



Food and Agriculture
Organization of the
United Nations



International
Plant Protection
Convention

2025
IPPC
REGIONAL
WORKSHOP

7.1 The IPPC ePhyto Solution



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Objectives and scope of ePhyto

The IPPC ePhyto Solution, is an electronic certification system developed by the IPPC Secretariat to **facilitate the exchange of phytosanitary certificates between countries in a digital format.**



Benefits



Facilitate the global exchange of electronic certificates



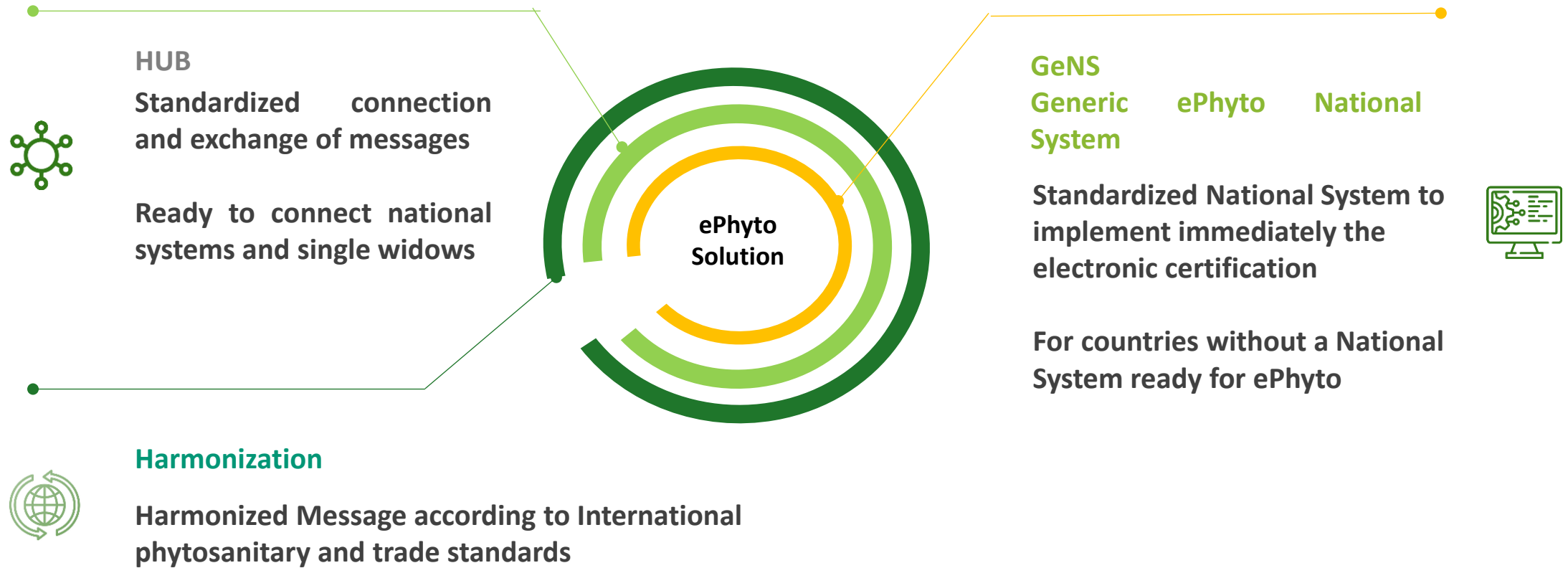
Allow countries without the necessary infrastructure to create, send and receive electronic certificates



Harmonized message format and contents including those referred to in the International Standards for Phytosanitary Measures (ISPM 12)



ePhyto Solution





ePhyto – Latest studies (EBRD Report) 1/2

The adoption of the digital ePhyto Solution is transforming the way countries manage phytosanitary certification, enabling faster, more secure, and cost-effective trade. Below a concise summary highlighting the benefits of the ePhyto Solution in numbers



ePhyto Solution: Benefits in Numbers

1

ePhyto coverage has grown steadily—from 2% in December 2019, to 6% in March 2020, and reaching 17% by September 2023, with continued growth projected.

2

Significant cost savings per shipment: per fruit shipment in **Uzbekistan (USD 0.18 per tonne)** to **USD 83.5 per fruit shipment in Egypt (USD 4.24 per tonne)**

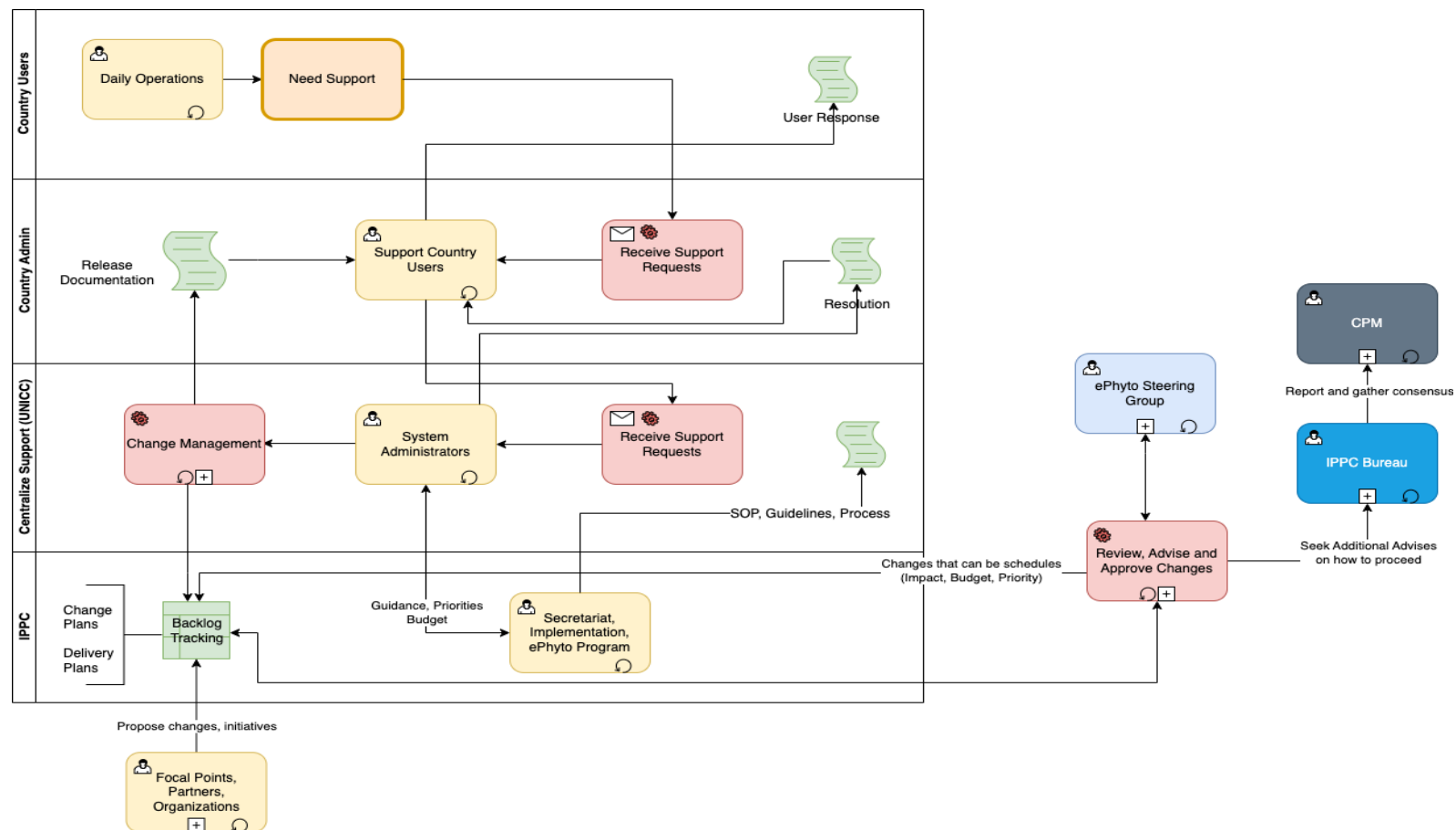
3

For companies dealing in large volumes with narrow margins, **ePhyto generates substantial reductions in operating costs**, directly supporting greater profitability

4

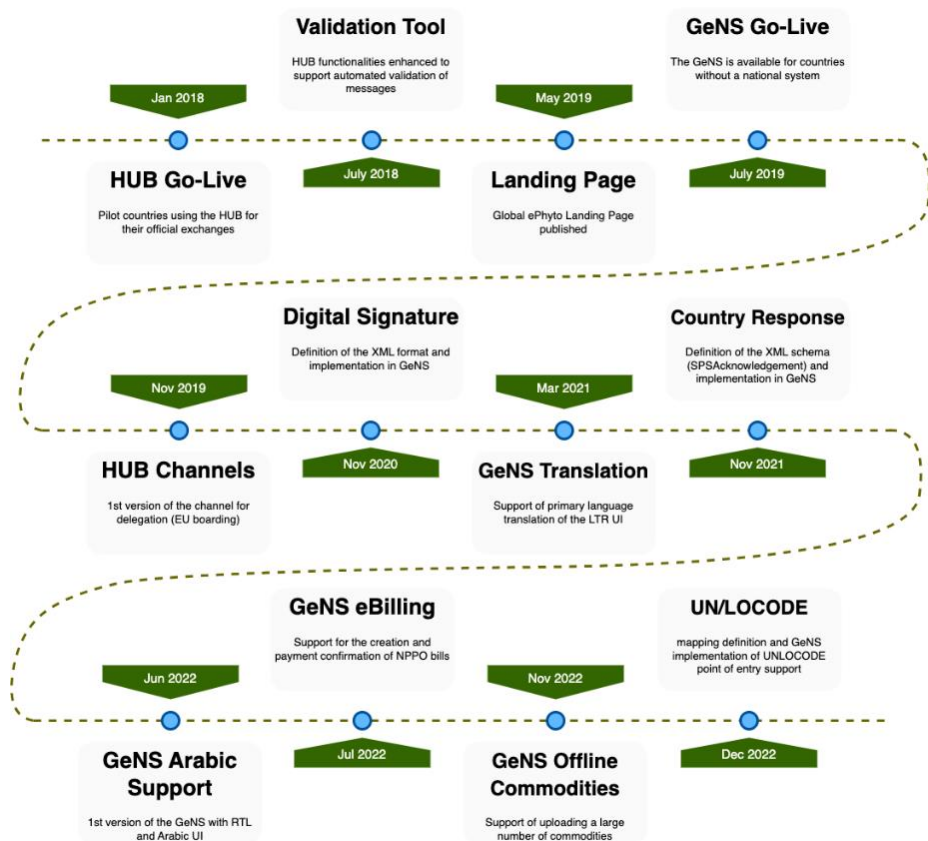
The estimated Net Present Value (NPV) of ePhyto implementation: **Ukraine: USD 43 million to 76 million** **Egypt: USD 27 million to 71 million**

ePhyto – Support & Governance model





ePhyto Evolution



2017

HUB goes live, enabling exchanges among 10 pilot countries; countries begin onboarding

2018

Validation tool added to HUB, boosting quality monitoring and implementation.

2019

GeNS launched; "Channel" feature enables single windows and national systems interoperability

2020

Digital Signature added to GeNS to support EU compliance

2021

Country Response message introduced for non-compliance and inspection notifications; GeNS translations begin.

2022

GeNS updated with billing and payments features.

2023

Additional GeNS enhancements: Offline commodities upload, UN/LOCODE mapping of the point of entry,



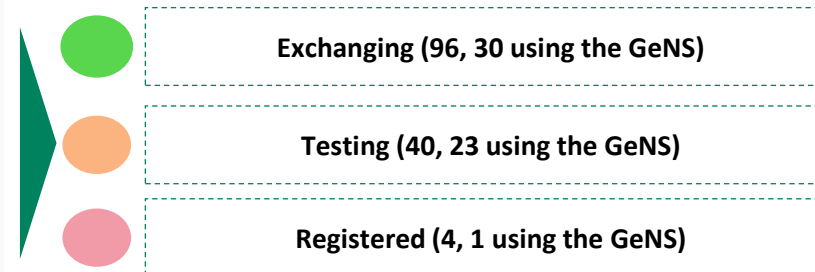
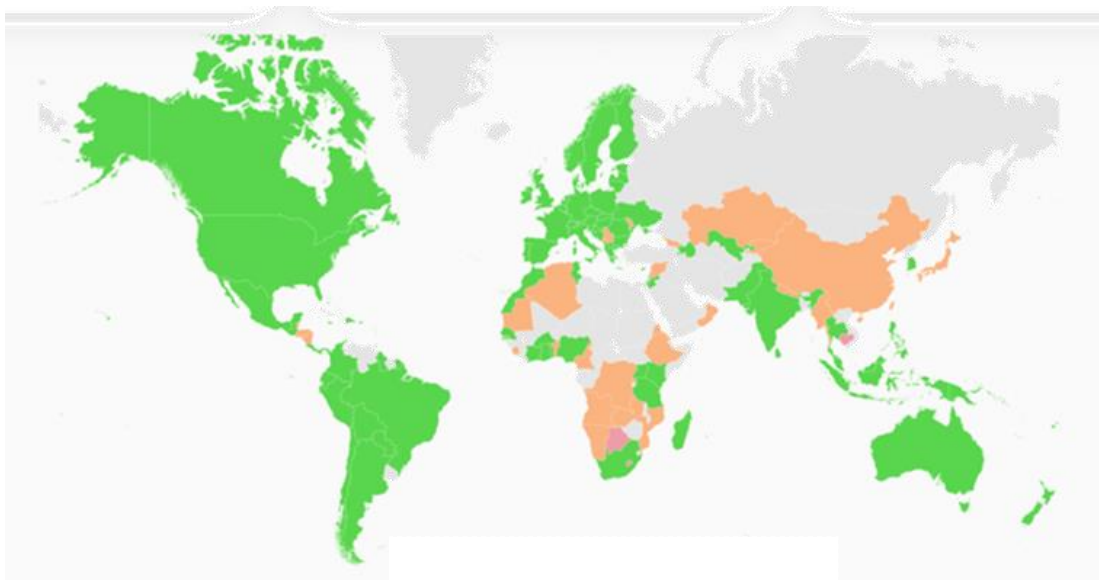
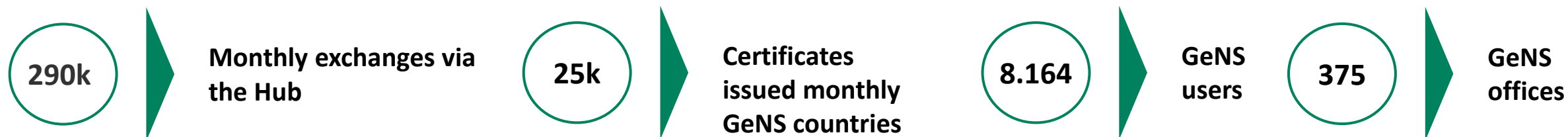
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ePhyto – Implementation Statistics





Implementation road map



The support model is shifting from reactive to proactive, with initial controls in place to optimize consumption and capacity. Further improvements will enhance technical monitoring and strengthen roll-out and country support.

Implementation Package

The Implementation Package standardizes onboarding to the IPPC ePhyto Solution, offering flexible options and a structured assessment to guide country-specific implementation.

Implementation Monitoring

A regular process will be established to identify issues in ePhyto adoption, implementation, and exchange quality. This will generate consistent data to inform decision-making within the ESG, Bureau, and IPPC Secretariat.



Solution Roadmap



ePhyto is currently managing a significant backlog of functional and technical updates, which are essential to ensure system stability, security, and cost efficiency. **Below is a summary of the key planned changes.**

inclusion of mixed commodity

Support the structured inclusion of mixed commodity definitions in ePhyto to address current digitalization gaps. Enable harmonized import requirements and additional declarations per commodity

Implementing Non-Compliance Alerts

Enhance and implement the non-compliance notification using the implemented country response/SPSAcknowledge

Improve learning tools

Improve and revamp the learning tools, with improved and multi-language content, using the IPPC plant health campus

Reuse and Interoperability

Reuse and Interoperability: expand HUB use to other certificates and improve system interconnections to boost efficiency and sustainability through shared resources



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Thank you

IPPC Secretariat

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