

A Collaborative, Equitable, Knowledge Community Approach for Strengthening Global Antimicrobial Resistance Research

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Background

Strengthening global collaboration and knowledge exchange is an essential component of the international response to the threat posed by Antimicrobial Resistance (AMR).

The [Antimicrobial Resistance Knowledge Hub \(AMR Hub\)](#) was launched on [The Global Health Network \(TGHN\)](#) in 2019, providing a dedicated online platform for AMR researchers, public health providers, policy makers and all members of the global research community seeking to share and discover current advances and best practices in AMR, raise research visibility, and actively participate in generating new evidence to tackle drug-resistant pathogens.

Methods

- Adopting an open crowdsourcing approach, AMR Hub members collaborate as an international knowledge community, sharing approaches, experiences, and contributing and sharing relevant tools and resources.
- Resources are disseminated via the platform according to type, region of focus and scientific discipline. Where existing resources are lacking, the development of novel resources is facilitated.
- Focus is given to resources designed to support AMR research in Low and Middle-Income Countries (LMICs).
- A one-day, hybrid, international symposium for knowledge community members was hosted in November 2022 (as part of a [Global Health Methodology Conference](#), hosted in Cape Town, South Africa), to bring together community members and provide a platform for open discussion and dialogue on the One Health research priority agenda.
- Overall platform activities are guided by an international steering committee across partner organisations in Africa, Asia and Latin America and the Caribbean (LAC).

Figure 1: AMR Hub User Map for LMICs

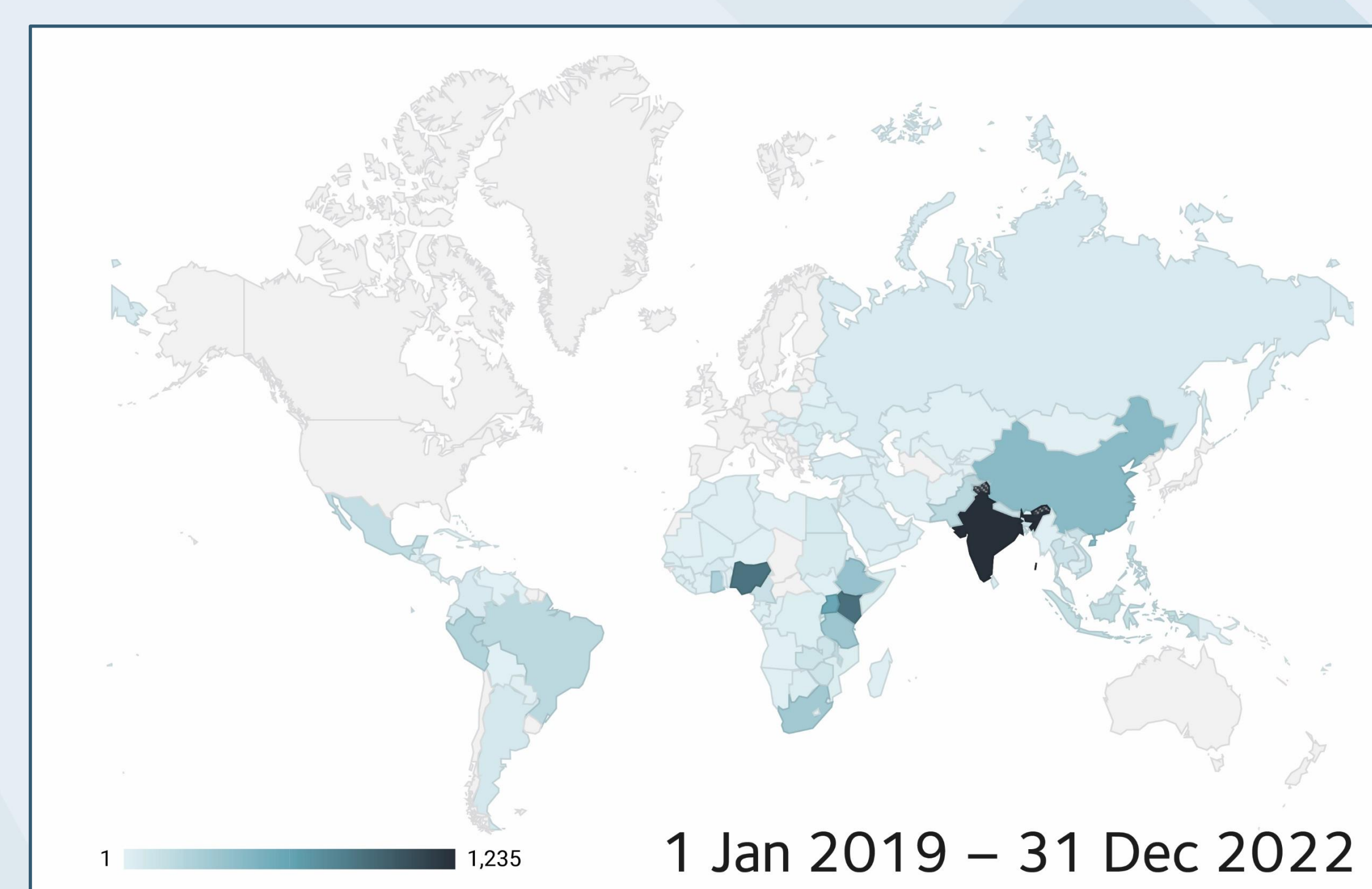


Figure 2: AMR Symposium 2022



Results

- The AMR Hub has over 8,000 members globally and has been accessed by individuals from across 181 countries (see Fig. 1).
- More than 40 pages of free, open-access resources, including components dedicated to Antimicrobial Stewardship, One Health, and context-specific AMR research in Africa, Asia and LAC.
- Specific resources shared and developed include three study profiles contributed by research teams in LMICs, and [a tool mapping African AMR National Action Plans](#).
- The AMR symposium was attended by over 100 individuals representing a diverse range of professions, backgrounds and international settings (see Fig. 2).

Conclusions

The AMR Hub provides an effective platform for the sharing and dissemination of AMR knowledge, research tools and resources, and has a diverse and dedicated global membership.

Nevertheless, the quantity and diversity of tools and resources identified and shared across the platform, and the clear global interest in participation in a dedicated AMR knowledge community, highlights the need for greater collaboration with like-minded groups to further enable easier, faster, and better AMR research in regions where evidence and skills are lacking.

