Ethiopian Education Network to Support Agricultural Transformation (EENSAT)

Education Component

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Introduction

- In developing the proposal gaps related to GI education were identified

- current academic programs have not kept abreast with rapid advances in technology to respond to emerging labour market requirements

- Limited training at more technical and operational level.

- Loose networks among higher institutions

- Mechanisms to bring changes devised in education, research and outreach.

Milestones: Trainings

- **GI technology and science related**
  - Image acquisition using drones
  - Use of Photogrametry software to create Orthorectified high quality base maps and elevation models from point cloud data
  - Use of EUMETCast reception station and the data received
  - Training on free and open software for GI Science (QGIS, R, Python, ILWIS....etc)
  - Training on use of medium resolution free satellite data like Sentinel, Landsat and ASTER

Milestones: Trainings

- Education management related trainings:
  - Curriculum review of relevant academic and TVET programmes
  - Education quality assurance review
  - Training in support of maintaining a digital learning environment
  - Training in support of IT needs to maintain an operational cluster environment

Milestones: computer cluster + tools

- 75 high storage and processing speed

- Servers

- Plotters

- Field equipments for data collection

- NAS (Network Attached Storage)-disks - 40 TB each partner

Milestones: Distance education (DE)

- An open-source and open content digital learning platform established (sharing educational materials)

- An audio / video recording room setup in support of DE established (three)

Milestones: Scholarship

- 9 staff enrolled for PhD studies (in ITC) and 18 for MSc (in Ethiopia)

- A course module on research skills developed

- 20 DAs trained

- 10 TVET trainers trained

Milestones: Imagery reception and acquisition

- EUMETCast reception infrastructure maintained and become operational
- Drone (at least three drones to partner universities)

Milestones: Curriculum revision and Harmonization

- Three GI related curriculum reviewed

- GI related education in Ethiopia and is not well established

  ➤ Harmonization ---- professionalism

Milestones: TVET support

- Adaptation of TVET course syllabi and instructors trained on new course elements

- GI related Training of trainers

- Hackathon (exploratory programming – programming marathons) and product co-creation events organized

- Entrepreneurship training delivered