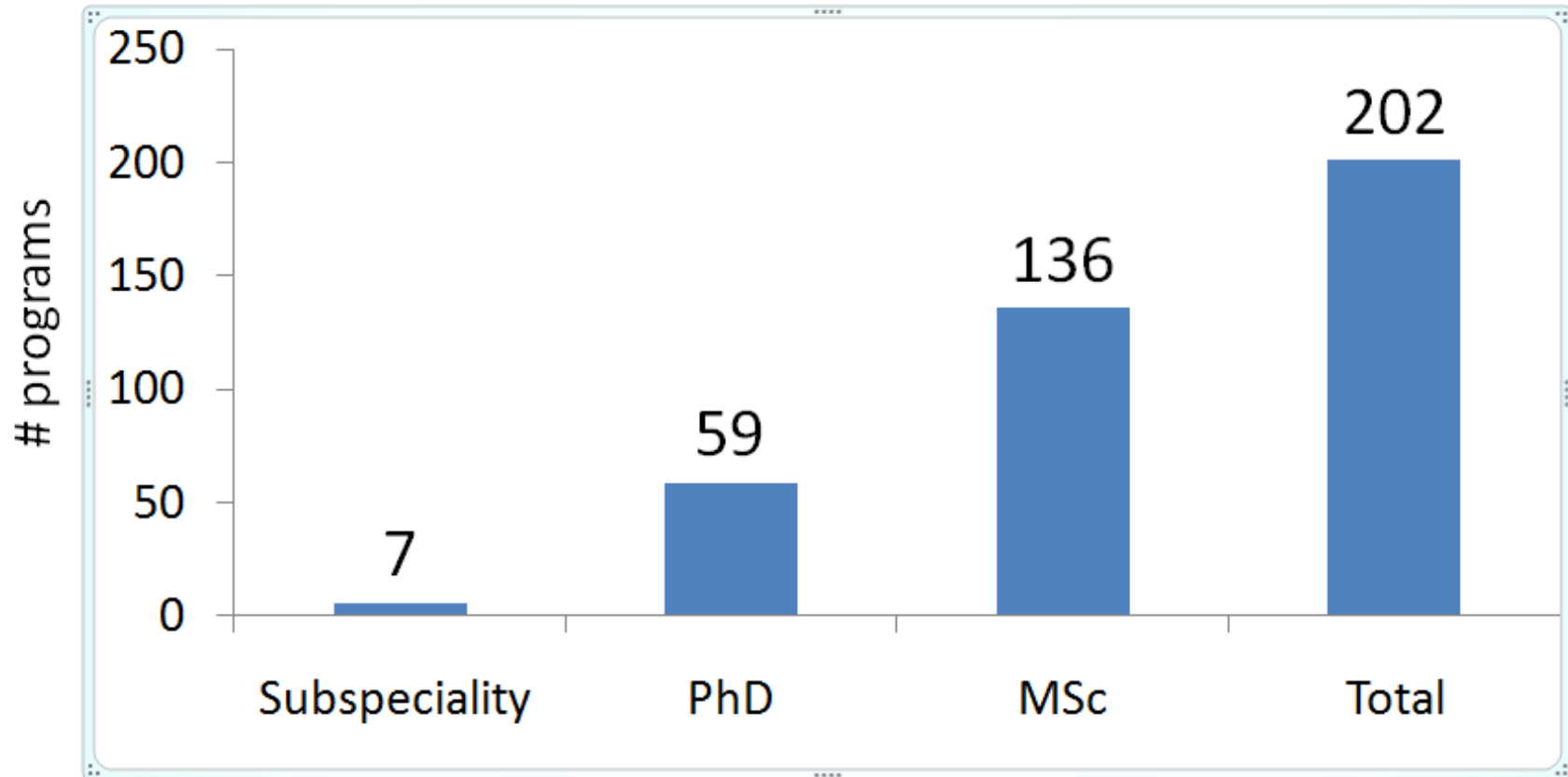
Institute of
Technology



Campuses ... Agaro Campus under construction



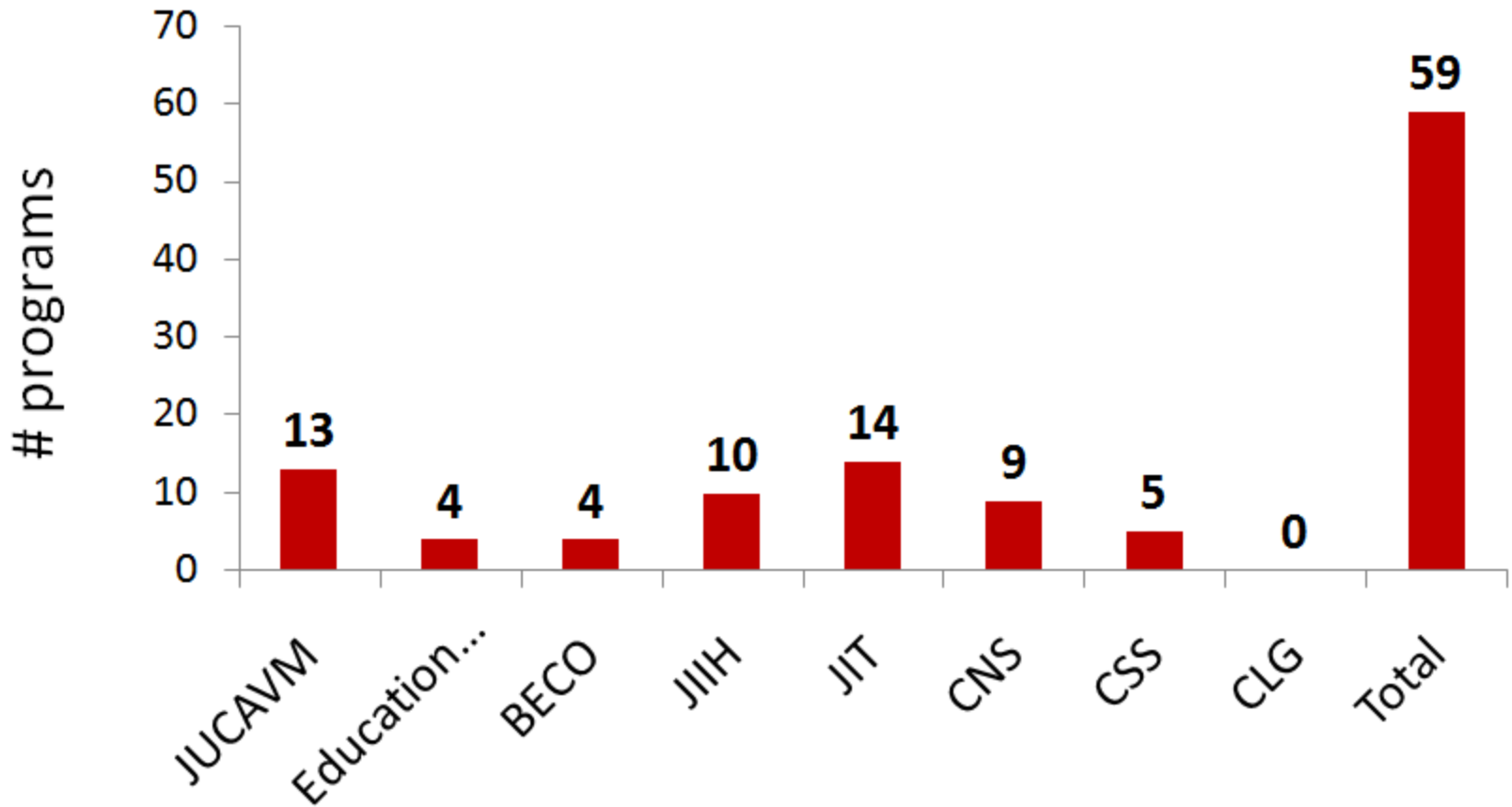
Teaching and cont.....



Total number of graduate & Postgraduate Programs in JU



Teaching and cont.....



Total number of PhD Programs in JU



Geographical advantage

- Jimma University is located in areas of UNESCO bio-reserve, which is endowed with immense natural resources.
- The area is an ideal place to conduct both basic and applied research in the areas of
 - climate change
 - ecotourism
 - biodiversity conservation
 - agricultural and life science
 - food security
 - coffee genetics
 - pharmaceuticals
 - environmental engineering
 - public health
 - medical sciences
 - water and environment and
 - irrigation engineering.

Geographical advantage

- Four Biosphere reserves (Yayu, Kaffa, Shakka, Magang)

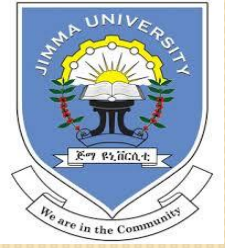


Yayu coffee forest biosphere reserve



Kaffa coffee forest biosphere reserve

- Four Federal and regional national parks are situated in this location. Namely, Gambella, Cheberachurchura, Gibe valley and Mago national parks.



JU's Global Partners

- ❖ International and global engagement is among the five goals of JU's SP.
- ❖ JU has a long history and experience in initiating collaboration and partnership with large number of academic, research, and other institutions from Europe, the USA, and Asia.

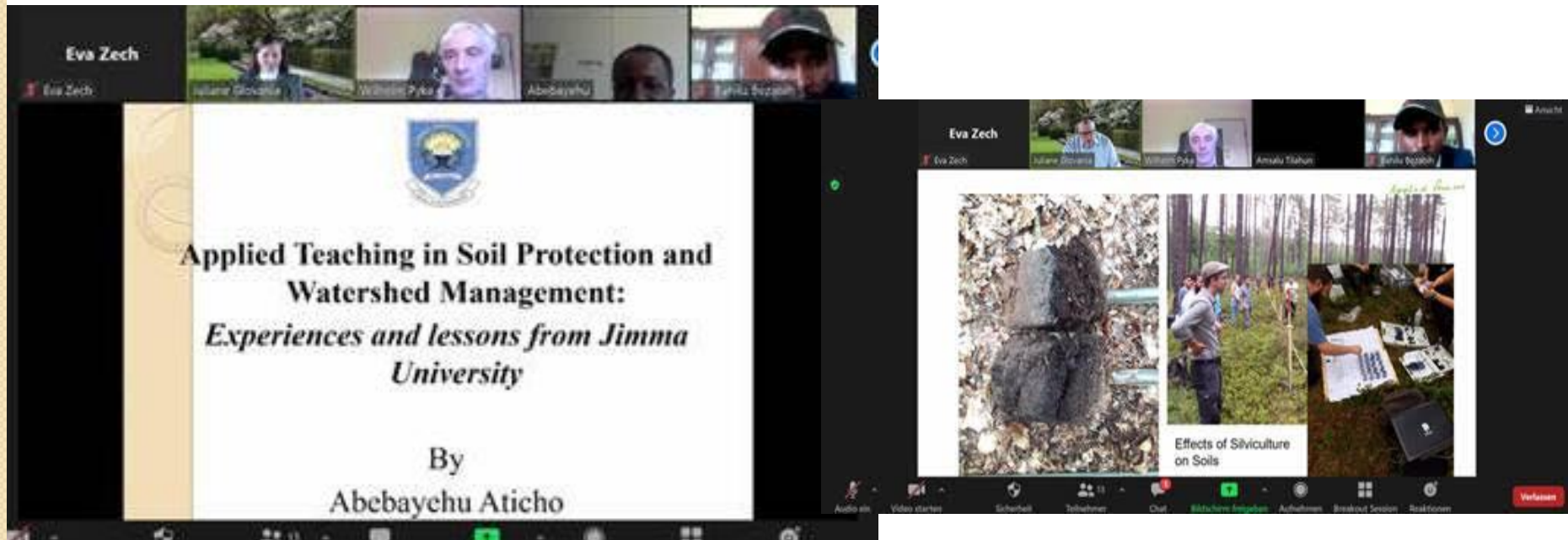


Jimma University (JU)


Collaboration activities with HSWT under 'Bavarian-Ethiopian Alliance for Applied life sciences'

- Our students and academic staffs benefited a lot from knowledge exchange and experiences sharing during the conferences, workshops and lecturer Swap organized under the old Bavarian-Ethiopian Alliance .

Workshop “Applied teaching in soil protection and watershed management” (October 2021)



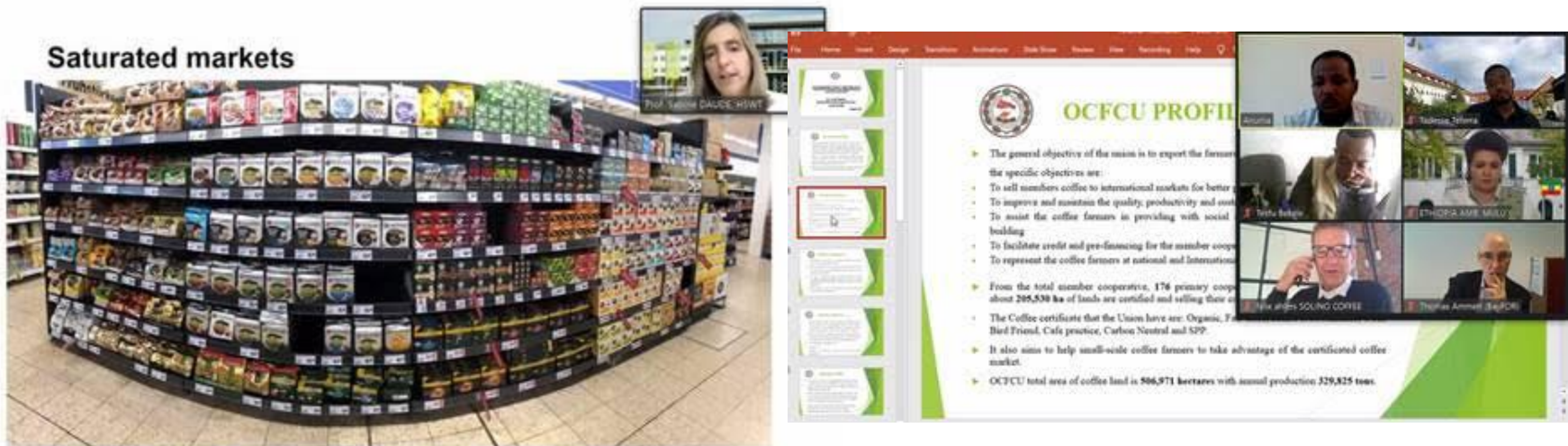
The image shows a screenshot of a Zoom meeting. The main window displays a presentation slide with the following text:


Applied Teaching in Soil Protection and Watershed Management:
Experiences and lessons from Jimma University

By
Ababayehu Aticho

The meeting interface includes a top row of participant video thumbnails with names: Eva Zech, Juliana Glovanca, William Pyka, Ababayehu, and Eshetu Bezaalem. A bottom row shows thumbnails for Eva Zech, Juliana Glovanca, William Pyka, Amulu Tsiabuli, and Eshetu Bezaalem. A gallery view on the right displays three photos: a soil profile, a person in a field, and a group of people in a field. The photo caption reads "Effects of Silviculture on Soils". The Zoom control bar at the bottom includes icons for Audio on, Video on, Screen Share, Mute, Unmute, Chat, and a red "Verlaten" button.

- Conference “The Coffee Value Chain & Higher Education: Bridging the Gap between Theory and Practice” (October 2021)



Conference “Climate Change and Its Impact on Rural and Urban Areas – Perspectives from Bavaria & Ethiopia” (November 2021)

Bavarian Environment Agency

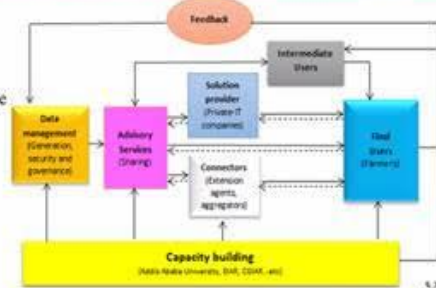
Climate Change Impacts and Adaptation Strategies in Bavarian Cities

04 November, 2021
Hanna Skiba, M.Sc.
Bavarian Environment Agency, Climate Centre




Innovative approach: Value chain of actors consortium framework in agro-advisory service extension

- **Strategic direction**
 - Employing D.A., UAV, satellites;
 - Incentive-tailored innovative instruments; including the digital Agro-climate advisory services (DCAS)
 - Supply side → left most, input/enablers
 - Intermediary: insurance, financiers, private actors
 - Demand side → right most
 - Producers, aggregators → unions, cooperatives, farmers federations
 - Processors
 - Sellers → whole, retail, exporters



Capacity building (MBA, Hohenheim University, BM, CGIAR, etc.)

Digital I agro-climate advisory across value chain



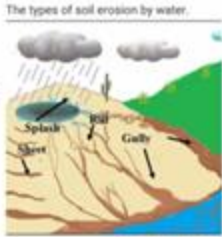
- Lecturer Swap Soil (December 2021)



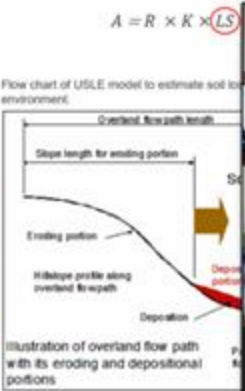
- Lecturer Swap Soil (January 2022)

USLE
LS factor – topographic factor

- Topography:
 - L = length (%)
 - S = steepness (m)
- Concave and convex slopes



The types of soil erosion by water.



Flow chart of USLE model to estimate soil loss in environment.

Overland flow path length

Slope length for eroding portion

Erasing portion

Hillslope profile along overland flow path

Deposition

Illustration of overland flow path with its eroding and depositional portions

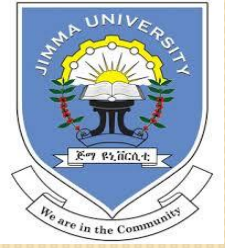
$A = R \times K \times LS$

WEHENSTEPHAN - TRIESDORF
 University of Applied Sciences

Oleku Hirko Diriba

Potential areas for under the new alliance

- Capacity building-
 - short and long term training
 - Teaching and research infrastructure
- Research and community services
- Workshops / scientific conference
- Public lecture
 - Climate change
 - Ecotourism
 - Biodiversity conservation
 - Agricultural and coffee
 - Food security



THANK YOU!
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