Name of country \_\_\_\_\_ARUBA \_\_\_\_\_\_\_ Date of completion \_\_\_27/03/2018

| 0                                   |   |                             | 5:1  | Ple   | 5. C   | 0           | 0           | 0               | 0            | 0                                       | «            | 4.2  | О<br>Е  | 0  | •   |  | ) (  | 4.1.MI   | Ple    | 4.   | Na   | Nai   |  | <b>ာ</b> | 2. 7  |             |             |                   |   |              | 1.7  |
|-------------------------------------|---|-----------------------------|--|---|--|-------------|-------------|-----------------|--------------|---|--------------|--|---|--|---|--|--|--|--------|--|--|---|--|----------|---|-------------|-------------|-------------------|---|--------------|--|
| C                                   | د   <del>م</del>                            | Α                           | oun<br>Tu  | ase   | oun  | 5           | Fo          | ъ               | PI           | Αn                                      | Ŧ            | ξ  | $\vdash$  | 0  | ļ   | +  | -  | Mul  | ase    | Muli   | ne :   | me a  | vam  |          | am  |             |             |                   |   |              | Vam  |
| National AMR action plan developed. | National AMR action plan under development. | No national AMR action plan | 5.1 Country progress with development of a national action plan on AMR | Please select one rating that most closely matches the country situation. | 5. Country progress with development of a national action plan on antimicrobial resistance (AMR) | Environment | Food Safety | Food Production | Plant Health | Animal Health (terrestrial and aquatic) | Human Health | 4.2 Which sectors are actively involved in developing and implementing the AMR National Action Plan? | Integrated approaches used to implement the national AMR action plan. | Joint working on issues including agreement on common objectives, including restriction of use of critically important antimicrobials. | working group(s). Activities and reporting/accountability arrangements are defined. | Multi-sectoral working group(s) or coordination committee on AMR established with Government leadership. | No lotting that sectoral governatice of coordination mechanism exists. | 4.1 Multi-sector and One-Health collaboration/coordination | ntry s | 4. Multi-sectoral approach to addressing AMR | Name and email of OIE National Focal Point on veterinary productsメ | Name and email of AWR Focal Point in FAU country of regional office | 3. Name and email of Alvik Focal point in WHO country office |          | 2. Name(s) and contact details of person(s) who coordinated the national response to this self-assessment | Environment | Food Safety | Food Production X | Animal Health (terrestrial and aquatic) | Human Health | 1. Name and email of-existing AMR focal points for relevant sectors: |

# Global Monitoring of Country Progress on AMR (2.0) 2017 O D National AMR action plan approved by government the

| C | C | National Awik action plan approved by government that reflects Global Action Plan objectives, with an operational    |
|---|---|--|
|   |   | plan and monitoring arrangements.  |
| 0 | т | National AMR action plan has funding sources identified, is being implemented and has relevant sectors involved with |
|   |   | a defined monitoring and evaluation process in place.  |

## related to HIV, tuberculosis, malaria or neglected tropical diseases? 5.2 Is your country's national action plan on AMR linked to any other existing action plans, strategies or targets

| U                                |   |
|----------------------------------|---|
| Yes. If so                       |   |
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- ∘ HV
- o Tuberculosis
- Malaria
- Neglected tropical diseases

**≪** No

5.3 If you have published your AMR national action plan, please insert a link here. ......here.....

## communication, education and training. 6. Country progress on strategic objective 1: Improve awareness and understanding of AMR through effective

sectors, please select the appropriate rating for each sector separately, as indicated. Please select the rating (A-E) for each question that most closely matches the country situation. Please note that for each question, higher ratings are expected to have achieved the progress level covered in lower ratings (e.g. countries selecting "D" will have achieved progress listed in both "B" and "C" as well as "D"). For questions covering multiple

| 6.1 | ₽<br>Baje | 6.1 Raising awareness and understanding of antibiotic resistance risks and response in human health                              |
|-----|-----------|--|
| 0   | A         | O A No significant awareness-raising activities on antibiotic resistance.  |
| 0   | В         | O B Some activities in parts of the country to raise awareness about risks of antibiotic resistance and actions that can be      |
|     |           | taken to address it.   |
| Œ   | C         | 😾   C   Limited or small-scale antibiotic resistance awareness campaign targeting some, but not all, relevant stakeholders (e.g. |
|     |           | general public, doctors, pharmacists, nurses, medicine sellers).   |
| 0   | D         | 0 D Nationwide, government-supported antibiotic awareness campaign targeting all or the majority of stakeholders.                |
| 0   | 3         | Focused, national scale government-supported activities implemented to change behaviour regarding antibiotic                     |
|     |           | resistance in target groups in human health, both public and private sectors, with monitoring undertaken of their                |
|     |           | awareness and behaviour change over last 5 years.  |

| D Televalit Stakelloiders Withill Sector.   | Nationwide, government-supported antimicrob  | Limited or small-scale antimicrobial resistance a  C within sector.  | Some activities in parts of the country to raise a<br>B taken to address it.  | No significant awareness-raising activities on re   | 6.2 Raising awareness and understanding of AMR risks safety, and environment sectors  |
|---|--|--|---|---|---|
| Focused, national scale government supported activities implemented to change behavior of relevant stakeholders | Nationwide, government-supported antimicrobial resistance awareness campaign targeting all or the majority of relevant stakeholders within sector. | Limited or small-scale antimicrobial resistance awareness campaign targeting some but not all relevant stakeholders within sector. | Some activities in parts of the country to raise awareness about risks of antimicrobial resistance and actions that can be taken to address it. | No significant awareness-raising activities on relevant aspects of risks of antimicrobial resistance. | 6.2 Raising awareness and understanding of AMR risks and response in animal health, plant health, food production, food safety, and environment sectors |

Food Production.....#.....

Food Safety......A...... Food Safety.....

| 6.3 | Trai | 6.3 Training and professional education on AMR in the human health sector   |
|-----|------|---|
| 0   | P    | O A No training for human health workers on AMR.  |
| 0   | В    | O B Ad hoc AMR training courses in some human health related disciplines.   |
| A   | C    | C   AMR is covered in 1) some pre-service training and in 2) some in-service training or other continuing professional          |
|     |      | development (CPD) for human health workers.   |
| 0   | 0    | 0 D AMR is covered in pre-service training for all relevant cadres. In-service training or other CPD covering AMR is available  |
|     |      | for all types of human health workers nationwide.   |
| 0   | m    | 0 E AMR is systematically and formally incorporated in pre-service training curricula for all relevant human health cadres. In- |
|     |      | service training or other CPD on AMR is taken up by relevant groups for human health nationwide, in public and private          |
|     |      | sectors.  |

| 0   | হ  | 6:4  |
|---|--|--|
| В   | Þ  | ाता  |
| B Ad hoc AMR training courses available for veterinary related professionals. | V A No training of veterinary related professionals (veterinarians and veterinary paraprofessionals) related to AMR. | ing and professional education on AWR in the veterinary sector |

# Global Monitoring of Country Progress on AMR (2.0) 2017 O C AMR and appropriate use is covered in core curricula for

| paraprofessionals when relevant and continuing professional training is a formal requirement.                                 |   |   | _ |
|---|---|---|---|
| O E AMR is systematically and formally incorporated in curricula for graduating veterinarians and veterinary                  | m | 0 |   |
| related professionals.  |   |   |   |
| 0 D Continuing professional training on antimicrobial resistance and antimicrobial use is available nationwide for veterinary | ٥ | 0 |   |
| when relevant.  |   |   |   |
| C Awik and appropriate use is covered in core curricula for graduating veterinarians and for veterinary paraprofessionals     | • | c |   |

| 0   | _   | 0   | 0   | 0   |  | Z   | en c        |
|---|---|---|---|---|--|---|-------------|
| п   | ,   | 7   | С   | В   |  | Α   | îron        |
| O E Tailored AMR training courses are routinely available nationwide and completion of training is a formal requirement for all key stakeholders. | formal requirement for at least two groups of key stakeholders. | O   D   Tailored AMR training courses are routinely available nationwide for all key stakeholders and completion of training is a | 0   C   Tailored ad hoc AMR training courses are available for all or the majority of key stakeholders. | O B Tailored ad hoc AMR training courses available for at least two groups of key stakeholders. | processors and retailers, environmental specialists. | <b>♥</b>   A   No training provision on AMR for key stakeholders, e.g. farmers and farm workers, extension workers, food and feed | environment |

| 0  | 0  | 0   | 0  | æ  | 6.6   |
|--|--|---|--|--|---|
| п  | D  | n   | 0 B  | P  | Pio   |
| 0   E   Documented evidence of strong capacity in compliance with OIE standards on the quality of Veterinary Services <sup>3</sup> . | 0 D Monitoring of Veterinary Services performance carried out regularly, e.g. through PVS Evaluation Follow Up missions. | O C Implementation of plan to strengthen capacity gaps in Veterinary Services underway. | Veterinary services assessed and plans developed to improve capacity, through a structured approach such as OIE Performance of Veterinary Services (PVS) Evaluation and PVS Gap Analysis missions. | A No systematic approach at national level to strengthening Veterinary Services. | 6.6 Progress with strengthening veterinary services |

<sup>3</sup> http://www.oie.int/index.php?Id=169&L=0&htmfile=chapitre\_vet\_serv.htm

#### surveillance and research. 7. Country progress on strategic objective 2: Strengthen the knowledge and evidence base through

Please select one rating for each question that most closely matches the country situation.

| 7.1 | Na | 7.1 National monitoring system for consumption and rational use of antimicrobials in human health                              |
|-----|----|--|
| 0   | Α  | O A No national plan or system for monitoring use of antimicrobials.   |
| 0   | ₿  | O B System designed for surveillance of antimicrobial use, that includes monitoring national level sales or consumption of     |
|     |    | antibiotics in health services.  |
| ₹   | C  | C   Total sales of antimicrobials are monitored at national level and/or some monitoring of antibiotic use at sub-national     |
|     |    | level.   |
| 0   | D  | O D Prescribing practices and quality of antibiotic use are monitored in a national sample of healthcare settings.             |
| 0   | Е  | O E On a regular basis (every year/two years) data is collected and reported on:   |
|     |    | a) Antimicrobial sales or consumption at national level for human use; and   |
|     |    | b) Antibiotic prescribing and appropriate/rational use, in a representative sample of health facilities, public and private, l |

| 0   |  |   | 0  |                                    | 0  | 0   | Œ  | 7.2  |
|---|--|---|--|------------------------------------|--|---|--|--|
| m   |  |   | D  |                                    | C  | B   | A  | Nat  |
| E Data on antimicrobials used under veterinary supervision in animals are available at farm level, for individual animal species. | use (therapeutic or growth promotion). | animals nationally, by antimicrobial class, by species (aquatic or terrestrial), method of administration, and by type of | O D On a regular basis, data is collected and reported to the OIE on the total quantity of antimicrobials sold for/used in | (therapeutic or growth promotion). | O C Data collected and reported on total quantity of AMs sold for/used in animals and their intended type of use | O B Plan agreed for monitoring quantities of antimicrobials sold for/used in animals, based on OIE standards <sup>4</sup> . | <b>W</b> A No national plan or system for monitoring sales/use of antimicrobials in animals. | 7/2 National monitoring system for antimicrobials intended to be used in animals (sales/use) |

| 0   | 0  | 0  | 0  | €  | 7.3  |
|---|--|--|--|--|--|
| m   | D  | C  | В  | Α  | Na   |
| O E On a regular basis, data is collected and reported on total quantity of AM use in crop production, by AM class. | O D Data collected and reported on total quantity of AM used nationally in plant production. | O C Data collected and reported on quantity of AM used in some subsectors of plant production. | O B Plan agreed for monitoring quantities of antimicrobial sales or use in plant production. | ■ No national plan or system for monitoring use of antimicrobials in plants. | National monitoring systemator antimicrobial use in plant production |

| 7.41   | lati     | 7.4 National surveillance system for antimicrobial resistance (AMR) in humans   |
|--------|----------|---|
| 0      | >        | O   A   No capacity for generating data and reporting on antibiotic resistance (antibiotic susceptibility testing and       |
|        |          | accompanying clinical and epidemiological data collection).   |
| о<br>В | 8        | AMR data is collated locally for common bacteria, but may not use a standardized approach and lacks national                |
|        |          | coordination and/or quality management.   |
| æ      | <u>ი</u> | V   C   National AMR surveillance activities are in place for common bacterial pathogens that link patient information with |
| _      |          | susceptibility testing, with a national reference laboratory that participates in external quality assurance.               |
| 0      | ٥        | O D There is a functioning national AMR surveillance system covering antibiotics in hospitals and outpatient clinics, with  |
|        |          | external quality assurance, and a national coordinating centre producing reports on resistance levels.                      |
| 0      | m        | E The national AMR surveillance system integrates surveillance of AMR across sectors, and generates regular                 |
|        |          | reports.  |

<sup>&</sup>lt;sup>4</sup> http://www.oie.int/index.php?id=169&L=0&htmfile=chapitre\_antibio\_monitoring.htm; http://www.oie.int/index.php?id=171&L=0&htmfile=chapitre\_antibio\_quantities\_usage\_patterns.htm\_r

<sup>&</sup>lt;sup>5</sup> antibiotic and antifungal agents

# Global Monitoring of Country Progress on AMR (2.0) 2017

| 7.5 Nat    | 7.5 National surveillance system for antimicrobial resistance (AMR) in animals, plants; foods and environment        |
|------------|--|
| Α          | No national plan for a system of monitoring of AMR is available.   |
| <b>5</b> 7 | National plan for monitoring AMR but capacity (including laboratory) for surveillance and reporting data on AMR is   |
|            | lacking.   |
| C          | Some AMR data is collected locally but may not use a standardised approach and lacks national coordination and/or    |
|            | quality management.  |
| 0          | Priority pathogenic/ commensal bacterial species have been identified for surveillance. Data systematically          |
|            | collected and reported on levels of resistance in at least 2 of those bacterial species, involving a laboratory that |
|            | follows quality management processes, e.g. proficiency testing.  |
| т          | National system of surveillance of AMR established for priority pathogens and for relevant commensal bacteria which  |
|            | follows quality assurance processes in line with intergovernmental standards. Laboratories that report for AMR       |
|            | surveillance follow quality assurance processes.   |

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|           | or each of the following sources of bacteria, please indicate which statement in 7.5 above (A-E) is |
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### hygiene and infection prevention measures. 8. Country progress on strategic objective 3: Reduce the incidence of infection through effective sanitation,

Please select one rating for each question that most closely matches the country situation

| 8.1 | Infe | 8.1 Infection Prevention and Control (IPC) in human health care   |
|-----|------|---|
| 0   | Þ    | A No national IPC programme or operational plan is available.   |
| Æ   | B    | A national IPC programme or operational plan is available. National IPC and water, sanitation and hygiene (WASH) and          |
|     |      | environmental health standards exist but are not fully implemented.   |
| 0   | C    | O   C   A national IPC programme and operational plan are available and national guidelines for health care IPC are available |
|     |      | and disseminated. Selected health facilities are implementing the guidelines, with monitoring and feedback in place.          |
| 0   | ס    | O D National IPC programme available according to the WHO IPC core components guidelines and IPC plans and guidelines         |
|     |      | implemented nationwide. All health care facilities have a functional built environment (including water and sanitation),      |
|     |      | and necessary materials and equipment to perform IPC, per national standards  |
| 0   | m    | IPC programmes are in place and functioning at national and health facility levels according to the WHO IPC core              |
|     |      | components guidelines'. Compliance and effectiveness are regularly evaluated and published. Plans and guidance are            |
|     |      | updated in response to monitoring.  |

| •   |   |
|-----|---|
| ® > | No systematic efforts to improve good production practices to reduce the need to use antimicrobials.  Some activities in place to develop and promote good production practices.  |
|     |   |
| C   | National plan agreed to ensure good production practices in line with international standards (e.g. OIE Terrestrial and Aquatic Codes, Codex Alimentarius). Nationally agreed guidance for good production practices developed, adapted for |
| T   |   |
| Q   | <b>D</b> Nationwide implementation of plan to ensure good production practices and national guidance published and disseminated.  |
| m   | Nationwide implementation of plan to ensure good production practices and monitoring of impact on level of AM use,  |
|     |   |

| Animal Basks A   | For each of the following sectors                |  |
|--|--|--|
|  | ectors, please indicate which statement in 8.2 a |  |
| The state of the s | 1 8.2 above (A-E) is applicable:                 |  |

8.3 Coverage with critical measures (water supplies, sanitation, hygiene and immunization) to reduce spread of infections in communities and health care facilities<sup>8</sup>

http://www.who.int/immunization/monitoring\_surveillance/routine/coverage/en/index4.html

https://www.washinhcf.org/home/

prevention/publications/core-components/en/ <sup>6</sup> WHO Guidelines on core components of IPC programmes at the national and acute health care facility level, http://www.who.int/infection-

<sup>&#</sup>x27; As per footnote #5.

<sup>&</sup>lt;sup>8</sup> These issues are critical to AMR containment, but the relevant data is already being submitted to WHO through other channels in most instances. If displayed on the global returns to avoid confusion with other data submissions. from the following websites. Ideally local data should be reviewed and discussed, and if appropriate included in the return. This data will not be this questionnaire is being used to review country progress at national level, we recommend that at a minimum the data is downloaded and reviewed

| _  | _   |   | _  | ľ.  | 10000   |
|--|---|---|--|---|---|
| Proportion of health care facilities with functional sanitation facilities | Proportion of health care facilities with basic 10 hand hygiene facilities. | Proportion of health care facilities with basic water supplies. | Immunisation coverage rate of Haemophilus influenzae type b (Hib) vaccine. | Immunisation coverage rate of pneumococcus vaccine. | Estimated national coverage with critical measures (water supplies, hygiene and Latest national immunization) to reduce spread of infections in communities and health care facilities.   coverage rate (in % |
| ÇOJ  | (0)   | 100   | 640  | 916   | Latest national coverage rate (in %)  |
|  |   |   | 2016   | 2016  | Year  |

### and plant health. 9. Country progress on strategic objective 4: Optimize the use of antimicrobial medicines in human, animal

Please select one rating for each question that most closely matches the country situation.

| 9.1 | Opti | 9:1 Optimizing antimicrobial use in human health  |
|-----|------|---|
| 0   | Α    | O A No/weak national policy & regulations for appropriate use.  |
| 0   | В    | National policy for antimicrobial governance and regulation developed for the community and health care settings.         |
| 0   | )    | O C Practices to assure appropriate antimicrobial use being implemented in some healthcare facilities and guidelines for  |
|     |      | appropriate use of antimicrobials available.  |
| 9   | D    | ❷ D Guidelines and other practices to enable appropriate use are implemented in most health facilities nationwide.        |
|     |      | Monitoring and surveillance results are used to inform action and to update treatment guidelines and essential            |
|     |      | medicines lists.  |
| 0   | m    | O E Guidelines on optimizing antibiotic use are implemented for all major syndromes and data on use is systematically fed |
|     |      | back to prescribers.  |
|     |      |   |

| A | A No national policy or legislation regarding the quality, safety and efficacy of antimicrobial products, and their distribution.  |
|---|--|
|   | sale or use.   |
| œ | National legislation covers some aspects of national manufacture, import, marketing authorization, control of safety,  |
|   | quality and efficacy and distribution of antimicrobial products.   |
| C | National legislation covers all aspects of national manufacture, import, marketing authorization, control of safety, quality   |
|   | and efficacy and distribution of antimicrobial products.   |
| D | Effective enforcement processes and control are in place to ensure compliance with legislation.  |
| m | Guidelines for responsible and prudent use of antimicrobials based on international standards (e.g. OIE Terrestrial and  |
|   | Aquatic Codes, Codex Alimentarius) are available according to animal species and/or production sector and include restriction of specific antimicrobial classes listed as Critically Important for humans and animals. |

#### Plant Health................... For each of the following sectors, please indicate which statement in 9.2 above (A-E) is applicable: Animal Health (terrestrial and aquatic)........

| 0 | > | O A No legislation regarding control of waste discharge (sewage, health facilities, agriculture, manure and industrial effluen |
|---|---|--|
|   |   | into the environment.  |
| 8 | В | <b>❷ B</b> Legislation and/or regulations are in place to control at least the release of human sewage into the environment.   |
| 0 | 0 | Legislation and/or regulations encompass release of sewage, discharge of wastewater from health facilities,                    |
|   |   | manure from intensive animal production, and industrial effluent to the environment.   |
| 0 | 0 | O D There is a functioning system for monitoring regulatory compliance of discharge to the environment for some types of       |
|   | _ | waste (sewage, health facilities, agriculture, manure and/or industrial effluent).   |

<sup>9 &</sup>quot;Basic" as defined in WASH in health care facilities standards or national standards. See https://www.washinhcf.org/home/

<sup>&</sup>lt;sup>10</sup> As per footnote #7.

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| 0 | _ | П | O   E   There is a functioning system for monitoring regulatory compliance of all waste discharge to the environment       |
|---|---|---|--|
|   |   |   | (sewage, health facilities, agriculture, manure and industrial effluent). Regulations are in place that limit discharge of |
|   |   |   | all antimicrobial residues into the environment, including in municipal and pharmaceutical industry waste and              |
|   |   |   | wastewater.  |

<sup>\*</sup>Please note that domains A-D refer to regulatory control in general, while only E is AMR-specific

Country use policies and regulation snapshot
Please tick boxes below that apply to your country.

|   | 9.4 C  |  |
|---|--|--|
| Country does not authorize use of human and animal critically Important antimicrobials for growth promotion. 11 | ountry use policy and regulatory status  Country has regulations on prescription and sale of antimicrobials, including requirements for prescriptions for human use. |  |

<sup>&</sup>lt;sup>11</sup> If your country has no regulation or legislation relating to the use of antibiotics in growth promotion do not tick this box.