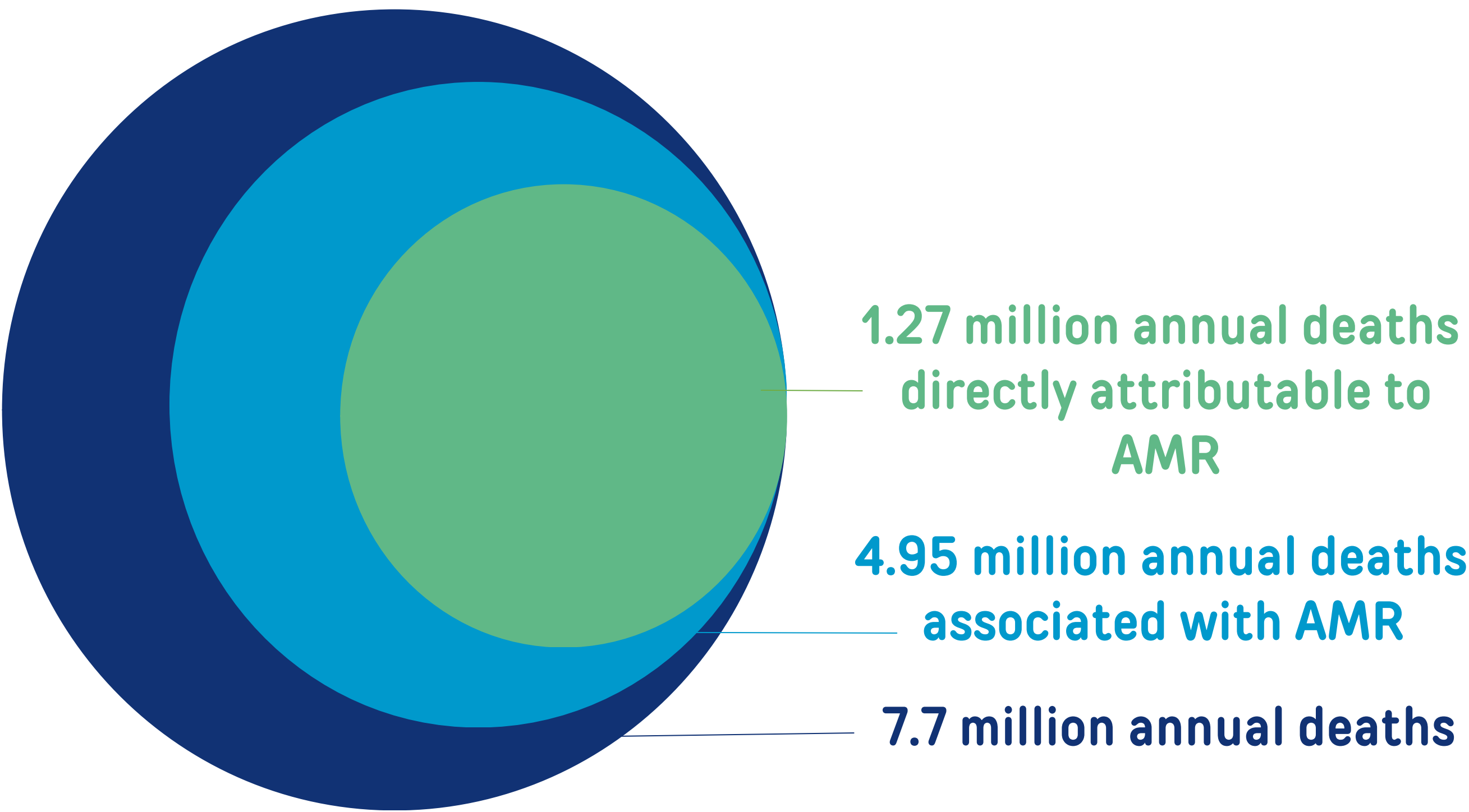


Vaccines as Important Tools to Control Antimicrobial Resistance (AMR)

The Global Antibiotic Resistance Partnership – South Africa (GARP-SA) Group collaborators

Each year, an estimated an estimated 7.7million deaths due to bacterial infections. Of these, 1.27 million deaths are directly attributable to AMR.



In South Africa in 2021

Resistance-associated deaths: 35,054
Resistance-attributable deaths: 8,485



Klebsiella pneumoniae

70% BSIs non-susceptible to 3rd generation Cephalosporins, and 40% non-susceptible to 1st generation carbapenems

Staphylococcus aureus

17% BSIs non-susceptible to cloxacillin (MRSA)

Escherichia coli

25% BSIs non-susceptible to 3rd generation Cephalosporins, and 33% non-susceptible to ciprofloxacin

Acinetobacter baumannii

80% BSIs resistant to carbapenems

Pseudomonas aeruginosa

33% BSIs non-susceptible to carbapenems, and 17% non-susceptible to 3rd and 4th generation Cephalosporins and Piperacillan tazobactam

Enterococcus faecium

1.3% BSIs resistant to Vancomycin

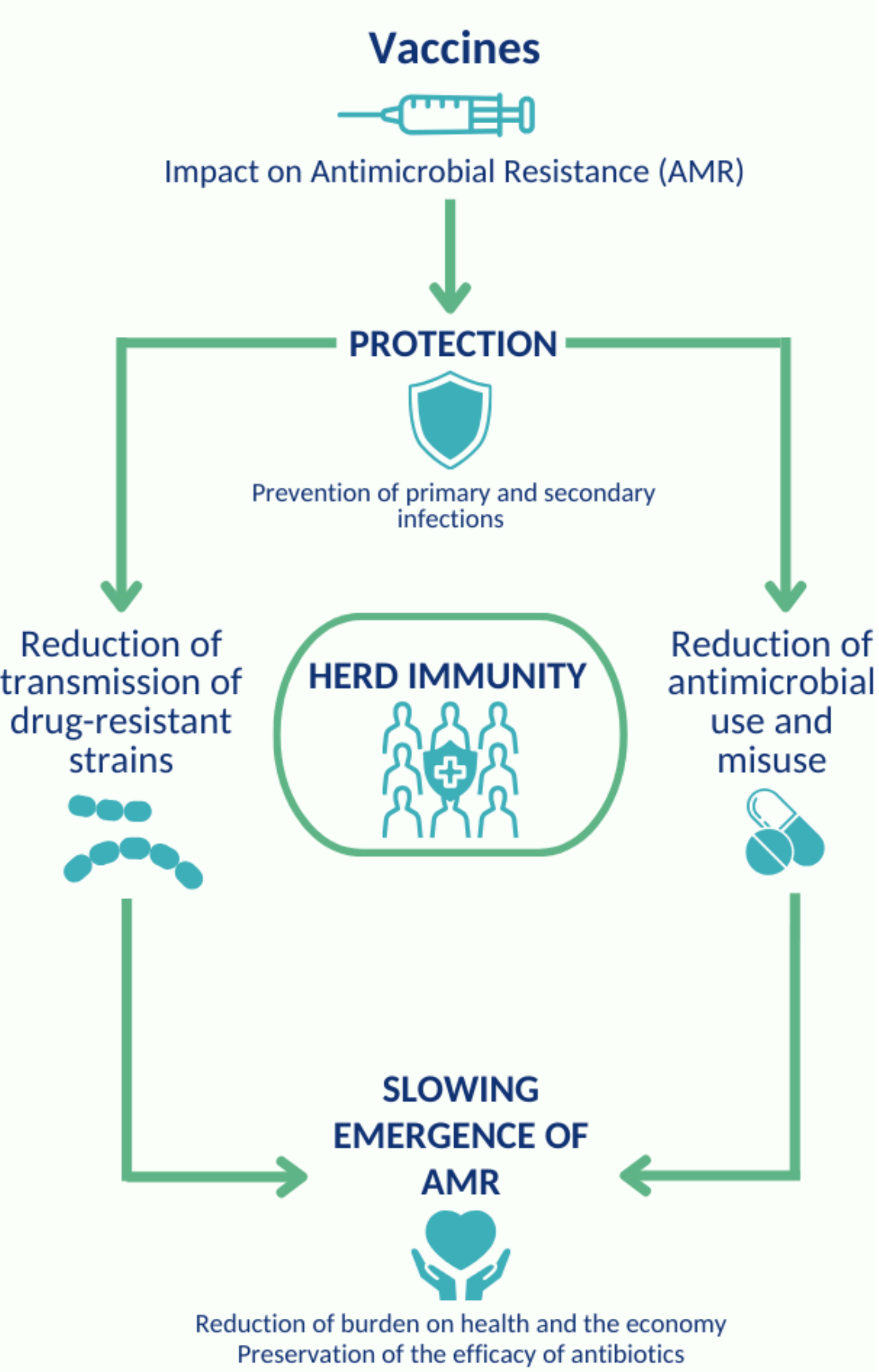
Enterococcus faecalis

1.1% BSIs resistant to Vancomycin

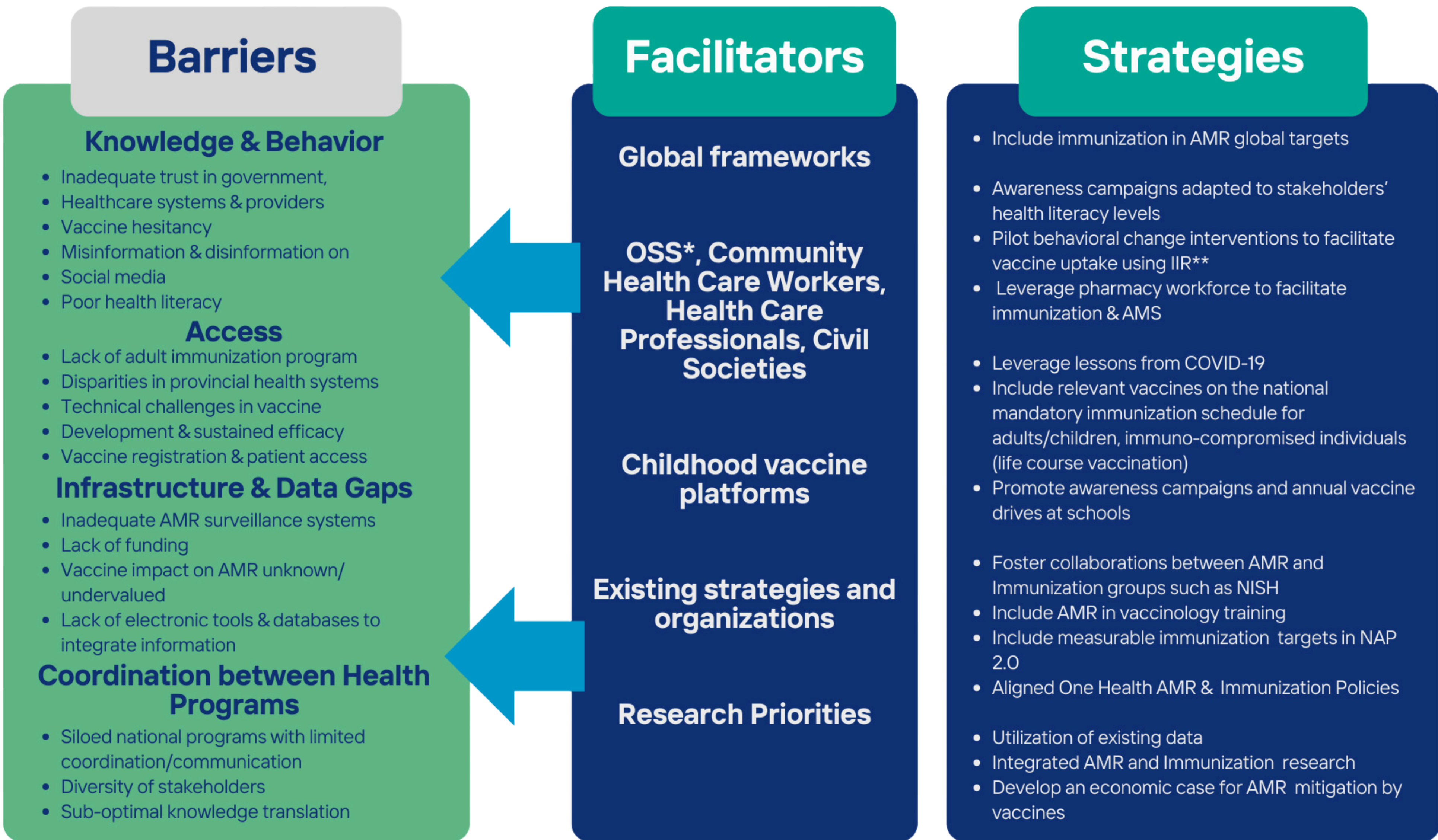
South African AMR Surveillance Report March 2024
NDoH

- Vaccines are a **crucial yet underutilised resource** in the fight against AMR in South Africa.
- The Global Antibiotic Resistance Partnership – South Africa (GARP-SA) reviewed the available evidence on the impact of vaccines on AMR in South Africa and discussed barriers, enablers, and solutions in integrating vaccination as a pivotal strategy in efforts to combat AMR.

How does it work?



Vaccines for AMR Control in South Africa



SAMJ. 2024 Sep 1;114(9):45-8
* OSS: Operation Sukuma Sakhe
** IIR intervention & implementation research

Perspectives:

- A strong antimicrobial stewardship programme is essential
- AMR and immunisation initiatives need to collaborate to generate data to be used to inform policies at the national level and support integrated research projects that can quantify vaccine impact on infectious diseases and AMR.
- The AMR mitigation potential of vaccines is an important metric that must be considered in the vaccine investment case.