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**Antimicrobial Resistance: Current State, Drivers,**

**and Solutions for Mitigation – Thematic Meeting**

**Overview:** This workshop will provide participants with an understanding of the global issue of antimicrobial resistance (AMR), its drivers, and potential solutions to mitigate its spread. Through a combination of talks and interactive activities, participants will explore the key drivers of AMR, discuss strategies for AMR prevention and mitigation.

**Address:** Rural and Veterinary Innovation Centre (RaVIC), SRUC, Inverness Campus

**Date:** 27th March 2025

**Start:** 11:00h

**End:** 16:45h

**Teams Link: TBC**

**The aims for the day are:**

The day is designed to provide the group with an understanding of AMR and its broader implications, connecting it to global and individual challenges. The workshop will cover the complexity of AMR, the drivers behind it, and the strategies that are / could be employed to combat it. Attendees will also be encouraged to explore their own roles in addressing AMR.

1. **Raise Awareness:**
To increase awareness of the current state of AMR in the relevant sectors, and its effects on environmental sustainability, food production, and public health.
2. **Highlight AMR’s Complexity:**
To demonstrate why AMR is a wicked problem, emphasising its connections to other global challenges such as climate change, food security, and the spread of infectious diseases, while also outlining the complexities of addressing it. This will also highlight the importance of the one-health concept, where human, animal, and environmental health are interconnected.
3. **Understand the Drivers:**
To delve into the factors driving AMR, including antimicrobial misuse, farming practices, regulatory gaps, and global trade. This session will help participants grasp the complex interplay of these drivers from a one-health perspective.
4. **Explore Solutions:**
To discuss strategies for mitigating AMR, including National Action Plans (NAPs), responsible antibiotic use, technological innovations, and cross-disciplinary research efforts.
5. **Foster Collaboration:**
To stress the importance of collaborative, interdisciplinary approaches to tackling AMR, inspiring participants to integrate AMR solutions into their own work and daily lives.
6. **Make it Personal and Relevant:**
To connect AMR to attendees projects, professions, and routines, fostering a sense of urgency and ownership while exploring practical ways to contribute to reducing AMR.

**Programme outline:**

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| **Antimicrobial Resistance: Current State, Drivers, and Solutions for Mitigation** |
| **11:00h**  | Coffee/ Tea upon arrival |
| **11:15h** | Welcome & Introduction for the day – facilitated by Dr Jack Hearn (SRUC) |
| **Session 1. Introduction on significance and importance of AMR in various contexts** |
| **11:20h** | Personal reflection on AMR |
| **11.30h** | AMR Overview – Dr Sue Tongue (SRUC) |
| **12:05h** | Break |
| **12:15h** | AMR Driver exercise  |
| **13:15h** | Break – Lunch |
| **Session 2. Mitigating and fighting AMR Impact**  |
| **14:00h** | Strategies against AMR from a One Health perspective – Prof. Dominic Mellor (University of Glasgow/ Public Health Scotland) |
| **14:50h** | Break |
| **15:00h** | Role-play activity  |
| **16:00h** | Closing remarks and Reflection |
| **Session 3. Social Activity** |
| **16:45h**  | **Loch Ness Visit** |
| **18:30h** | **Return to Inverness- Station drop of for those that require it**  |
| **20:00h** | **Dinner (Zizzi restaurant)** for those who choose to stay through the night in Inverness. |

**Programme Session Objectives**

**Morning Session**

**Talk: Overview of AMR**
*Objective:* To introduce AMR as a global issue, explain why it’s considered a complex problem, and discuss its broad impacts.
*Overview:*
In this session, the speaker will provide a high-level overview of antimicrobial resistance (AMR), focusing on its implications for global health, economies, and the environment. Participants will also gain insight into how AMR affects individuals and communities, linking it to other global issues such as poverty and food

*Duration:* 30 minutes (with time for questions afterward)

**Driver Activity: Understanding AMR Drivers**
*Objective:* To explore the various drivers of AMR across different sectors and identify how they contribute to its spread.
*Overview:*
Participants will be introduced to the One Health approach, which highlights the interconnectedness of human, animal, and environmental health. Participants will be divided into groups, each focusing on a different sector: Environment, Human, or Animal. Each group will identify key drivers in their sector, which will be added to a collaborative mind map. Following the activity, the whole group will engage in a discussion to reflect on the identified drivers and their role in AMR spread across sectors.

*Duration:* 60 minutes (30 minutes for group work, 30 minutes for group discussion)

**Afternoon Session**

**Talk: Solutions to AMR**
*Objective:* To provide an overview of current efforts to address and mitigate AMR, focusing on strategies that are commonly used and the challenges faced.
*Overview:*
In this session, the speaker will explore global efforts to combat AMR. The session will cover both reactive and preventative approaches to AMR, and some of the challenges in implementing these. The session will also address how AMR intersects with other global issues, such as environmental sustainability and economic stability.

*Duration:* 30-40 minutes

**Role Play Activity: Understanding the Roles in AMR Prevention**
*Objective:* To help participants understand the role and importance of various stakeholders in preventing and mitigating AMR across sectors.
*Overview:*
Participants will be split into pairs, each taking on the role of one of several key players in AMR prevention, including farmers, policy makers, researchers, health professionals (vets, doctors), and individuals (consumers, pet owners). In this role-playing exercise, participants will answer key questions related to their responsibilities and actions in mitigating AMR. After 5 minutes per role, they will rotate roles to understand the perspectives of all key stakeholders. Following the role play, a group discussion will explore the challenges of implementing solutions, as well as the roles of additional players or stakeholders in AMR prevention.

*Duration:* 60 minutes (30 minutes for role play, 30 minutes for group discussion)

**Closing Remarks**
*Objective:* To emphasize the importance of cross-sectoral collaboration in tackling AMR and provide inspiration for future action.
*Overview:*
The session will discuss collaboration and real-life examples of successful AMR mitigation strategies. Participants will be encouraged to reflect on their own experiences and share any positive examples of AMR strategies that have been successful in their fields.

*Duration:* 20 minutes