



Food and Agriculture  
Organization of the  
United Nations

FMM/RAS/298: Strengthening capacities, policies and national action plans on  
prudent and responsible use of antimicrobials in fisheries Final Workshop  
in cooperation with AVA Singapore and INFOFISH

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## Group 3

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# FOCUS AREA 1. BEST PRACTICES

Best Practices	responsibility	Time-frame	Priority	Level	Funding s.
<b>Improving BIOSECURITY</b>  Capacity building, expertise, continuous education for the staff of the competent authorities and the producers (farmers)	Academe, FAO, government, private sector.	Government working with farmers  Farmers: Close containment systems (inland): 2years Open systems (rivers/sea): 2-5 years	High	National/re gional	Gov, international organizations (FAO, EU, Regional banks, Standard Trade Facility, USAID, WB), private sector
<b>PRUDENT USE OF ANTIMICROBIALS</b>	Gov, fish health professionals, vet association, farmers	Medium:2-5 y	High	National	Gov
<b>DISEASE MANAGEMENT SUPPORT (communication, laboratory system and legislation)</b>  Establishment of a remote supporting mechanism to facilitate the communication between the farmers and the veterinarians for the early diagnosis. Farmers will send images of sick fish to vet, who then gives advice on samples to send to confirm diagnosis. Validation of diagnostic methods, ring test/proficiency testing.	Private sector or gov, extension services, depending on the country.	Long term: 5+ years	High	National/re gional	Gov, international organizations, donors (FAO, EU, Regional banks, Standard Trade Facility, USAID, WB), private sector (including private laboratories)

# FOCUS AREA 2. GOVERNANCE

Governance	Responsibility	Time frame	Priority	Level	Funding
<p><b>Myanmar</b></p> <p><b>Development of clear regulation and capacity building</b></p> <p>Changes in the government structure has resulted in lack of clarity in regulations for Aquaculture (e.g. export to EU) and lack of technical knowledge</p>	Government/regulator in consultation with the stakeholders	Medium: 3 year for capacity building	High	National and regional	Gov, international organizations, donors (FAO, EU, Regional banks, Standard Trade Facility, USAID, WB)
<p><b>All countries (Singapore, Myanmar, Indonesia, Malaysia)</b></p> <p><b>Integration of the AMR Plans (surveillance and use of antimicrobials) in all sectors (one health approach, human and animal sector should be integrated)</b></p>	Government, human and vet institutions, academia	Short	High	National	Gov, international organizations (FAO, EU, Regional banks, Standard Trade Facility, USAID, WB), donors
<p><b>All</b></p> <p><b>Capacity building for staff of competent authorities</b></p>	Government	Short	High	National and regional	Gov, international organizations (FAO, EU, Regional banks, Standard Trade Facility, USAID, WB), private sector



# FOCUS AREA 3. AWARENESS

AWARENESS	responsibility	Time-frame	Priority	Level	Funding
<p>Different levels of continuous professional specific education</p> <p>Establishment of education programmes for young children, technical secondary schools, to universities</p>	Gov, academic institutions	short term: continuous	Depending on the subject: Prudent use: high Fish disease courses: medium	National	Gov, international donors (FAO, EU, Regional banks, Standard Trade Facility, USAID, WB), international org, private sector
<p>Communication campaign to promote the responsible use of antibiotics and consequences of AMR</p>	Gov, Public veterinary and human health institutions, hospitals, academic institutions, international orgs (FAO, OIE, EU)	Short:1-2 y	High	National	Gov (national programmes), international donors (FAO, EU, Regional banks, Standard Trade Facility, USAID, WB), international org (FAO, OIE, EU), private sector



# FOCUS AREA 4. EVIDENCE

EVIDENCE	Responsibility	Time-frame	Priority	Level	Funding
Surveillance, monitoring and record keeping					
<ul style="list-style-type: none"> <li>Disease surveillance and AMR</li> </ul>	Govt and academics	Short	medium	National and regional	Gov and international donors, international org (FAO, EU, Regional banks, Standard Trade Facility, USAID, WB)
<ul style="list-style-type: none"> <li>AMU</li> </ul>	Gov (to collect and manage the data), farmer and distributor, manufacturer (private sector)	Short	high	National	Gov, private sector (drug companies)
<ul style="list-style-type: none"> <li>Publishing data</li> </ul>	Govt, academic institutions (researchers), international institutions (OIE)	Medium	medium	regional	Gov, international institutions, international org (FAO, EU, Regional banks, Standard Trade Facility, USAID, WB)



Thank you!

