BioSecure
Enhanced and cost-effective biosecurity in livestock production

PRACTICE ABSTRACT # 39

The Progressive Biosecurity Pathway: A Framework for Sector-Level Evaluation

BioSecure has developed a systemic framework to evaluate how national and regional livestock sectors manage disease prevention and control. While existing digital tools successfully quantify biosecurity risks at the individual farm level, no coordinated mechanism previously existed to measure broader animal health governance and sectoral infrastructures.

To bridge this operational gap, the Progressive Biosecurity Pathway (PBP) framework was co-designed alongside key industry stakeholders, adapting principles from the FAO Progressive Management Pathway.

The PBP operationalizes a thorough audit structure comprising 24 specific infrastructures distributed across seven administrative pillars: regulatory frameworks, risk assessment tools, identification registration, biosecurity knowledge dissemination, standardized data collection pipelines, disease surveillance, and sectoral organization.

This flexible assessment matrix provides an operational blueprint for policymakers and veterinary services.
It allows multi-actor teams to establish objective baselines, expose institutional bottlenecks, and strategically prioritize investments to enhance structural biosecurity resilience across livestock supply chains.

- A new framework evaluates biosecurity infrastructure at the sectoral meso-system level
- The operational matrix benchmarks 24 core infrastructures across seven administrative pillars
- The approach guides national policymaking by systematically identifying and prioritizing structural gaps

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