Dalberg Data Insights: a food security monitoring tool aimed to support FAO-Uganda
Sen2-Agri to feed a crop yield model bringing new insights to FAO-UG

In situ data

Plots
Positions:
1250 fields
800 non-crop plots
Sen2-Agri to feed a crop yield model bringing new insights to FAO-UG

- **Landsat-8 & Sentinel-2**
  - **Sentinel-2**
    - + AGRICULTURE
  - **Landsat-8 & Sentinel-2**
- **In situ data**
  - WFP
  - Dalberg Data Insights
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In situ data

Dalberg Data Insights

Plots
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Crop Type Map

NDVI

FAPAR

Landsat-8 & Sentinel-2

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WFP

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- **Crop Type Map**

- **Scientific Publications**
  - RUE values

- **Open Source PAR**
  - FAPAR
  - NDVI

- **Harvest Index (250 measures)**

- **RUE Model**

- **Sentinel-2**
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- **Landsat-8 & Sentinel-2**

- **In situ data**

The diagram illustrates the flow of data from various sources, including satellite imagery and in situ measurements, to generate a crop type map, FAPAR, NDVI, and RUE values, which are then used to feed a crop yield model and provide new insights to FAO-UG.
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In situ data | Dalberg Data Insights | In situ data

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Computed Yield

Online tool

WFP

Landsat-8 & Sentinel-2

R

Harvest Index (250 measures)

Remote Sensing

+ AGRICULTURE

R

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Computed Yield

Online tool
Monitoring of sorghum and maize crops in Karamoja - Uganda

CROP MONITORING MAP

CROP PRODUCTIVITY TABLE

MAIZE & SORGHUM COVERAGE

PERCENTAGE OF CROP LAND

Tool available online & interactive with a focus on Karamoja – crop season 2017

The Crop Season of 2017 took place between mid-March and mid-October.
Hovering over a county: a pop-up table appears and the dashboard automatically updates.
Sen2-Agri products are available within the dashboard. The tool contains another section – *People Migration* – based on telecom data.