

# GEOME

## A WEB-BASED LANDSCAPE GENOMICS GEOCOMPUTATION PLATFORM

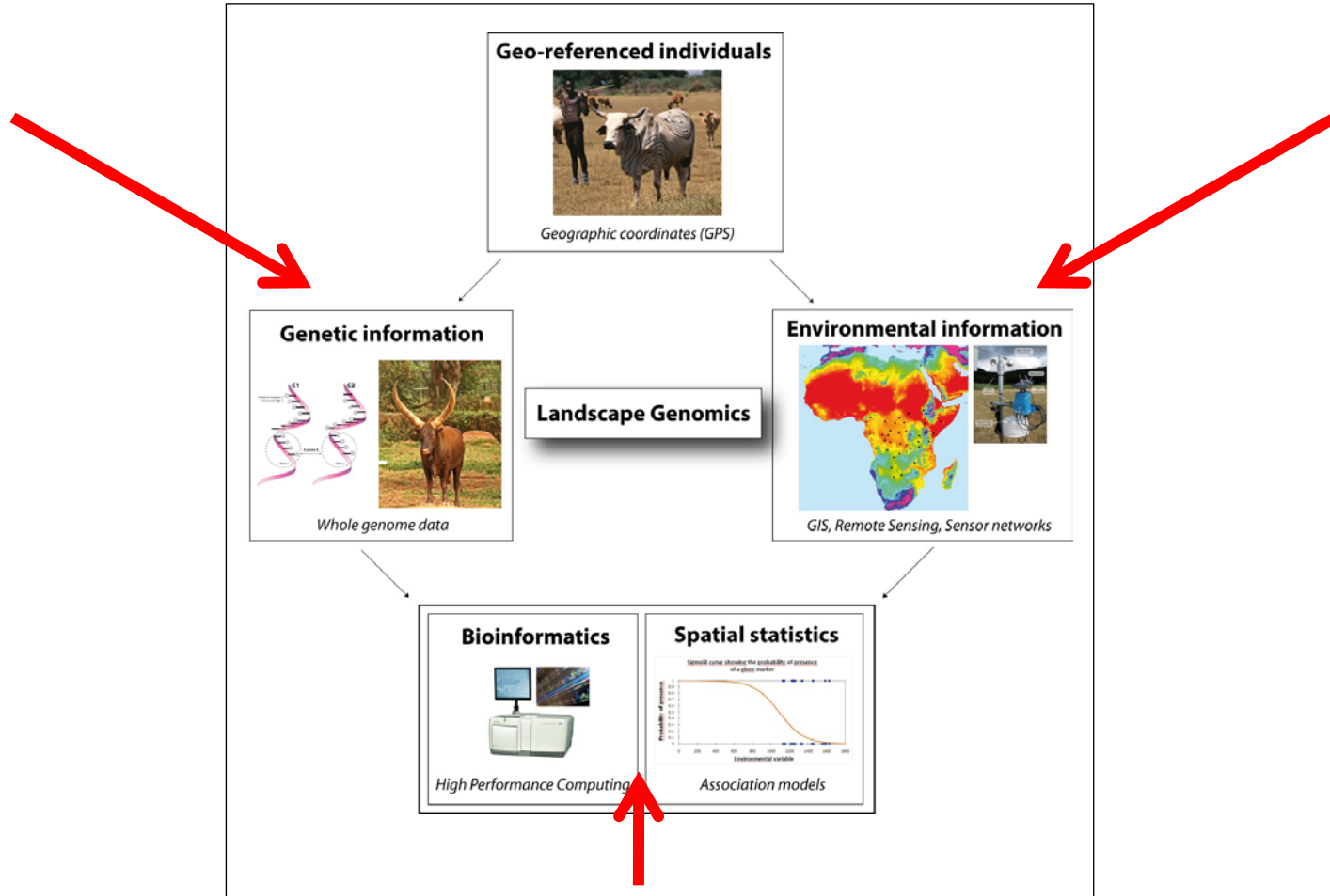
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# Goal

- GEOME was developed because resource conservation managers need geo-referenced data but are **not trained to efficiently use GIS** together with appropriate environmental information and spatial statistics
- This need emerged because in the present context of rapid global climate change, they show a renewed interest to study adaptation in wildlife, livestock, and plants species with the help of **landscape genomics**

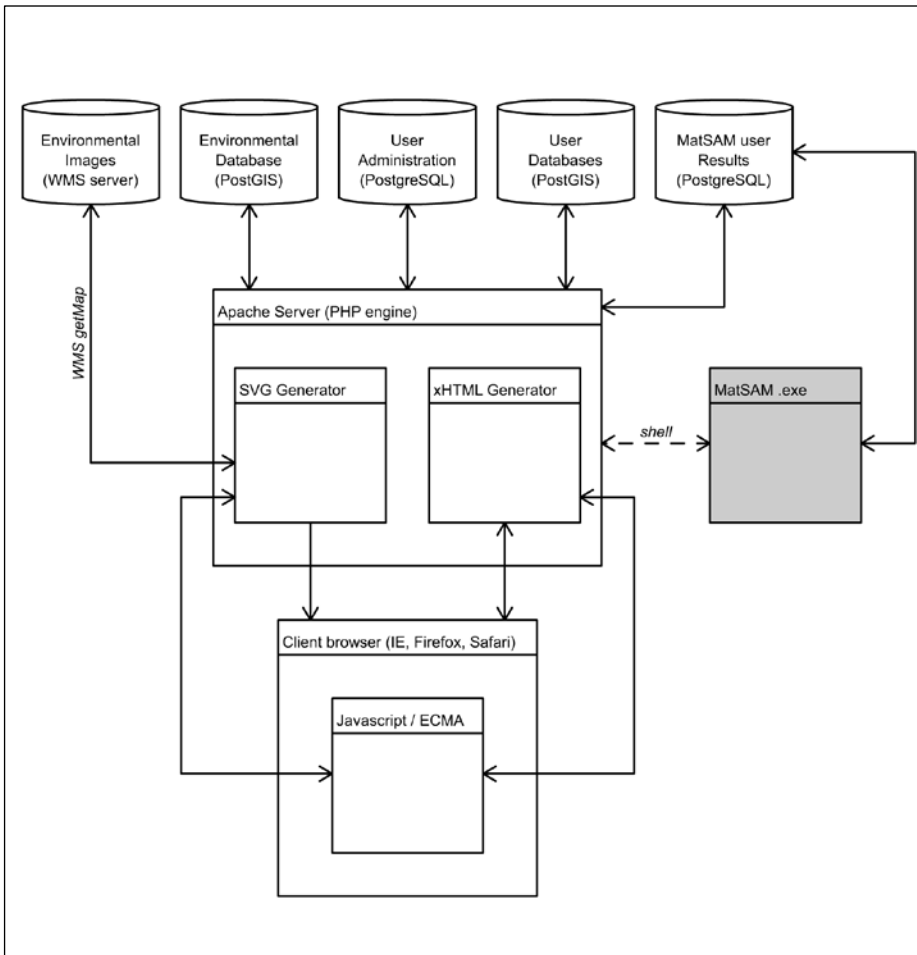
# Landscape genomics to detect genomic regions under natural selection



# Biodiversity conservation strategies

- On the basis of these identified genomic regions, **resource conservation managers are able to** :
  - Detect genes of interest (involved in adaptation)
  - Discover the function of these genes
  - Adapt or propose biodiversity conservation strategies and policies

# See poster for details on the functioning of the platform and its architecture...



GEOME

Upload section

Download section

Visualisation

Analysis

Log out

Mapping of table: test\_jens

Marker management  
e45\_t32\_6  
● Presence (1)  
○ Absence (0)

Longitude/Latitude WGS84  
x: / y:

Marker distribution  
Choose environmental data: windyear

Thank you for your attention !