

# **Alternative strategies to the use of antibiotics in aquaculture**

**Two main strategies;**

- 1. Ensure proper use of antibiotics**
- 2. Find alternatives to antibiotics**

# 1. Proper use of Antibiotics

## Problem;

- Indiscriminate use of Antibiotics (Ab's)
- Inappropriate dosing

## Solution;

- Education and training to users
- Regulated supply of Ab's
- More basic & applied research on Ab use

# 1. Education and training

- Provide manuals for Ab use (farmer friendly)
- Access to field experts
- Farms to be locally networked supported by government
- Certification of farms?

# 1. Regulated supply of antibiotics

- Smaller amounts of Ab's to be commercially available
- Proper enforcement of appropriate Ab use
- Prescription only?

# 1. Research on Antibiotic use

- Basic research into Ab resistance
- Test effectiveness of new Ab strategies

## **2. Find alternatives to Antibiotics**

**Examples;**

- **Probiotics**
- **Vaccines**
- **Immunostimulants**
- **Good husbandry to prevent disease**
- **Traditional herbs?**

## 2. Find alternatives to antibiotics

### Problem;

- Lack of research
- Lack of resources

### Solution;

- More research & government led support

## **2. Research & government support**

- **Fund research into Ab alternatives**  
- in vitro studies & field trials
- **Government to support good husbandry initiatives**
- **Fast tracking of licences for new therapies**
- **Ensure appropriate regulation of new treatments**