

# The *Land-Potential Knowledge System* (LandPKS): mobile apps for sustainable land management

Woodrow Wilson Center, October 19<sup>th</sup>  
Public Panel: Securing Livelihood  
Resilience

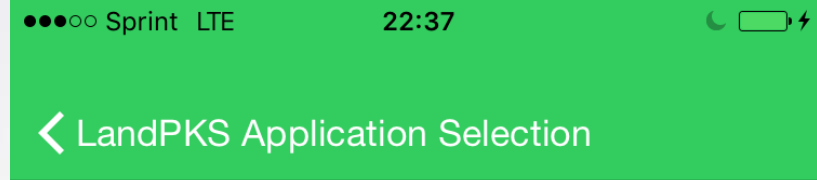


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State University





1 app w/2  
modules  
(download iPhone  
and Android)



LandInfo v2.0.10



LandCover v2.0.10

Future Modules include:

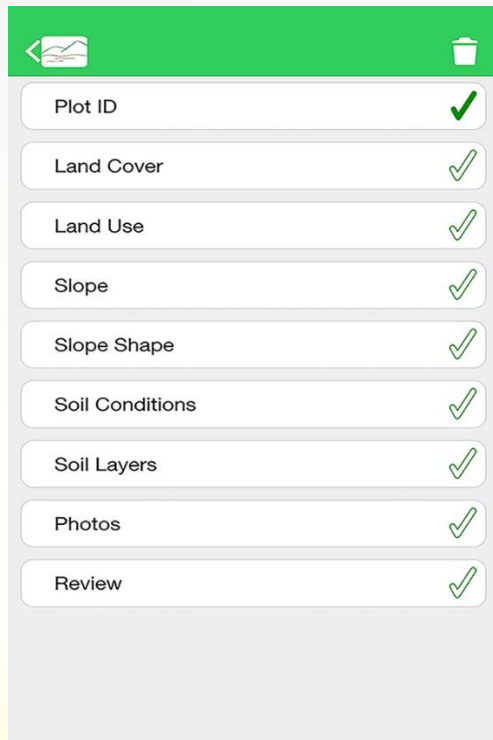
Crop  
Monitor

Soil  
Health

Biomass  
Monitor

Body  
Condition  
Score

# LandInfo: Site-Specific Soil Info

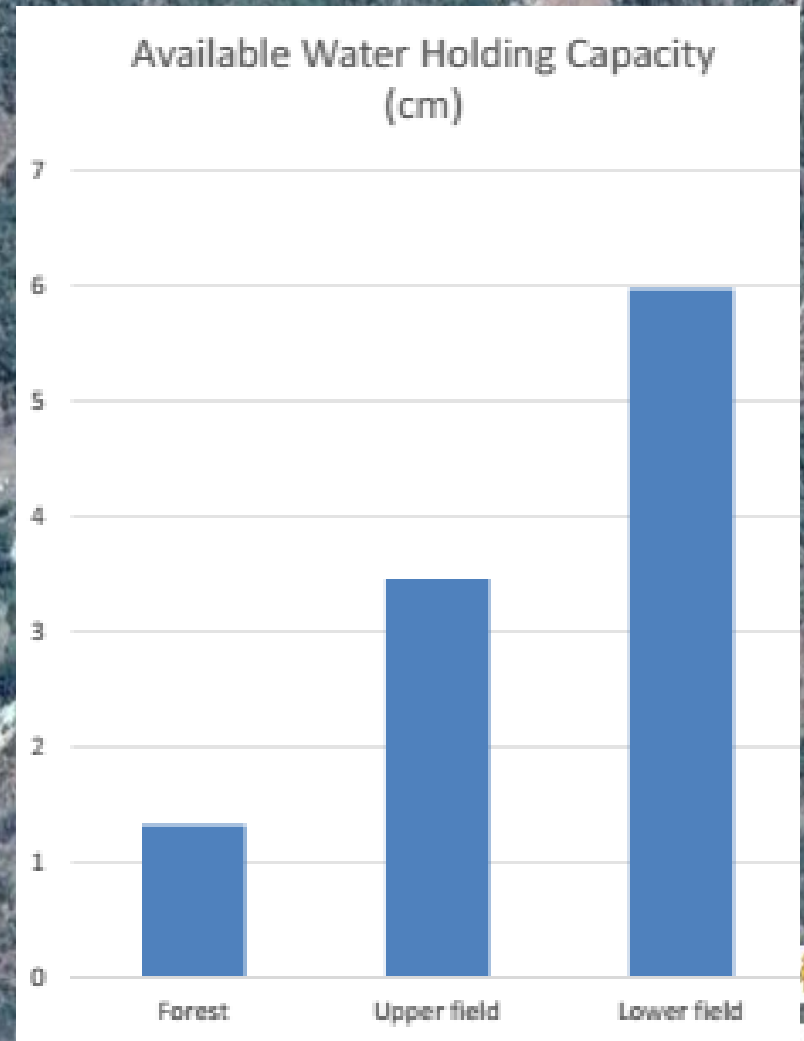


A screenshot of the LandInfo mobile application interface. At the top is a green header bar with a back arrow icon on the left and a trash can icon on the right. Below the header is a list of data collection items, each in a white rounded rectangle with a green checkmark on the right:

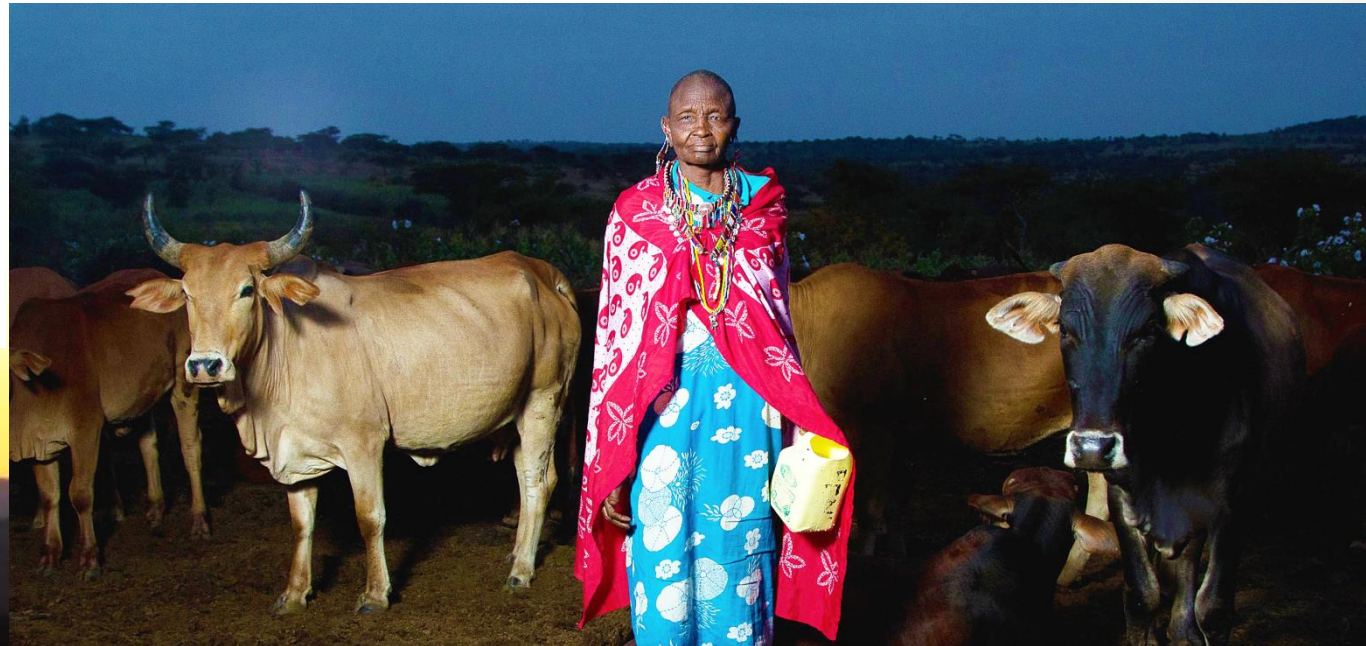
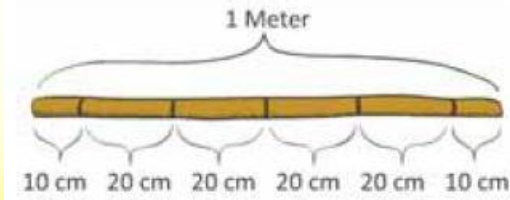
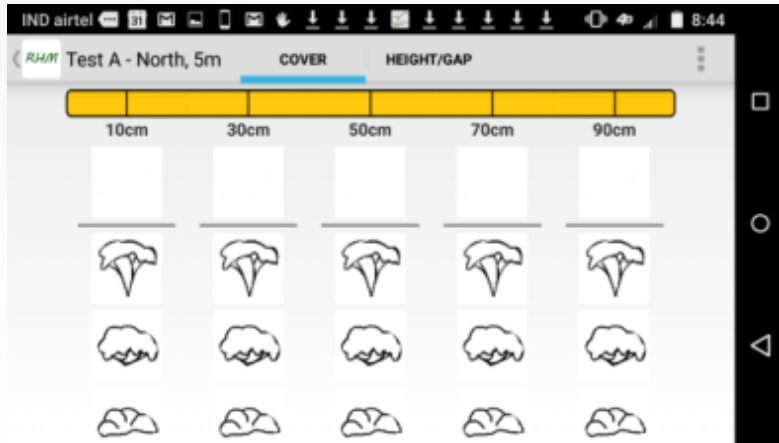
- Plot ID ✓
- Land Cover ✓
- Land Use ✓
- Slope ✓
- Slope Shape ✓
- Soil Conditions ✓
- Soil Layers ✓
- Photos ✓
- Review ✓



# Nyamihuu, Tanzania – Comparing 3 LandPKS Plots



# LandCover: Vegetation Monitoring



# Benefits of LandPKS

- Free to download and use
- Results delivered to the phone
- Data uploads to the cloud
- Open-source data is accessible on our data portal
- Access to information helps secure livelihood resilience



# Future Collaboration

We are always looking for collaborators!

Contact us at:

[aquandt@nmsu.edu](mailto:aquandt@nmsu.edu)

[contact@landpotential.org](mailto:contact@landpotential.org)



LandPotential.org

# What is land potential?

“inherent long-term (decades) potential of the land to sustainably generate ecosystem services, based on soils, topography and climate”

Includes potential to support:

- + Agricultural production
- + Biodiversity conservation
- + Other ecosystem services
- + Land use planning

Livelihood  
Resilience

