WILDLIFE HEALTH AND RELATED ENVIRONMENTAL FACTORS IN THE PVS PATHWAY

Tuesday 15th of November 2022 Carole GOULET





OBJECTIVES AND SCOPE OF WORK

First objective was twofold:

 i) to review PVS Pathway activities (i.e. PVS missions reports) to identify how, when, and why wildlife health was – or wasn't – taken into consideration

 ii) to map already existing international health assessment tools or wildlife health monitoring systems.



OBJECTIVES AND SCOPE OF WORK

Second objective was

 To use the findings to provide recommendations and/or tools to better integrate wildlife health into PVS Pathway core structure in line with WOAH Wildlife health Framework objectives.





MAPPING OF EXISTING TOOLS

- Grey and academic literature review
- Excel database presenting 15 existing tools related to the evaluation of health systems or surveillance systems
- 3 promising initiatives identified



REVIEW AND ANALYSIS OF 81 PVS MISSION REPORTS

- 71 PVS Evaluation and follow-up reports (67 terrestrial and 4 aquatic)
- 4 PVS Gap Analysis reports
- 6 PVS Sustainable Laboratories reports

33 INDIVIDUAL INTERVIEWS

- PVS experts
- Wildlife & aquatic focal points
- Wildlife experts
- Members of the WOAH WGW group
- DVS officers





→ Respecting good geographical coverage

MAIN FINDINGS

No specific assessment tool for Wildlife health

- → 3 promising initiatives
- → 2 still under development, in piloting phase

Great variability between countries in how wildlife health is taken into consideration in the PVS reports

→Variability not linked to the importance of wildlife in the country

- → When mentioned, Wildlife health is referred as a threat to public and domestic animal health
- → References to wildlife were found at least once in 73% of the CCs (33/45)

Wildlife health mandate differ from country to country.

- → Not always under Veterinary services mandate
- → Can be under a different ministry

Wildlife definition of WOAH is broad including 3 categories: feral *animals*, captive wild *animals* and wild *animals*.

When considering wildlife health, Should we keep these categories together?





1 FOCUS GROUP SESSION 14 PARTICIPANTS



OBJECTIVES:

- Align WOAH wildlife categories with Health concept
- Who should have the mandate(s) over Wildlife Health?
- Reflect on recommendations presented
- Propose other alternatives/comments



WILDLIFE CATEGORIES ACCORDING TO WOAH DEFINITION*	HUMAN SUPERVISION & CONTROL (YES/NO)
Feral animals (dogs, cats etc. that have escaped from human supervision and established in the natural environment)	NO
Captive Wild animals (small game farms, zoo animals, exotic pets)	YES
Free-ranging Wild animals (without supervision all year round)	NO

DEFINITION OF WILDLIFE CATEGORIES

- Definition of wildlife categories:
 - \rightarrow Which health objectives for

which wildlife category?

- Absence of disease?
- Food safety?
- Conservation?



- *From WOAH Terrestrial code
- https://www.woah.org/en/what-we-do/standards/codes-andmanuals/

	Level	Biostatistical theory	Domain	Holistic theory	Domain
Free-roaming wildlife	(Individual) Population Community	Natural disease dynamics	Disease Ecology	Sustainable & viable population & community	Animal Welfare Conservation Sc.
Feral animals	Population Ecosystem	Abs. of important diseases Invasive species	Disease Ecology Epidemiology Population Management	Welfare	Animal welfare
Ranched wildlife	(Individual) Population	Absence of disease	Veterinary Sc. Epidemiology	Welfare Economic production /management	Animal welfare Economics
Farmed wildlife	Population	Absence of disease	Veterinary Sc. Epidemiology	Welfare Economic production /management	Animal welfare Economics
Traded wildlife	Individual	Absence of disease	Veterinary Sc. Public Health	Welfare Economic production	Animal welfare Economics
Wildlife (bush) meat	Individual	Absence of disease	Veterinary Sc. Vet. public Health	Consumption Economic production	Food sociology Economics
Hunted wildlife	Population	Abs. of important diseases	Epidemiology Vet. public Health	Welfare Management	Animal Welfare Zootechny?
Zoo wildlife	Individual (Population)	Absence of disease	Veterinary Sc.	Welfare	Animal Welfare (Conservation Sc.)
Wildlife pets	Individual	Absence of disease	Veterinary Sc. Public Health	Welfare (Mental Health Well-being)	Animal Welfare (Social & Psycho. Sciences)
Anthropogenic (urban) wildlife	Population (Community)	Abs. of important diseases	Disease ecology Public Health	Welfare	Animal Welfare

Wildlife categories

Adapted from Hanish e*t al. (2012)*



e.g.,Wildlife categories

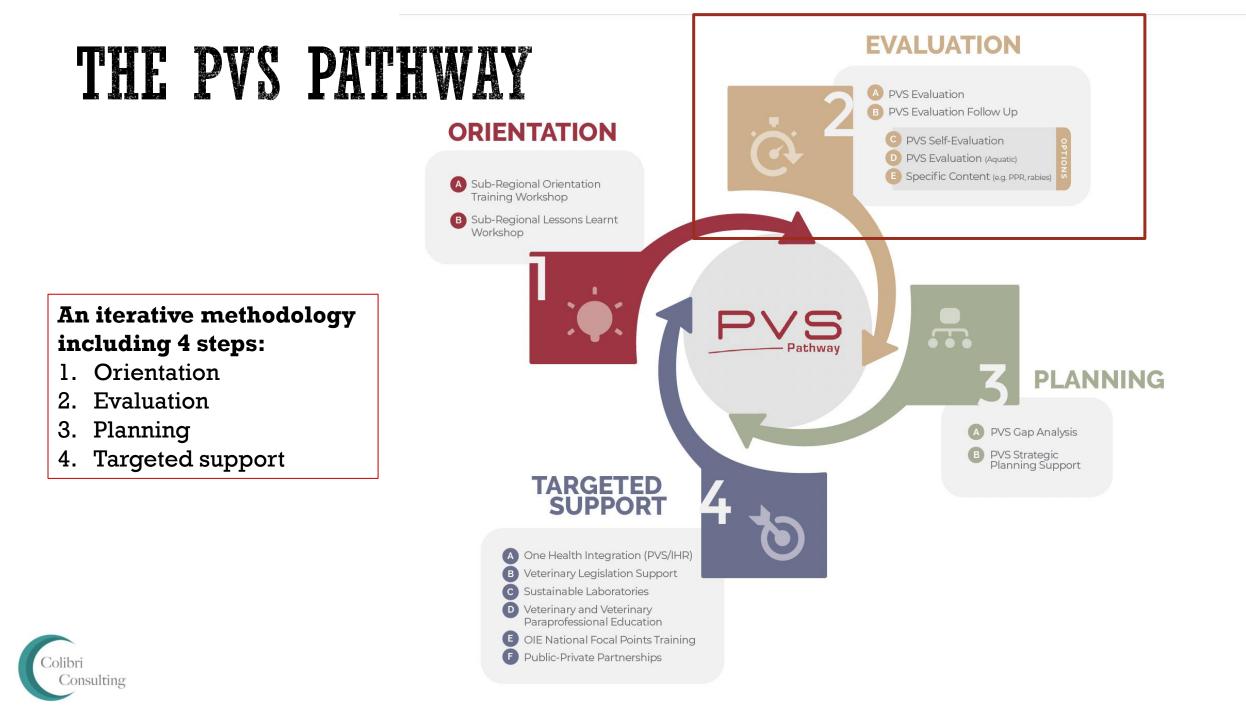
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Feral animals	Population Ecosystem	Abs. of important diseases Invasive species	Disease Ecology Epidemiology Population Management	Welfare	Animal welfare
Ranched wildlife	(Individual) Population	Absence of disease	Veterinary Sc. Epidemiology	Welfare Economic production /management	Animal welfare Economics
Anthropogenic (urban) wildlife	Population (Community)	Abs. of important diseases	Disease ecology Public Health	Welfare	Animal Welfare



RECOMMENDATIONS FOR THE PVS PATHWAY

- > Short-term recommendations
- > Medium-term recommendations
- Some « food for thought »







SHORT-TERM RECOMMENDATIONS

EVALUATION

PVS Evaluation

PVS Evaluation Follow Up

PVS Self-Evaluation

PVS Evaluation (Aquatic)

Specific Content (e.g. PPR, rabies)

 New roadmap for the PVS Evaluation missions

Colibri Consulting



NEW ROADMAP FOR THE PVS EVALUATION MISSION

> Baseline information

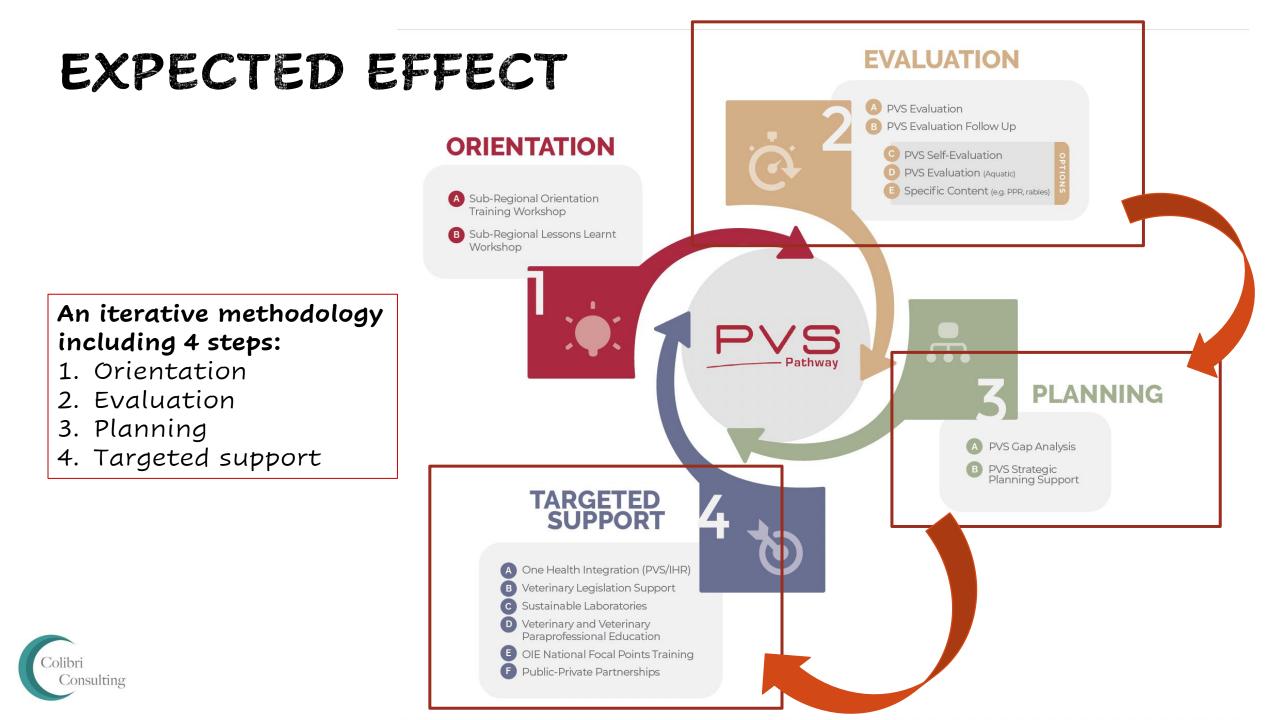
- Global information/data about
 - wildlife population (numbers if possible)
 - Protected areas superficies
 - Captive wildlife farms (estimated numbers, which species)
 - List of protected species
- Economic impact of wildlife trade on GDP

> During the mission

- Encouraging meeting with Wildlife or any relevant authorities at national and at field level
- > Special summary for key findings and key recommendations

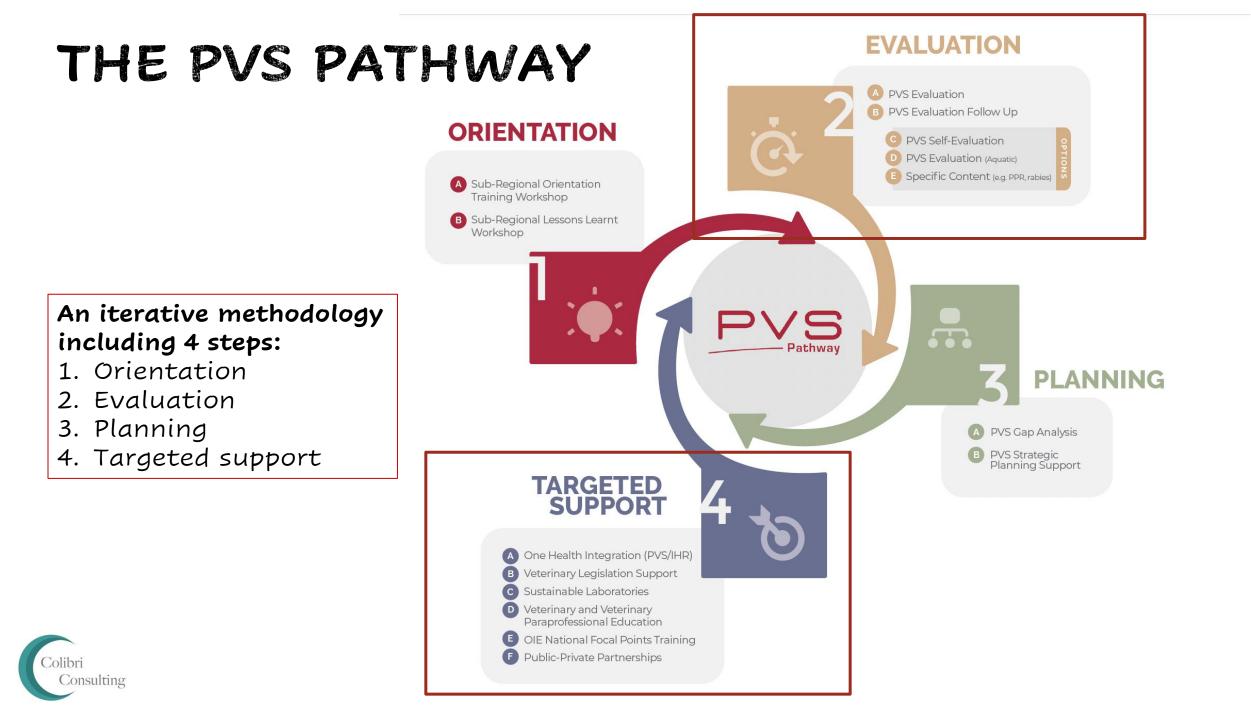






MEDIUM-TERM RECOMMENDATIONS







Consulting

EVALUATION

EVALUATION

A PVS EvaluationB PVS Evaluation Follow Up

PVS Self-Evaluation PVS Evaluation (Aquatic)

Specific Content (e.g. PPR, rabies)

CHAPTER 1: Human, physical and financial resources

CHAPTER 2: Technical authority and capabilities

CHAPTER 3: Interaction with stakeholders

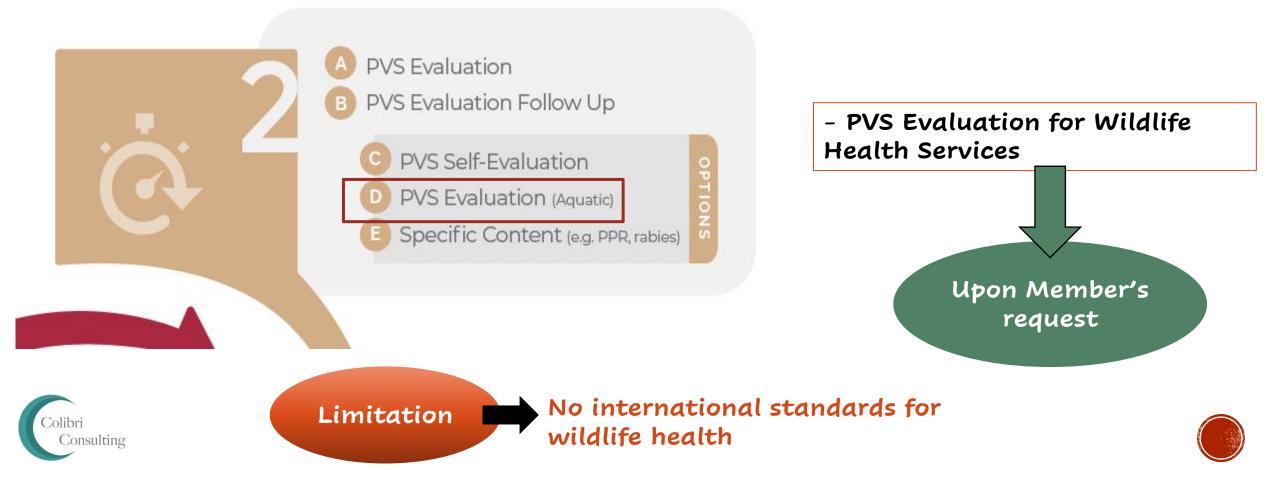
CHAPTER 4: Access to markets

Urgent needs for Global Wildlife Health (2020)	Proposed attributes of national wildlife health programmes (2018)	Relevant PVS Evaluation chapters and CCs
1/ Diagnostic and investigation		Chapter II: CC-II-1, CC- II- 2,CC-II-4
2/ Reporting	1/ Establishment and communication of the national wildlife health status	Chapter II: CC-II-4
	2/ Centralizing information and expertise	Chapter I: CC-I-3, CC-I-7 Chapter III: CC-III-1, CC-III-2, CC-III-6
3/ Planning and response	3/Leading national planning	Chapter I: CC-I-5 Chapter II: CC-II-5
4/ Health supportive and disease preventive development strategies		Chapter II: CC- II-6
	4/ Developing national networks leading to harmonization and collaborations	Chapter I: CC-I-6
	5/ Developing wildlife health workforces	Chapter I: CC-I-1, CC- I-2
	6/ Centralizing administration and management of national programmes	Chapter I: CC-I-4, CC-I-6 Chapter III: CC-III-6



EVALUATION

EVALUATION

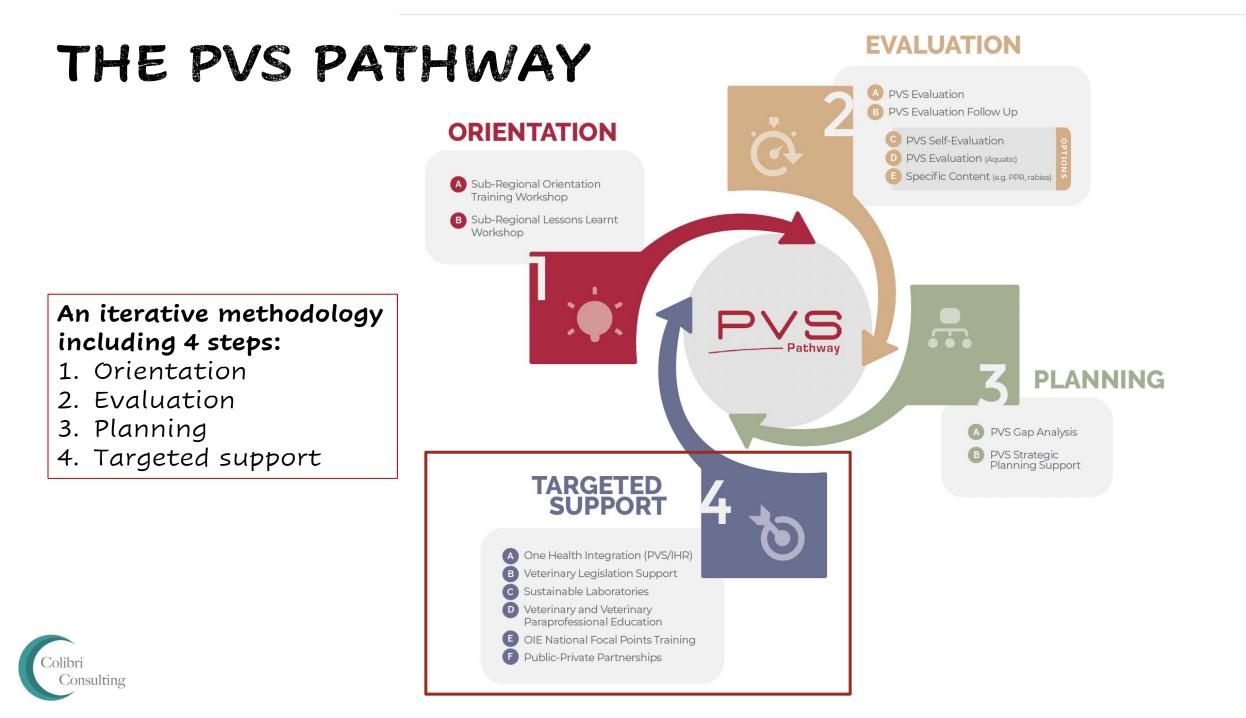


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Adapted from Hanish *et al. (2012)*







TARGETED SUPPORT

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One Health Integration (PVS/IHR)

- Veterinary Legislation Support
- Sustainable Laboratories
- Veterinary and Veterinary Paraprofessional Education
- OIE National Focal Points Training
- Public-Private Partnerships

Need assessment for Wildlife Health program

Country Assessment for Environmental Health Services

Environment assessment tools including wildlife.

→ Should be done in partnership with an international environmental organisation (UNEP, FAO, both?).

3

- Integration of Wildlife sector in the National Bridging Workshop:
 - Recommendation from PVS evaluation
 - Development of specific simulation exercises



FAO environment assessment tool

FOOD FOR THOUGHT...

Consulting

THE ONE HEALTH CONCEPT

The Performance of Human Health Services: (JEE, SPAR)

