

VecMap



A One-Stop-Shop for Vector Mapping





VECMAP a One-Stop-Shop

Is the first software suite which provides the full range of state-of-the-art risk mapping tools for hands-on use by non ICT specialists

Is developed by leaders in all technical fields involved

Is uniquely integrated so that each stage feeds in the next stage

Offers continuity through annual upgrades of software systems and EO data

Allows users to focus resources to obtain the best cost-result output

Provides baseline data to allow reliable assessments of change in times of crisis



VECMAP infrastructure



Smart-Web

Network

OR



Stand-alone
System User

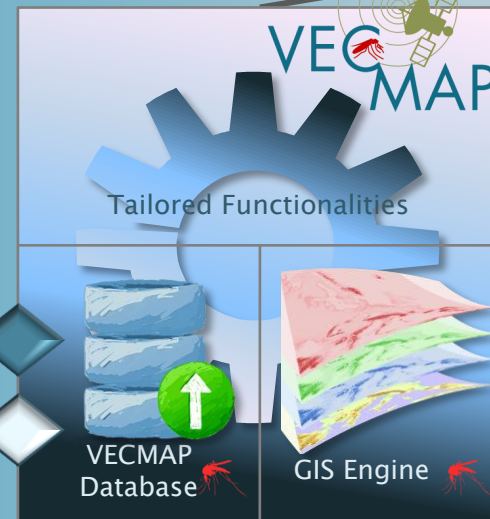


Server based
Service Provider



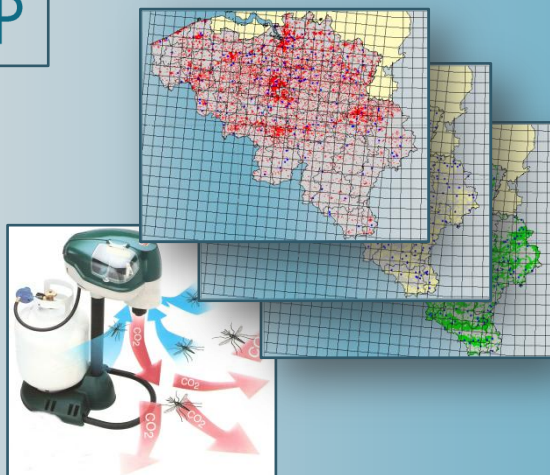
External
Database(s)


Tailored
agent(s)

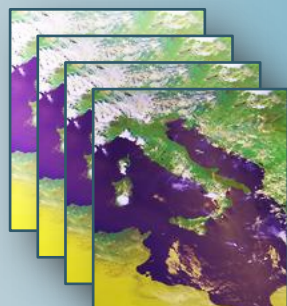




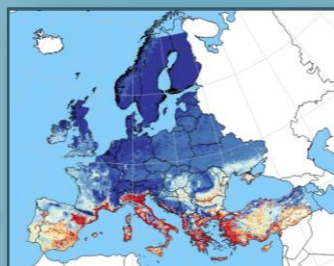
VECMAP functionalities



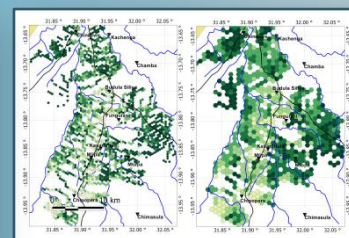
Sampling strategy 



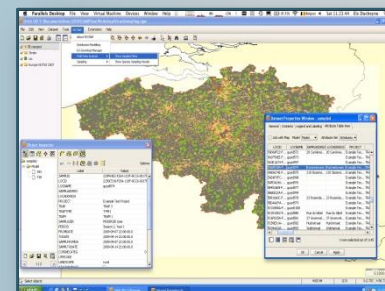
L-MR EO Time series 




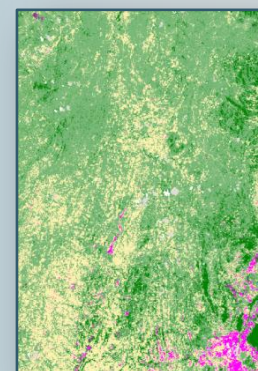
Distribution Models 



Landscape Models SERVICE 



Field data analysis 



H-VHR EO Products



VECMAP users

Academic = VECMAP outputs contribute to research

- PhD projects
- RTD projects

Health professionals = VECMAP outputs needed for decision making

- Public health agencies
- International organizations

Industrial = VECMAP outputs generate income

- Pest control companies

VECMAP go-to-market modes

OnPremise mode:

- User has both biological and GIS knowhow
- User purchases software license and operates software in-house
- Maintenance contract for long term sustainability and continued access to standard VECMAP services: upgrades, EO-products, secured data management

OnDemand mode:

- User has biological knowhow but wishes to outsource GIS and IT
- VECMAP produces outputs for user who conducts field operations
- Service contract for long term sustainability

FullService mode:

- User only requires access to final output
- VECMAP plans and coordinates all activities based on detailed ToR
- Service contract for long term sustainability





Join for a demonstration project?

Looking for existing projects which include a vector mapping component

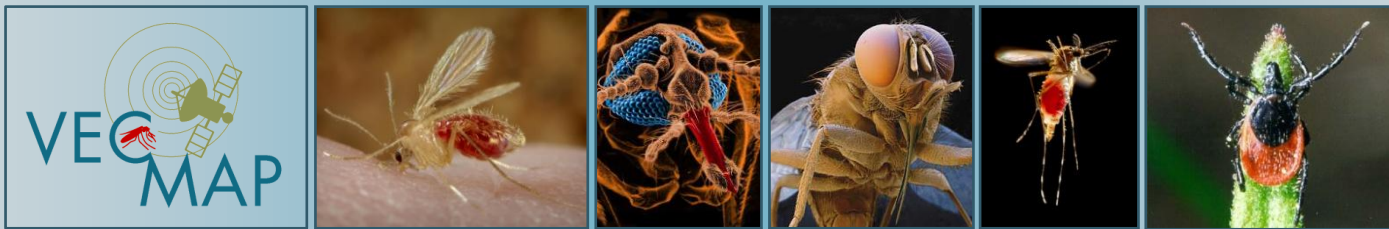
Resources must be available for conducting field surveys

VECMAP offers:

- Software
- Training (what are the needs?)
- Expert input
- Access to user network



Thank you



www.avia-gis.com





VECMAP Smart-Web

Enables maximal flexibility: no double nor lost entries

Latest operating system upgrades

Hardware (smartphones) adapted to user needs and resources can be provided upon request

No stacks of paperwork waiting to be entered in 'the database'

Direct data entry into system means no paper/tape to digital stage needed

Real time upload of data from field and lab

Real time access to work progress mapped in IS



VECMAP Spatial Interface

It is the glue between and the single access to all the VECMAP components

It is a fully operational GIS platform

Its outputs can be imported in any other GIS software package





VECMAP Central Database

Properly structured relational data base that is more efficiently passed between analysis and processing stages

Tables can be adapted according to specific user needs

Can be connected to any other existing database (e.g. LIMS)

Consortium ensures back-up and data security:
Automated data back-up system

Tailored security access procedures



VECMAP Sampling Strategy

The system identifies the statistical spatial sample required to build the best spatial risk map given resources available and confidence levels required

Optimally positioned traps

Adapted sampling strategy according to needs: native or invasive species; P/A or abundance; base-line data or model updates; monitoring vector control...

Integrates spatial model validation from start

Logistics planning per team taking into consideration the effect of seasons and years

Randomized sampling sequence





VECMAP Field Data Analysis

Real time overview (operational status) and exploratory analysis of your data

Increases data management capacities

Logistics follow-up and trouble shooting

Enables to adapt sampling strategy if need be

Additional services: Entomological training



VECMAP Distribution Models

Modelling is embedded in and feeds on other VECMAP systems

Includes three complementary approaches allowing for robust biologically interpretable model outputs

Added value of NLDA → represents the state of the art based on 20 years of documented research experience





VECMAP LR EO Data Sets

One-stop-shop to the best Low and Medium resolution EO products for spatial modelling in epidemiology

Guaranteed continued access through maintenance licence

State of the art production chains otherwise difficult to maintain

Alternative 'matching' products proposed should an EO platform or sensor temporarily break down

Provides easy access to data and research opportunities including comparisons with gold standards



VECMAP Landscape Models

Only provided as a service

Expert input for surveying and monitoring mosquito populations at the landscape scale

Expert input for improved vector control planning

Expert input for monitoring vector control operations

Processed high and/or very high resolution EO data can be provided as an input in the same way L&MR EO data are provided

