





### Stakeholder Consultation on Progressive Management Pathway (PMP) to Improve Aquaculture Biosecurity

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# What is a Progressive Control Pathway (PCP)?

Step-wise approaches are increasingly used for the **reduction**, **elimination** and **eradication** of a range of major livestock and zoonotic diseases including:

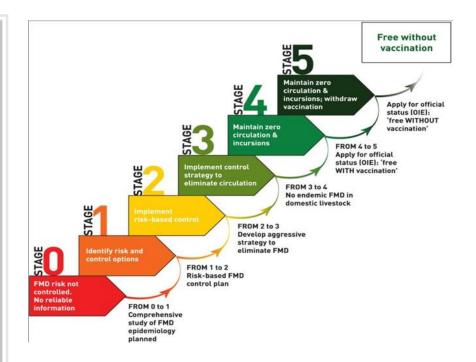
- Foot and Mouth Disease (FMD)
- Peste des Petits Ruminants (PPR)
- Rabies
- African Animal Trypanosomosis (AAT)

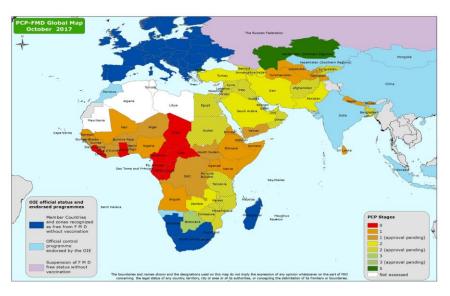
PCPs provide systemic frameworks for **planning** and **evaluating** field interventions and **enable** realistic disease control objectives to be defined and achieved.

PCPs have been used since 2008 by FAO and become adopted as joint tools with the OIE (FMD, PPR), or developed/owned by global alliances (rabies, AAT)

#### PCP - FMD

- Developed by FAO and EuFMD in 2008
- 5 stages that progressively increase the level of FMD control
- Consist of set of activities focused on identifying and addressing the risk for FMD introduction and spread
- Intended to assist FMD-endemic countries to progressively reduce the impact and burden of FMD





### PCP-FMD – the motor of the Global Control Strategy for FMD

#### Application - Global, National and Regional approach

#### Global

#### GF-TADs FMD WG

Developed the GS and coordinates its implementation

#### Global **Network**:

- Network of FAO/OIE FMD Reference Lab
- Global Expert Group

Development of resource documents

#### **National**

#### PCP-FMD guiding tool

Countries' investment, political will, control plans (FAO, OIE, EuFMD and donor support)

Performance of veterinary services (PVS)

Promotion of success stories and in country support

#### Regional

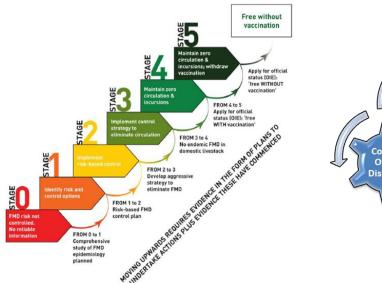
### Regional **roadmap** meetings

Regional laboratory and epidemiology **networks** 

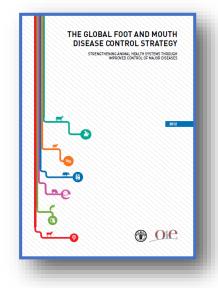
#### Regional **proficiency**

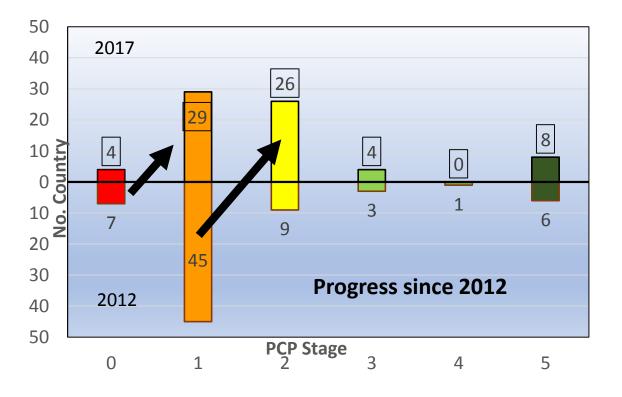
test panels

Regional **collaboration**and **transparency**,
including cross border issues









#### Supporting implementation (PCP-FMD):

#### **E-learning courses**

- What is PCP (1hr): short course which introduces key features and principles of the PCP for FMD Control (PCP-FMD)
- <u>Introduction to PCP</u> (6hr): introduces the PCP in more detail. It has six modules which aim to answer common questions related to the PCP
- Other <u>e-learning thematic courses</u>: Post Vaccination Monitoring,
   FMD investigation, FMD socio-economic impact, FMD risk along the value chain, FMD Laboratory investigation

#### **Networks**

- PCP practitioner network: a tailored training covering all aspects of working on FMD control through the PCP-FMD. Participants are able to choose from a combination of webinars, discussion fora and interactive training exercises, and a different topic is covered each month.
- Other networks: modelling, contingency planning, biorisk, East African FMD Regional Laboratory Network, Réseau francophone pour le contrôle de la fièvre aphteuse

#### **Country focused support**

- Workshop series based on expected PCP Stage achievements
- Distant support (<u>PCP support officers</u>)













Study one of our open access courses today:







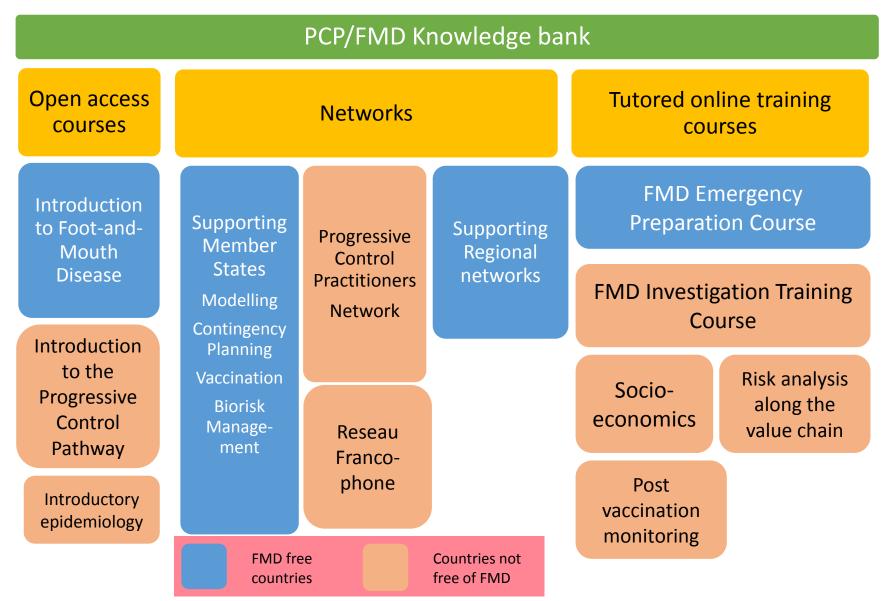








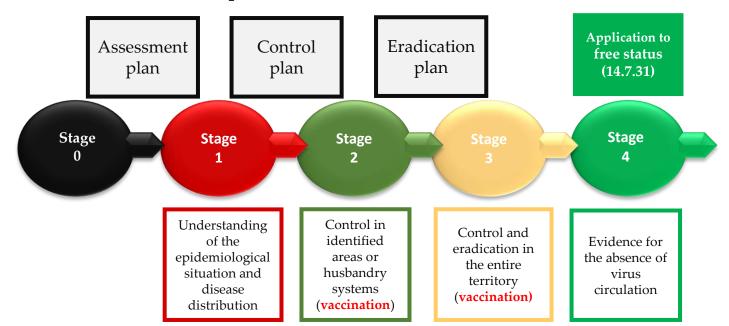
### Thousands of learners have now taken online training — at relatively low cost

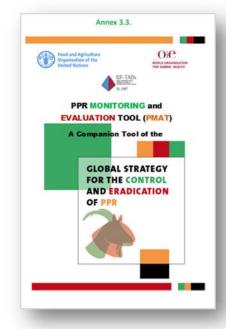


### PCP - PPR



The Stages correspond to a combination of decreasing levels of epidemiological risk and increasing levels of prevention and control

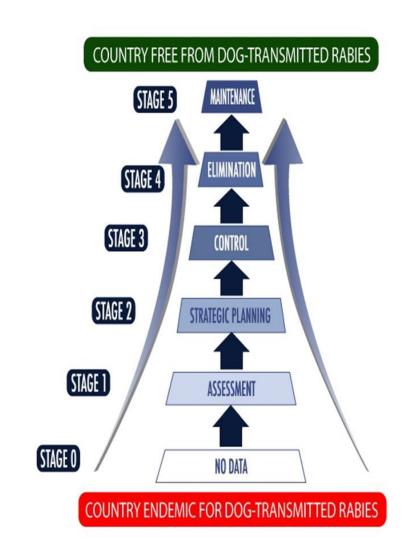




### SARE tool – for Global Rabies Control

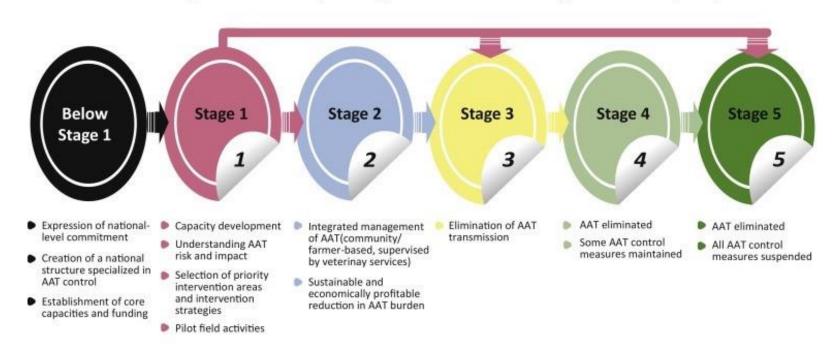
- Serves as a self-assessment and a practical guide in developing a national rabies programme
- Consists of specific activities that provide measurable steps in a chronological order
- Provides practical guidance and examples of how to implement rabies control activities

The SARE score shows clear progress (or lack thereof)



#### Progressive control pathway for African animal trypanosomosis (AAT)

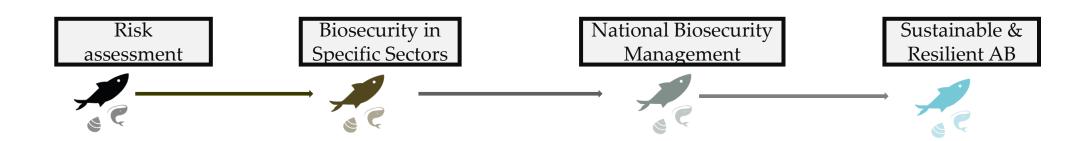
### PCP - AAT

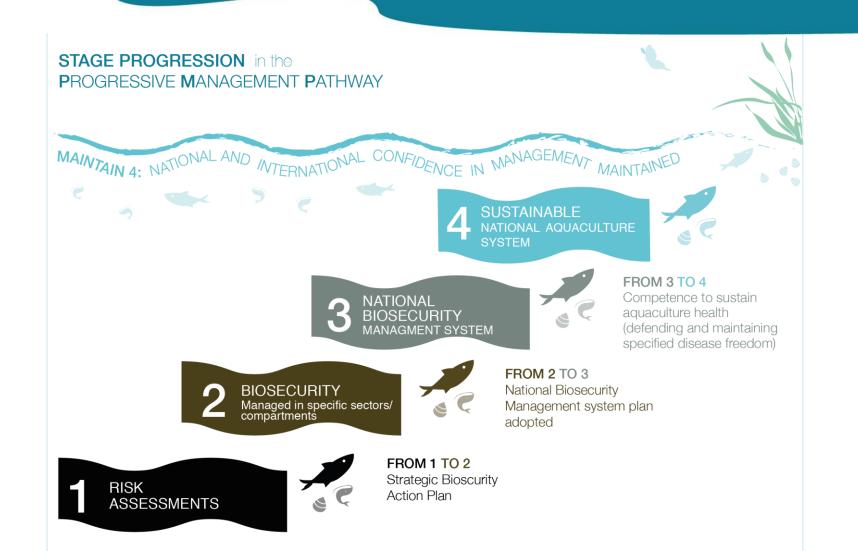


- 5 stages and a pre-entry level called 'below Stage 1'
- To move from one stage to the next, a set of minimum requirements must be met and a detailed plan implemented in the following stages is prepared
- Independent validation is required
- PCP provides donors with a robust tool to monitor and evaluate progress and impacts, and gives them confidence in supporting AAT-endemic countries

- PMP focuses on **building management capacity** through a bottomup approach with **strong stakeholder involvement** to promote the application of risk management at producer level as part of the national approach
- Useful tool to establish a National Biosecurity Management
   System
- Capable to generate early warning information from monitoring and surveillance activities contributing to the notification to OIE (WAHIS)

- 4 Stages which lead to a sustainable and resilient national aquaculture system
- To move from one stage to another a set of **minimum entry requirements** must be met and a detailed plan for implementation in the following stage must be prepared
- 'gateway passes' are usually in the form of **Biosecurity Action**Plan





- May be applied at a National level, or targeted geographically
- Each stage has **well-defined outcomes** which are achieved through a variety of activities
- Evidence based and transparent assessment of stage of a country (or zone) proposed through data collection and audits
- **Fast-track system** can be considered for enter into advanced stages (providing evidence for meeting stages entry requirements)



#### PMP Stage 1 focus -

- Creation of a national strategy that has confidence and support of the stakeholders (private and public)
- Addresses principal hazards and risks that affect aquaculture health and production
- Aim common agreement on a long term vision
- Each country will need to complete its
   Strategic Biosecurity Action Plan
   which will be the 'gateway pass' to enter
   Stage 2

**Stage 1**: Gain understanding of level of Biosecurity by doing a preliminary assessment and develop a **Risk Assessment**Develop a Risk Assessment:

- **Identify hazards**: pathogens, mapping risks and gaps in the system, identify any negative impact on the ecosystem
- Periodic checks e.g. every trimester or every 6 months
- Development of **Strategic Biosecurity Action Plan** in order to progress to Stage 2

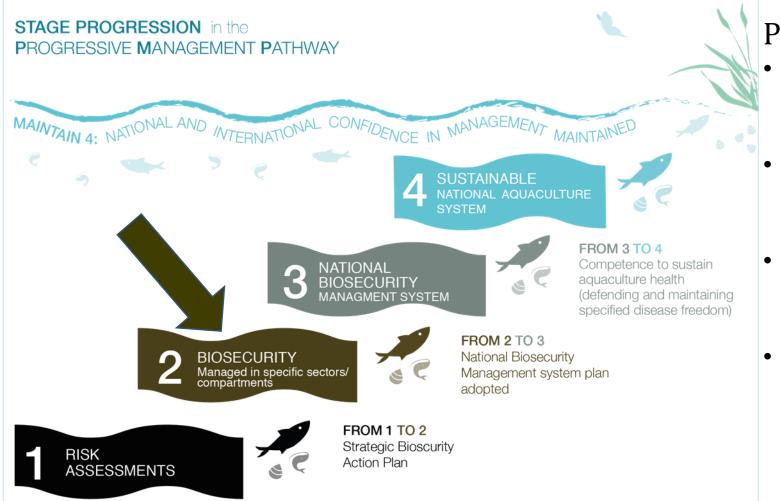


**Stage 1**: Achievements

At National level, public/private task force

Establish co-regulation and co-ownership of the pathway between public and private sector stakeholders





#### PMP Stage 2 focus -

- Implementation of a Biosecurity
   Action Plan in specific sectors/compartments
- **Co-management** is expected to continue and strengthen the implementation and the improvements
- Should this stage move forward additional biosecurity efforts at ports and borders must be included
- Countries will need: evidence Strategic Biosecurity Action Plan implementation,
   & commitment through a National Biosecurity Management System in order to enter Stage 3

### **Stage 2**: Implementation of Biosecurity

This should be achieved by giving constant training to all involved parties (private and public)

Evidence of implementation is done through:

- Inspections/Surveillance
- Monitoring
- Reporting
- Evaluation

Once a certain threshold is achieved through a combination of all of the above, it would be the gateway to Stage 3. All the achievements must be monitored and evidenced in order to move forward to **Stage 3** 

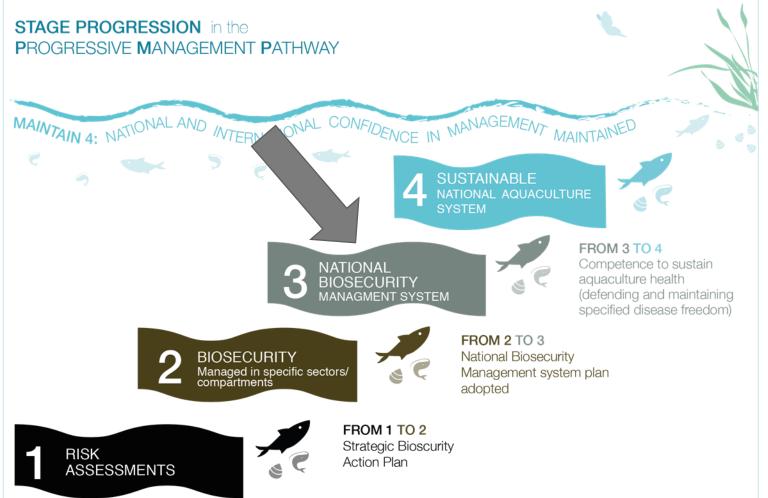


### **Stage 2**: Achievements

Task force to monitor and evaluate progress in engagement with enterprise and sector levels

- Evidence of sufficient stakeholder application of Biosecurity Plan
- Evidence that task force is effective and problems encountered are being addressed





#### PMP Stage 3 focus -

- Zoning, restrictions of movement and reporting of any disease/emerging problems through constant surveillance should be in place
- Once the management system is found to be capable to sustain the Aquaculture health by defending and maintaining specific disease freedom it can move forward to Stage 4



**Stage 3**: National safeguarding and sustaining progress

The management capacity should be sufficient to safeguard the level of investments (private and public entities)

Disease/risks should be managed by a combination of:

- Public efforts
- Policies
- Legislation
- Producer interest and engagement

At this stage specific diseases should be under control within the country, with sufficient attention and actions taken against any posed threats



• The **maturity of the system** for monitoring Aquaculture health, specific diseases, evidence of stakeholders support and their participation in achieving this progress are required to move onto **Stage 4**.

The system is expected to be an integral part of a **National Policy** and plan for Aquaculture, and addressing the system, roles and responsibilities required to safeguard health of the sector, consumer and the environment.



### **Stage 3**: Achievements

National, multi agency task force with capacity for effective regulation of Biosecurity change with producers



- Evidence of performance indicators for a functional national system which addresses risks
- Increase systematic surveillance
- Evidence of health status pathogen freedom





#### PMP Stage 4 focus -

- End stage Achievement of a Sustainable and Resilient National Aquaculture System acquired through the capacity to maintain confidence, biosecurity system, emergency preperdness and preventive measures
- All these activies must be co-ordinated and maintained, otherwise a 'downgrading' of the PMP status may result



### **Stage 4**: Achievements

National long term commitment of maintenance of the system for Aquaculture and Ecosystem



- Evidence of National policy supported in law with legal and financial commitments
- Evidence base supports confidence in National Aquaculture and Ecosystem health, and in capacity to prevent and respond to any threat at National level



#### **Benefits of the PMP**

- At National level it addresses the lack of clear national plans through a focus on: national strategy development processes, mid- to long-term and promoting a co-management approach
- Brings stakeholders together with a variety of benefits
- Builds the basis for national, public and private comanagement of Biosecurity



#### **Global Action Plan**

The approach taken by other PCPs of promoting national uptake through regional meetings, where countries assess their likely rate of change, over a 15-20 year period. The Global Strategy for FMD for e.g. foresaw that countries would progress 2 stages over a 15 year period, ensuring that all countries would be at least in Stage 3 after 15 years - a significant increase in control level.



### PMP Stages: example of progress planned (and ACTUAL)

**PLANNED** 

PMP	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
1										
2										
3										

**ACTUAL** 

PMP	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
1										
2										<b>A</b>
3										

PMP stage Reversal: (producers withdrew)

PMP stage 1 achieved in 2 years AS PLANNED.

Entry into PMP2 after joint evaluation (JE) in 2021.

ACTUAL implementation LONGER THAN EXPECTED; meeting criteria for PMP3 ONLY in 2026

In 2028, co-regulation lost as main sectors of producers withdrew from the national system, forcing suspension then loss of PMP stage 3.

### Progressively – we can improve biosecurity



### Thank you

- Appreciation
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  - Koen Mintiens
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  - Enrique Anton
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