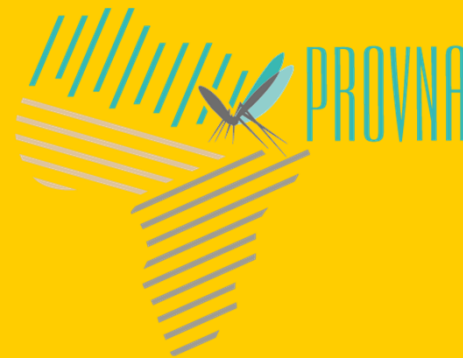


PROVNA 2 – WORKSHOP

Satellite data: What, where, and how to use them



Laura AMATO, DVM PhD, COVEPI IZS-Teramo
Online, 18 March 2025



PROVNA project



World Organisation
for Animal Health
Founded as OIE

2022-2024

Main objective: ECOREGIONS IN NORTH AFRICA

To define the “**ecoregions**” of the North African territory (Mauritania, Morocco, Algeria, Tunisia, Libya, and Egypt), each one **characterized by distinct environmental and climatic factors.**

Assumption: similar areas (in space and/or time) are subject to similar diseases (especially vector-borne diseases)

Ecoregionalisation

The process through which a territory is classified into similar areas according to specific **environmental and climatic factors**.

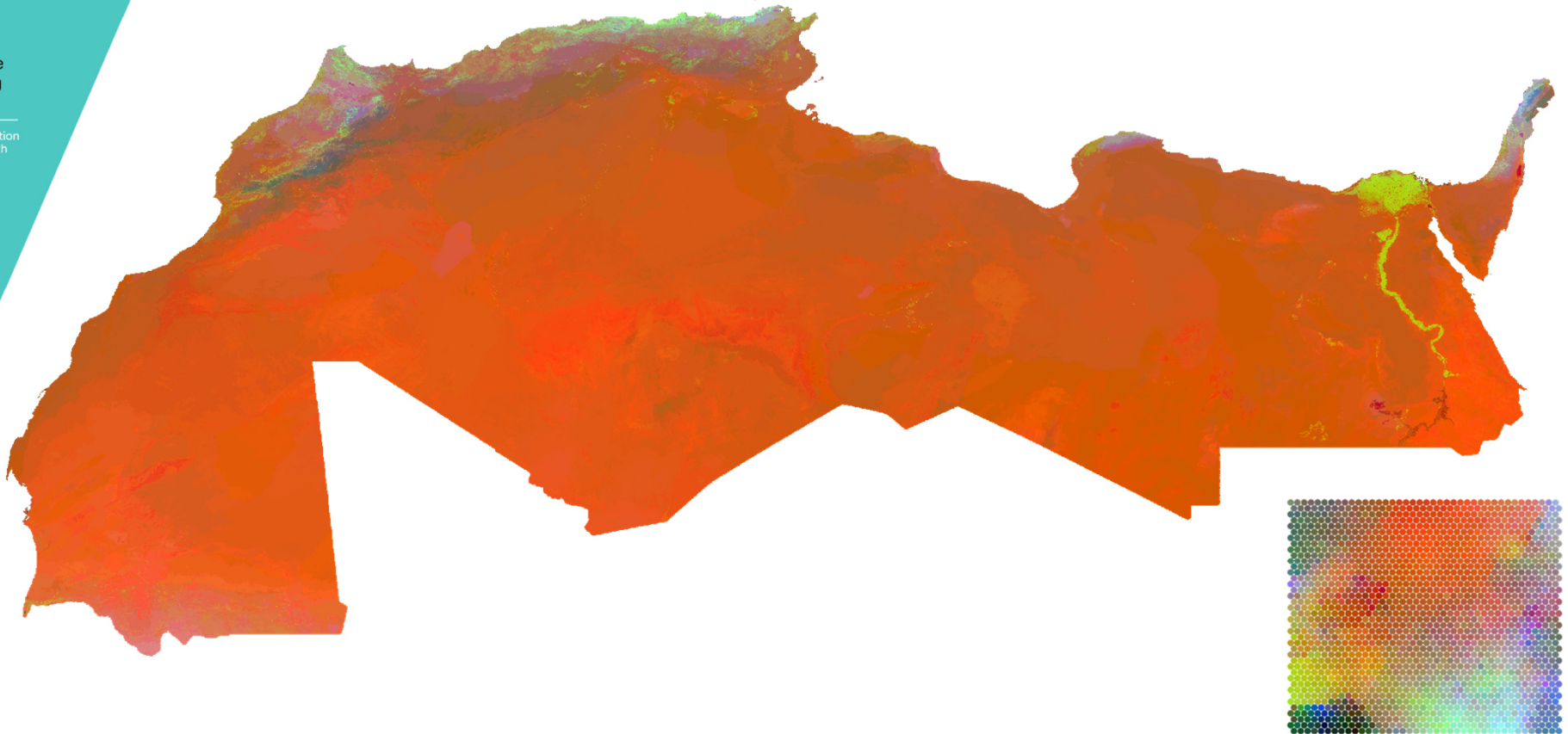
The climate and the environment strongly influence the presence and distribution of vectors responsible for significant human and animal diseases worldwide.

→ It is then useful to develop a map of similar eco-climatic regions adopting a data-driven spatial clustering approach using recent and detailed spatial data on climatic and environmental factors.



ECOREGIONALIZATION in North Africa

Identifying the “ecoregions” of the North African territory



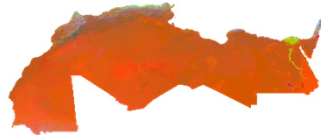


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PROVNA phase 2

Given the work done, it is now crucial to combine the decision-making tools based on eco-regionalization with data from in-field surveillance.

Ecoregions
in NA



Suitability
for RVF



→ Essential to strengthen the capacity of the National Veterinary Authorities to effectively prevent, predict, detect and respond to diseases – with the optimisation of the available resources.

PROVNA phase 2

Duration (months):

18 months

APPENDIX 1

PROJECT PROPOSAL

Establishment of a risk-based surveillance system for
Mosquito-Borne Diseases in North Africa (PROVNA2)

General Objective

To establish a risk-based surveillance system across the six North African countries, using the eco-regionalization method, to monitor the emergence and spread of key animal and zoonotic diseases transmitted by mosquitoes.

PROVNA phase 2

6 Working Packages

Project activities will be carried out by 6 work packages (WP):

- WP0 – Coordination, networking, dissemination
- WP1 – Gap analysis and needs assessment
- **WP2 – Definition of surveillance protocols**
- **WP3 – Capacity building activities**
- **WP4 – In-field monitoring**
- WP5 – Modelling

PROVNA phase 2



Three group work sessions, followed by plenary discussions, during which possible goals and targets for RFV surveillance in each country were highlighted.

Operational protocols, training and laboratory needs were also discussed.



12-14 Nov, 2024 – Tunis

→ **PROVNA 2 WORKSHOP**

- **Proposal of surveillance protocols per country**
- **Discussion on training and laboratory needs**



IZS

T E R A M O

/

WOAH Collaborating Centre
for epidemiology, modelling
and surveillance

Reference Centre  World Organisation
for Animal Health
Founded in 1967

Laboratory support:

- Mosquito traps
- Laboratory reagents

Trainings:

- Use of satellite data
- GIS
- Entomology (sampling)
- Entomology (identification)
- Molecular Biology
- WGS and sequencing

PROVNA phase 2



Conclusion

PROVNA2 has started, now is work in progress, providing:

- **Support to the Veterinary Services in implementing and/or improving risk-based targeted surveillance of VBDs,**
 - **In order to collect field-data and implement an innovative approach (ecoregions) to further guide surveillance strategies, optimising financial and human resources through strategic planning.**
- **In line with WOAH's approach to a common regional strategy for vector-borne and transboundary animal disease control**

PROVNA phase 2

FIRST WORKSHOP:

Satellite data: What, where, and how to use them

- *Satellite data for beginners*
- *COPERNICUS BROWSER:*
Overview, visualise, explore, download
Case studies from the area
- *Hands-on: exercise for the participants*

The lecturers:

- **Susanna Tora**, GIS analyst and Web GIS developer at the Statistical and GIS Unit of the IZS of Teramo
- **Carla Ippoliti**, mathematician at the Statistical and GIS Unit of the IZS of Teramo

PROVNA phase 2

Satellite data: What, where, and how to use them

→ Participants should have completed the registration on the platform
before the workshop - [LINK](#)

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IZS-Teramo

**Laura Amato
Annamaria Conte
Luca Candeloro
Carla Ippoliti
Susanna Tora
Valentina Zenobio
Maria Goffredo
Silvio D'Alessio
Giovanni Savini
Paolo Calistri
Alessandro Ripani**

Thank you



WOAH

**Francesco Valentini
Rachid Bouguedour
Chadia Wannous**