

PATH-SAFE Programme Evaluation

Webinar presentation

Sana Zakaria
RAND Europe
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One Health ambitions for surveillance

- Centralised and interoperable datasets; agriculture, environment, human health
- Improved coordination among important actors
- Enhancing surveillance capabilities to tackle infectious diseases and AMR

The PATH-SAFE programme

Aim is to improve the tracking of foodborne pathogens and antimicrobial resistant (AMR) microbes in all four nations of the UK

How? Developing easier and more accurate surveillance mechanisms, including new technologies to identify pathogens/AMR microbes, novel datasets, and linked up data and analysis to spot trends and hotspots

Large-scale pilot programme: 19.2 million GBP for testing and developing novel mechanisms and tools

Evaluation of PATH-SAFE

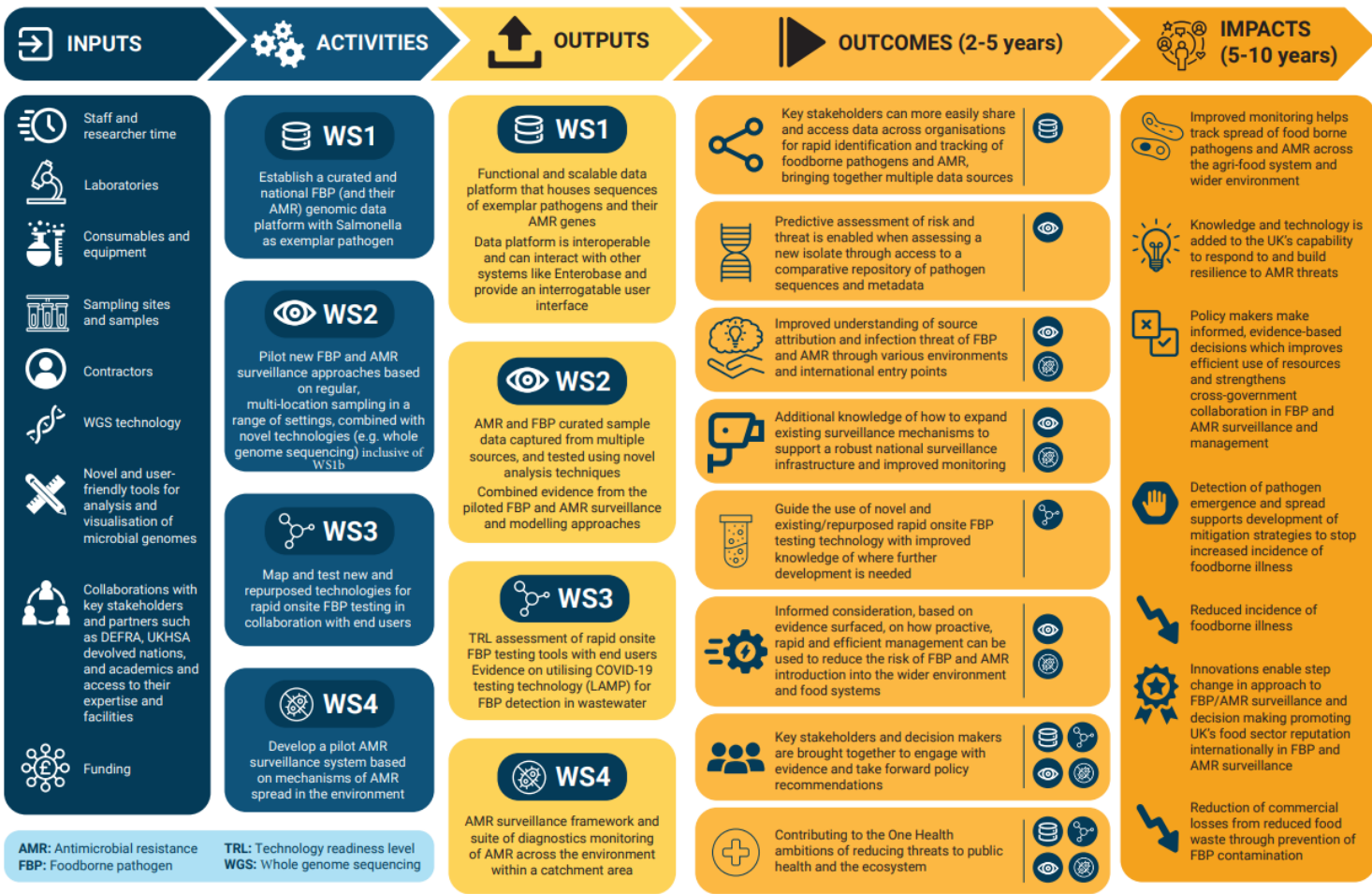
Process evaluation: effectiveness and appropriateness of programme design, governance and implementation mechanisms

Outcome evaluation: what changes/novel aspects of surveillance have been realised

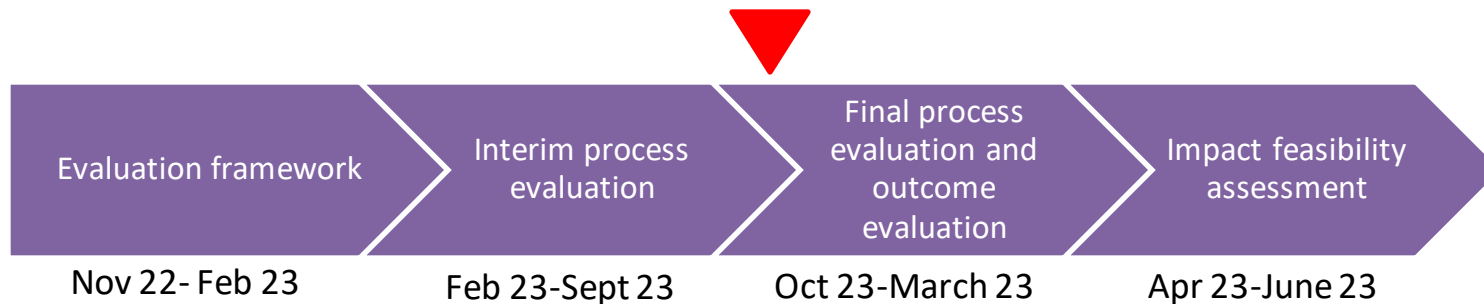
Impact feasibility assessment: how can long-term impacts be measured and what will it take to achieve them

**AIM**

Pilot a national surveillance system that better monitors and tracks foodborne disease (FBD) and antimicrobial resistance (AMR) in the environment and agri-food system, taking a One Health approach



Evaluation timeline



Interim Process evaluation

Methods and data sources

- Documentary review (project briefs, Board papers and reports)
- Desk research (Google Scholar)
- Interviews (Strategic stakeholders, programme management, delivery teams)

Synthesis and reporting

- Thematic analysis
- Evidence triangulation
- Corroboration with programme management
- Recommendations for wider community

Limitations

- Small groups of stakeholders created challenges in assessing what is a perception held by a minority versus where there is consensus
- Rapidly unfolding activities mean there is a lag in evaluation outputs and findings become dated quickly
- Nature of the programme means that data sources are limited

Interim findings: positive contributions and step change in surveillance

Design and governance

- Appropriate resourcing and fluid allocation across WSs
- Central programme management team facilitation of connections
- Relevant governance mechanisms and forums in place to support knowledge exchange and monitor progress

Processes underpinning surveillance activities

- Data platform interoperability and connectivity assessments
- Comprehensive multi-locations sampling and sequencing with over 80% target for sampling met
- Machine learning algorithms for predictive risk assessments and novel data capture
- TRL based identification and prioritisation of remote sampling and diagnostics

Interim findings: positive contributions and step change in surveillance

End-user and wider engagement/alignment

- Comprehensive mechanisms deployed for user engagement to ensure outputs meet their needs
- Alignment with key government priorities and strategies e.g. AMR NAP, NBN, UKBSS, One Health, etc.
- Various COIs and advisory groups established
- Engagement with industry and multiple four nation initiatives and networks
- Expansive engagement across multiple government departments; UKHSA, DEFRA, FSS, FSA, EA, etc.
- Working across the entire surveillance value chain

Interim findings: learning for improvements

Consistency of engagement

- Varied engagement across Ws driven by individuals bottom-up rather than systematically
- Participants in Boards and advisory groups are not always fully engaged in discussions
- Industry and wider academic engagement is ad-hoc and bottom-up driven by niche areas of work
- Limited utilisation of COIs given broad remit and lack of formal mandate
- Milestone and delivery centric discussions are felt to be disproportionate

Data challenges

- Variable agreements on sharing as well as variable data and meta-data capture
- Commercial sensitivities on wider data sharing
- GDPR concerns on clinical data sharing
- Pervasive and systemic issues persist

Recommendations



Next steps

- **Process evaluation**

- Updating data with additional document review, interviews, case studies and workshops
- Assessing extent of output delivery as intended by PATH-SAFE

- **Outcome evaluation**

- Collecting data through document review, desk research, interviews, case studies and workshops
- Assessing extent of outcome delivery intended by PATH-SAFE