

→ EARTH OBSERVATION FOR SUSTAINABLE DEVELOPMENT

Agriculture and Rural Development

Progress Meeting EO4SD Agriculture Cluster 4-5 October 2017 | ESRIN, Frascati, Italy

Supporting the Green Morocco Plan through the Atlas Mountains Rural Development Project (PDRMA)

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Setting the stage



- Agriculture a strategic sector in Morocco
- •80% of the Moroccan agriculture is localised in disadvantaged, rainfed farmland and mountainous areas
- The Green Morocco Plan launched in 2008 is a government strategy to stimulate the agricultural sector
 - · Pillar I: modern agriculture
 - · Pillar II: smallholder farmers
- IFAD supports the implementation of the Green Morocco Plan in mountainous areas through the Atlas Mountains Rural Development Project (PDRMA) (Pillar II)

Targeted MDBs projects and programs





PDRMA aims at reducing poverty in three provinces of the Atlas mountains (Ouarzazate, Tinghir and Béni Mellal) by improving market access, enhancing value chains, and managing natural ressources sustainably.

Local stakeholders

- The Ministry of Agriculture and Maritime Fisheries (MAPM), through its Rural and Mountain Development Directorate (DDERZM)
- Central project coordination unit (CPCU) within DDERZM is linked to the field through a provincial project management unit (PMU)

EO4SD local office planned.

Areas of engagement in Morocco





Key questions and fitting EO4SD services



How does the Green Morocco Plan impact the environment

Have bare lands been transformed into agriculture? Can degradation in rangelands be halted?

Which areas are most prone to soil erosion? How well are the agricultural areas connected to markets?



Land cover mapping

EO-based products and services including agricultural production areas, rangeland and tree cover mapping



EO-based products and services including water-based soil erosion, vegetation dynamic analyses, land degradation assessments



Value chain assessment

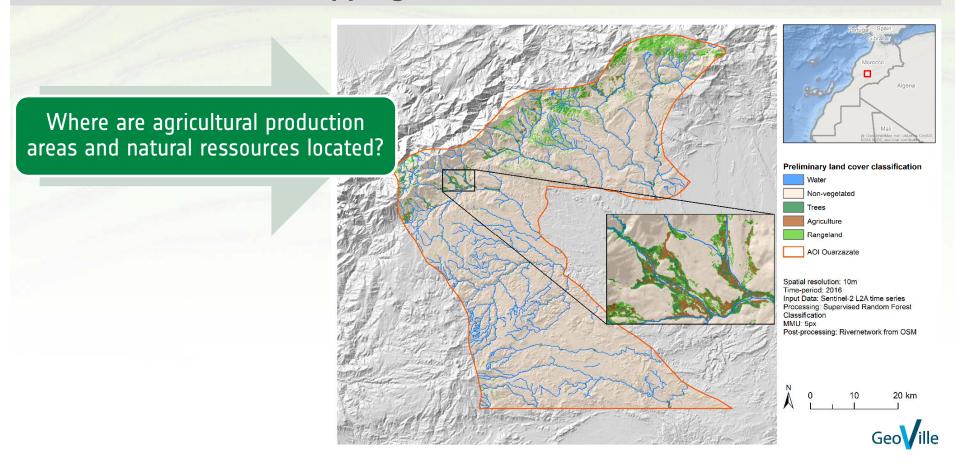
EO-based products and services as well as geo-information products to identify the distance from agricultural production zones to towns/markets



Supporting the M&E component



Detailed land cover mapping

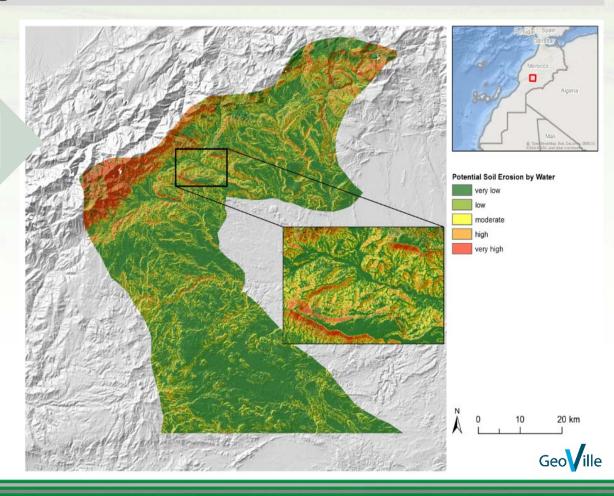


Supporting the M&E component



Tools to assess land degradation and environmental conditions

Which areas are most prone to soil erosion?

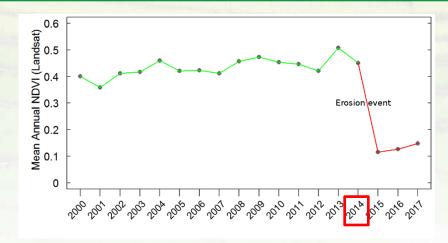


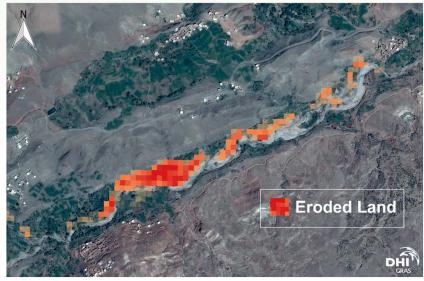
Loosing agricultural land









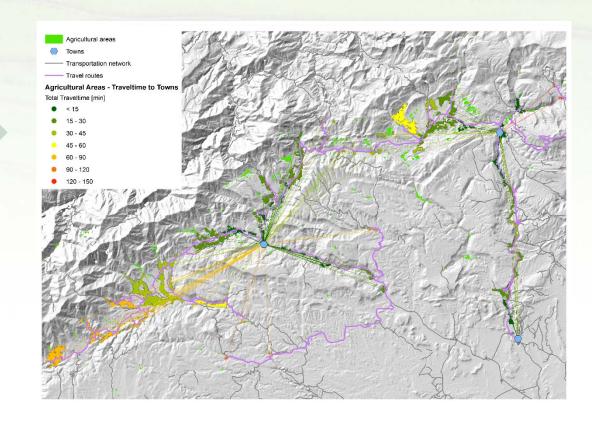


Supporting agricultural value chains

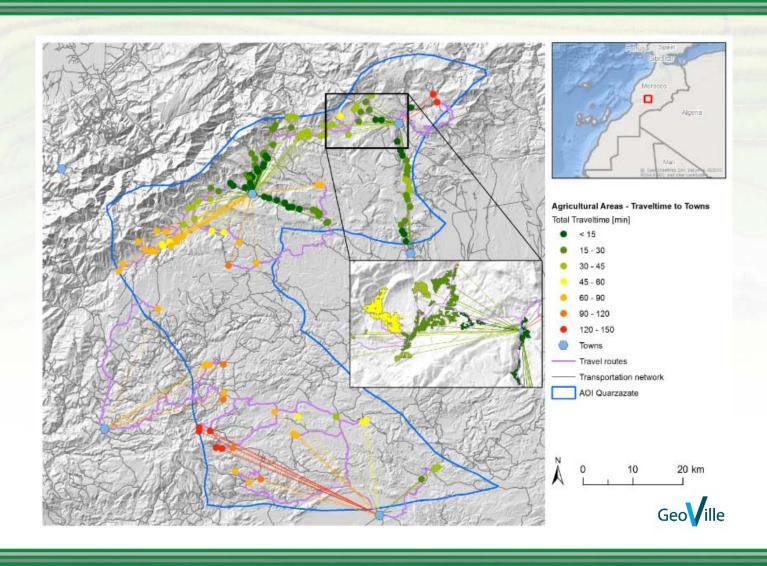


Targeted agricultural value chain assessments

How well are agricultural areas connected to markets?







Capacity building plan



Workshop 1

Jan / Feb 2018

Workshop 2

Jan / Feb 2019

- 1. Introduction to GIS and Remote Sensing
- Basic information on EO and GIS (e.g. image classification, image interpretation, hands on QGIS, etc.)
- State of the art software developments (e.g. WOIS, cloud computation, Sen2Agri)
- 2. EO4SD services
- Land cover/use change with focus on forestry
- Vegetation dynamics
- Land productivity
- Soil erosion

Focus on sustainable uptake of EO products and services within projects.

- Using EO4SD services
- Using information for monitoring and evaluation purposes
- □ Conceiving and calculating
- long term indicators and indicator maps

Thank you - Merci



https://eo4sd.esa.int/agriculture

https://eo4sd.lizard.net/

