

# Antimicrobial Resistance (AMR): Diagnostics

## Trends in R&D funding for diagnostics to fight AMR



939 projects

761 million USD

97 funders

(Global AMR R&D Hub Dynamic Dashboard data as at January 2023.)

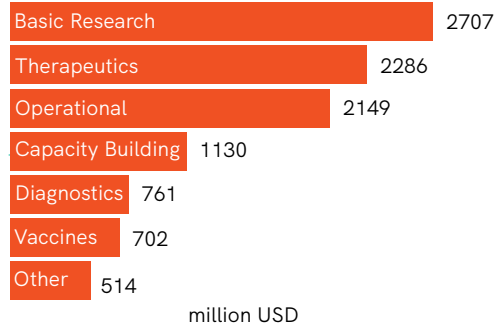
### INVESTMENTS

Since 2017...

**just 7%** of investments in AMR R&D have gone towards diagnostics.

There has been...

**3x less** funding for R&D in AMR diagnostics than in AMR therapeutics.

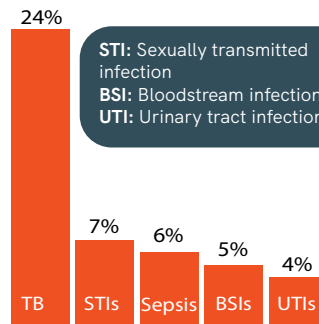


### PRIORITY AREAS

**94%** of investments in AMR diagnostics target bacterial pathogens.

R&D for diagnosing priority bacterial pathogens receives **41% of funding**.\*

Just **4% (27 million USD)** of diagnostics R&D funding is targeted at fungal infections.



STI: Sexually transmitted infection  
BSI: Bloodstream infection  
UTI: Urinary tract infection

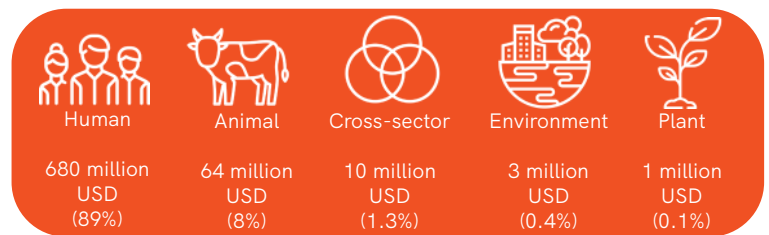
**More than half (52%)\*** of diagnostics-only projects target specific diseases. Of these projects, research related to tuberculosis (TB) receives **24% (155 million USD)** of total investments.

\*based on funding for single-research-area projects (diagnostics only)

### ONE HEALTH

**89%** of R&D investments go toward human-focused diagnostics.

Funding for animal health (8%) and cross-sectoral projects (1.3%) accounts for **less than 10% of the total**.



### FUNDING

Around...

**69%** of funding for AMR diagnostics R&D comes from the US and EU.

Major funders include the National Institutes of Health (US), the European Commission, BARDA (US), and the global partnership CARB-X.

Nearly...

**80%** of funding for AMR diagnostics R&D goes to SMEs and universities.

SMEs have received approximately **299 million USD** since 2017, and universities have received **281 million USD**.

## GAPS, OPPORTUNITIES, & RECOMMENDATIONS

- Increase support for R&D targeting priority pathogens of all types, including antifungals.
- Increase support for development of diagnostics across the full One Health spectrum.
- Align R&D of therapeutics, diagnostics, and vaccines targeting the same pathogens and/or diseases.
- Establish targets for AMR R&D based on priority needs.
- Focus on developing funding partnerships to create diversity in funding streams.

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Source: Global AMR R&D Hub Dynamic Dashboard

Data from the Dynamic Dashboard covers AMR R&D funding from public and philanthropic donors globally since 1 January 2017.

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