DRIVE-AMS Project Plan (2022–2025)

Enhancing Antimicrobial Stewardship Across Healthcare Facilities

1. Project Overview

Project Name: DRIVE-AMS (Developing Regional Implementation and Verification of Antimicrobial Stewardship)
Project Sponsor: Radboud University Medical Centre (Radboudumc), Netherlands
Program Start Date: November 1, 2022
Planned Completion Date: October 2025
Funding Source: EU4Health Programme
Regions of Implementation: European Union, Southeast Asia, LMICs (Low- and Middle-Income Countries)

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2. Project Objectives

The project focuses on **reducing inappropriate antimicrobial use** and **enhancing AMS implementation** through capacity-building and expert consultancy.

Key Goals:

- **Reduce antimicrobial misuse** in hospitals and long-term care facilities.

- **Establish AMS programs** with measurable impacts on prescribing behaviors.

- **Develop regional AMS expertise** through a "train-the-trainer" approach.

- **Implement a European AMS expert consultancy registry**.

- **Conduct Global Point Prevalence Surveys (Global-PPS)** to track antibiotic usage.

- **Expand AMS initiatives to Southeast Asia and LMICs.**

3. Project Phases and Timeline

Phase	Key Activities	Timeframe
1. Project Initiation	- Official program launch (Nov 2022) - Stakeholder engagement & partnership building - Program kick-off webinar (Dec 2022)	**Nov 2022 – Dec 2022**
2. Capacity Building	- Develop & refine AMS training materials - Recruit & train national experts (train-the-trainer model) - Create an AMS Alumni Support Network	**Jan 2023 – Sep 2023**
3. Program Implementation (Europe)	- Deploy AMS training programs across European hospitals - Conduct **first round** of Global-PPS surveys - Establish AMS consultancy registry	**Oct 2023 – Mar 2024**
4. Pre-Intervention Assessment & Data Collection	- Collect baseline data on antimicrobial usage - Conduct surveys & assess AMS impact in hospitals - Analyze prescribing patterns and behaviors	**Apr 2024 – Jul 2024**
5. Southeast Asia & LMIC Expansion	- Launch AMS programs in Southeast Asia & LMICs - Conduct AMS training in **Bogor, Indonesia (Oct 2024)** - Develop localized AMS intervention strategies	**Aug 2024 – Dec 2024**
6. Post-Intervention & Impact Assessment	- Conduct **post-training** AMS impact evaluations - Deploy **second round** of Global-PPS surveys - Adjust strategies based on survey findings	**Jan 2025 – Jun 2025**
7. Program Closure & Future Expansion	- Evaluate overall program impact - Publish findings & develop best practice guidelines - Plan for **future regional AMS training hubs** - Establish a long-term support network	**Jul 2025 – Oct 2025**

4. Key Deliverables

✓ **Training Materials:** AMS courses, teaching tools, and training workshops.
✓ **AMS Expert Consultancy Registry:** A structured database of specialists in AMS.
✓ **Global-PPS Reports:** Comparative antimicrobial usage data from different healthcare settings.
✓ **AMS Alumni Support Network:** A mentorship & collaboration hub for trained professionals.
✓ **Regional Capacity Building:** Focused implementation of AMS in Southeast Asia & LMICs.
✓ **Final Impact Report:** A comprehensive evaluation of project outcomes and AMS adoption.

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5. Risk Management

Potential Risks & Mitigation Strategies

Risk	Impact	Mitigation Plan
Resistance to AMS adoption	Medium	Conduct targeted awareness campaigns for hospital leadership.
Inconsistent data collection	High	Implement standardized reporting tools & conduct frequent training.
Limited regional expertise	Medium	Strengthen the train-the-trainer model for local capacity building.
Funding limitations post-2025	High	Secure additional partnerships & explore long-term financing options.

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6. Monitoring & Evaluation

- **Quarterly Progress Reports**: Tracking key milestones.

- **Pre- and Post-Intervention Surveys**: Assessing AMS strategy effectiveness.

- **Stakeholder Feedback Sessions**: Gathering insights for continuous improvement.

- **Final Project Assessment (Q4 2025)**: Evaluating the program's impact on antimicrobial stewardship.

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7. Conclusion & Future Directions

By the end of 2025, **DRIVE-AMS aims to establish a self-sustaining AMS model**, with regional training hubs and expert support networks ensuring the long-term impact of antimicrobial stewardship programs. Expansion beyond Southeast Asia into **Africa and Latin America** will be the next strategic step.