

Alessandra della Torre and William Wint



with thanks to

Francis Schaffner, Dusan Petric, Antonios Michaelakis, Eva Veronesi, Kelly Martinou,
Miguel Miranda, Filiz Gunay, Cosmin Salazar, Mattia Manica, Benjamin Caputo

with mugshots....

COST ACTIONS are networking projects aimed to:



- building capacity by connecting high-quality scientific communities throughout Europe and worldwide;
- providing networking opportunities for early career investigators;
- increasing the impact of research on policy makers, regulatory bodies and national decision makers as well as the private sector.



see www.aedescost.eu

KoM

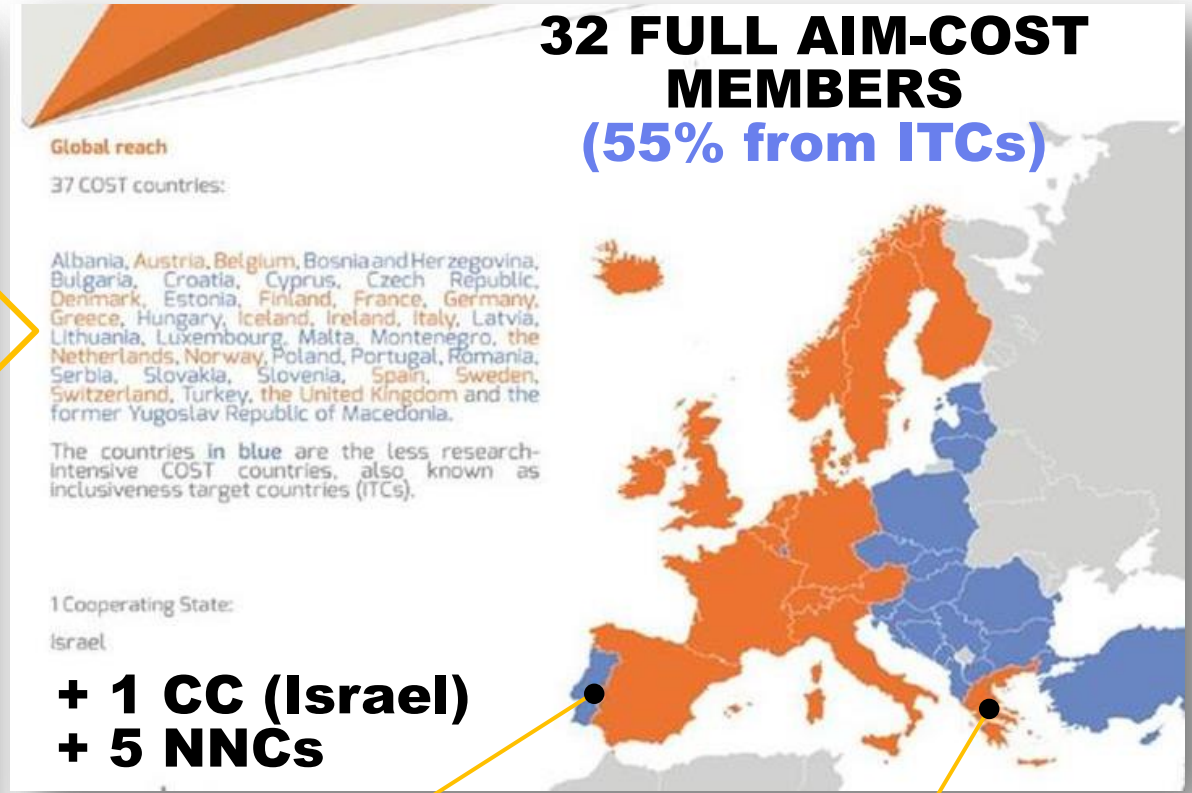
http://www.cost.eu/COST_Actions/ca/CA17108

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www.cost.eu



3rd AC, feb 2021
Focus on Control

4th AC, 2022
FINAL CONFERENCE

2nd AC, feb 2020, LISBON
“Surveillance of AIMs in EU”
Call for participation soon open!!
see www.aedescost.eu

1st AC, feb 2019, Athens
(with >100 participants, including representatives from E-CDC and WHO)

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Funded by the Horizon 2020 Framework Programme of the European Union

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❑ **Short term Scientific Missions, so far 14 STSMs approved/ongoing. Next call probably in 2020**

❑ **1st AIM-COST Training School, “Harmonizing AIM surveillance across Europe” Cyprus, January 2020 (call closed on Sept 30th: 47 applicants for 20 positions available)**

❑ **2nd AIM-COST Training School, “AIM control using integrated approaches and assessment the efficacy of control methods” Turkey, July 2020 *Possibly in collaboration with IAEA and MediLabSecure***

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THIS IS WHY WE ARE GLAD TO BE HERE!!

Other networking so far:

- eSOVE meeting (Palermo, 2018)**
- EMCA meeting (LaRochelle, 2018)**
- Vector Borne Disease Operational Readiness Workshop: Lessons learned from WNV Response in WHO European Region (Sofia, Bulgaria, October 2019)**



ACTION CHAIR: Ale DELLA TORRE (me!)
DEPUTY CHAIR: Dusan PETRIC
GRANT HOLDER:



**AIM-COST
MANAGEMENT
COMMITTEE**

**WG1
MONITORING &
SURVEILLANCE of
AIMs and AIM-BVs**

**Francis SCHAFFNER
Miguel MIRANDA**

TRAINING SCHOOLS

**Andrei MIHALCA
Bulent ALTEN**

**WG2
CONVENTIONAL
& INNOVATIVE
CONTROL TOOLS**

**Antonios MICHAELAKIS
Carla SOUSA**

STSMs

**Joao PINTO
Marie PICARD**

**WG3
DISSEMINATION,
CUSTOMISATION &
COMMUNICATION**

**Willy WINT
Eva VERONESI**

SCIENCE COMMUNIC

**Filz GUNAY
Ana Firanj SREMAC**

❑ **WG1- Workshop (Barcelona, March 2019)**
**“LINKING CITIZEN SCIENCE TO
EPIDEMIOLOGICAL MODELLING”**



**Assess feasibility and criticisms to
exploit mobile-phone apps for large
scale AIM monitoring/surveillance**

❑ **1st AIM-COST TS (Cyprus, January 2020)**
**“HARMONIZING AIM SURVEILLANCE
ACROSS EUROPE”**



**Standardization of basic monitoring
approach to be implemented
homogeneously across EU
in summer 2020 (and afterwards?)**

❑ **2nd AIM-COST AC (Lisbon, February 2020)**
“AIM SURVEILLANCE IN EU AND BEYOND”

Ongoing effort to provide a
preliminary picture on pyrethroid
resistance in *Ae. albopictus* across EU



**□ WG-2 WORKSHOP
(Lisbon, February 2020)
“Assessment of the efficacy of AIM
control methods in public health”**

**□ 2nd AIM-COST Training School,
Turkey, July 2020
“AIM control using integrated
approaches and assessment the
efficacy of control methods”**

**□ 3rd AIM Annual Conference
(Feb 2021), focus on “AIM CONTROL”**

Provide evidence-based suggestions for the development improved and customized guidelines for AIM monitoring, surveillance, modelling and control

Customisation and “translation” of guidelines and modelling outputs for different end-user groups (2022)

FINAL AIM CONFERENCE (2022), focus on “STAKEHOLDER ENGAGEMENT”

QUESTIONNAIRES (Willy WINT)



WE WELCOME ADDITIONAL IDEAS, NEW PERSPECTIVES and ACTIVE CONTRIBUTION from ANYBODY AVAILABLE and INTERESTED to REINFORCE AIM-COST COMMUNITY and IMPROVE SURVEILLANCE and CONTROL at the EU LEVEL and BEYOND!!!

AIM COST Questionnaire: Objectives

What are monitoring, surveillance and control activities in Europe and Overseas territories

Who is planning, funding, and implementing these activities

At what geographical scale are these activities being implemented, and where.

What are the perceived gaps and constraints

Which guidelines are being used

Are there any problems with the available guidelines or should they be rationalised/standardised

What role does citizen science play in AIM related activities

Invited paper of Results in Special Issue of Journal of Environmental Research and Public Health

AIMCOST QUESTIONNAIRE: Implementation

Modified Delphi procedures:

Trial Questionnaire sent to superusers (Eva Veronesi)

Questionnaire revised and validated with superusers (Task leaders)

Questionnaire implemented online (Task Leaders)

Questionnaire administered at 1st Annual Network Meeting Session

Additional respondents suggested by initial respondents (Francis Schaffner)

ECDC National Focal points requested to participate (Olivier Briet)

Questionnaire adapted for Culex by ECDC

Analyses ongoing:

Draft taster outputs presented here

AIMCOST QUESTIONNAIRE: Implementation

Questionnaire details:

26 questions, multipart, “if YES,”

Multiple choice with opportunity for questions, comments for most questions

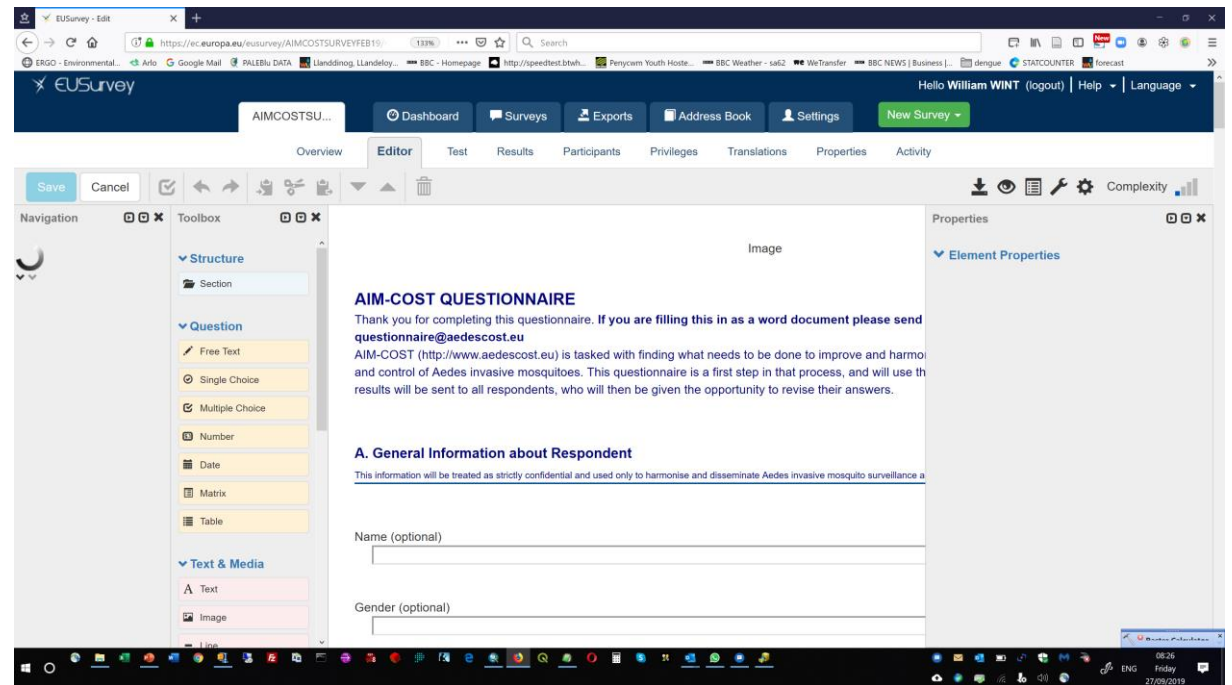
Eusurvey (not survey monkey etc)

Inbuilt basic filtering and analyses

Online with .doc (not pdf) backup

Doc sent in advance

Questions explained to (most) respondents



AIMCOST QUESTIONNAIRE: Respondents

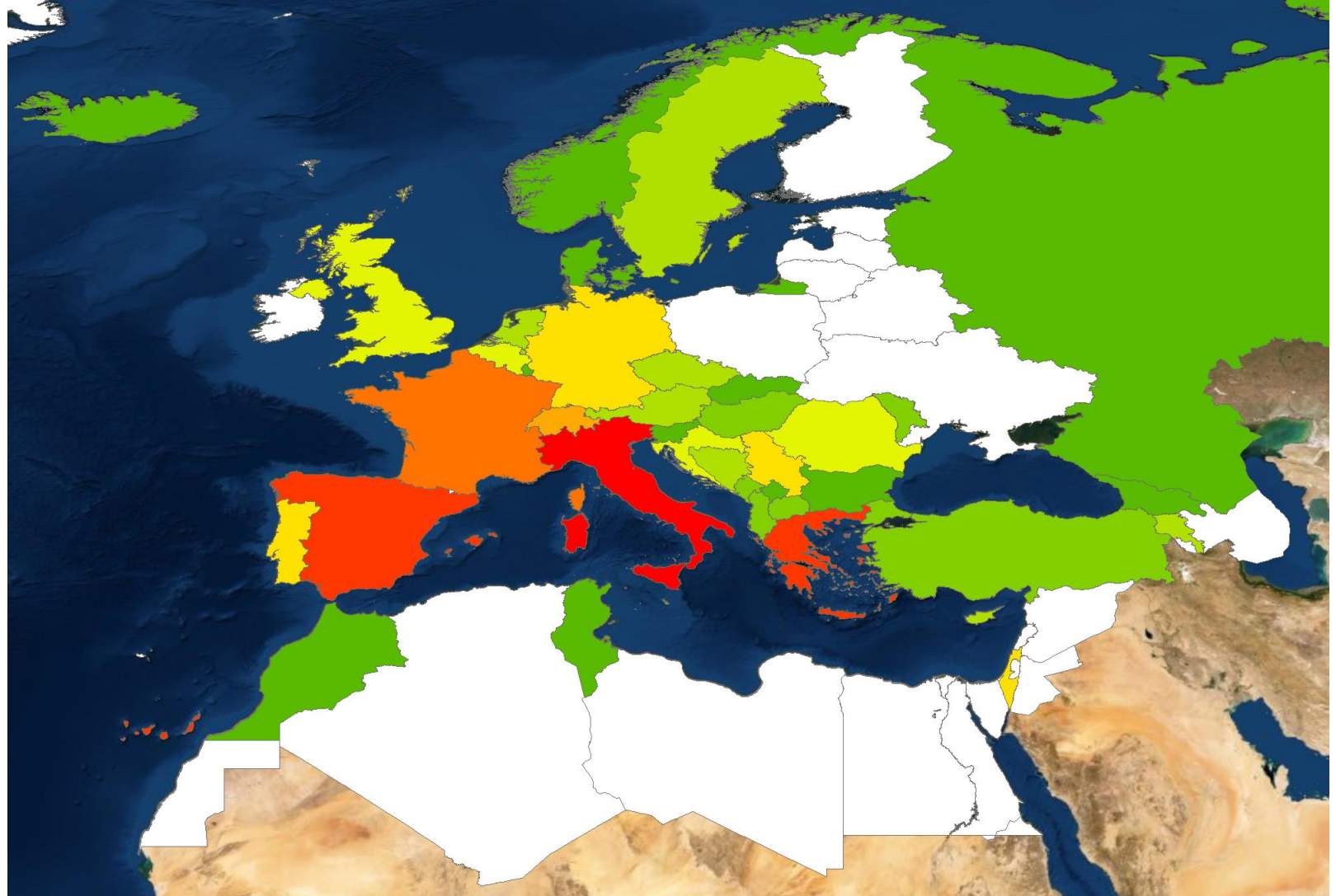
155 Respondents

MAP

Respondent Categories
Biased Academic

Respondent Ages
Plenty young folk

Respondent Skills
Biased Entomology



AIMCOST QUESTIONNAIRE: Monitoring & Surveillance

Who implements, what scale, what for

Geographic scales

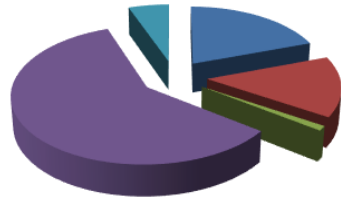
Objectives

Planning

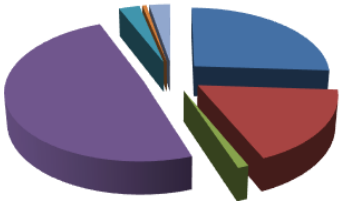
Funding

Implementing

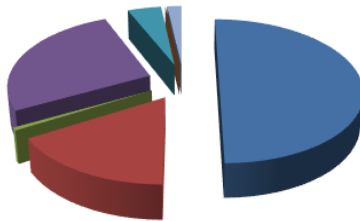
Use



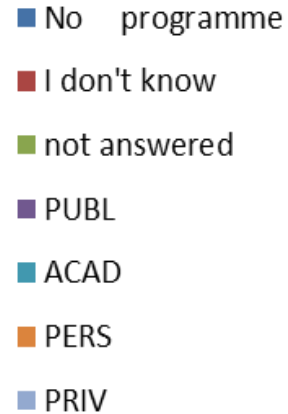
National



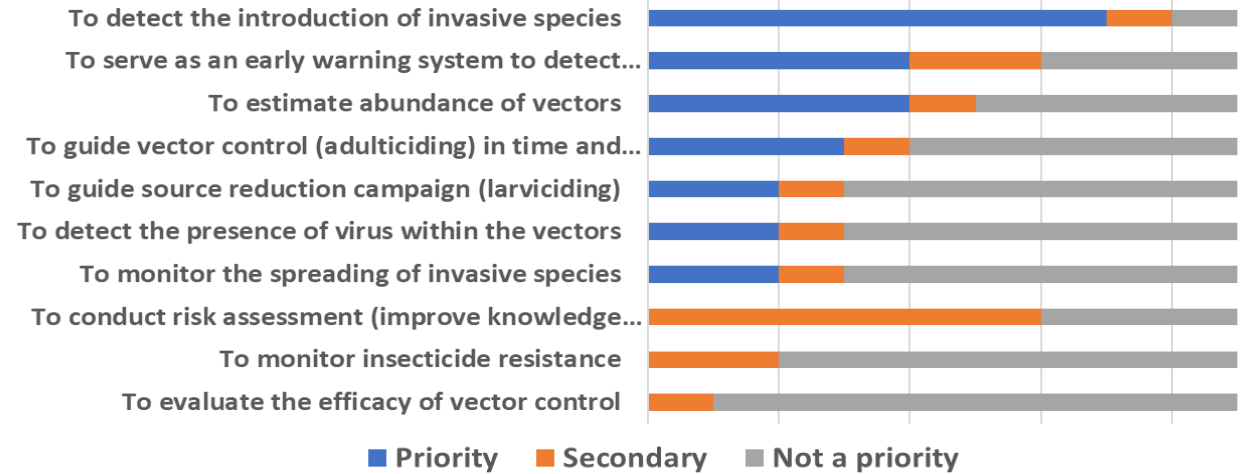
Regional



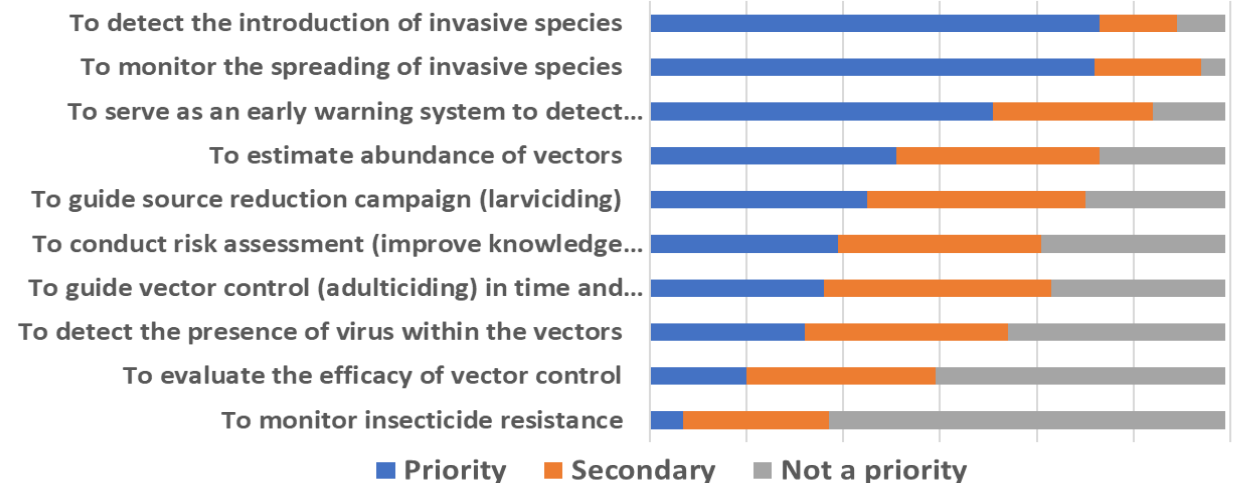
Local



Q6. What are the objectives of AIM surveillance in your country?
-Countries without AIMs-



Q6. What are the objectives of AIM surveillance in your country?
-Countries with AIMs established and sporadic records-



AIMCOST QUESTIONNAIRE: Monitoring & Surveillance

Based on MONITORING SURVEILLANCE

Geographic scales

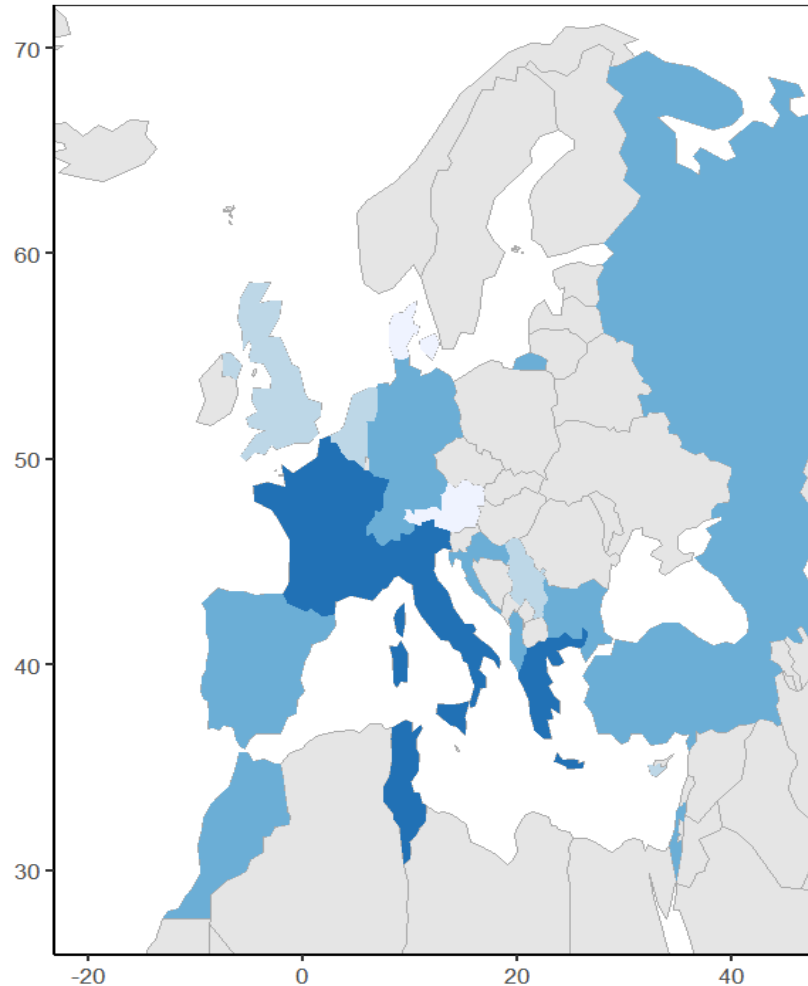
Objectives

Planning

Funding

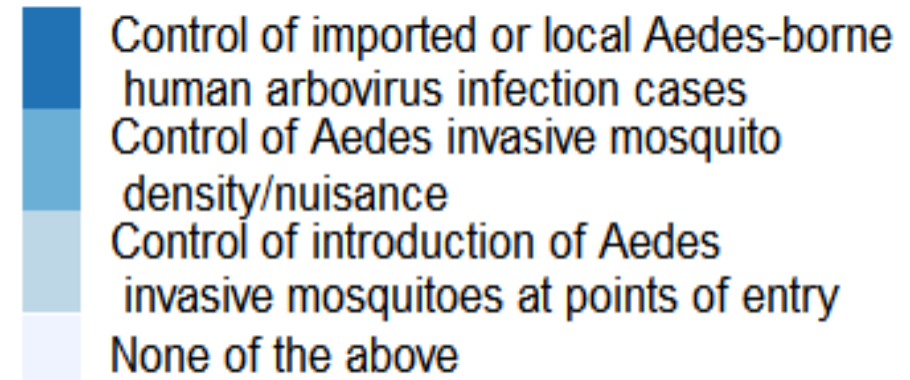
Implementing

Use



Source: aimquestmaster155quest280519V1

How surveillance is used



AIMCOST QUESTIONNAIRE: Control

Geographic scales

Objectives

Funding

Implementing

Methods

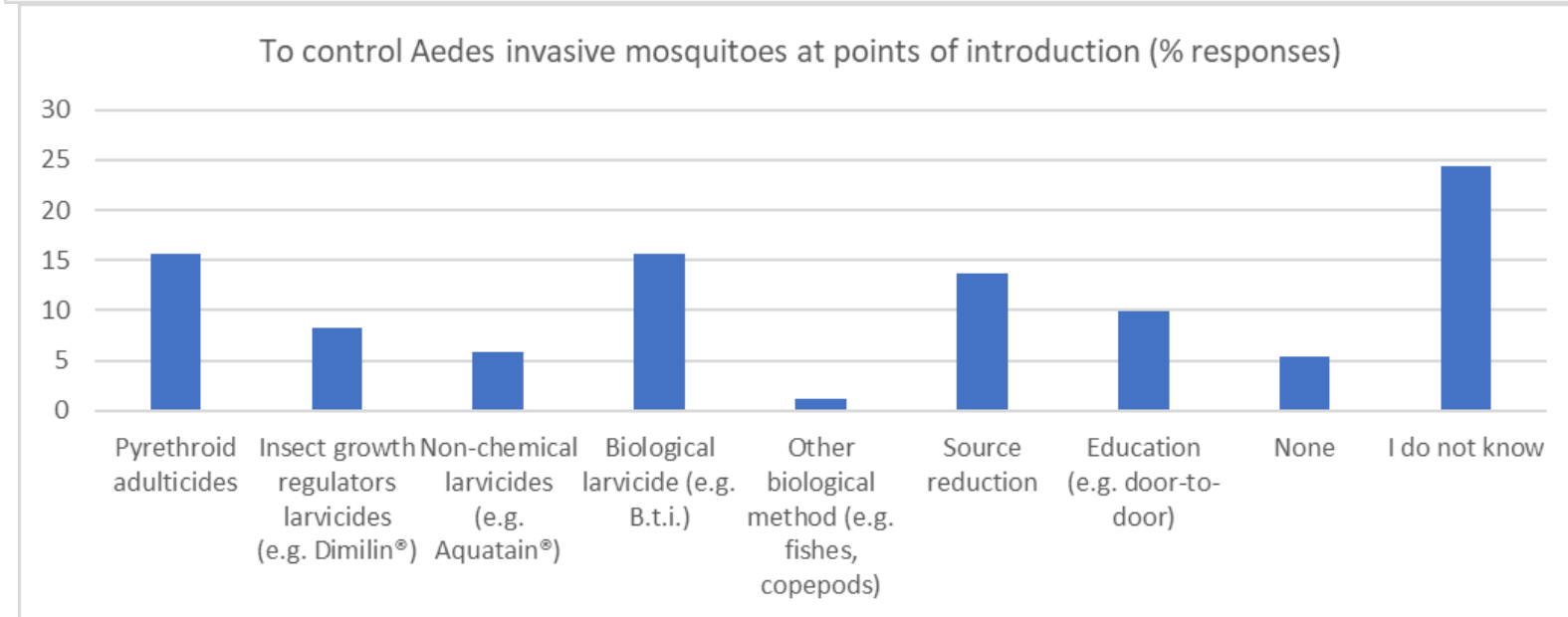
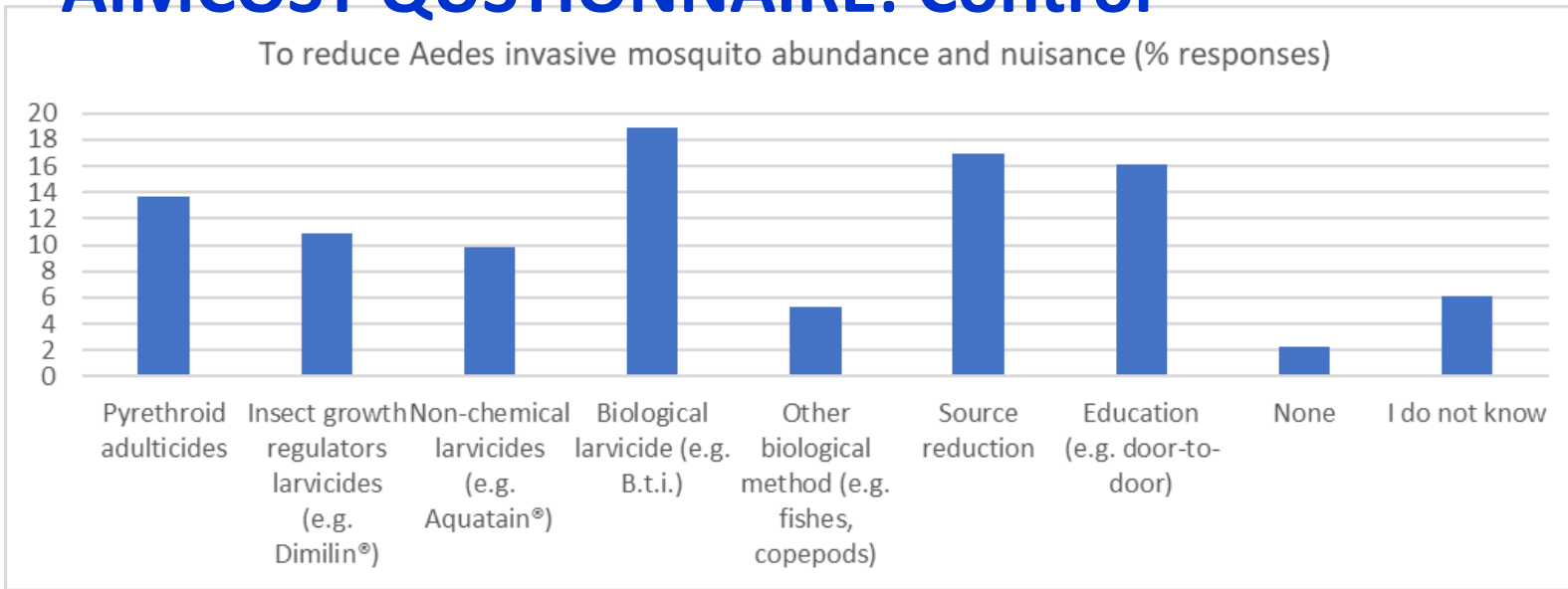
New Tools

Problems

Resistance

Contracts

Citizen Science



AIMCOST QUESTIONNAIRE: Control

Geographic scales

Objectives

Funding

Implementing

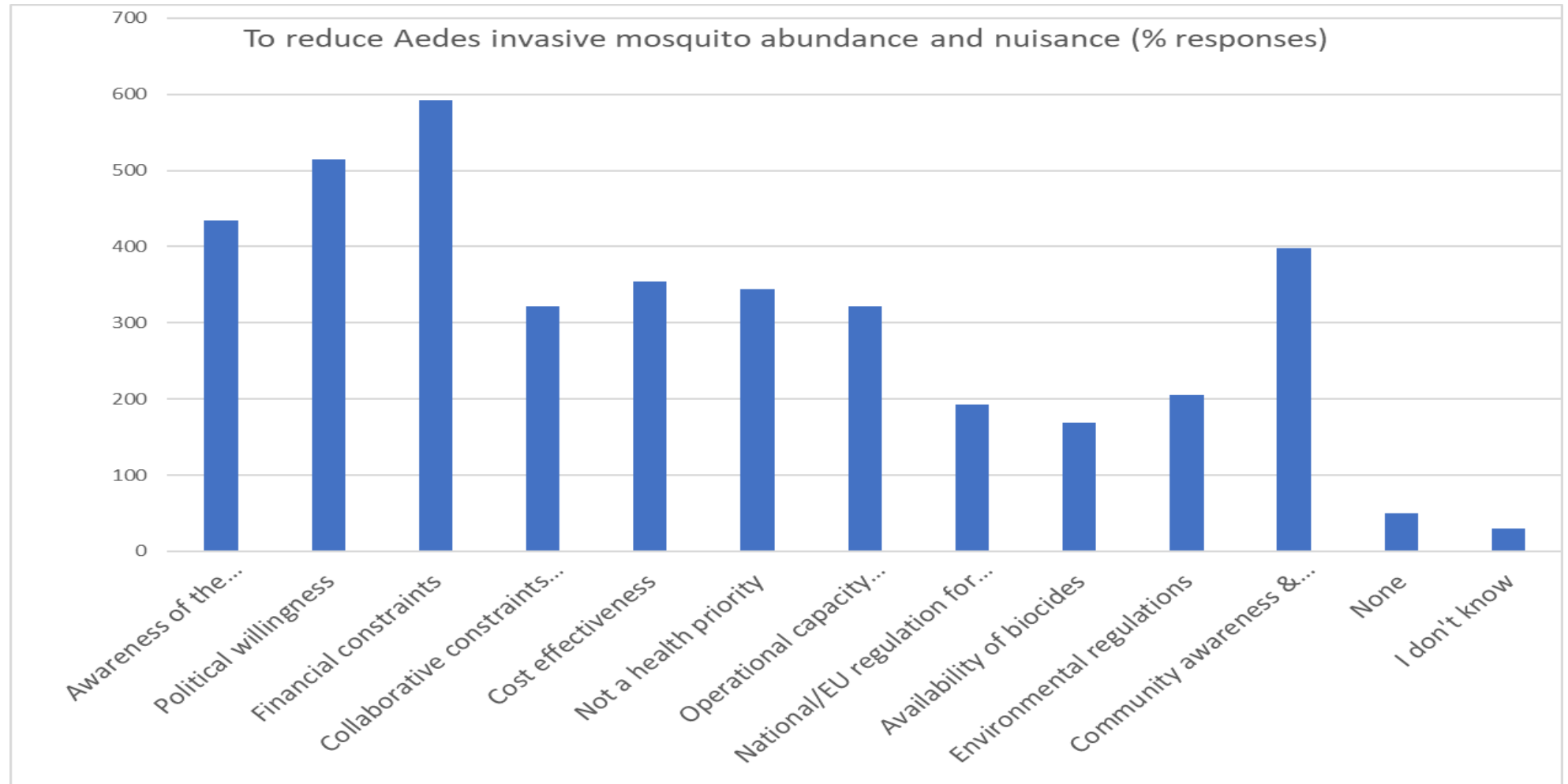
Methods

New Tools

Problems

Resistance known

Citizen Science



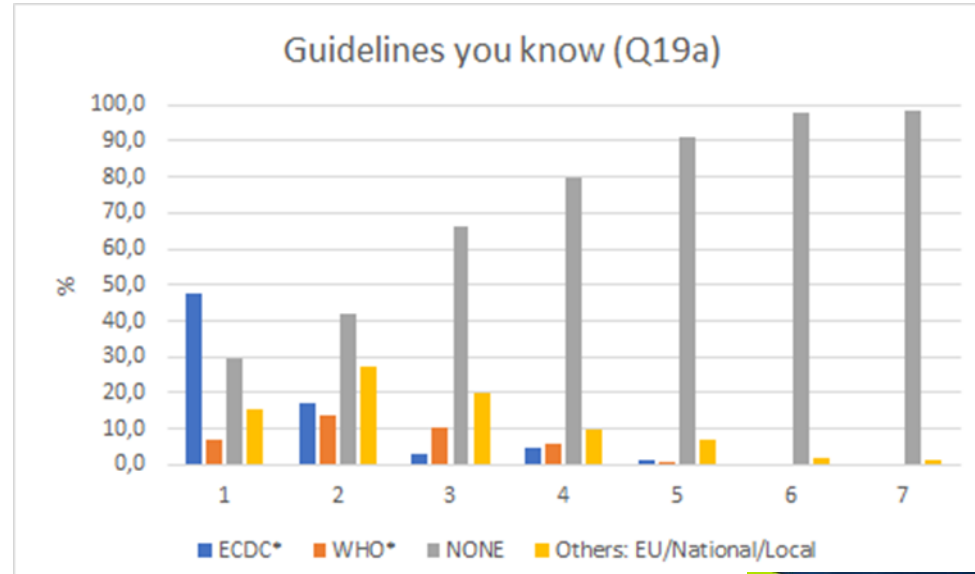
Other contexts: points of introduction, disease control, etc, etc

AIMCOST QUESTIONNAIRE: Guidelines

Which ones are known

Where

What are the gaps



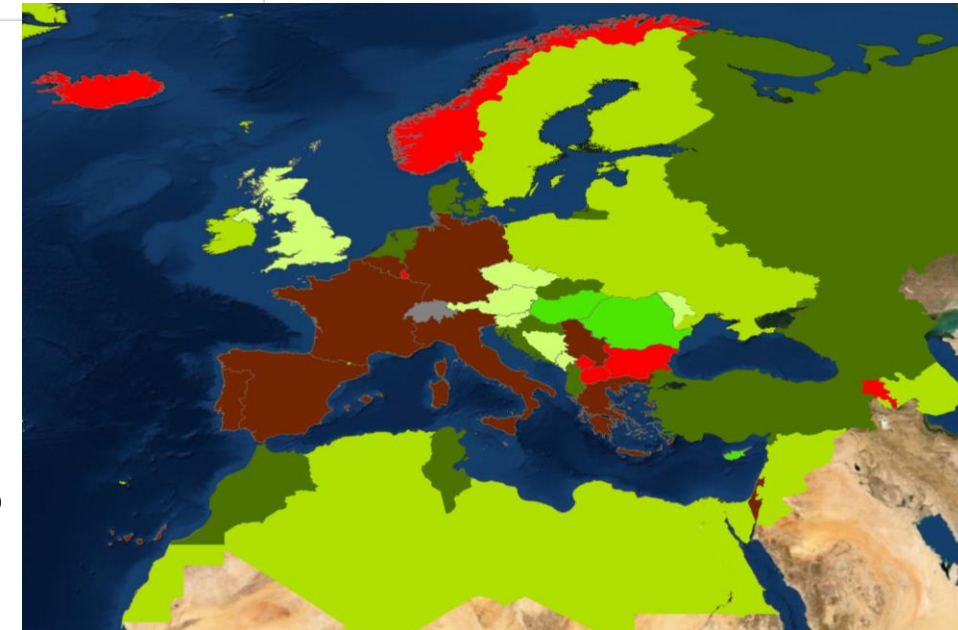
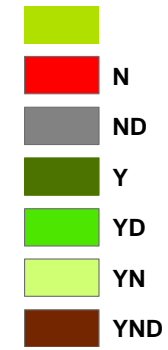
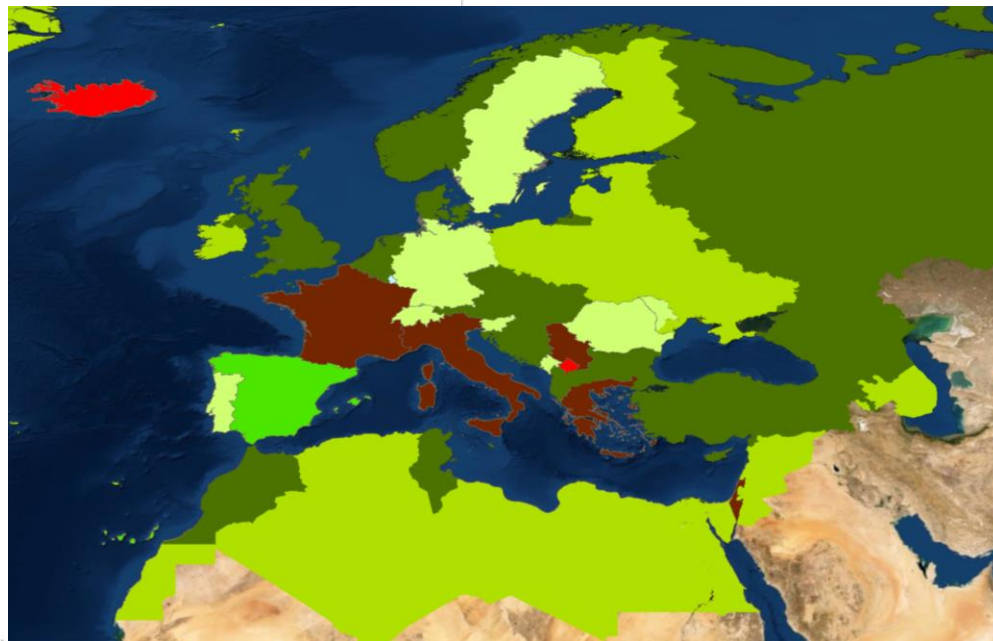
Monitoring

Control

Oversight

Dissemination

Versioning



AIMCOST QUESTIONNAIRE: Guidelines

Which ones are known

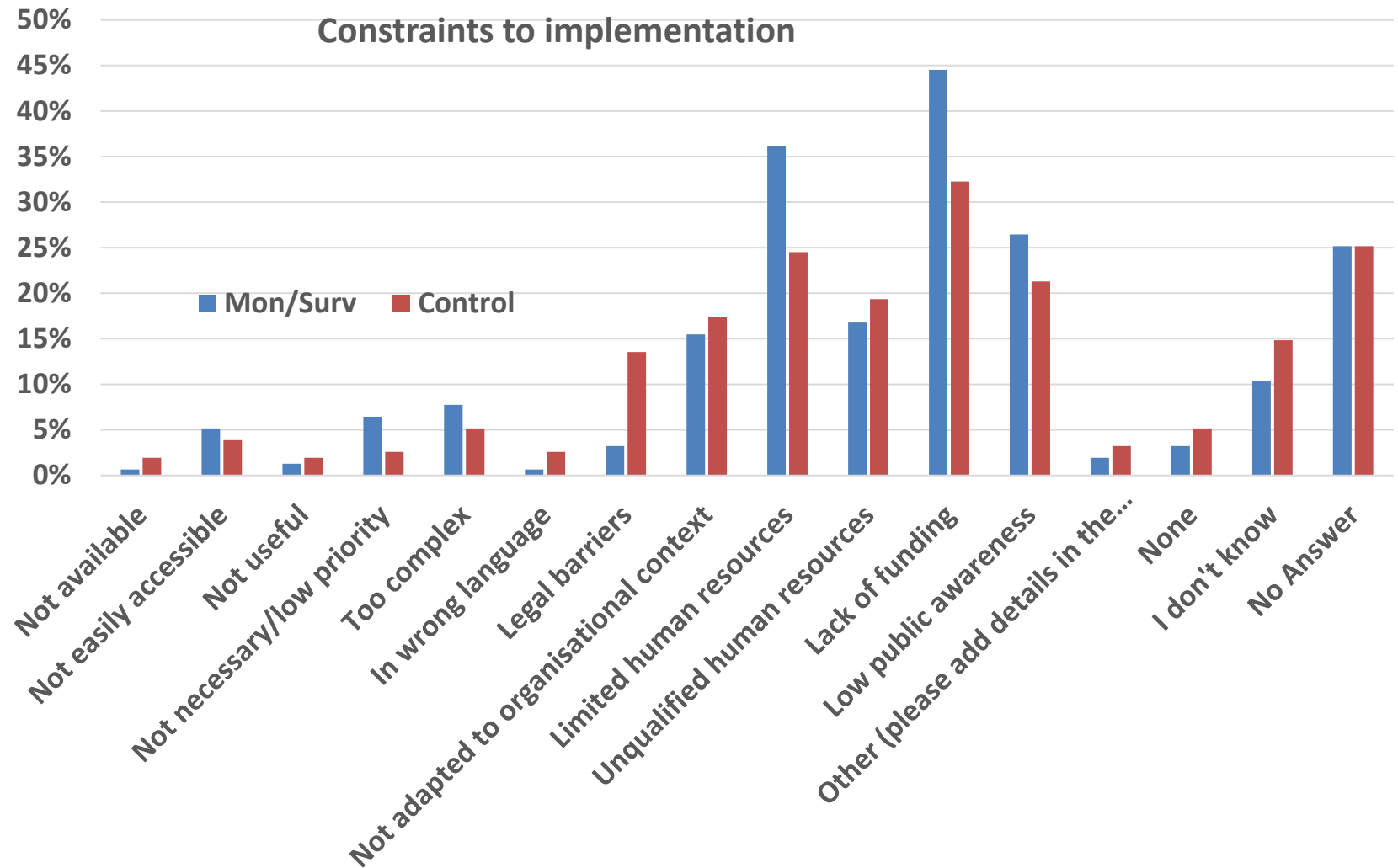
Constraints

What are the gaps

Oversight

Dissemination

Versioning



AIMCOST QUESTIONNAIRE: Guidelines

Which ones are known

Local versions for regions and different climate and environments, xxxxxxxxxx

Constraints

Sectoral Versioning, translation, improve awareness, citizen involvement xxxxxx

What are the gaps

Quality control and indicators xxxxxx

Oversight

Update to include innovative methods xxxx

Dissemination

Small scale operations, low cost in marginal areas xxx

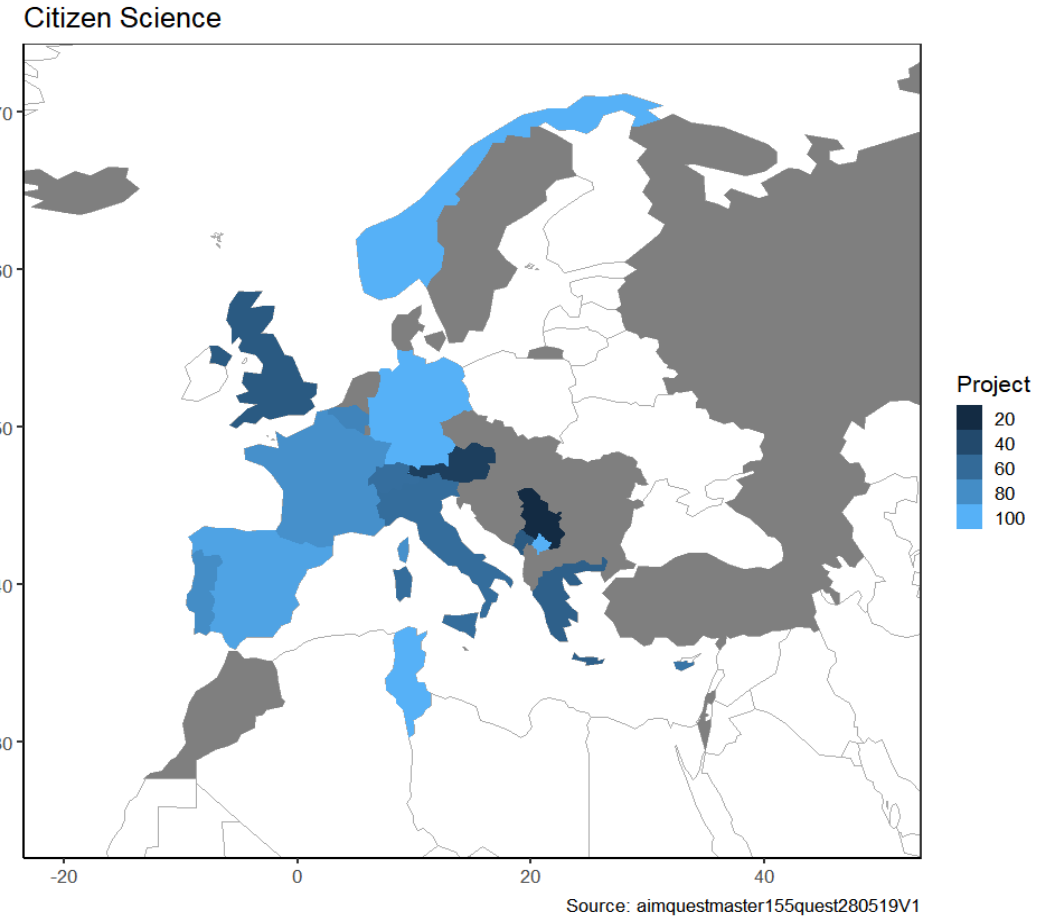
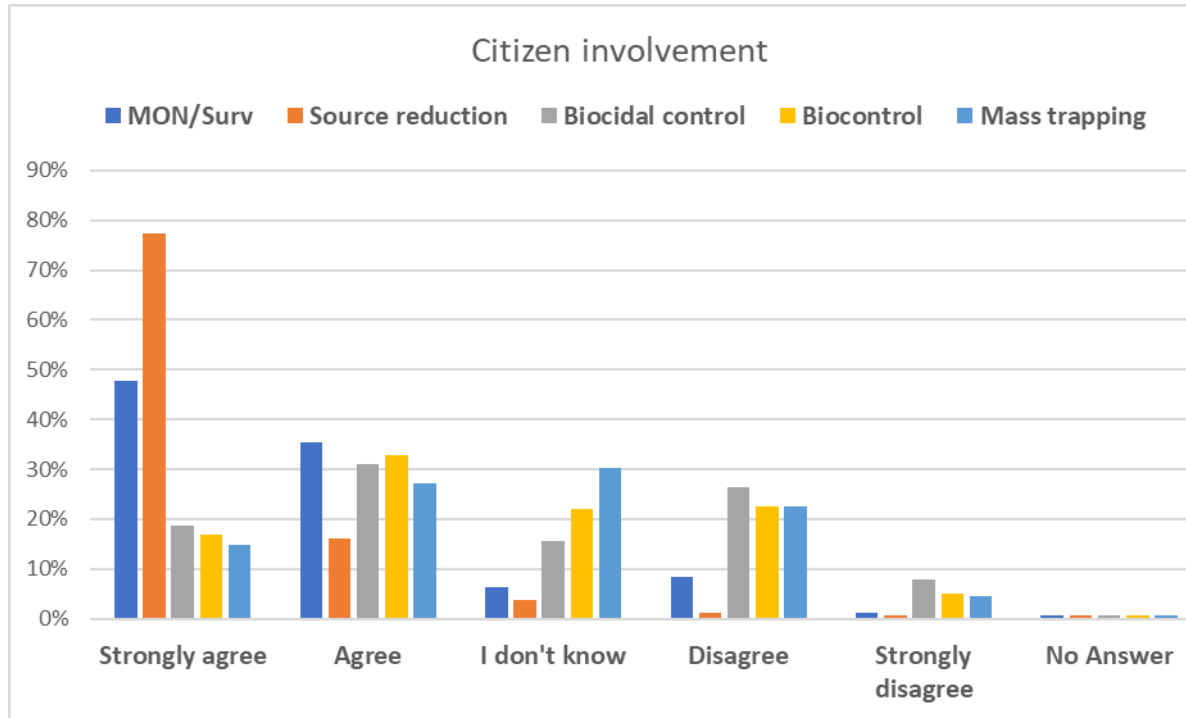
Versioning

Insecticide resistance monitoring xxx

Adulticide treatments better developed. National biocide lists xxx

AIMCOST QUESTIONNAIRE: Citizen Science

Citizens
Training
Comments



Everyone recommends training (well 3% don't!)

AIMCOST QUESTIONNAIRE: Looking Forward

Lessons Learned:

“Captive” audience works – high proportion responded

Complexity only possible with live explanation of questions

Simplified 2nd more technical survey probably required

Lists of Control and surveillance actors to be compiled - ?? GDPR

Geographic analysis/gap detection

In voluntary project workshops needed to ensure inputs

Workshop in three weeks to refine analyses, paper invited