



- > Subcategorization of aquatic animals in the ANIMUSE questionnaire
- > Highlights of the global survey on AMU/AMR in aquaculture Europe





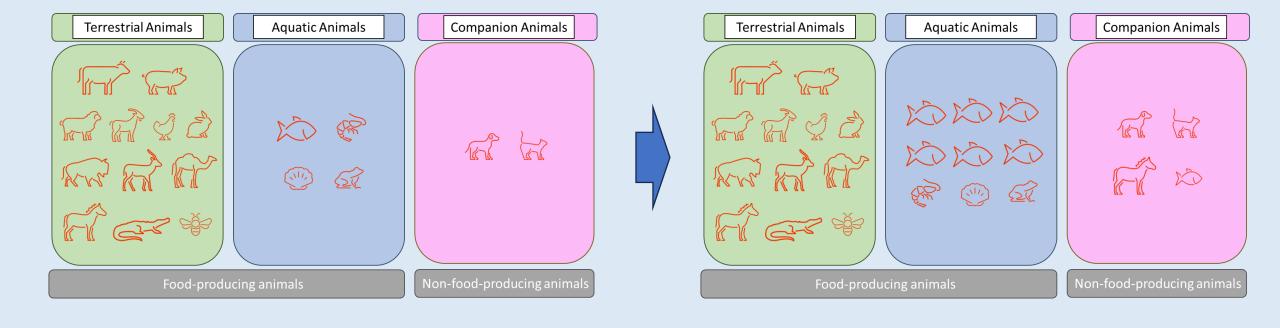
- > Subcategorization of aquatic animals in the ANIMUSE questionnaire
- Highlights of the global survey on AMU/AMR in aquaculture Europe



From 7<sup>th</sup> Round

# Animals targeted in WOAH AMU report

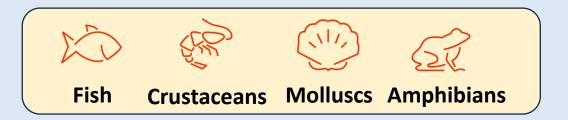
## **Until 6th Round**

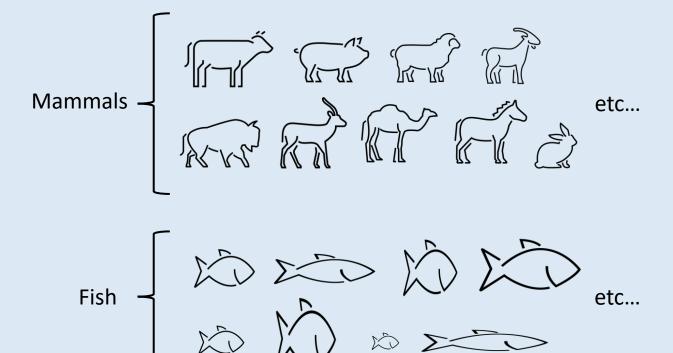




## Rationale for sub-categorizing aquatic animals targeted in WOAH AMU report

## Categorization of Aquatic Animals until the 6th Round





## Aquaculture diversity

- > 24 main fish species (out of 313 cultured species)
- > 8 main crustacean species (out of 49 cultured species)





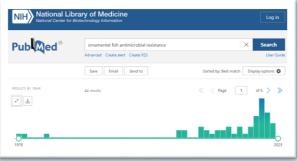
# World production of major aquaculture fish and crustacean species

**FISH CRUSTACEANS** 

Cichlids	Cyprinids	Salmonids	Siluriformes	Marine	Other
Nile tilapia: 4.5	Grass carp: 5.8	Atlantic salmon*: 2.7	Striped catfish: 2.5	Mullets nei: 0.3	Milkfish*: 1.2
Tilapias nei: 1.1	Silver carp: 4.9	Rainbow trout: 1.0	Clarias catfishes: 1.2	Gilthead seabream: 0.3	Largemouth black bass: 0.6
	Common carp: 4.2	Coho salmon: 0.2		Large yellow croaker: 2.5	Barramundi*: 0.1
	Catla: 3.5			European seabass: 2.4	
	Bighead carp: 3.2			Groupers nei: 0.2	
	Carassius spp.: 2.7			Japanese seabass: 0.2	
	Roho labeo: 2.5			Pompano: 0.2	
	Wuchang bream: 0.8			Japanese amberjack: 0.1	
	Black carp: 0.7				
5.6	28.3	3.9	3.7	6.2	1.9

Penaeids	Other
Whiteleg shrimp: 5.8	Red swamp crawfish: 2.5
Giant tiger prawn: 0.7	Chinese mitten crab: 0.8
	Giant river prawn: 0.3
	Indo-Pacific swamp crab: 0.2
	Oriental river prawn: 0.2
	Green mud crab: 0.2
6.5	4.2

## Ornamental fish and AMR

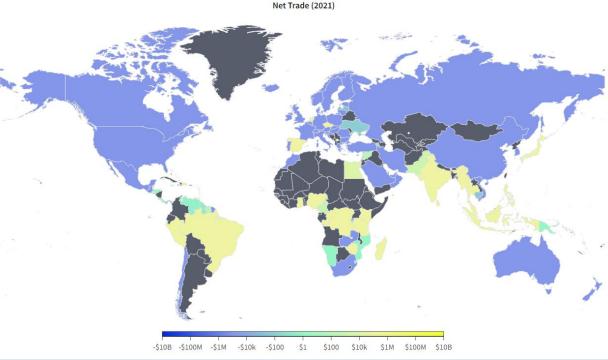




factors that are related to the ornamental fish-borne Aeromonas pathogenicity

and the antimicrobial resistance determinants related to the multidrug





Source: The Observatory Economic Complexity



# Modifications on fish and crustacean species in AMU global data collection Template











Non food-producing animal species covered by

food-producing animals, if your response to

Question 27 is 'Other'

information on antimicrobial quantities    Gattle   Pigg - commercial   Pigg - backgoard     Sheep   Goats     Sheep and goats (mixed flocks)     Layers - commercial production for eggs     Roviters - commercial production for meat     Other commercial production for meat     Description   Pountry - backgoard     Puttings   Pountry - backgoard     Carvidase (farmed)     Carvidase (farmed)     Carvidase (farmed)     Carvidase (farmed)     Reptiles (ap crocofiles)     Other terrestrial food-producing animals     All - terrestrial food-producing animals	25	Food-producing animal species covered by the	Terrestrial food-producing animals	Please indicate which food-producing animals are
Figs - commercial				covered by the data. Multiple selections are
Sheep   Gosts     Cause   Sheep and gosts (mixed flocks)     Layers - commercial production for eggs     Broilers - commercial production for meat     Other commercial production for meat     Carmelidae   Georgia			Pigs - commercial	possible.
Goate   Sheep and goats (mixed flocks)   Liyers - commercial production for eggs   Proleter - commercial production for meat   Pige - commercial polity including piglets, fattening pigs and breeding pigs   Sheep/goats (mixed flocks): use this option only if there are mixed flocks and you cannot differentiate between sheep and goats in your office remixed flocks and you cannot office remixed floc			Pigs - backyard	
Sheep and goats (mixed flocks)   For the purpose of this database, the following terms are defined:   Layers - commercial production for eags   Broilers - commercial production for eags   Coher commercial production for meat   Coher commercial pountry   Pountry - backyard   Coher commercial pountry   Coher			Sheep	
Sheep and goats (mixed foolds)			Goats	e de constant de const
Broilers - commercial production for meat   pigs - commercial polity   pigs - commercial polity   pigs - commercial polity   pigs and breeding pigs   Sheep/goats (mixed flocks): use this option only if there are mixed flocks and you cannot differentiate between sheep and goats in your County   pigs - commercial polity; the risoldes trukey, duck, geese, quall, guinea fowl, pheasant, pigeon, ostrich, etc. in commercial production.   Poutry - backyard: poutry includes trukey, duck, geese, quall, guinea fowl, pheasant, pigeon, ostrich, etc. in commercial production.   Poutry - backyard: poutry including chickens and hens in backyard or village flock crosses.   Rabbits   poption only if all terrestrial food-producing animals (see go. crocodiles)   Pigs - commercial, pigs - backyard, etc.) were included in the information on antimicrobial quantities.   All terrestrial food-producing animals   All terrestrial food-producing animal			Sheep and goats (mixed flocks)	terms are defined:
Define commercial polarity			Layers - commercial production for eggs	
Buffalos (excluding Syncerus caffer)  Buffalos (excluding Syncerus caffer)  Carvidae (farmed)  Camelidae  Equidae  Rabibts  Bees - honey  Repriles (e.g. crocodiles)  Other terrestrial food-producing animals  All - terrestrial food-producing animals  Aquatic food-producing animals (aquaculture)  Fish - Cyprinidae  Fish - Silmoindae  Fish - Cyprinidae, Fish - Salmonidae  Fish - Cyprinidae, Fish - Salmonidae, Crustaceans - Penaeidae  Molluscs  Amphibians  Other aquatic food-producing animals (aquaculture)			Broilers - commercial production for meat	pigs and breeding pigs
Pouttry - backyard   Furtiales (excluding Syncerus caffer)   Carvidae (farmed)   Carvidae (farmed)   Camelidae   Equidae   Rabbits   Restiles (e.g. crocodiles)   Other terrestrial food-producing animals   Other   All terrestrial food-producing animals   Aquatic food-producing animals (aquaculture)   Fish - Cipinidae   Fish - Marine   Molluscs   Amphibians   Other aquatic food-producing animals (aquaculture)   Country Other cannot be tween sheep and goats in your country (Other country) (Other cannot be subject to the country of the			Other commercial poultry	Sheep/goats (mixed flocks): use this option only if
Other commercial polity: it includes turkey, duck, geese, qual, guinea fowl, phesant, pigeon, ostrich, etc. in commercial production.  Poultry - backyard: poultry includes turkey, duck, geese, qual, guinea fowl, phesant, pigeon, ostrich, etc. in commercial production.  Poultry - backyard: poultry including chickens and a production of the production on it all terrestrial food-producing animals used in question 25 (e.g. cattle, pigcommercial, pigs-backyard, etc.) were included in the information on antimicrobial quantities.  All terrestrial food-producing animals  Other terrestrial food-producing animals  All terrestrial food-producing animals  All terrestrial food-producing animals  Aquatic food-producing animals (aquaculture)  Fish - Cyprinidae  Fish - Salmonidae: carp, etc. Fish - Siluriformes: catfish, etc.  Crustaceans - Penaeidae: marine shrimp/prawn.  All - aquatic food-producing animals (aquaculture): use this option only if all aquatic food-producing animals (aquaculture): use this option only if all aquatic food-producing animals (aquaculture): use this option only if all aquatic food-producing animals (aquaculture): use this option only if all aquatic food-producing animals (aquaculture): use this option only if all aquatic food-producing animals (aquaculture): use this option only if all aquatic food-producing animals (aquaculture): use this option only if all aquatic food-producing animals (aquaculture): use this option only if all aquatic food-producing animals (aquaculture): use this option only if all aquatic food-producing animals (aquaculture): use this option only if all aquatic food-producing animals (aquaculture): use this option only if all terrestrial food-producing animals (aquaculture): use this option only if all aquatic food-producing animals (aquaculture): use this option only if all terrestrial food-producing animals (aquaculture): animals animals animals animals animals animals animals animals			Poultry - backyard	differentiate between sheep and goats in your
Camelidae    Equidae     Equidae     Rabbits     Bees - honey     Reptiles (e.g. crocodiles)     Other terrestrial food-producing animals     All terrestrial food-producing animals     All terrestrial food-producing animals     All terrestrial food-producing animals     All terrestrial food-producing animals     Aquatic food-producing animals     Fish - Ciphridae     Fish - Salmonidae			Buffaloes (excluding Syncerus caffer)	Other commercial poultry: it includes turkey
Camelidae    Equidae     Equidae     Rabbits     Bees - honey     Reptiles (e.g. crocodiles)     Other terrestrial food-producing animals     All terrestrial food-producing animals     All terrestrial food-producing animals     All terrestrial food-producing animals     All terrestrial food-producing animals     Aquatic food-producing animals     Fish - Ciphridae     Fish - Salmonidae			Cervidae (farmed)	duck, geese, quail, guinea fowl, pheasant, pigeon,
Equidae: horses, donkeys and their crosses.  Rabbits  Rabbits  Restribles (e.g. crocodiles)  Other terrestrial food-producing animals  Other  All terrestrial food-producing animals  Other  All terrestrial food-producing animals  All terrestrial food-producing animals  All terrestrial food-producing animals  All terrestrial food-producing animals  Aquatic food-producing animals (aquaculture)  Fish - Salmonidae: salmon, trout, etc. Fish - Salmonidae: marine shrimp/prawn.  All - aquatic food-producing animals (aquaculture)  Fish - Sprinidae  Fish - Siluriformes: catfish, etc.  Crustaceans - Penaeidae: marine shrimp/prawn.  All - aquatic food-producing animals listed in question 25 (e.g. Fish - Solimidae, Fish - Salmonidae, Crustaceans - Penaeidae, Molluscs, etc.) were included in the producing animals listed in question 25 (e.g. Fish - Sulmformes  Fish - Siluriformes  Fish - Siluriformes  Other aquatic food-producing animals (aquaculture)  The ciphidae is almon, trout, etc. Fish - Siluriformes: catfish, etc.  Crustaceans - Penaeidae: marine shrimp/prawn.  All - aquatic food-producing animals laquaculture)  The ciphidae is almon, trout, etc. Fish - Siluriformes: catfish, etc.  Crustaceans - Penaeidae: marine shrimp/prawn.  All - aquatic food-producing animals laquaculture)  The ciphidae is almon, trout, etc. Fish - Siluriformes: catfish, etc.  Crustaceans - Penaeidae: marine shrimp/prawn.  All - aquatic food-producing animals laquaculture)  The ciphidae is almon, trout, etc. Fish - Siluriformes: catfish, etc.  Crustaceans - Penaeidae: marine shrimp/prawn.  All - aquatic food-producing animals laquaculture)  The ciphidae is almon, trout, etc. Fish - Siluriformes: catfish, etc.  Crustaceans - Penaeidae  Fish - Siluriformes: catfish, etc.  Fish - Silu			Camelidae	Poultry – backyard: poultry including chickens and
option only if all terrestrial food-producing animals listed in question 25 (e.g. cattle, pigs commercial, pigs - backyard, etc.) were included in the information on antimicrobial quantities.  Other terrestrial food-producing animals Other All terrestrial food-producing animals All - terrestrial food-producing animals All - terrestrial food-producing animals All - terrestrial food-producing animals Aquatic food-producing animals Aquatic food-producing animals (aquaculture) Fish - Cyprinidae Fish - Salmonidae Fish - Cyprinidae Fi			Equidae	Equidae: horses, donkeys and their crosses.
Reptiles (e.g. crocodiles)  Other terrestrial food-producing animals  Other All terrestrial food-producing animals  All - terrestrial food-producing animals  Aquattic food-producing animals (aquaculture)  Fish - Cyprinidae: salmon, trout, etc. Fish - Salmonidae: salmon, trout, etc. Fish - Siluriformes: catfish, etc.  Crustaceans - Penaeidae: marine shrimp/prawn.  All - aquatic food-producing animals (aquaculture)  Fish - Cyprinidae  Fish - Siluriformes: catfish, etc.  Crustaceans - Penaeidae: marine shrimp/prawn.  All - aquatic food-producing animals (aquaculture)  Fish - Gibriliae: use this option only if all aquatic food-producing animals listed in question 25 (e.g. Fish - Cyprinidae, Fish - Salmonidae, Crustaceans - Penaeidae, Molluscs, etc.) were included in the ormation on antimicrobial quantities.  Amphibians  Other aquatic food-producing animals (aquaculture)			Rabbits	option only if all terrestrial food-producing
the information on antimicrobial quantities.  Other terrestrial food-producing animals  Other  All terrestrial food-producing animals  All - terrestrial food-producing animals  Aquatic food-producing animals  Fish - Cichlidae: tilapia, etc. Fish - Siluriformes: catfish, etc.  Crustaceans - Penaeidae: marine shrimp/prawn.  All - aquatic food-producing animals (aquaculture)  Fish - Cichlidae  Fish - Siluriformes: catfish, etc.  Crustaceans - Penaeidae: marine shrimp/prawn.  All - aquatic food-producing animals (aquaculture): use this option only if all aquatic food-producing animals listed in question 25 (e.g. Fish - Cyprinidae, Fish - Salmonidae, Crustaceans - Penaeidae, Molluscs, etc.) were included in the food-producing animals (aquaculture): use this option only if all aquatic food-producing animals (aquaculture): use this option only if all aquatic food-producing animals (aquaculture): use this option only if all aquatic food-producing animals (aquaculture): use this option only if all aquatic food-producing animals (aquaculture): use this option only if all aquatic food-producing animals (aquaculture): use this option only if all aquatic food-producing animals (aquaculture): use this option only if all aquatic food-producing animals (aquaculture): use this option only if all aquatic food-producing animals (aquaculture): use this option only if all aquatic food-producing animals (aquaculture): use this option only if all aquatic food-producing animals (aquaculture): use this option only if all aquatic food-producing animals (aquaculture): use this option only if all aquatic food-producing animals (aquaculture): use this option only if all aquatic food-producing animals (aquaculture): use this option only if all aquatic food-producing animals (aquaculture): use this option only if all aquatic food-producing animals (aquaculture): use this option only if all aquatic food-producing animals (aquaculture): use this option only if all aquatic food-producing animals (aquaculture): use this option only if all aquati			Bees - honey	animals listed in question 25 (e.g. cattle, pig-
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Fish - Cyprinidae  Fish - Salmonidae  Fish - Salmonidae  Fish - Cichlidae  Fish - Siluriformes  Fish - Marine  Fish - Marine  Fish - Undefined  Crustaceans - Penaeidae  Molluscs  Amphibians  Other aquatic food-producing animals (aquaculture)  All - aquatic food-producing animals (aquaculture)				
(aquaculture): use this option only if all aquatic food-producing animals listed in question 25 (e.g. Fish - Cichlidae  Fish - Siluriformes  Fish - Marine  Fish - Marine  Crustaceans - Penaeidae  Molluscs  Amphibians  Other aquatic food-producing animals (aquaculture)				
Fish - Salmonidae  Fish - Cichilidae  Fish - Salmonidae, Crustaceans - Penaeidae, Molluscs, etc.) were included in the branch on antimicrobial quantities.  Fish - Marine  Fish - Undefined  Crustaceans - Penaeidae  Molluscs  Amphibians  Other aquatic food-producing animals (aquaculture)			Fish - Cyprinidae	
Fish - Siluriformes  Fish - Marine  Fish - Marine  Fish - Marine  Crustaceans - Penaeidae  Molluscs  Amphibians  Other aquatic food-producing animals (aquaculture)			Fish - Salmonidae	
Fish - Marine Fish - Marine Crustaceans - Penaeidae Molluccs Amphibians Other aquatic food-producing animals (aquaculture)			Fish - Cichlidae	Fish - Cyprinidae, Fish - Salmonidae, Crustaceans -
Fish - Marine Fish - Undefined Crustaceans - Penaeidae Molluscs Amphibians Other aquatic food-producing animals (aquaculture)			Fish - Siluriformes	
Crustaceans - Penaeidae  Molluscs Amphibians Other aquatic food-producing animals (aquaculture)			Fish - Marine	ormation on antimicrobial quantities.
Molluscs Amphibians Other aquatic food-producing animals (aquaculture)			Fish - Undefined	
Amphibians Other aquatic food-producing animals (aquaculture)			Crustaceans - Penaeidae	
Other aquatic food-producing animals (aquaculture)			Molluscs	V
			Amphibians	<b>"</b>
			Other aquatic food-producing animals (aquaculture)	
Other			Other	
All aquatic food-producing animals (aquaculture)			All aquatic food-producing animals (aquaculture)	
All - aquatic food-producing animals (aquaculture)			All - aquatic food-producing animals (aquaculture)	

Since Sep 2021 (7th round)

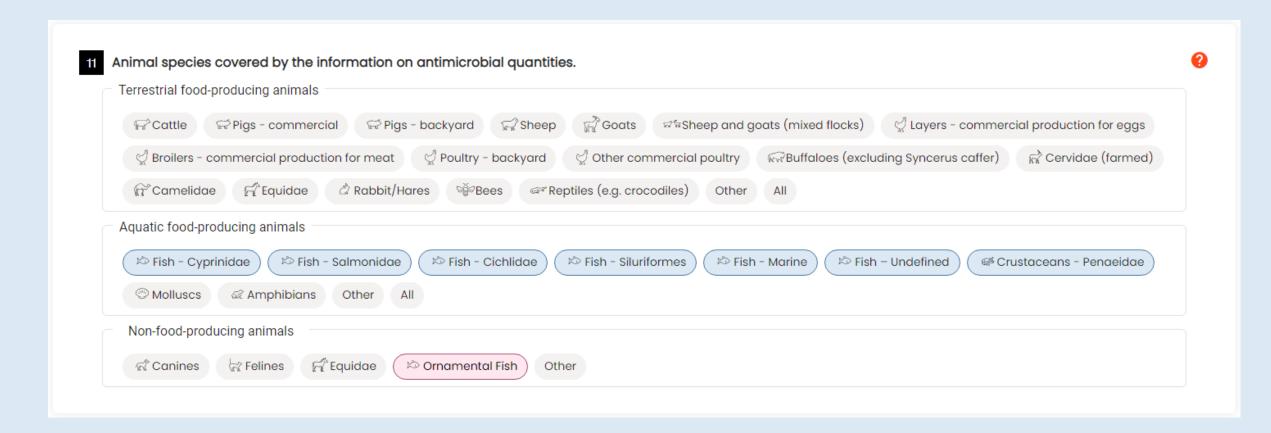
Other <free text field>

Please indicate which non food-producing animals are covered by the data. Multiple selections are



# Modifications on fish and crustacean species in ANIMUSE questionnaire

Since Sep 2022 (8th round)

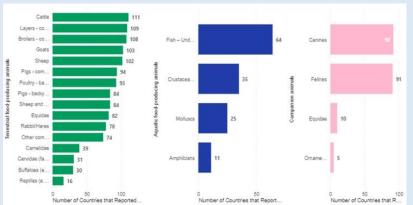


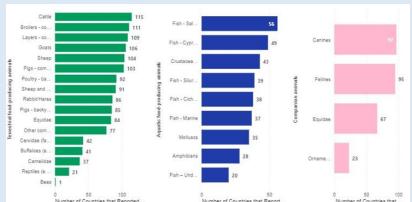


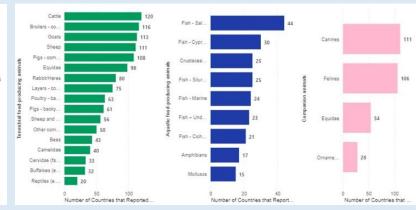
## Number of countries including aquatic animals in total AMU quantities

6<sup>th</sup> round 8<sup>th</sup> round

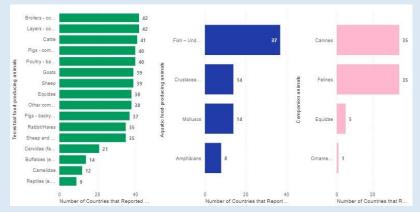
## **GLOBAL**

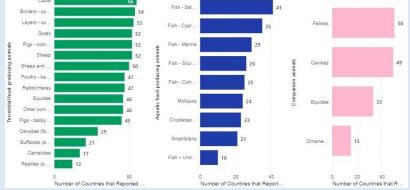


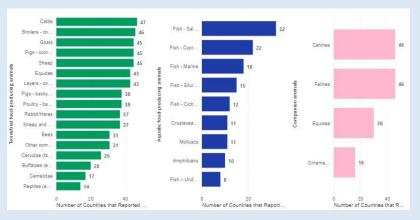




## **EUROPE**







- Subcategorization of aquatic animals in the ANIMUSE questionnaire
- > Highlights of the global survey on AMU/AMR in aquaculture Europe





#### **Focal Points for**

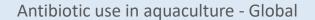
- Aquatic Animals
- **Veterinary Products**

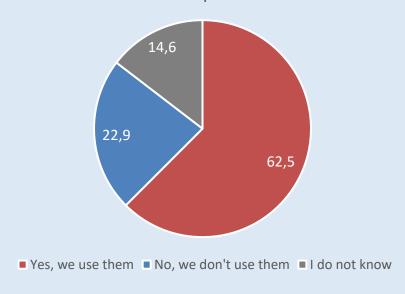
Support development of Formation Plan for FP on AMR in Aquaculture (needs/gaps and strengths in each Region)



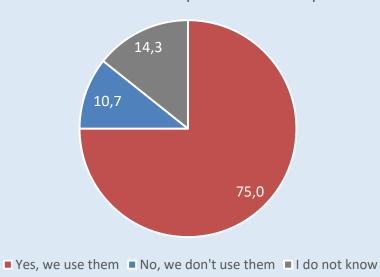
- A) General aquaculture profile
- B) Antimicrobial use and antimicrobial resistance in aquaculture profile
- C) Awareness and compliance to WOAH standards and tools related to AMU/AMR in aquatic animals
- D) Training needs on AMU/AMR in aquatic animals

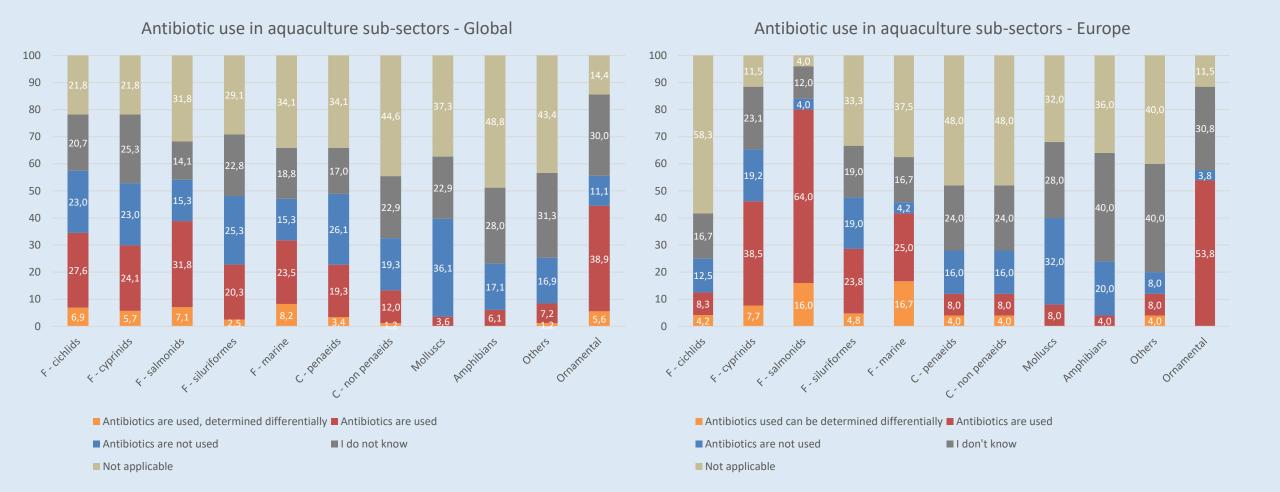
Region	FP-AA	FP-VP	Total FP	Total countries
Africa	25	17	42	31
Americas	22	14	36	24
Asia	15	7	22	19
Europe	30	15	45	33
Middle East	8	4	12	10
			157	117



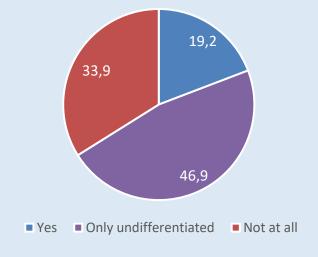


#### Antibiotic use in aquaculture - Europe

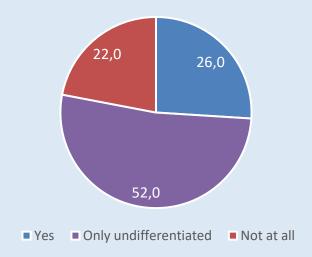




Report differentiated AMU quantities in aquatic animals to ANIMUSE- Global



Report differentiated AMU quantities in aquatic animals to ANIMUSE- Europe





#### Main difficulties to report AMU quantities in aquatic animals - Global



#### Main difficulties to report AMU quantities in aquatic animals - Europe



No data at field level, no regulations to collect these data, no regulations to disclose these data



# Thank you

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