

**Telemetry based
road quality
assessment of
gravel roads.**

Our Network

Bergische Universität Wuppertal
Dipl.-Med. sys. Wiss. Thomas Klemmer, Prof. Dr. –Ing Sivapatham
Namibian University of Science and Technology
Beatha Nakamela, Rian Uzuzi

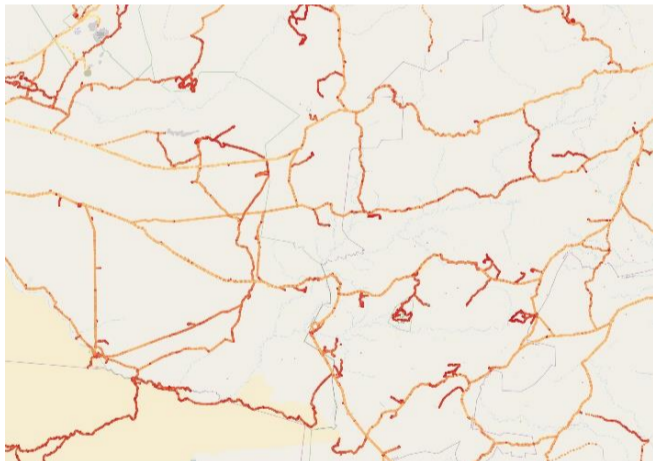
Processing, logistics and traffic

Challenges

- Vast gravel road infrastructure
- Limited maintenance resources
- Long distances to travel
- Young workforce
- Still very limited access to European (job) markets

Project Objectives

- Understanding local infrastructure usage
- Understanding gravel road behavior
- Creating and adapting guidelines for road quality assessment
- Digitally enable engineering students
- Creating prediction models for road and ride quality development



Good practices

- Planning ahead, long term scheduling is very important!
- Open and transparent finances on both sides
- Enable local workforces and businesses
- Network, Network, Network
- Patience, Patience, Patience
- If you have to micromanage you have the wrong team.

Activities

- Coordinative Jour Fixes with all stakeholders via Zoom
- Joined assessment and ground truth sampling in Namibia
- Coordination with local authorities and businesses
- Communication with all stakeholders
 - Municipalities
 - Rental Fleet Operators
 - Students
 - Teacher
 - Local Farmers and logistic providers
- Introducing new content into existing curricula (IT, Databases, Big Data)