

**USDA** Animal and Plant Health Inspection Service U.S. DEPARTMENT OF AGRICULTURE

### Digitalization of Documents

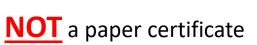
## ePhyto Progress and Observations

Christian B. Dellis **USDA-APHIS-PPQ** 

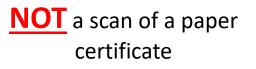


## What is an ePhyto?









- Electronic equivalent of a paper phytosanitary certificate
- Standardized XML schema (structure)

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	-		
	-		

## An ePhyto

?xml version="1.0" encoding="UTF-8" standalone="true"?> SPSCertificate xmins - unne omins:ns1="um ataType:21\* xmins:ram="unnouncu ntity:21 <SPSExchangedDocument> <ram:Name>NULL</ram:Name> <ram:ID>779068</ram:ID> <ram::D>779068</ram:TypeCode >
ram:TypeCode >
ram:TypeCode >
ram:TypeCode >
ram::SueCodeTime>
ram - <SPSExchangedDocument> <ram:Name>NULL</ram:Name> <ram: ContentCode > 5 </ram: ContentCode > <ram:ID>779068</ram:ID> </ram:IncludedSPSNote>
<ram:SignatorySPSAuthentication> <ram: ActualDateTime> <ns1:DateTimeString>NULL</ns1:DateTimeString> <ram:TypeCode>851</ram:TypeCode> <ram: IssueSPSLoc <ram:StatusCode>70</ram:StatusCode> stam:Name>PUERTO DE BUENOS AIRES (CIUDAD AUTONOMA DE BUENOS AIRES)</ram:Name> </ram:IssueSP <ram: ProviderSPS - <ram:IssueDateTime> <ram:Name>NULL</ram:Name> <ram:Name>AR - 85 BUIGUES GUSTAVO</ram:Name> <ns1:DateTimeString>2018-04-10T10:54:44-03:00</ns1:DateTimeString> </ram:IssueDateTime> - <ram:IssuerSPSParty> <ram:Name>Servicio Nacional de Sanidad y Calidad Agroalimentaria</ram:Name> </ram:IssuerSPSParty> </ram:ConsignorSPSParty> <ram:ConsigneeSPSParty> <ram:Name>: PAPAYA FRUGT GRONT SALG OG BANANMODNING I/S</ram:Name> <ram:IncludedSPSNote> <ram: Specified SPSAdd <ram:Subject>SPSFL</ram:Subject> m:LineOne>GRONLOKKEVEJ 10 - 5000 ODENSE C P.IVA DK 32 86 72 78</ram:LineOne> <ram:ContentCode>5</ram:ContentCode> </ram:IncludedSPSNote> <ram: ID>US<//ram::ID> <ram:Name>NULL</ram:Name>
</ram:OccurrenceSPSLocation>
</ram:ExaminationSPSEvent> <ram:MainCarriageSPSTransportNovement> <ram:ModeCode>1</ram:ModeCode> - <ram:UsedSPSTransportNears> cram:Contents.2D18-01-22700:00:00-0300-/ram:Content>
cram:Contents.2D18-01-22700:00:00-0300-/ram:Content>
cram:SystemNames.EPPCPCVP/ram:SystemName>
<fram:ClassName.larguageID=\_en\_Bulbs</rr> <ram: PhysicalSPSPackage > <ram:PhysicalSPSPackage>
 <ram:LevelCode>
 <ram:TypeCode>BX</ram:LevelCode>
 <ram:TypeCode>BX</ram:TypeCode>
 </ram:ItemQuantity>15</ram:ItemQuantity>
</ram:PhysicalSPSPackage> </ram:PhysicalSPSPackage>
- <ram:DriginSPSCourty>
</ram:Dispretations/SPSCourty>
</ram:Name>
</ram:Name>MENDOZA</ram:Name>
</ram:Name>MENDOZA</ram:Name>
</ram:SubordinateSPSCountrySubDivision>
</ram:IndividedSPSTradeLineItem>
</ram:ChildedSPSTradeLineItem>
</ram:ChildedSPST

- </SPSConsignment> </SPSCertificate>

- Brief history:
  - 2006 PCIT deployed
  - 2008 ePhyto discussions began
    - Due to complexity after 10 years only exchanging with 1 country
  - USDA and a few other countries approached IPPC for a more standardized process
  - ePhyto project arose from that:
    - 3 components:
      - HUB
      - GeNS
      - Harmonization
- Pandemic emphasized need for faster adoption of electronic certification



### Hub

System to facilitate exchange of ePhytos between **NPPOs** 

### GeNS

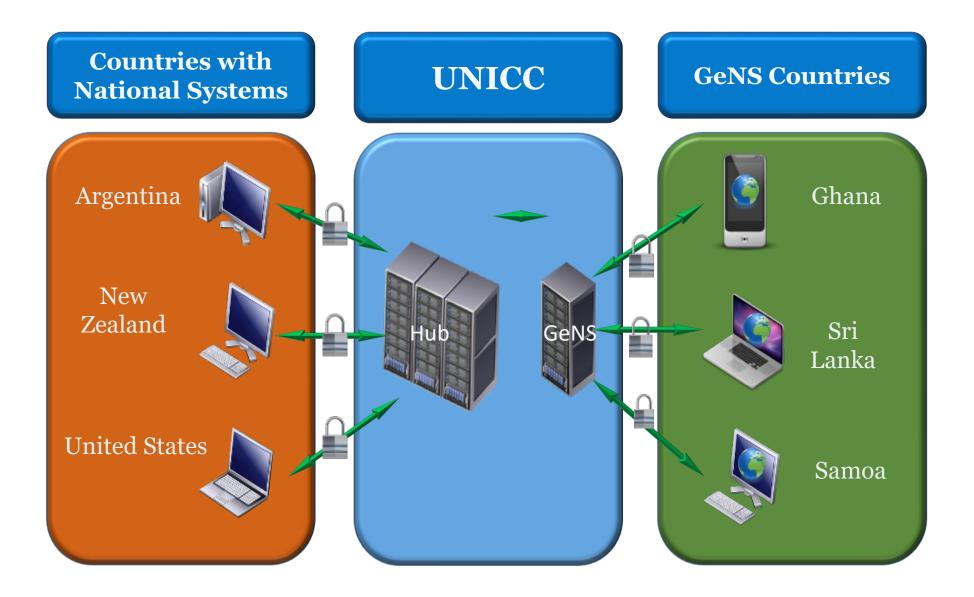
**Generic ePhyto** National System

Centralized webbased system to allow countries without their own systems to produce, send and receive ePhytos through the hub

Harmonized message

Uniform format, structure and accompanying codes and lists where applicable

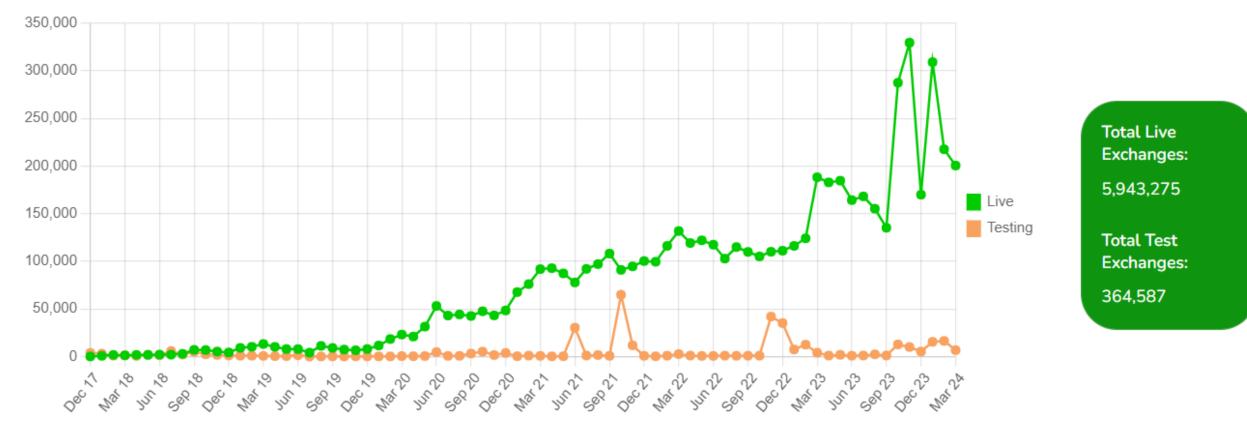






## ePhyto Global Participation

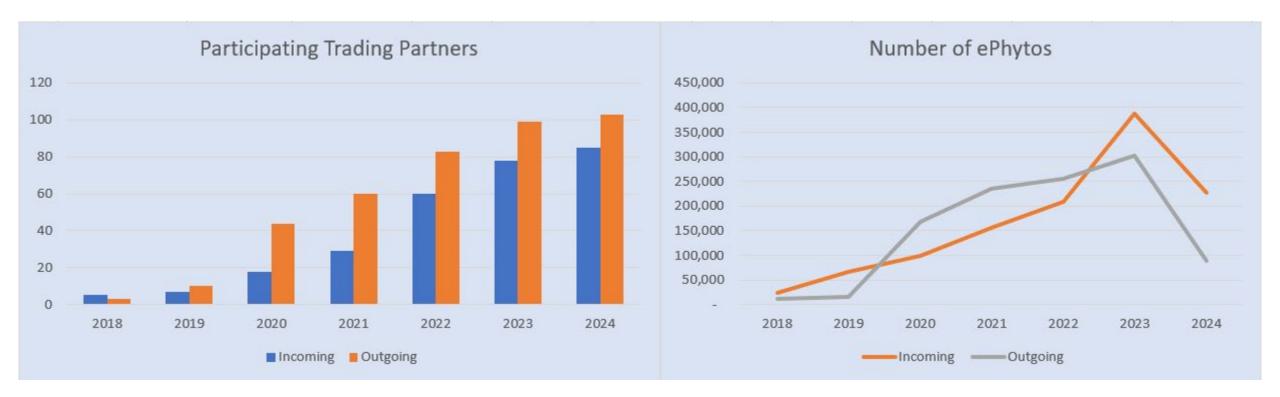
### Summary of the certificates successfully exchanged through the HUB



https://www.ephytoexchange.org/landing/



## ePhyto Trading Partner Participation



https://www.aphis.usda.gov/aphis/ourfocus/planthealth/sa\_export/ephyto-participating-countries Data through March 28, 2024

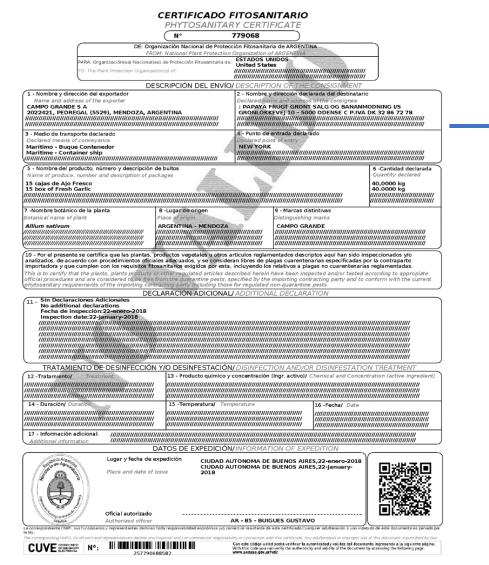


# **Benefits of Going Digital**

- Can be difficult to identify
- Quantitative (government and industry)
  - Time/Cost
    - Certificates issued faster
    - Directly to foreign government ٠
      - Eliminates courier/transport of paper document costs/issues
      - US industry reports a minimum of \$25/shipment prior to ePhyto
    - Eliminates lost certificates ٠
      - Chile released a shipment with an ePhyto saving industry \$40,000 in demurrage charges
    - Post issuance activities much faster ٠
      - Morocco example replacements used to take a minimum of 1 day to arrive now in minutes ٠
      - Argentinian example requirements changed and the certificate was missing required information, the replacement was received within an hour preventing the loss of perishable commodity
    - US eliminated security paper saving roughly \$200K/year
- **Oualitative** 
  - Advanced reporting
  - **Risk analysis** ۲
  - Enhanced/changed processes
  - Eliminates fraud

# **Benefits of Going Digital (2)**

#### Argentina certificate (from their system)



#### Same certificate received from Argentina via ePhyto in US

PCIT Generated Foreign Certificate Derived from Electronically Supplied D		FOR OFFICIAL USE	ONLY			
Servicio Nacional de Sanidad y Calio Agroalimentaria	dad	PLACE OF ISSUE FUERTO DE BUENOS AIRES (CI BUENOS AIRES)	UDAD AUTONOMA DE	X		
PHYTOSANITARY CERTIFICATE		NO. 779068	068			
TO: THE PLANT PROTECTION ORGANIZATIO United States	TO: THE PLANT PROTECTION ORGANIZATION(S) OF DATE INSPEC United States DATE INSPEC					
		CERTIFICATION				
This is to certify that the plants, plant product or other re procedures and are considered to be free from the quar requirements of the importing contracting party including	antine pests,	specified by the importing contracting				
DISIN		AND/OR DISINFECTION TREATM	ENT			
	DESCRI	PTION OF THE CONSIGNMENT				
1. NAME AND ADDRESS OF EXPORTER CAMPO GRANDE S A		2. DECLARED NAME AND ADDRESS OF THE CONSIGNEE : PAPAYA FRUGT GRONT SALG OG BANANMODNING I/S				
2022421, PEDREGAL (5529), MENDOZA, ARGE	NTINA			IVA DK 32 86 72 78		
3. NAME OF PRODUCE AND QUANTITY DECLARED (1) garlic (Bulbs) 40.0000 kilogram		4. BOTANICAL NAME OF P (1) Allium sativu				
5. NUMBER AND DESCRIPTION OF PACKAGES (1) 15 Box		6. DISTINGUISHING MARK (1) CAMPO GRANDE	s			
7. PLACE OF ORIGIN (1) MENDOZA		8. DECLARED MEANS OF Container ship (Maritin	ne transport)			
		9. DECLARED POINT OF E NEW YORK	NTRY			
	ADI	DITIONAL DECLARATION				
No additional declarations						
				Page 1 of 1		
	. INSPECTOR			ZED OFFICER (Type or Print)		
April 10, 2018			AR - 85 BUIGUES (	JUSTAVO		
No financial liability with respect to this certificate shall a representatives.	attach to Serv	<i>r</i> icio Nacional de Sanidad y Calidad A	groalimentaria or to an	y of its officers or		



### Multifaceted between governments and stakeholders

			L	,						
				Sear	ch Results Total	:7				
Issuing Country	Certificate Number	Point of Entry	<u>Consignee</u>	<u>Status</u>	<u>Type</u>	ARM Status	ARM Inspection	Action Taken		
Colombia	CFE-01-000190-21	ABBEVILLE	ACE BOUQUETS	Issued	Export	Sent to CBP			View	
Colombia	CFE-01-000191-21	ABBEVILLE	ACE BOUQUETS	Issued	Export	Sent to CBP			View	
Colombia	CFE-01-000194-21	ABBEVILLE	ACE BOUQUETS	Issued	Export	Sent to CBP			View	
Colombia	CFE-01-000195-21	ABBEVILLE	ACE BOUQUETS	Issued	Export	Sent to CBP			View	
Colombia	CFE-01-000196-21	ABBEVILLE	ACE BOUQUETS	Issued	Export	Sent to CBP			View	
Colombia	CFE-01-000197-21	ABBEVILLE	ACE BOUQUETS	Issued	Export	Sent to CBP			View	-

Incoming

#### Outgoing

List of Processed Applications									
<u>Tracking /</u> Certificate Number	<u>Status</u>	<u>Issued</u> Date	<u>Destination</u>	OCPA®	<u>ePhyto</u> <u>Sent</u>	<u>ePhyto</u> <u>Received</u>			
47332 F-F-02068-00047332-7-N	Printed	08/31/2021	Colombia		Yes	Yes	View	Manage	

Added Indicator to Paper PCs:

FOR OFFICIAL USE ONLY SENT VIA EPHYTO



Uganda	Yes	No	Yes	No	07/22/2020	Edit
Ukraine						(Edit)
United Arab Emirates						Edit
United Kingdom						Edit

PCIT eCert

- Enable trading partners in seconds •
- Send and/or receive ٠
- Special considerations ٠
  - Receive with Base 64
  - Send with Digital Signature

Arg	jentina
Receive from	
Receive with Base64	
Send to	
Send with Digital Signature	
Send electronic certificates effective date	11/13/2019 mm/dd/yyyy
Save	Cancel



# **Recent Changes**

- Quality control
  - Removal of non-quantitative units of measure (11)
  - Removal of redundant parts (39)
  - Corrected 2.3 million records
  - Cleanup Harmful Organism list (2600 removed)
- Cotton interface
- Itext conversion replaced Oracle reports



# **Ongoing Changes**

- Global ePhyto
  - Sustainable Funding
  - Translation into other languages (GeNS)
    - French, Arabic (live), Spanish (in progress) •
  - Continued collaboration with non-phytosanitary agencies/organizations (OIE/Codex/Others)
  - Linkage to other government systems (Single Windows, Customs, Industry, etc.)
- USDA PCIT
  - Technology refresh React, PostgreSQL, AZURE
  - ePhyto harmonization (Response messages (NNCs), ADs, and Treatments)
  - Report enhancements
  - Channels for ePhyto



- When exchange begins, it's not over.....
- Can start slow, don't have to start with 100% in either imports and exports
- Key contact for troubleshooting/testing
- Monitor, monitor, monitor
- Take advantage of technology to modify processes



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## Thank you for your attention!

## **Questions?**