

World Congress of Epidemiology 2024 – CTICC, Cape Town, South Africa.

Evaluation of the implementation of the strategic plan for surveillance and control of antimicrobial resistance, 2018-2022 in Senegal.

Ibrahima M. KEITA^{1-2-3-4*}, Mamadou M.M. LEYE², Mamadou CISS³, Khadija S. DIOP⁴, Mouhamadou WILANE⁴, Ngone SAMB¹⁻⁴, Amadou A. DIALLO³⁻⁵, Coumba DIOUF⁴⁻⁵, Ahmadou NIANG⁴⁻⁵, Ahmed I. SOW²⁻³ & Ibrahima SECK².

¹Ministry of Health and Social Action (Senegal), ²University Cheikh Anta DIOP of Dakar (Senegal), ³DESIGN Project of the National Livestock and Veterinary Research Laboratory (Senegal), ⁴Antimicrobial Resistance Thematic Group of the National High Council for Global Health Security (Senegal) and ⁵FAO/ECTAD (Senegal).

HIGHLIGHTS: (i) Senegalese NAPAMR was planned and implemented according to a One Health approach; (ii) Domestic financing was the main implementation facilitating factor compare to COVID-19 pandemic, as blocking factor; (iii) Necessity of reinforcing the M&E framework taking into account risk mitigation



1- BACKGROUND

Senegal had elaborated its 1st national action plan for antimicrobial resistance (2018-2022 NAPAMR) based on a One Health approach. Its implementation has improved International Health Regulations' capacities through four (04) technical domains (DN°1: Laboratories capacity building; DN°2: Hygiene, Infection prevention and control (IPC); DN°3: Antimicrobial management & rational use in healthcare; DN°4: Coordination, Communication and Research). However, this plan was not yet evaluated in 2022, making it urgent to analyze its implementation level using the logical framework below (Figure 1)

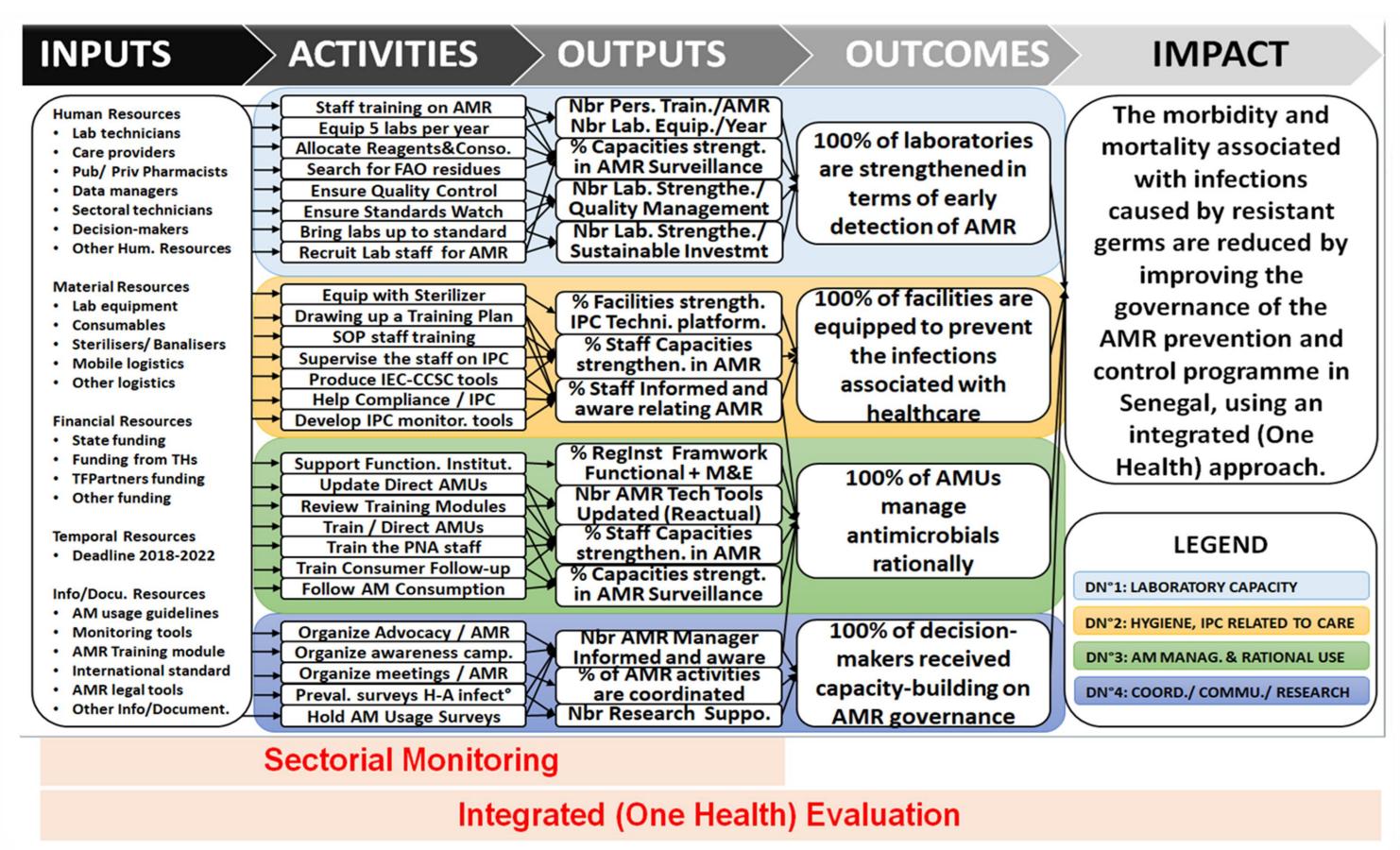


Fig 1: Senegalese NAPAMR M&E' intervention logical framework.

2- METHODS

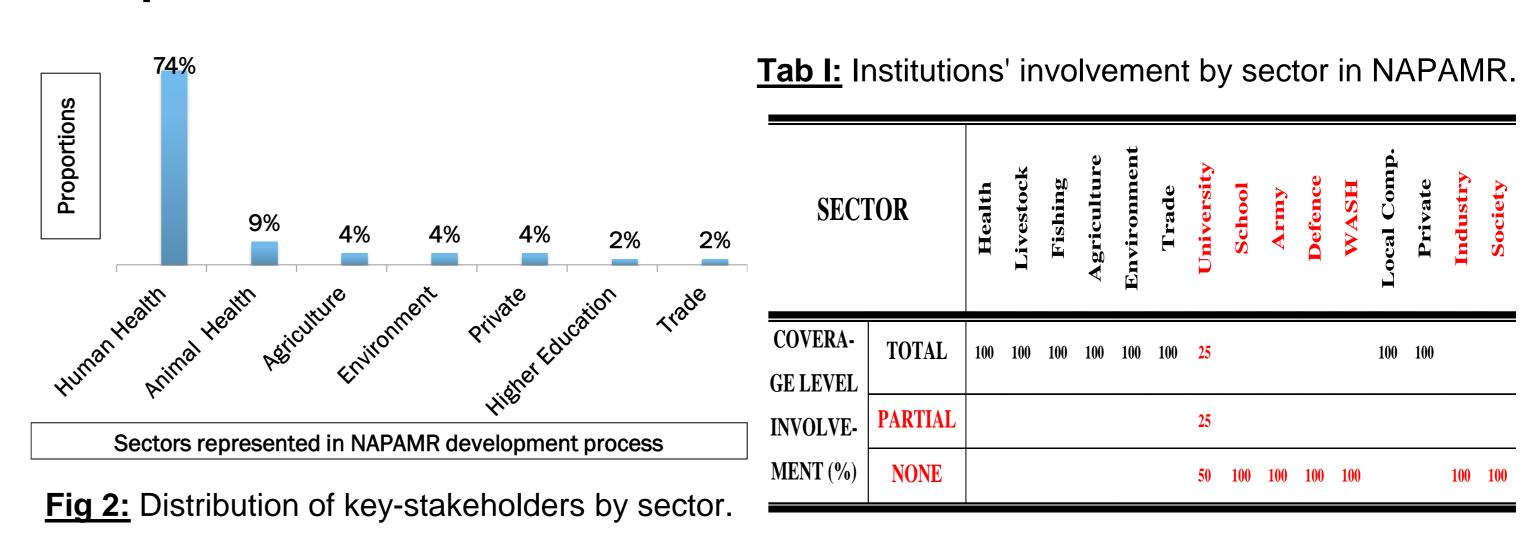
- ❖ Study Type: Mixed, cross-sectional, retrospective and evaluative survey
- ❖ Study Period: From January, The 1st 2018 to September, The 30th 2022
- **Study Data management:** It consisted of:
 - ➤ Data collection and entry: Document reviews (Quantitative), Group discussions (Quantitative & Qualitative) at an assess workshop using tools, including Excel® software, set-up on the said NAPAMR domains
 - ➤ Data analysis: NAPAMR coverage & implementation fidelity analysis (Quantitative); Thematic analysis for determining factors (Qualitative) using Microsoft Excel® and (Qualitative data analysis) QDA® Software
 - > Results presentation: Tables, Graphics and Narration (as Verbatim)
- **Ethical Considerations:** Approved by the National Committee for Ethics

4- CONCLUSION

The NAPAMR moderately implemented, needed more fund and M&E.

3- RESULTS

Quantitative survey shown that Human, animal & environmental health were represented at 73.9%, 8.7% and 4.3% respectively (Figure 2). The regional level was also represented at 2.2%, while sub-regional levels missed. The transdisciplinarity coverage was adequate at 45% and effective at 40% as noticed in Table I below.



Overall achievement (53.6%) can be observed on Figure 3A. Those specific to lab and hygiene,IPC were respectively 70.6% and 69.2%. Implementation was overall delayed (37.3%, Figure 3B), specifically also and mostly for the DN°4 (75%), with 38.1% re-planned activities.

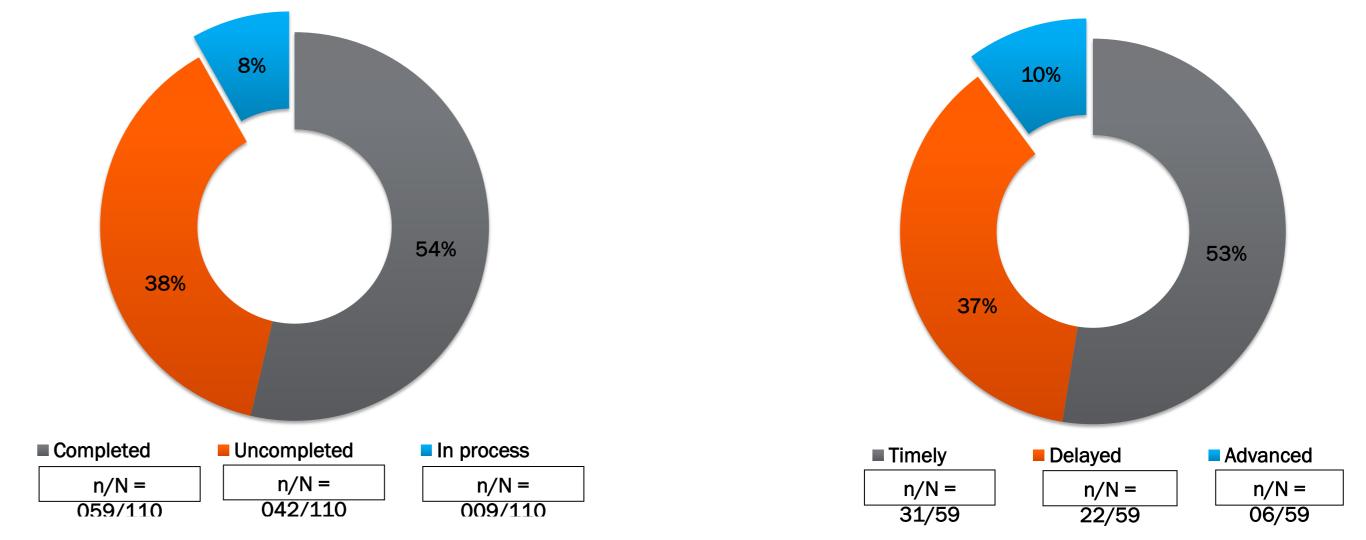


Fig 3: The NAPAMR activities implementation achievement rate: Overall (Left-3A) - Timely (Right-3B).

Temporal analysis has shown an overall decreasing five-year trend (Figure 4A), with annual transition (23% in Q4 2020) achievements increase, especially for DN°2 (54%) versus DN°4 (14%, Figure 4B).

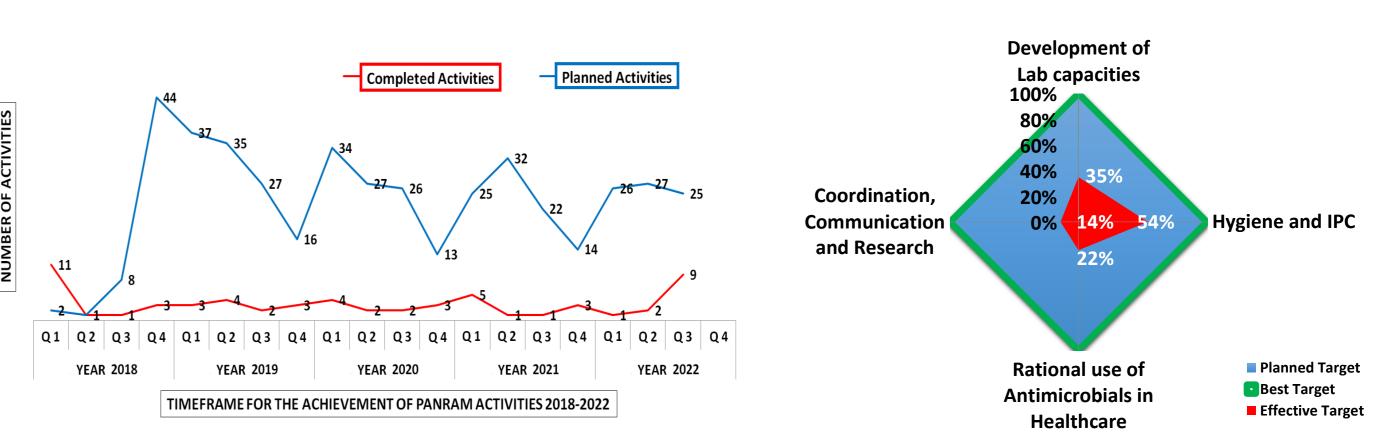


Fig 4: Senegalese 1st NAPAMR implementation fidelity analysis by time (Left-4A) & Targets (Right-4B).

Qualitative survey highlighted the main implementing factors (M&E funding, training, integration and COVID-19 as a blocking factor).











*CORRESPONDING AUTHOR: IM.K, MD MPH-MSc

+221-776970980/766970980, kibrahimamby@gmail.com SECRETARIAT GENERAL DU GOUVERNEMENT SECRETARIAT GENERAL DU GOUVERNEMENT SECRETARIAT GENERAL DU GOUVERNEMENT SECRETARIAT GENERAL DU GOUVERNEMENT