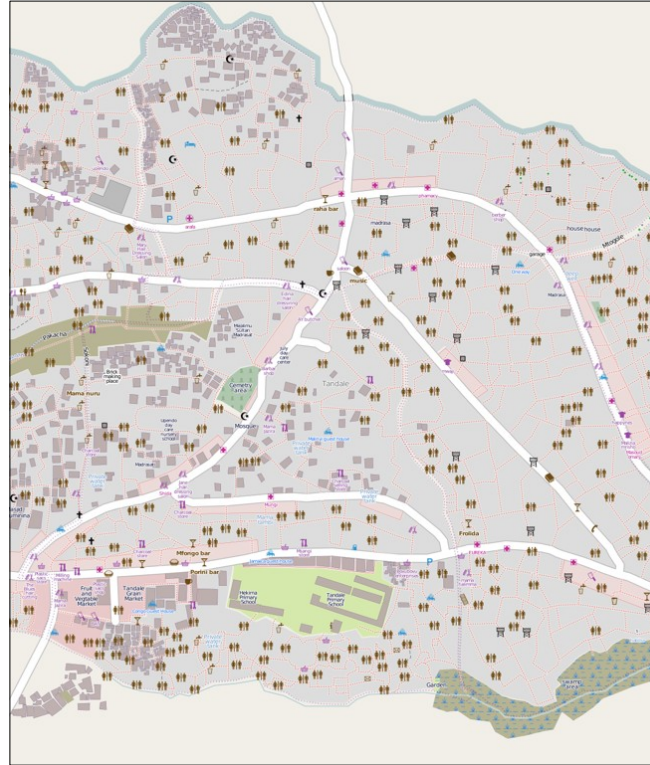Industrial replacement as part of resiliency academy at ARU

- Evolutions of industrial placement in urban resilience since 2010

- Ardhi university has a practical project oriented teaching through in-semester fieldworks and industrial attachment

- OSM and engagement of ARU and WB started as excise of digital empowering of communities through citizen mapping of informal settlements

- No framework goals and nature of cooperation existed at the time but it was a mere cooperation

- Involves students and junior lecturers

- Started with mapping of Tandale

- Students were acting as local ambassadors to communities in empowerment in spatial decisions

- The practice has been continuing even since in every year

Enlargement of scope integrations with TURP

- Widening engagement since round 2015/16

- Integration with many other universities (UDSM/SUZA)

- **Establishment of the framework (MoU) into resilience academy**

- Average number of students increase to over 100 per year

- Linked to masters class training ands curriculum development

Mastering technologies:
mobile phone, drone use and programming

Impacts to date

- Cooperations among resilience stakeholders in data and technologies from within and outside the curry through spatial data interests between Ardhi university , RedCross, the Netherlands, USA and UK

- Wide application of mapping and capacity building that helps the councils/government even supporting other WB programmes eg TSCP/ULGSP in revenue enhancement

- Young staff as local and regional champions in open source and open data for resilience

Impacts being waited for……!

- Resiliency academy has started to actualise in half of its goals !

  - ✓ Urban Exposure mapping

  - ✓ Engagement of students, in resilience spatial data

  - – *Establishing a risk mapping laboratory containing specialised equipment*

  - – *Training of ARU staff and students on operation and maintenance of survey drones and relayed equipment*

  - – *Training and participation in the set-up and maintenance of new hydro-meterological sensor networks*

  - – *Organizing joint demonstrations for students and staff to showcase the use of information, computer technology and spatial data in urban resilience issues*

  - ✓ Developing joint curriculum for training and retraining of professionals on resilience mapping, online sharing and accessing data.

  - ✓ Generating contents that will feed into ARU courses and pedagogical skills.

- The penetrations of technologies into industry, availing business opportunities and fostering civil society in resilience, mapping issues has not yet been focused upon. Not central even to the MoU

Thank you