



TARGETING TOOL: Providing climate risk maps to the livestock community.

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WHY CLIMATE RISK LAYERS

Livestock systems are currently facing variety of stresses caused by the rapidly changing climate.

IMPACTS ON LIVESTOCK



Livestock

Heat Stress
Productivity
Water, biodiversity
Geographic distribution/population



Feeds

Quantity/yield
Seasonal availability
Pasture composition
Quality



Pest and Diseases

Distribution and the abundance of disease vectors
Disease transmission
Spread/ rate of development of parasites and pathogens

CLIMATE RISK LAYERS COMPILED SO FAR

- ❖ Flood events
- ❖ Heat waves/heat stress
- ❖ Waterlogging
- ❖ Drought/soil moisture
- ❖ Changes in temperature
- ❖ Changes in precipitation
- ❖ Rainfall Variability
- ❖ Increase of CO₂ in the atmosphere
- ❖ Changes in length of growing period

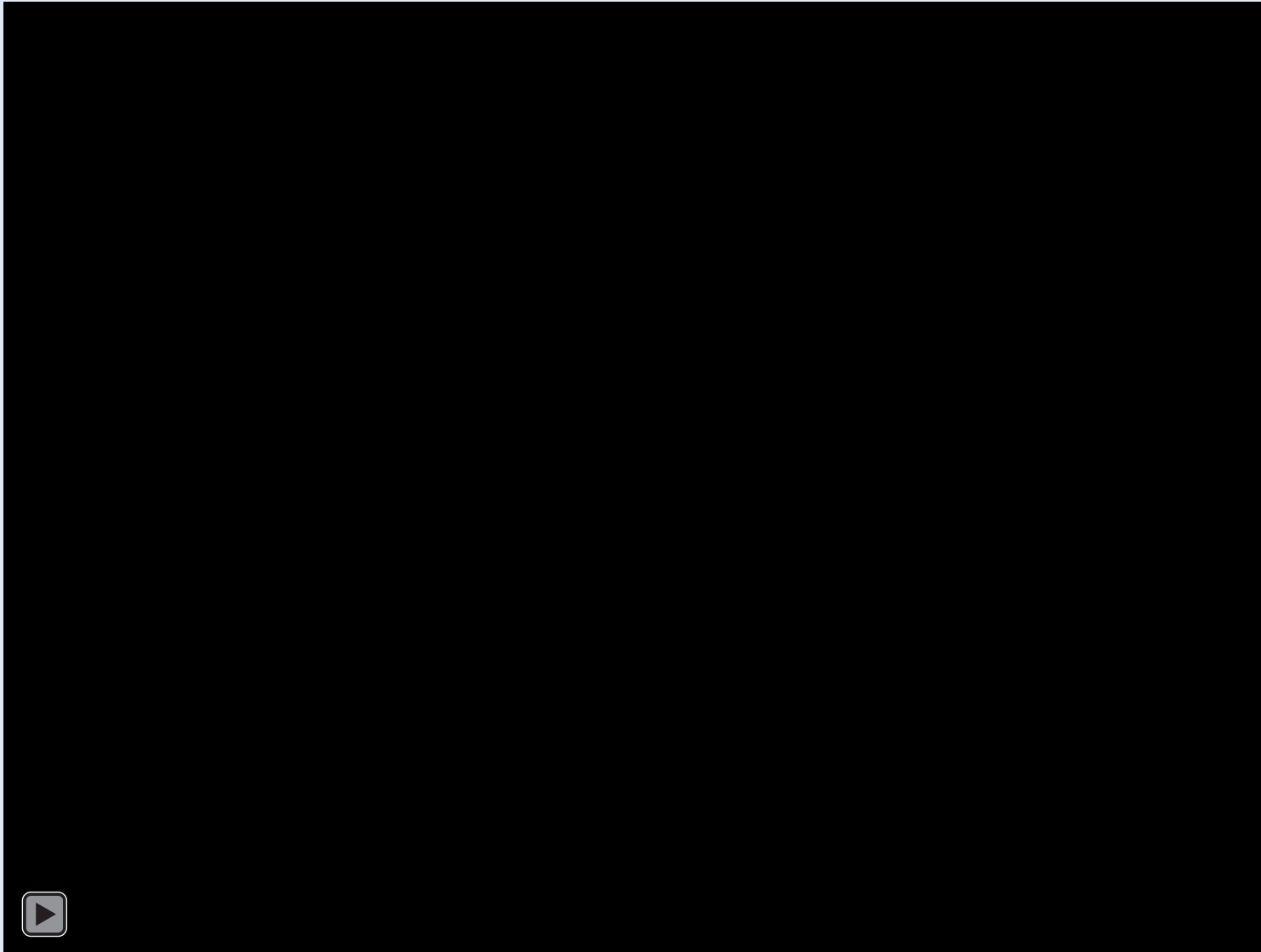


THE TARGETING TOOL

About Targeting Tools

- Targeting Tools is a set of tools available in **Desktop, Web and Server**. The toolbox has three tools namely **Land Similarity, Land Suitability** and **Land Statistics**.
 - Land Suitability: identifying the area/locations that are suitable for a certain technology (e.g. to grow a crop (variety)) based on user criteria
 - Land Similarity: identifying the area/locations that are similar to user-provided points/locations - in terms of user defined factors (e.g similar agro-ecology as positive trial locations)
 - Land Statistics: describing the identified areas in terms of user-defined factors (e.g. average temperature, total livestock or human population)
- The web-based GIS tool is designed for use by students, educators, and development practitioners who may ***not have prior GIS skills or experience***.
- The tool has been updated with climate risk layers, enabling the **identification of hotspots and the assessment of the level of exposure for individuals, animals, and crops**.
- This valuable information can guide the identification of **priority areas for implementing adaptation measures**.

Available Tools



NEXT STEPS

- Climate risk can be understood as the point where hazards, exposure, and vulnerability intersect.
- In the targeting tool, the data currently provided encompasses exposure and hazards. The objective is to enhance the tool by incorporating additional datasets.

Q & A Session





Thanks!