JPIAMR – Joint Programing Initiative on Antimicrobial Resistance

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Swedish Research Council

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Joint Programming Initiative on Antimicrobial Resistance

Mission: To join forces across nations by leading the alignment, coordination, and support to Antimicrobial Resistance One Health collaborative research and global policy activities

International collaborative platform that:

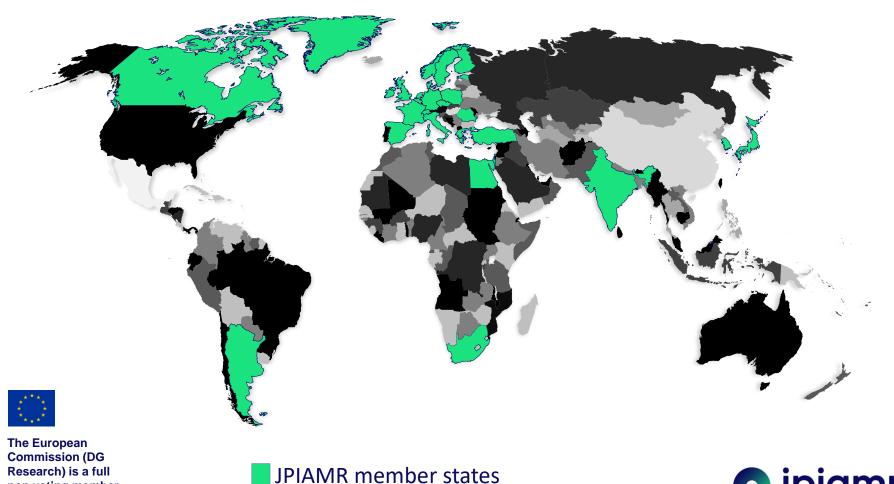
- aligns national research funding
- coordinates AMR research and funding on a global scale
- supports collaborative action for filling knowledge gaps on AMR with a One Health perspective



JPIAMR: A Global Organisation

Uniting 27 countries to address AMR

non voting member





JPIAMR in action







27 countries

85 M€

79 projects







JPIAMR-VRI

SRIA

20 in pipeline

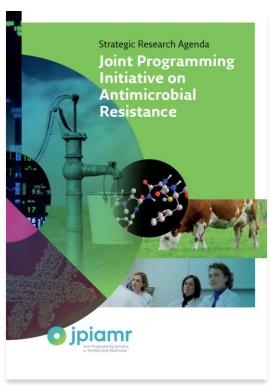


Interventions **Identifying the research needs:**

The JPIAMR

Strategic Research and

Innovation Agenda



and control measures in One Health settings ronm The role of the environment in the selection and spread of AMR Understanding and preventing the transmission of **AMR** 4015SIUISUEII

Investigation and

improvement of

infection prevention

Discovery of new

antibiotics and therapeutic alternatives, and the improvement of current antibiotics and treatment

regimens

Development and improvement of diagnostics to support the use of antibiotics and alternatives to antibiotics

Optimisation of surveillance systems to understand the drivers and burden of AMR in a One Health perspective

Diagnostics

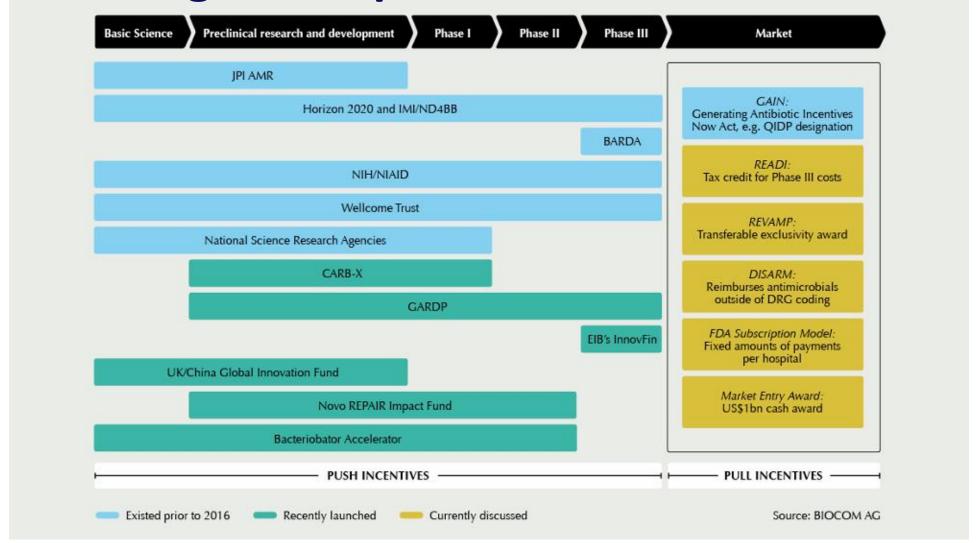
International Alignment JPIAMR and global coordination







AMR drug development international funders





National Research Policy Alignment

National alignment

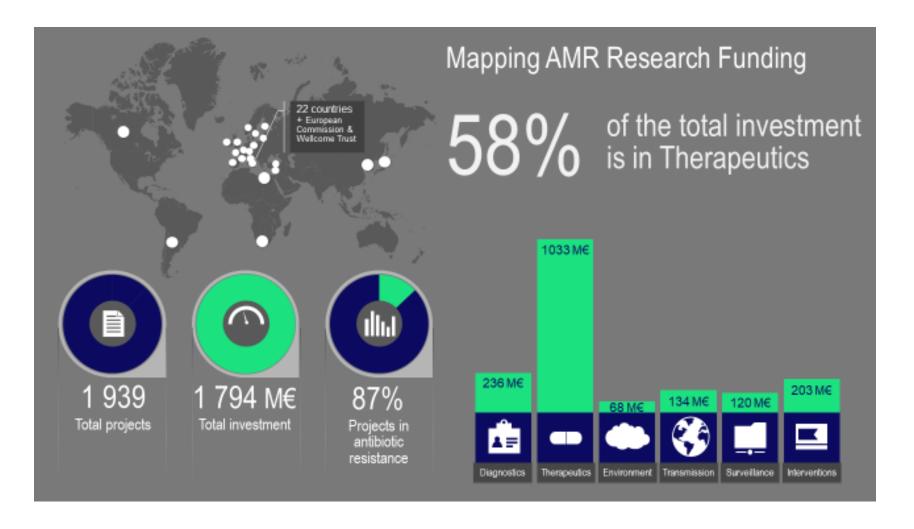
A better integration of JPIAMR efforts and SRIA with national strategies by engaging the national policy makers across different agencies aligning national inter-sectorial policies and programmes and developing national action plans for research coordinated with JPIAMR research agendas/plans seeking a One Health approach

- National alignment: intergovernmental organisation of AMR
- National alignment: alignment of SRIA and national research plans



Global AMR research investments and projects

Dashboard: Database on AMR research landscape





JPIAMR workshops 2015-2018

AMR in Eastern Europe, June

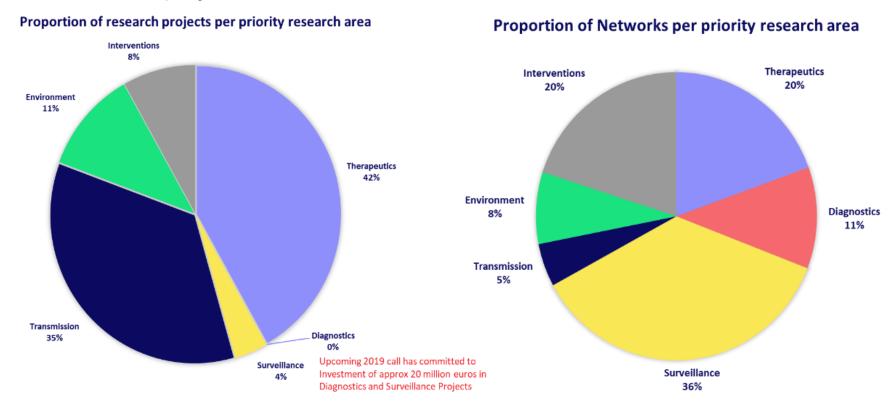
AMR meeting in South Korea, fall

Year	Workshops			
2015	 Diagnostics Transmission dynamics Intergovernmental meeting 			
2016	 New frontiers in AMR research Transatlantic collaboration on clinical trials The interplay between AMR surveillance and science 			
2017	 Early discovery of new antibiotics Environmental dimensions of AMR Setting the scene for a JPIAMR Virtual Research Institute 			
2018	JPIAMR Funded Networks workshop			
Year	Workshops			
2019	 VRI Network Start-up, February Surveillance Network Start-up, February AMR in Latin America, May 			



Global AMR Research Funder

- Total of 9 joint transnational research calls
- Basic, pre-clinical and phase 1 clinical trials
- To date 49 projects, 30 networks in AMR research have received over 65 M€ from JPIAMR

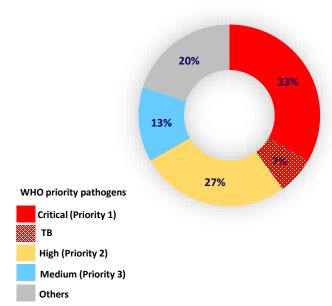




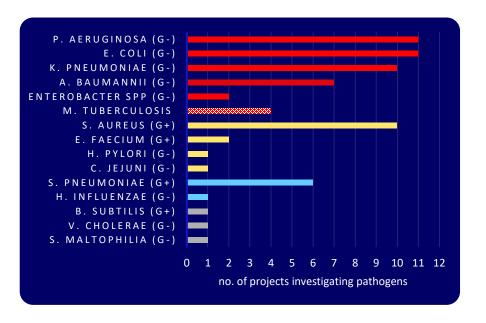
JPIAMR funded 20 projects in Therapeutics research

- 100 partners in 17 countries
- 25M Euros invested

JPIAMR supported research projects addressing pathogens categorised under WHO Priority Pathogens List



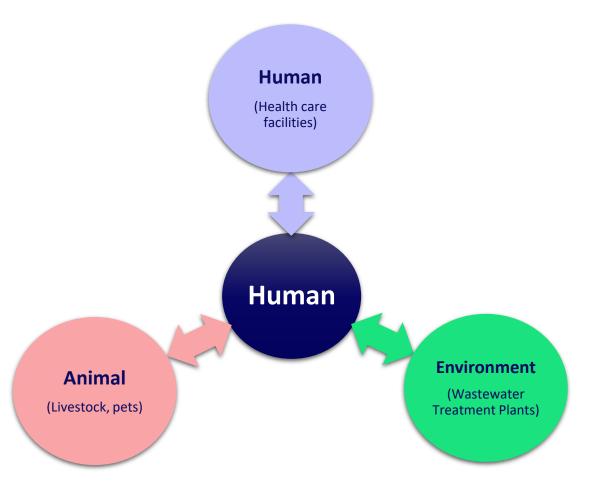
Distribution of JPIAMR funded projects on the basis of pathogens studied



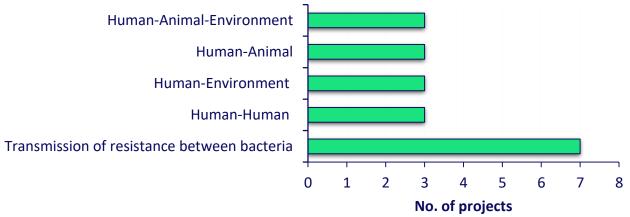


JPIAMR funded 19 projects in Transmission research

- 118 partners in 17 countries
- 30M Euros invested



Distribution of JPIAMR supported projects on Transmission









JPIAMR call on Diagnostics highlites

- Applications: 71 consortia 344 partners in total (we have additional 12 applications under eligibility check)
- Partners from 53 countries applying.
- Strong participation from China (8 projects) and India (9 projects)
- 36 projects have LMIC from Africa. 37 projects include Asian partners funded by Canada. Only 7 projects lack participation from Africa or Asia.
- 2 coordinators from Tanzania, 2 from Uganda, 1 from Ethiopia, 2 from South Africa, 1 from India, 2 from China and 1 from Bangladesh Non-Europeans 15% of all coordinators.
- One consortia is coordinated by Romania.



JPIAMR Calls 2019-2023

Year	Funding scheme	Call Name	Priority topics	Investment (M €)
2019	Projects	Development of diagnostic and surveillance tools, technologies and methods to detect antimicrobial resistance (AMR)	Diagnostics Surveillance	>20M
2020	Projects	ERAnet Emerging Pollutants and Pathogens 2019 1st calls (jointly call with JPIWATER and JPIOCEANS)	Environment Transmission	
2021	Projects	JPIAMR ACTION: AntimiCrobial Transmission InterventiONs	Intervention Transmission	



JPIAMR-Virtual Research Institute





Connecting

Bridging Partnerships, Collaborations, Forums, Workshops, Webinars



Enabling Global Access, Mappings, Frameworks, Blueprints, Expertise, Knowledge Transfers

Data Sharing

Online Sharing Platforms, Libraries, Catalogues

Scientific Innovation

Building Evidence in all One Health domains of AMR

Capacity Building

Training, Virtual Education, Train the Trainers, Exchange Programs

Awareness

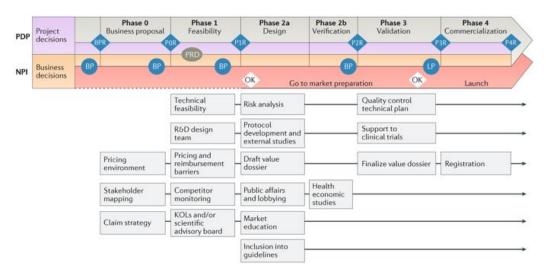
Developing and Sharing research results, Promoting AMR in the Global Agenda



Example Network towards the VRI: JPIAMR supported network AMR Rapid Diagnostic Tests (AMR-RDT)

50 organisations from 15 countries worldwide

Schematic overview of the development process for products in the in vitro diagnostics market



Nature Reviews Microbiology, 2018



Developmental roadmap for antimicrobial susceptibility testing systems

Alex van Belkum II. Bachmann, Gerd Lüdke, Jan Gorm Lisby, Gunnar Kahlmeter, Allan Mohess, Karsten Becker, John P. Hays, Neil Woodford, Konstantinos Mitsakakis, Jacob Moran-Gilad, Jordi Vila, Harald Peter, John H. Rex, Wm. Michael Dunne Jr & the JPIAMR AMR-RDT Working Group on Antimicrobial Resistance and Rapid Diagnostic Testing

Next step: capacity building

- -Strategic Action Plan on training for diagnostics
- -Structure data collection
- -Blueprint for the JPIAMR-VRI virtual School of Diagnostics



JPIAMR Funded Network: Surveillance





Network Coordinator: Stefan Börjesson, National Veterinary Institute, Sweden

JPIAMR priority areas: Environment Surveillance Transmission

Objective: To find a way to perform global comparative surveillance of AMR in the

environment and wildlife, which is furthermore applicable in the majority of

countries irrespective of economic resources

Outputs: White paper: Guidelines and Method Protocols



Next steps: JPIAMR Roadmap of Actions 2019-2023





Thank you

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