BioSecure
Enhanced and cost-effective biosecurity in livestock production

PRACTICE ABSTRACT # 41

Biosecurity Governance Typologies and Knowledge Gaps in Europe

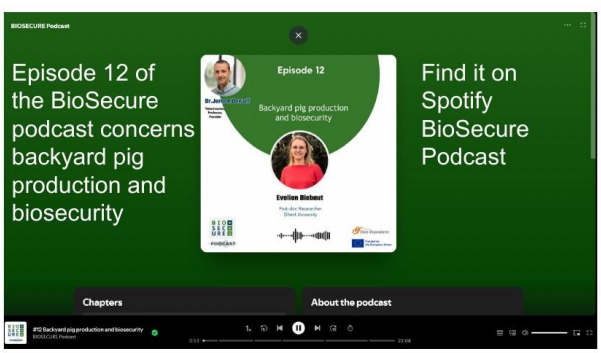
BioSecure has conducted a comparative cross-sectoral analysis using the Progressive Biosecurity Pathway (PBP) matrix across Italy, Ireland, and Romania to map national biosecurity governance architectures.

The assessment reveals that farm-level biosecurity maturity is fundamentally shaped by a country's general administrative framework rather than species-specific biological risks.

National systems display three distinct institutional profiles

- Ireland features a highly centralized structure with a strong traceability backbone.
- Italy exhibits a regionally fragmented health layout that causes structural and regulatory friction.
- Romania operates a highly polarized sector, achieving advanced standards in commercial holdings, but facing significant data voids in backyard production.

Crucially, a universal European bottleneck exists across all evaluated countries and livestock species in that the transmission of certified knowledge from academic structures to practical farm-level application scored lowest everywhere, highlighting a critical systemic failure in standardizing cross-species veterinary training.



- Comparative mapping links farm-level biosecurity compliance directly to national administrative frameworks.
- Institutional profiles expose critical regional fragmentation and data voids in smallholder sectors.
- Policy recommendations prioritize harmonizing public health layers and establishing standardized veterinary training pathways.

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Funded by the European Union

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