

## A Global Public Health Vision

## The Global Antibiotic R&D Partnership (GARDP):

- A not-for-profit Product Development Partnership
- GARDP works in partnership with the public and private sectors to develop new antibiotic treatments for important infections where drug resistance is present or emerging, and are of low priority for the private sector
- It promotes sustainable access for antimicrobial treatments by balancing responsible use for optimal conservation, while ensuring equitable access for all, with a focus on global health needs.





# A comprehensive mission



Sustainable access

and conservation

are ongoing

embedded

endeavours in all

projects

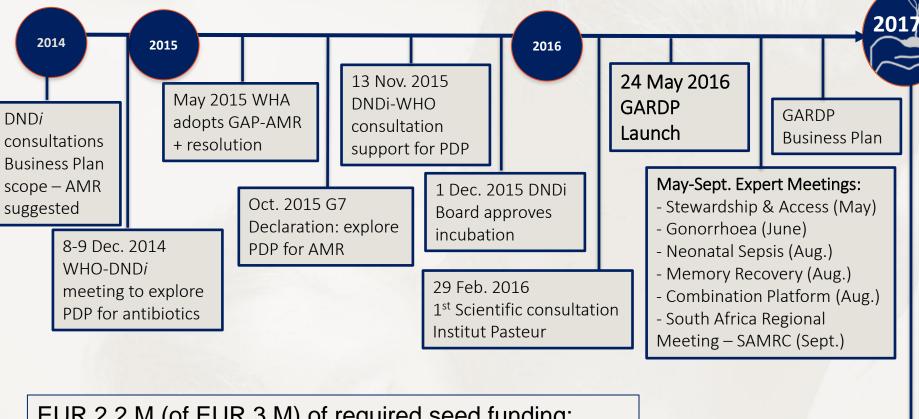
undertaken by

GARDP





GARDP: from the initial concept to launch



### EUR 2.2 M (of EUR 3 M) of required seed funding:

- Federal Ministry of Health of Germany
- The Netherlands' Ministry of Health Welfare and Sports
- South African Medical Research Council
- United Kingdom Department for International Development
- Swiss Federal Office of Public Health
- Médecins Sans Frontières

GARDP dedicated entity / Governance & Structure / Launch projects





# Scientific Strategy Approaches

GARDP's strategy comprises **short and long-term approaches**, utilizing existing, forgotten, abandoned and new technologies such as:

- Improving dosing, duration, formulations, and drug repurposing to optimize existing antibiotics
- Combining old antibiotics, new antibiotics, and non-antibiotics to overcome drug-resistant bacteria
- Working with former antibiotic researchers to bridge generational knowledge gaps and recover/redevelop abandoned and forgotten drug candidates from previous decades
- Accelerating development of new drug candidates, targeting public health priorities and vulnerable populations (e.g. STIs, newborns), unpursued for commercial reasons
- Exploring novel drug development approaches leading to creative and durable solutions





## **Potential Pilot Projects**

#### Neonatal sepsis

 NeoAMR - A global consortium to conduct preclinical/clinical studies to develop two new treatments for neonatal sepsis (empiric use and highly drug-resistant infections) (2016)

#### Memory Recovery

 Antimicrobial Memory Recovery Initiative - An imaginative approach to rediscover the knowledge, contacts, data, and assets of 'forgotten' antibiotics to identify new drug candidates (2016)

### Sexually transmitted diseases

• A portfolio with private and academic partners to develop two new treatments for STI syndromic management and confirmed drug-resistant cases of gonorrhoea (2017)

### Antibiotic Drug Combinations

 Drug Combination Platform - Standardized platforms linking expertise for in vitro and in vivo studies to optimize combination regimens of existing/new antibiotics and non-antibiotics (2017)





## Sustainable Business Models for Public Health Returns

## Key elements:

- Diverse and sustainable financial resources to enable development of innovative solutions to address resistance to antibiotics at a global level
- Suitable economics for products developed through GARDP to guarantee production and distribution, but also affordability for all patients
- Build strong partnerships with all public and private actors to ensure access and promote optimal/appropriate usage of new treatments)
- Interventions complementary to other actors, when economics does not provide enough financial incentives





## Sustainable Business Models for Public Health Returns

## Applicable models:

- Push: fully subsidized by GARDP => identify partner(s) for next steps
- Push/Pull: subsidized by GARDP + pull incentives for partner(s)
- Joint-venture: co-investment/development with GARDP
   => shared risks, responsibilities and benefits

#### **Economics:**

- Must insure sustainability but also affordability:
   => e.g. price commensurate to patient's financial capacity
- Explore role of IP: impact on access, sustainability of production and on over marketing
- Fair pricing to be developed based on Gross National Income (GNI)
- Commensurate to the level of GARDP investments, revenue streams can be considered for GARDP as long as compatible with affordability.





## Sustainable access: what does it mean?

Sustainable Access = Innovation + access + conservation + stewardship

### Key factors to consider:

- Need to navigate wide range of contexts: LIC HIC (Global)
- Strategies require integration with other healthcare interventions (e.g. IPC)
- Dependent upon on TPP / Product(s): New vs Old / Patented vs Off patent; where product will be deployed in the healthcare system
- Approach will need to be different to conventional PDP approach: product development and product management
- Strategies must complement other broader interventions and policy frameworks (e.g. global/local public health campaigns; Development and Stewardship Framework)





# Holistic approach to sustainable access

Training / Capacity building / Product packaging / Pilot implementation programmes / Monitoring studies

Registration / policy and guidelines / fair pricing / responsible licencing

Pull mechanisms with sustainable access embedded (e.g. facility to support country scale up with appropriate use and access, milestone prizes)

GARDP will as appropriate:

Conduct

Support

Drive

Promote

Finance





# **Objectives for 2023**

### **GARDP** aims to:

- develop 4-5 new treatments targeting serious drugresistant infections
- build a robust pipeline with a focus on gramnegative infections
- pilot incentive mechanisms that promote sustainable access
- test alternatives not-for-profit business models









