



VECMAP[®] : The One-stop-shop for Risk Mapping

Professional software for researchers and decision makers
Ensuring quality of your project(s) and data



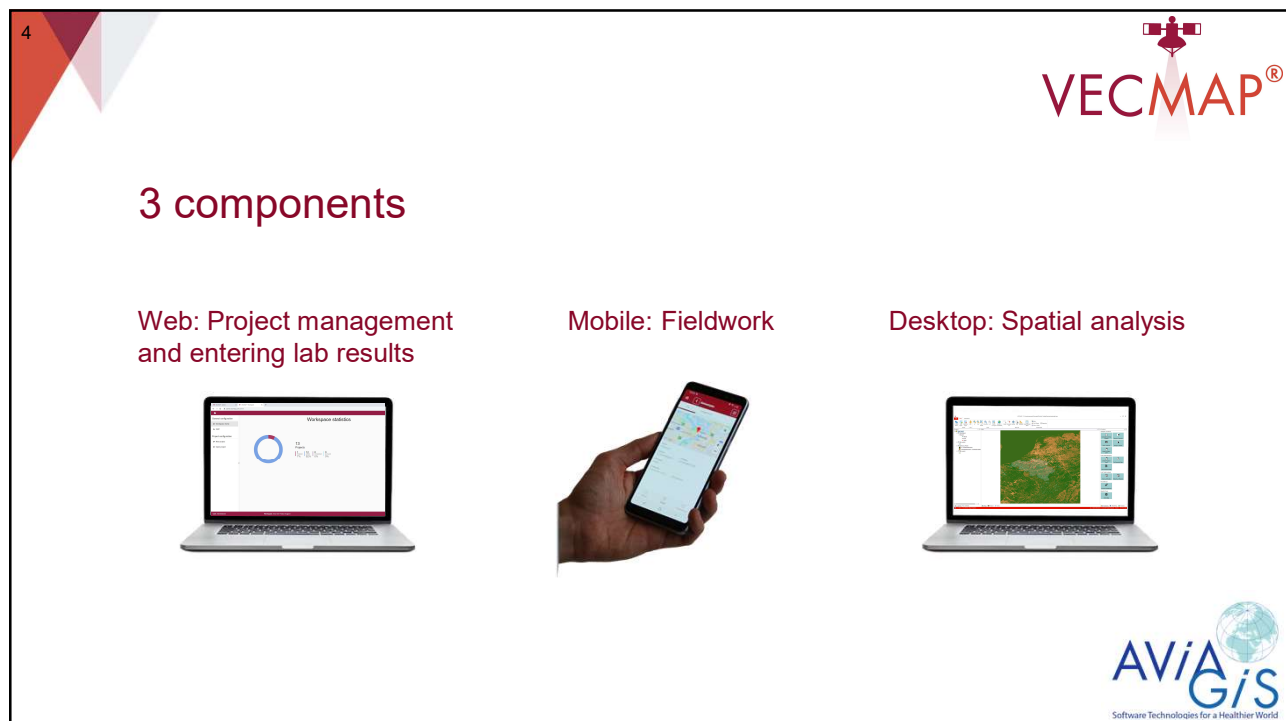
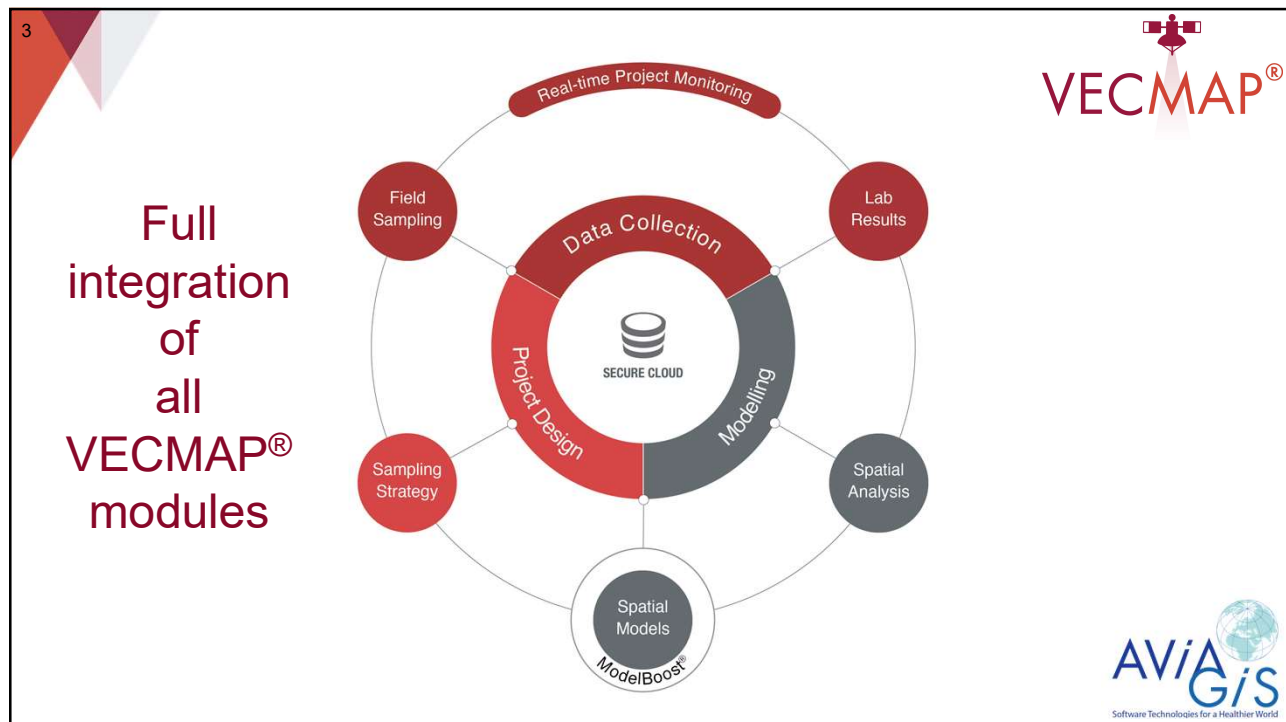
2

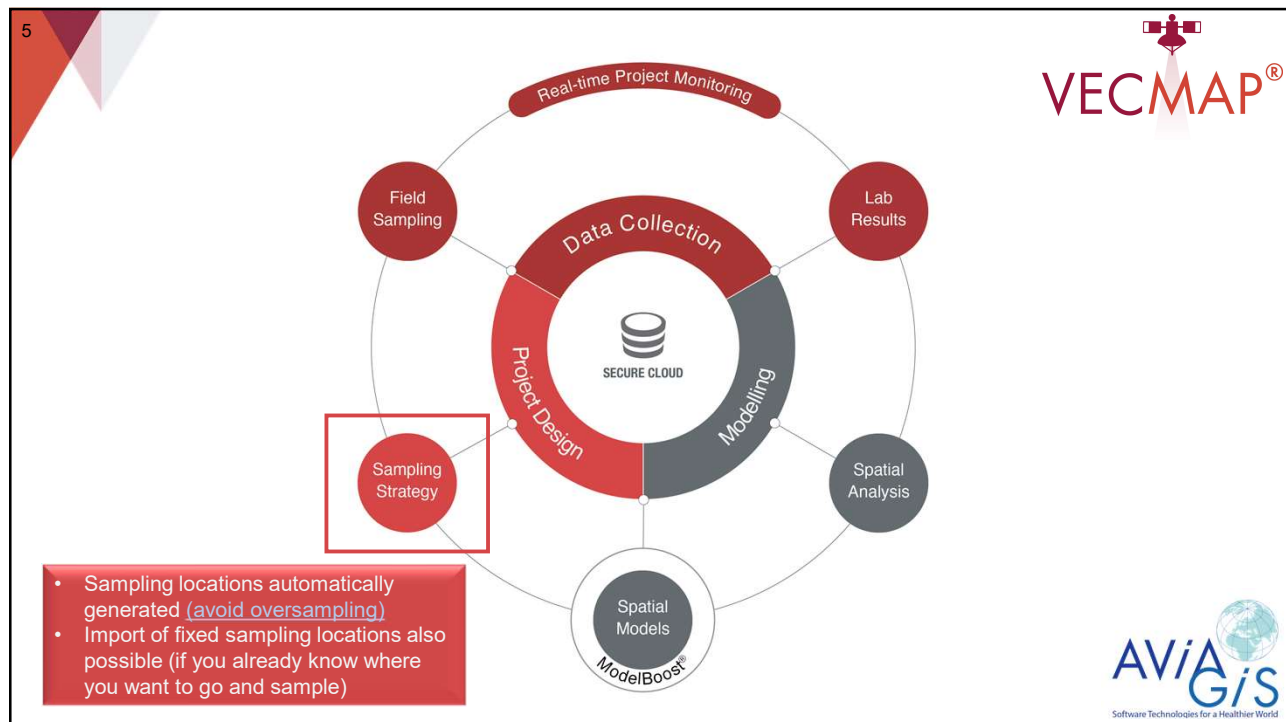


Recognisable project experiences?

- Re-entering data in predefined digital documents
- Paper forms getting lost
- Paper forms being unreadable
- Painstaking cleaning and centralising of non-standardised data
- Data scattered over organisation
- Team member(s) leaving organisation with data
- Discovering (too late) data were not collected







6

Where will we place traps / take samples?

- Number of sample locations based on
 - Statistical
 - Population size
 - Number
 - Budget
- Sampling locations randomly picked within delineated areas of certain habitat categories (stratified random sampling)
- Based on the total surface of each habitat category, the number of sampling locations are divided over the different categories
- You can still adapt the exact locations on site with the mobile app

Generate Sampling Strategy

Input Strata Output

Key Habitat Layer
natureandwetlandbelgium

Options

☒ St. Dev. 0.4

☐ Population Size 10000

☐ Target number of Points 100 ☒ Strict

☐ Budget 10000

Cost/sample 100

Confidence

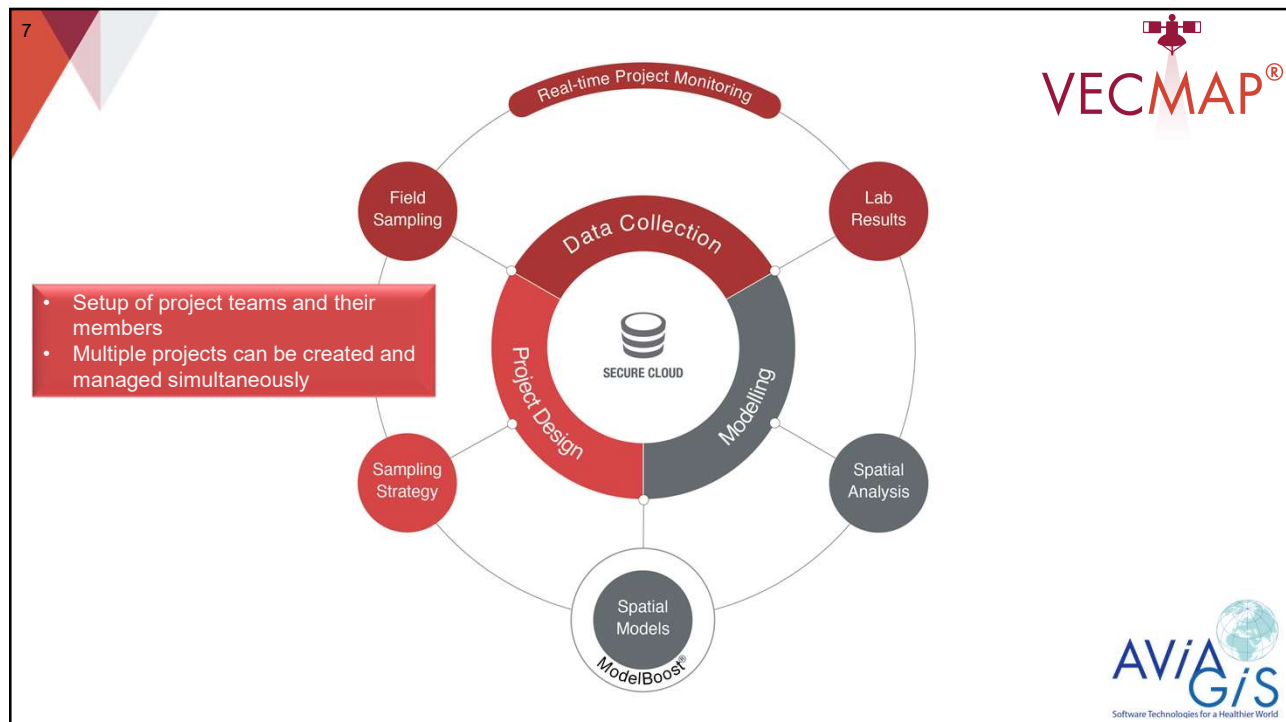
Error 0.05

Level ☒ 95% ☐ 99%

Cancel Perform

VECMAP®

AVIA GIS
Software Technologies for a Healthier World



8

Who is working on the project and what is his/her function?

VECMAP®

Return Refresh Add Delete Save Edit

Name	Permission Profile	Login	Team
<input type="checkbox"/> Administrator	Custom	admin	
<input type="checkbox"/> AVIA-GIS Support			
<input type="checkbox"/> Dusan Petric			
<input type="checkbox"/> Francis Schaffner			
<input type="checkbox"/> Guest			
<input checked="" type="checkbox"/> Sabine			

Page 1

Name: Sabine

Email addresses:

Team: field team Akrotiri

Permission profile: Custom

Project Manager

Mobile

Modeller

Lab Manager

Lab access

Create lab records: By listing

View lab records: Only own

Modify lab records: ☒ Yes ☐ No

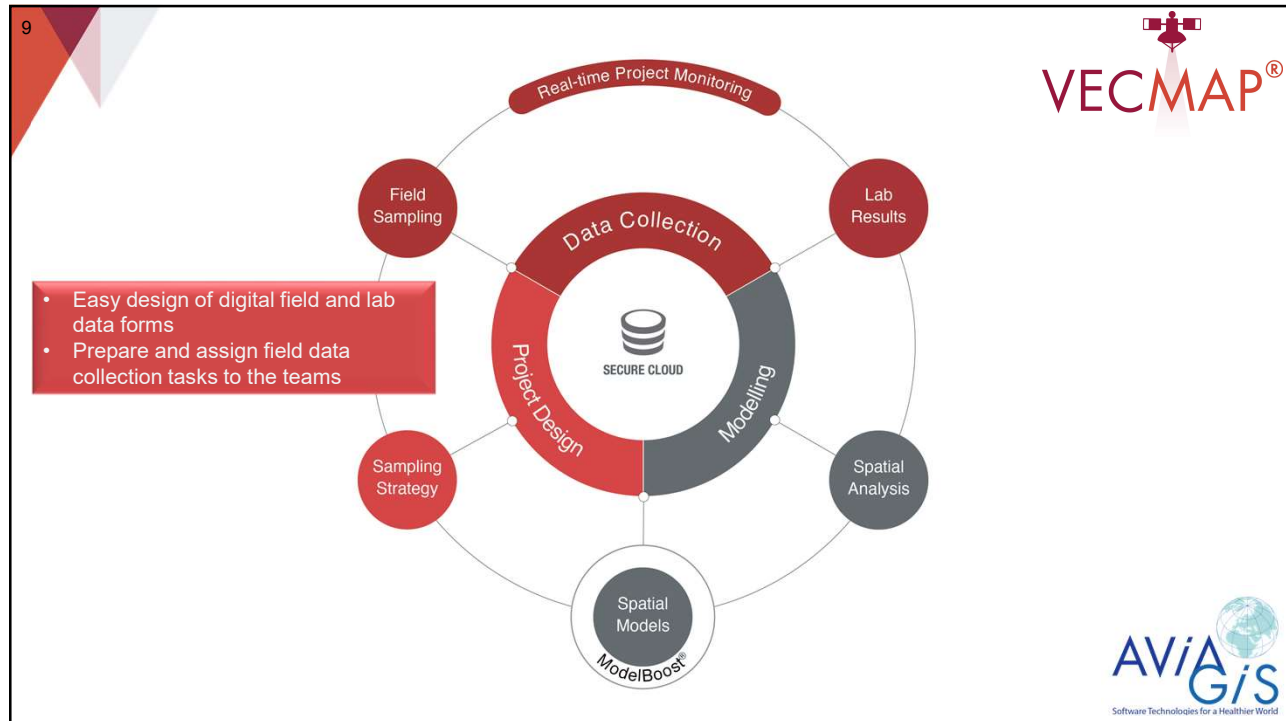
View data records info: No

Data access

Upload CSV datafile: ☐ Yes ☒ No

1 - 6 of 6

AVIA GIS
Software Technologies for a Healthier World



10

Creation of customizable digital forms – What information do you need?

landscape sampling

Privacy Settings Logout

Return Refresh Add Delete Save Edit Metadata

Form Page Photos

Page title "Form Page"

Layout is not ModelBoost compatible

datetime Date + Time

datetime-sampling

datetime

☐ Required ☐ Hidden ☐ Private

Choose a date and time ☒ Device date and time as default

Sample of Select One

Land use List

Larval habitat Combobox

Habitat description Textarea

Comment Textarea

datetime

Sample of

Land use

Larval habitat

Man-made (artif...)

Natural contain...

Semi-natural v...

Stagnant tempo...

(Semi-)perman...

AVIA GIS
Software Technologies for a Healthier World

11

Creation of assignments – Who will collect what when?



Assign to Teams

Selection Assignments

Locations

☐ Assign to all locations in the project.
☒ Assign to all locations in the project that are selected on this layer:

Locations-traps

Assign	Team	X	Y
<input type="checkbox"/>	Team Antwerp	4.6477288158...	51.269916875...
<input checked="" type="checkbox"/>	Team Brussels	4.4654398811...	50.779891974...
<input checked="" type="checkbox"/>	Team Liege	5.6360615806...	50.644235672...

Close Create

Assign to Teams

Selection Assignments

Level

Site

Date

Start Date:

01-04-2019

End Date:

31-10-2020

Repeat Assignment:

☐ Once
☒ Every:

2

Weeks

Assignment Window:

1 days

☒ Create Child

Record Name:

sample

Record Layout:

samplinginfo

Options

Instructions:

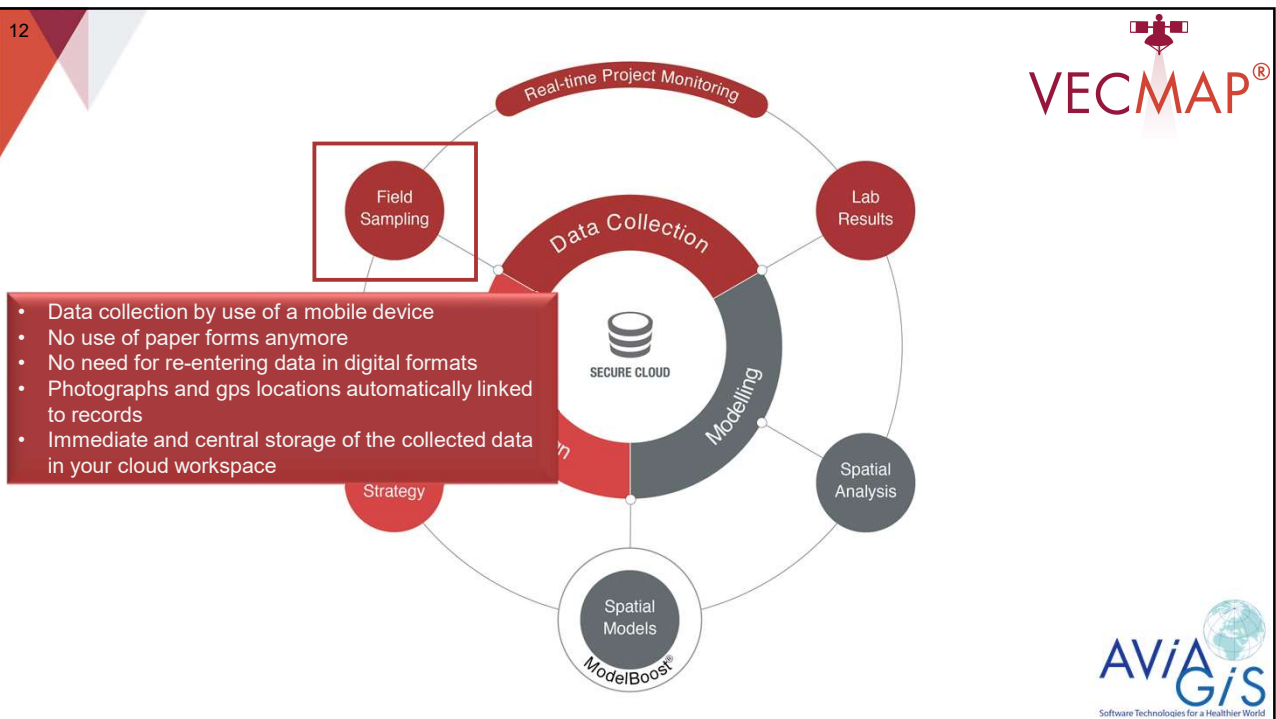
Empty trap and fill in sampling form

☒ Skip duplicate assignments

Close Create

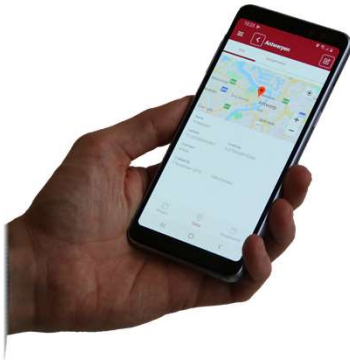


12



13

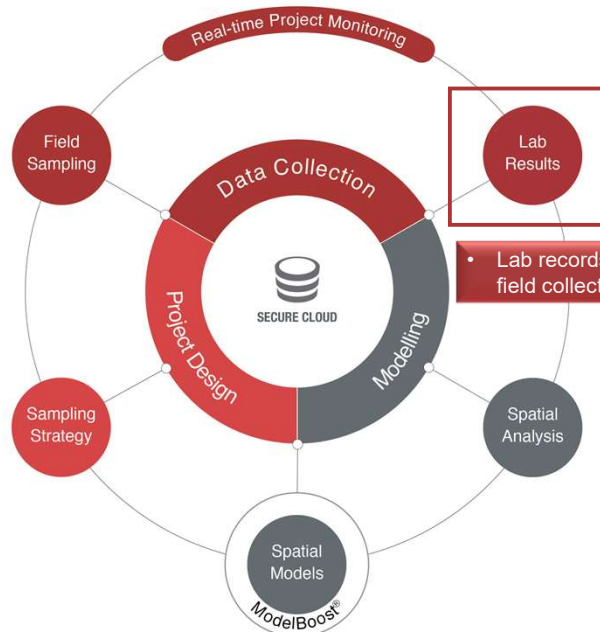
Collect field data with the app



Check the tasks assigned to you



14



- Lab records automatically linked to the field collected data



15

Entering lab results

VECMAP®

Return Refresh Add Delete Save Edit View results

Search x

Record name	Code	Level name	Has form	Has lab result
<input type="checkbox"/> sample_80120_sa1				Yes
<input type="checkbox"/> sample_trapA_010120				Yes
<input checked="" type="checkbox"/> sample_trapA_080120				No
<input type="checkbox"/> sample_trapB_010120				No
<input type="checkbox"/> sample_trapB_080120				No

Page 1

Examination

Genus _____ Species name _____

number of adult males
0

number of adult females
0

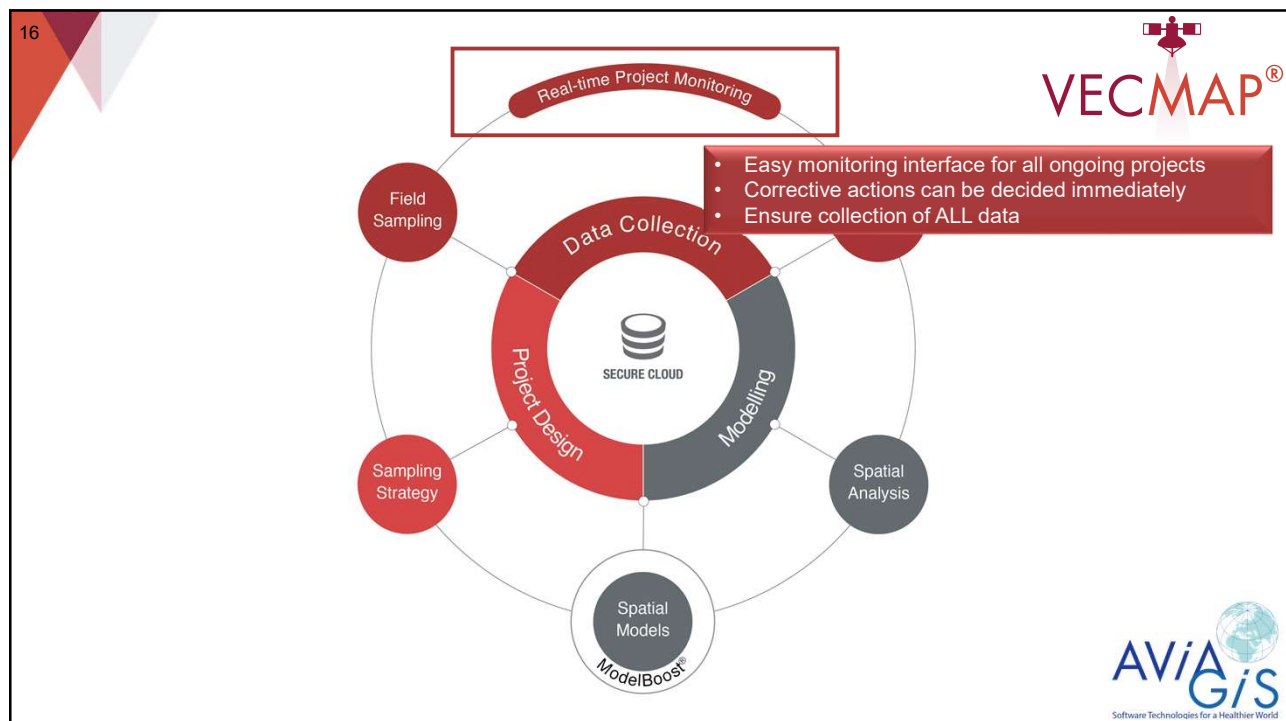
datetime
11-01-2020 23:06

examiner
AVIA-GIS Support

You can enter multiple results for each sample

1 - 5 of 5

AVIA GIS
Software Technologies for a Healthier World



17

Overview of assignments in kalender

VECMAP®

Return Refresh Add Delete Save Edit Complete List Overdue

Previous Today Next January 2020

Sunday Monday Tuesday Wednesday Thursday Friday Saturday

29 30 31 1 2 3 4

5 6 7 8 9 10 11

12 13 14 15 16 17 18

19 20 21 22 23 24 25

26 27 28 29 30 31

Team Brussels - Location293
Team Brussels - Location185
Team Brussels - Location428
Team Brussels - Location163
Team Brussels - Location329
Team Brussels - Location138

Done
Overdue
Planned
Canceled

AVIA GIS
Software Technologies for a Healthier World

18

Keep track of the lab examination progress

VECMAP®

Return Refresh Add Delete Save Edit

Level
Sampling

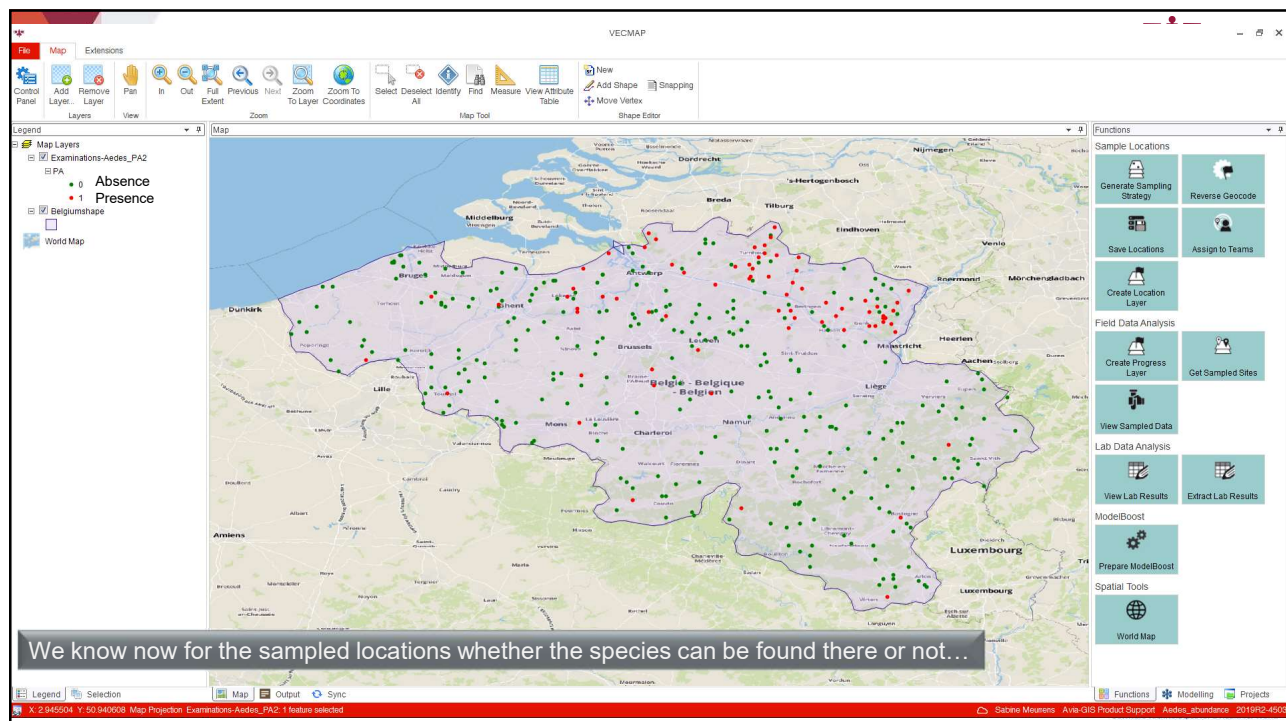
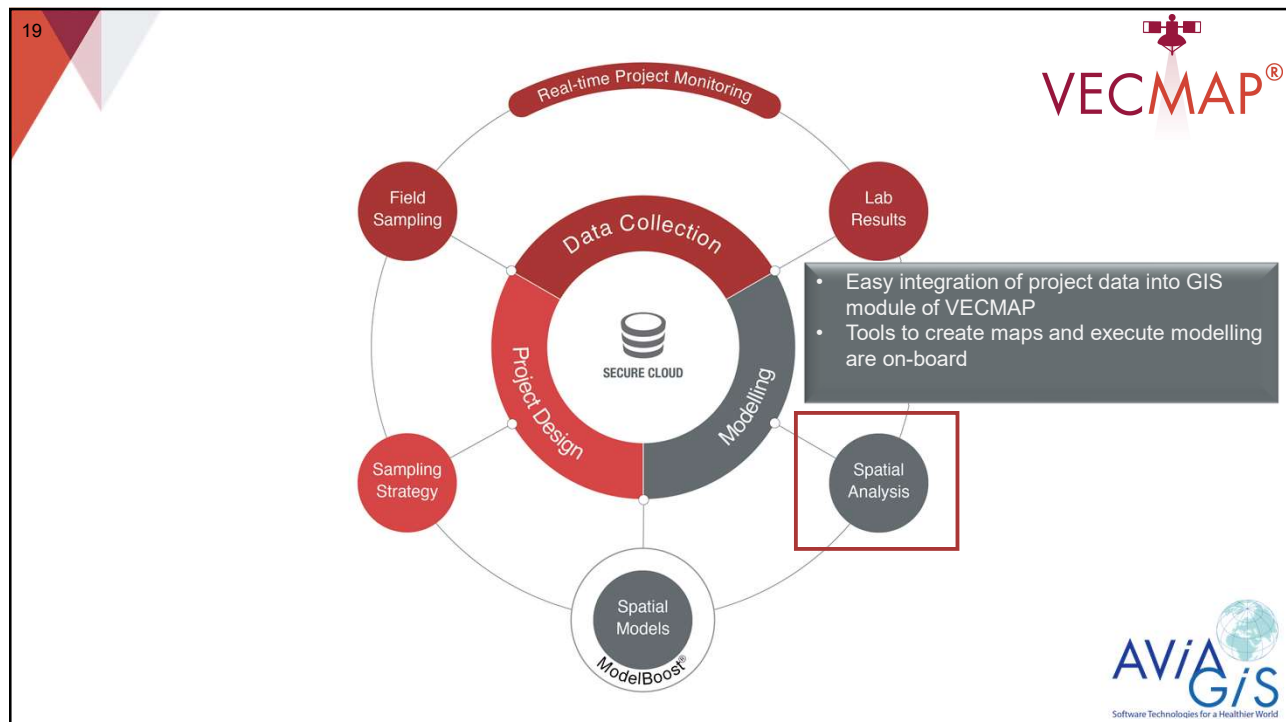
After date Before date

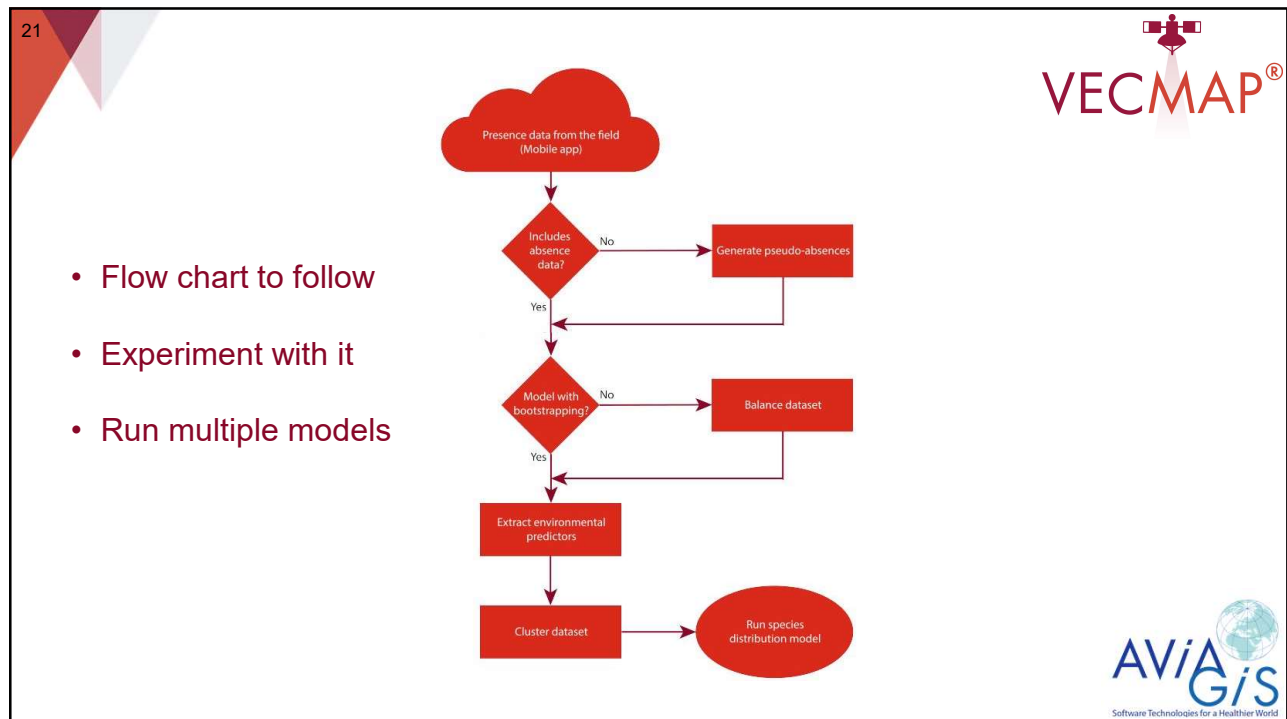
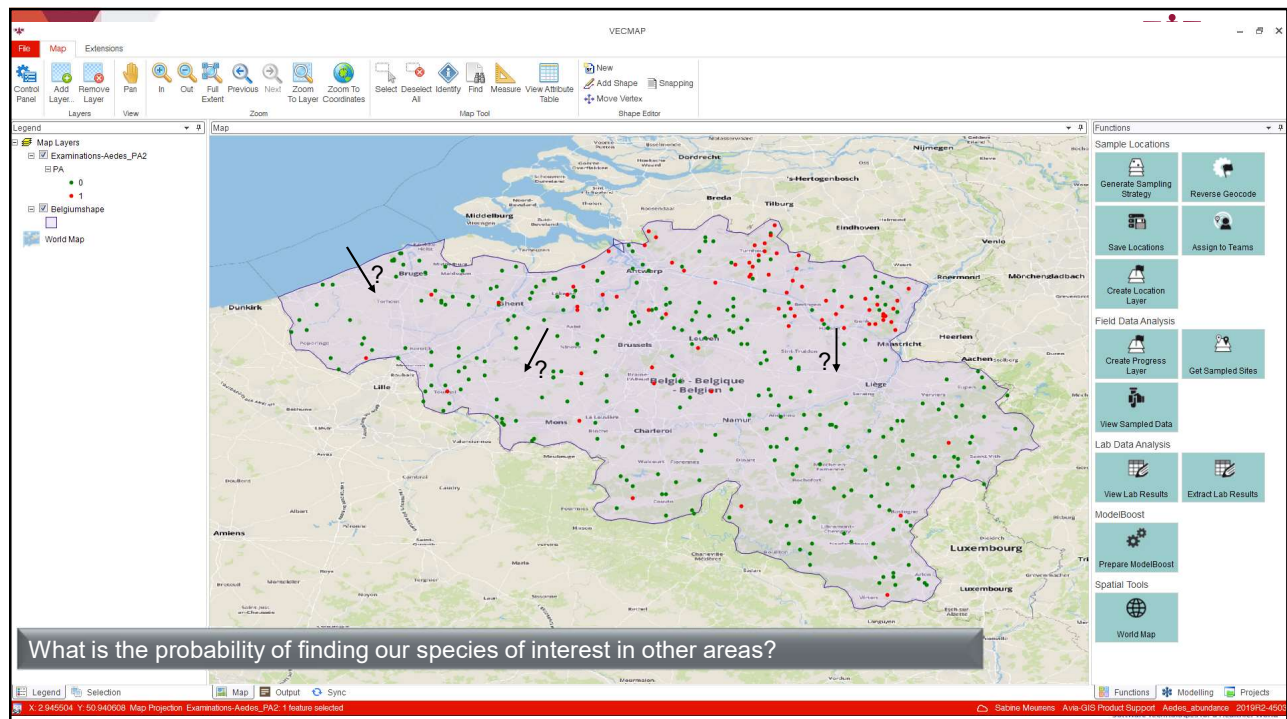
Apply filters

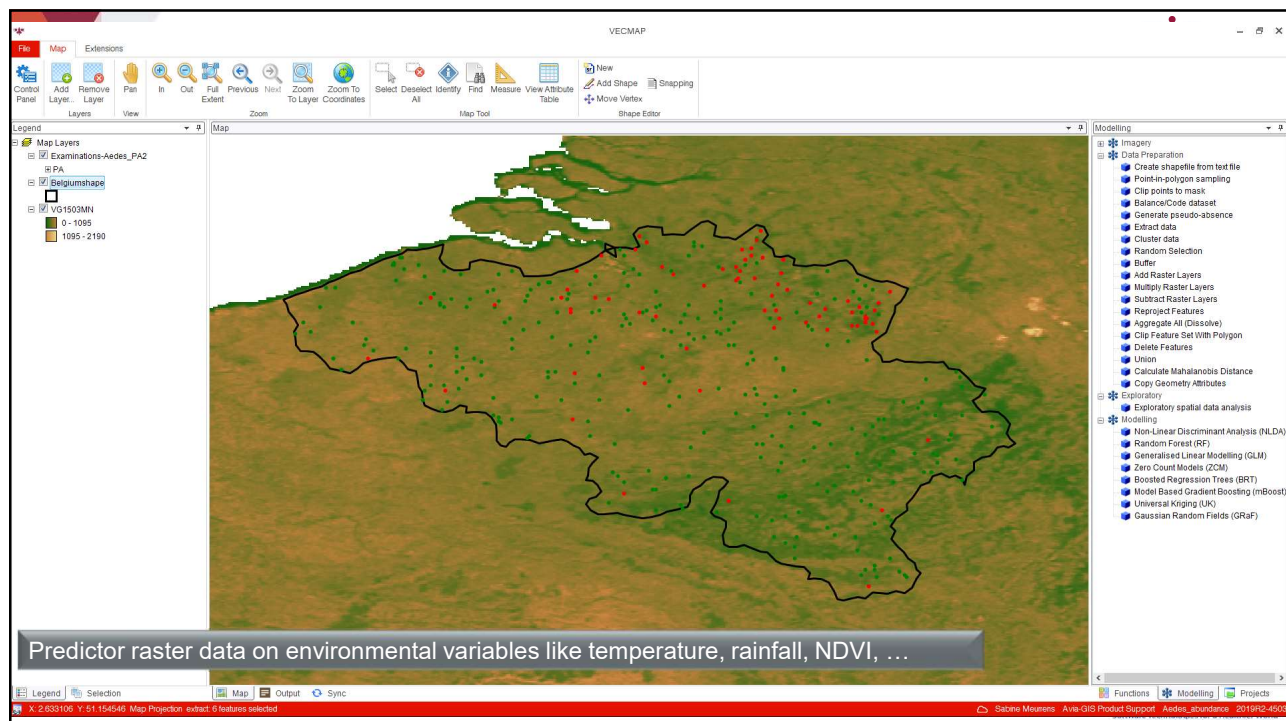
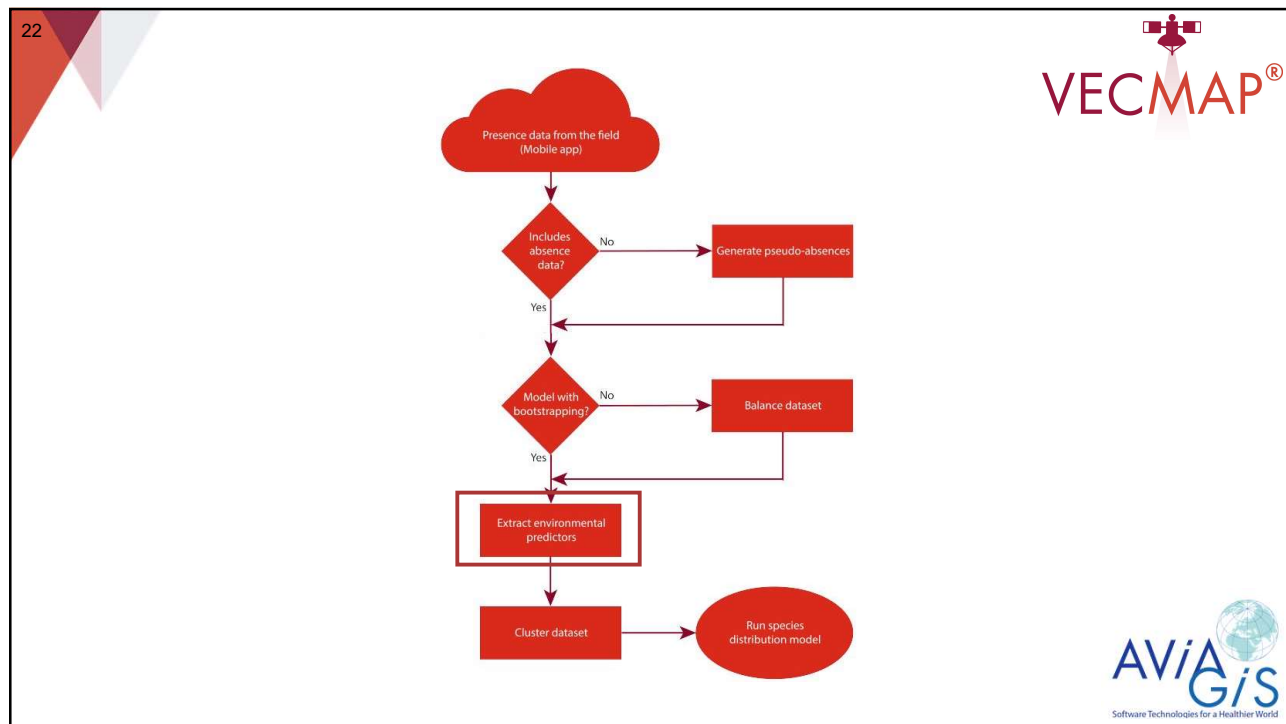
Progress
40%

Code	Name	Completed
5b4d67ba0f9422292ac5983ee38562a	sample_trapA_080120	Not yet completed
db5d806520114058aef26ee31a367427	sample_trapB_010120	Not yet completed
ef1650cfe3ed417bbffc1ceb40efe65a	sample_trapB_080120	Not yet completed

AVIA GIS
Software Technologies for a Healthier World





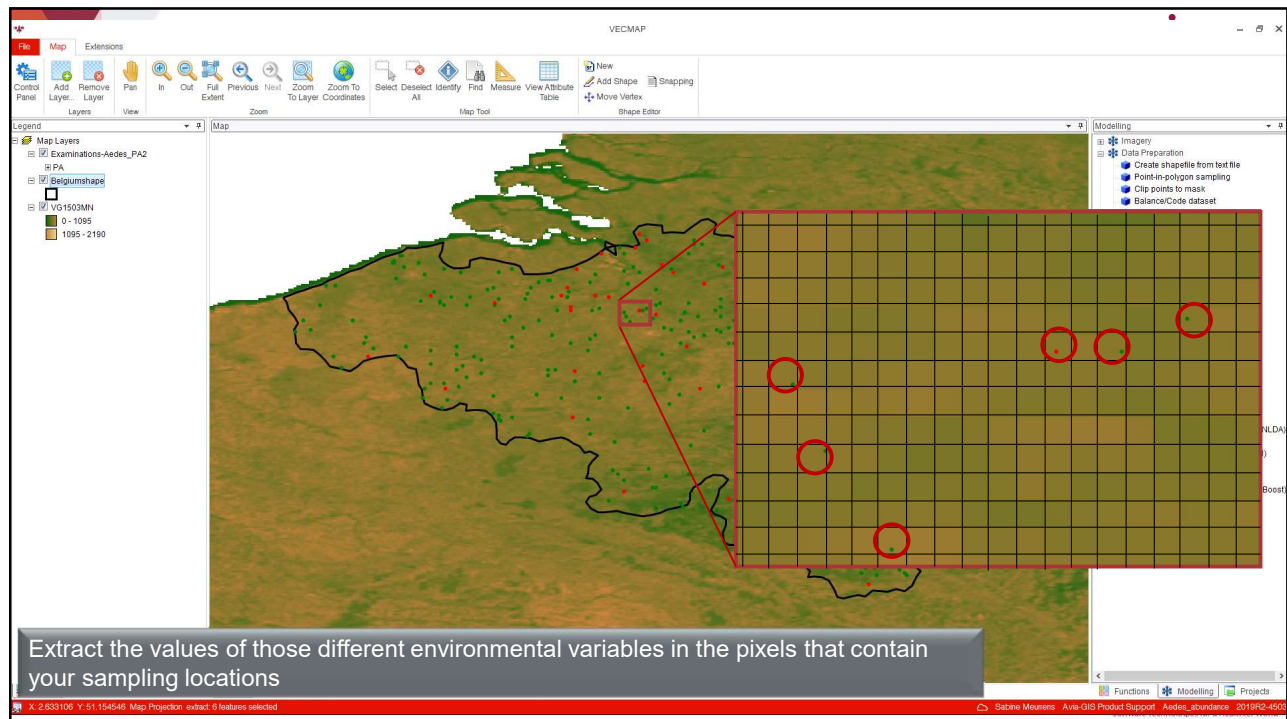


24

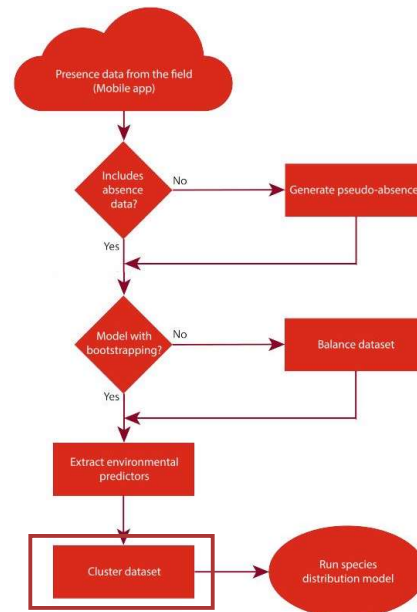
Predictor data providers



- GIS data
 - <http://diva-gis.org>
 - <https://naturalearthdata.com>
- Satellite data
 - <https://earthexplorer.usgs.gov>
 - <https://scihub.copernicus.eu>
 - <https://avl.class.noaa.gov>
 - <http://vito-eodata.be/>
- Other data
 - <http://landcover.org>
 - <https://land.copernicus.eu>
 - <https://worldclim.org/>



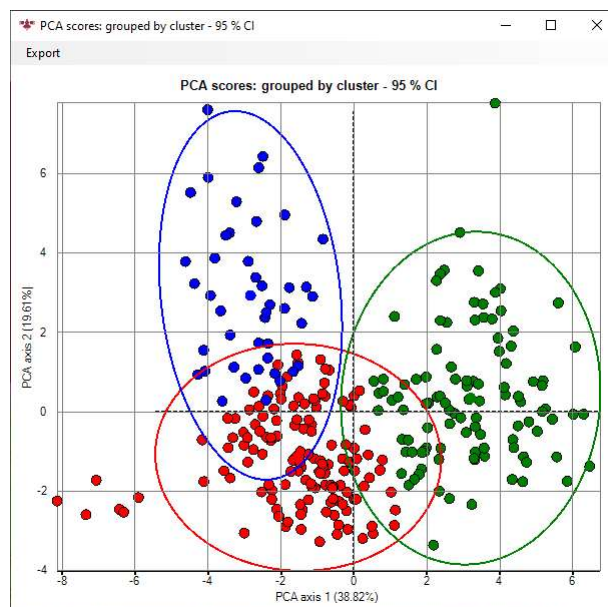
26



VECMAP®

AViA
GIS
Software Technologies for a Healthier World

27



VECMAP®

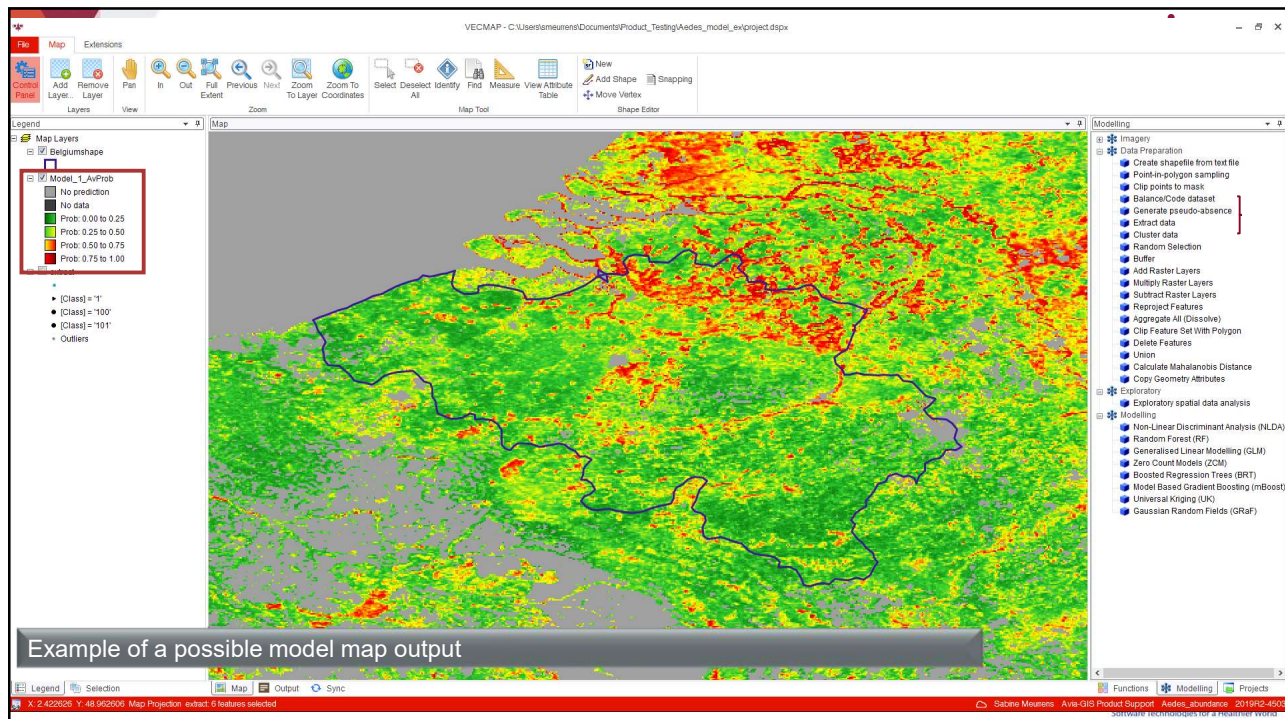
AViA
GIS
Software Technologies for a Healthier World

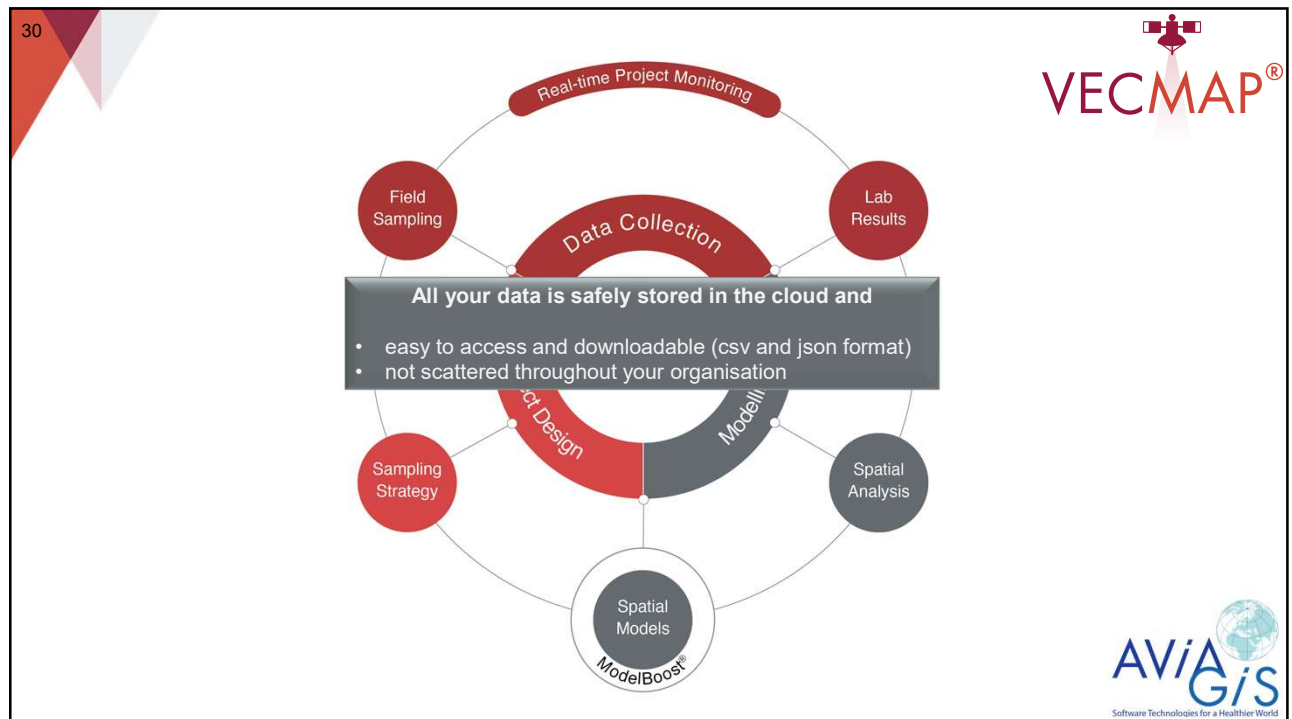
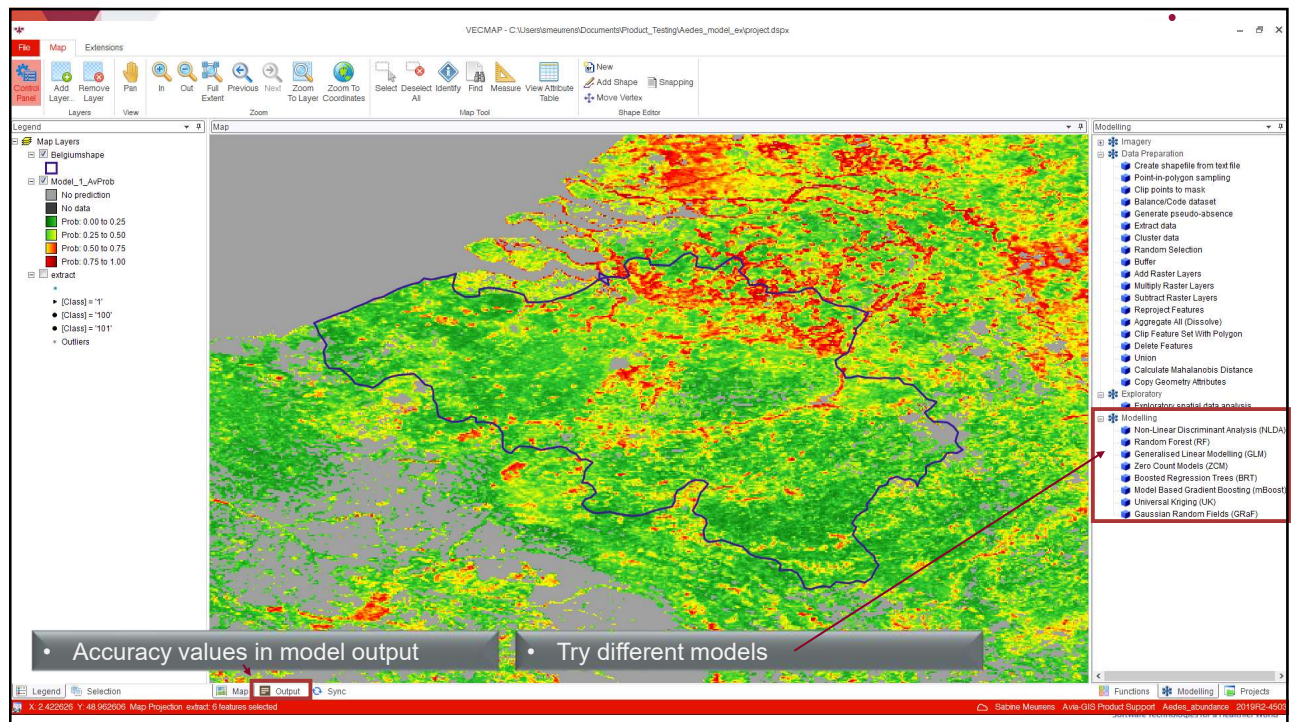
With the clustering you look for groups of sites which are more similar in environmental conditions

28

- Looking at the different environmental conditions in each pixel of your area of interest
- To which cluster does the pixel most likely belong?
- Will my species of interest then be more likely absent or more likely present at this location?
- Also possible for abundance data

Software Technologies for a Healthier World





31



VECMAP® offers your organisation:

- Decreased time expenditure
- Increased organisational capacity
- Increased staff efficiency
- Increased data security

More resources become available for what really matters:

Quality research with quality data!



THANK YOU

For more info:
support@avia-gis.com

