



Food and Agriculture  
Organization of the  
United Nations



International  
Plant Protection  
Convention



INTERNATIONAL YEAR OF  
**PLANT HEALTH**

2020

PROTECTING PLANTS,  
PROTECTING LIFE

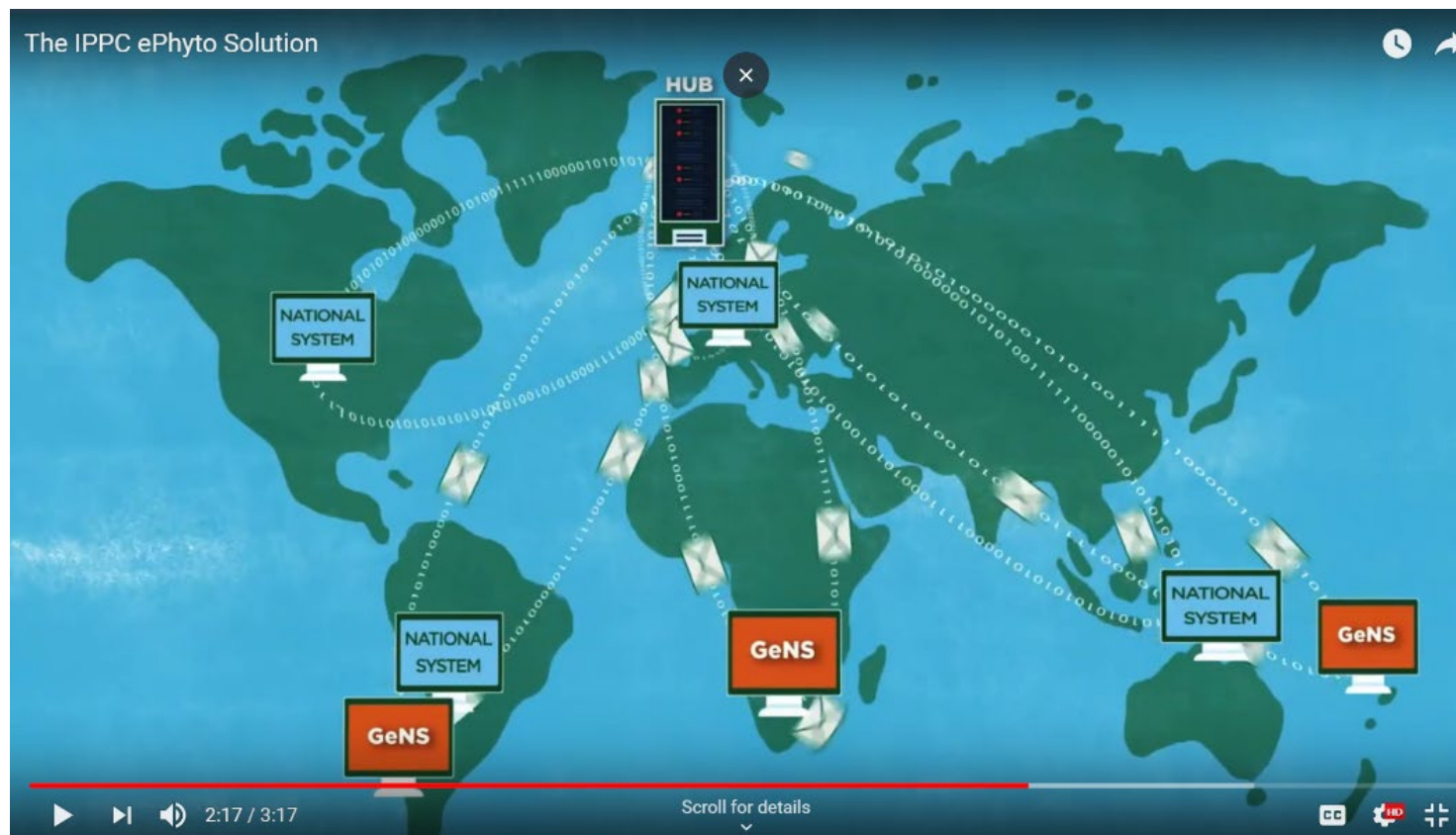
# ePhyto Solution Status Update

**IPPC Secretariat**

**2020 IPPC RWs**

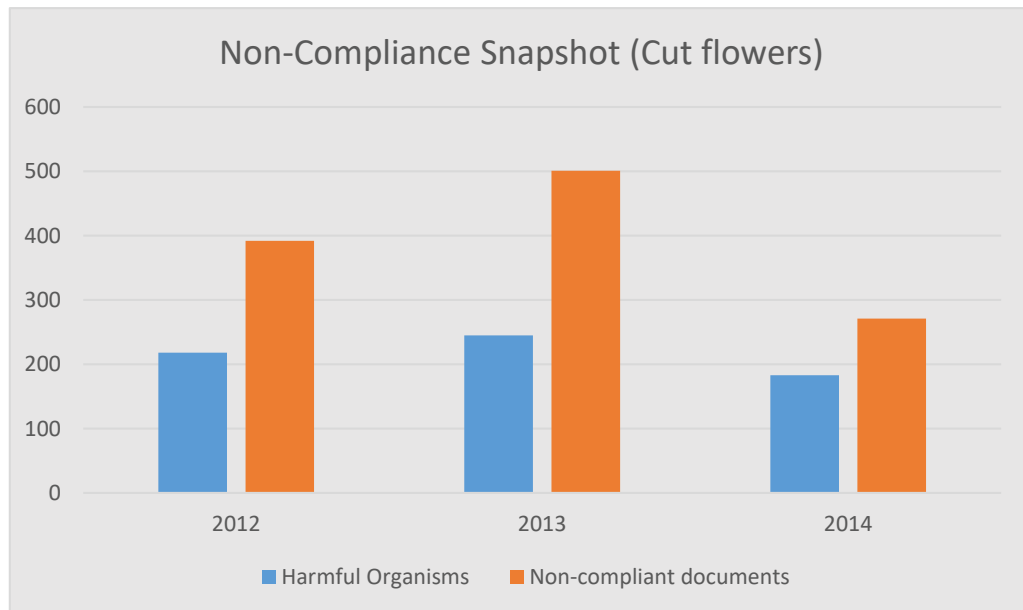
# Overview of ePhyto in 3 minutes

This video demonstrates the dynamics of the ePhyto Solution and the benefits it holds for both National Plant Protection Organizations (NPPOs) and Industry.



[www.ephytoexchange.org](http://www.ephytoexchange.org)

# Why ePhyto?



A 3-year survey showed non-compliant documents trigger a higher number of import rejections than actual plant health issues (harmful organisms)

- Reduces non-compliant certificates = More paper work rejections than pest finds.
- Eliminates inefficient paper processes = labor intensive.
- Reduces the re-issuance of paper phytosanitary certificates = tremendous cost in time and money with paper.
- Loss of commodities waiting for clearance.
- Reduces industry claims for late deliveries or bad quality.
- Improved security
- ePhyto protects legitimate trade.
  - Fraudulent certificates
  - Pest introduction

# The ePhyto solution

## Hub

System to  
facilitate  
exchange of  
ePhytos  
between  
NPPOs  
(via national  
systems or the  
GeNS)

## GeNS

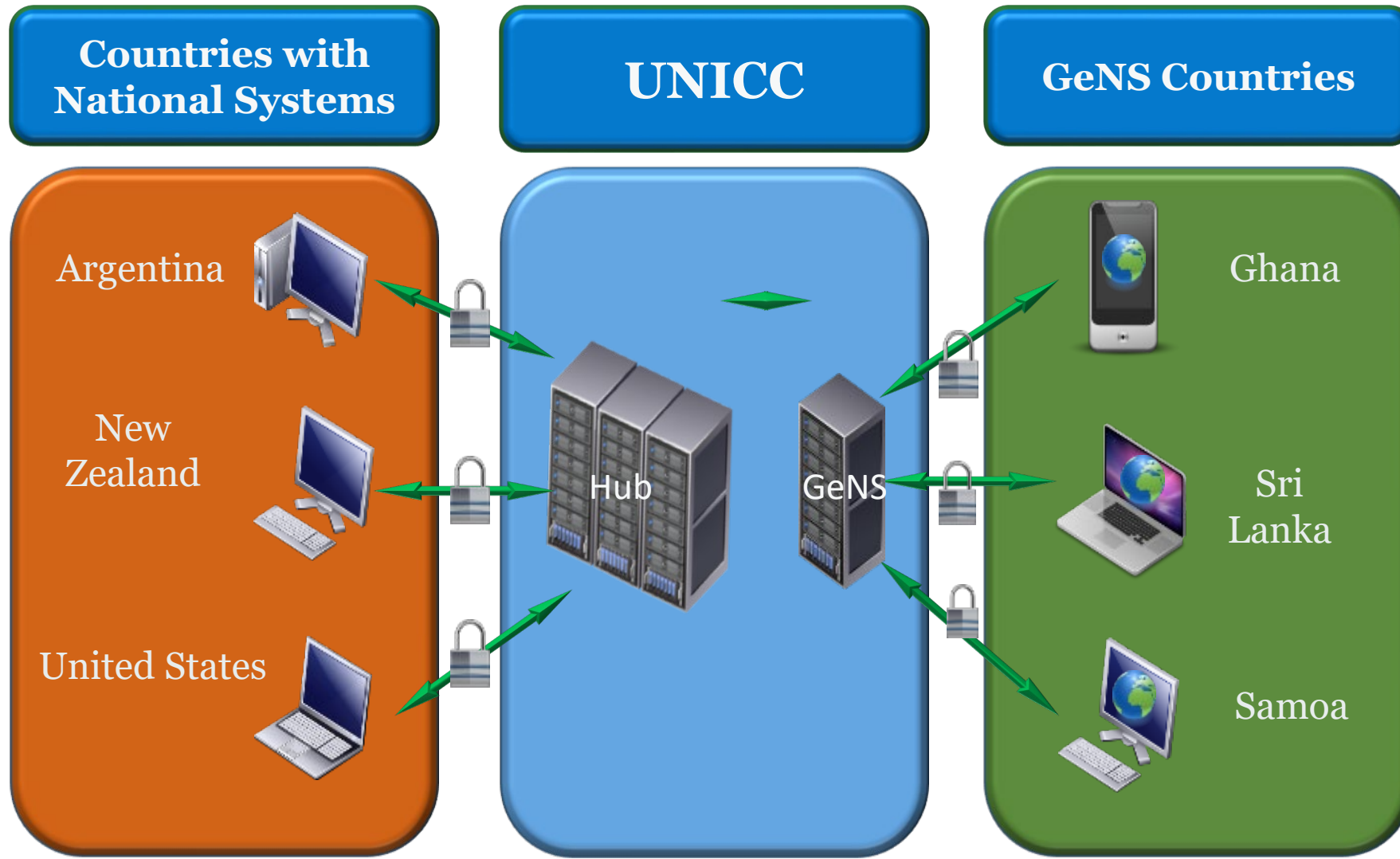
### Generic ePhyto National System

Centralized web-  
based 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 solution





# What is an ePhyto?

The diagram illustrates the mapping from an XML SPS Certificate to a PDF paper certificate. The XML is on the left, the PDF is on the right, and a green arrow points from the XML to the PDF. A red box with 'pdf' is also shown.

**XML SPS Certificate (Left):**

```

<?xml version='1.0' encoding='UTF-8' standalone='true'?>
<SPSCertificate xmlns="urn:unec:unefact:data:standard:SPS:Certificate:17" xmlns:unec="urn:unec:unefact:data:standard:SPS:Certificate:17" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="urn:unec:unefact:data:standard:SPS:Certificate:17 unec:unefact:data:standard:SPS:Certificate:17.xsd">
  <ram:Name>NULL</ram:Name>
  <ram:ID>779068</ram:ID>
  <ram:TypeCode>851</ram:TypeCode>
  <ram:StatusCode>70</ram:StatusCode>
  <ram:IssueDateTime>
    <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:IncludedSPSNote>
      <ram:Subject>SPSFL</ram:Subject>
      <ram:ContentCode>5</ram:ContentCode>
    </ram:IncludedSPSNote>
    <ram:SignatorySPSAuthentication>
      <ns1:DateTimeString>NULL</ns1:DateTimeString>
    </ram:SignatorySPSAuthentication>
  </ram:IssuerSPSParty>
  <ram:SpecifiedSPSAddress>
    <ram:Name>PUERTO DE BUENOS AIRES (CIUDAD AUTONOMA DE BUENOS AIRES)</ram:Name>
    <ram:IncludedSPSAddress>
      <ram:LineOne>
        <ram:Name>AR - 85 BUIQUES GUSTAVO</ram:Name>
      </ram:LineOne>
    </ram:IncludedSPSAddress>
  </ram:SpecifiedSPSAddress>
  <ram:Consignment>
    <ram:Name>CAMPO GRANDE S A</ram:Name>
    <ram:IncludedSPSConsignment>
      <ram:LineOne>
        <ram:Name>2022421, PEDREGAL (5529), MENDOZA, ARGENTINA</ram:Name>
      </ram:LineOne>
    </ram:IncludedSPSConsignment>
  </ram:Consignment>
  <ram:ExportSPSParty>
    <ram:Name>PAPAYA FRUIT GRONT SALG OG BANANMODNING I/S</ram:Name>
    <ram:IncludedSPSExportSPSParty>
      <ram:LineOne>
        <ram:Name>GRONLOKKEVEJ 10 - 5000 ODENSE C P.IVA DK 32 86 72 78</ram:Name>
      </ram:LineOne>
    </ram:IncludedSPSExportSPSParty>
  </ram:ExportSPSParty>
  <ram:ImportSPSParty>
    <ram:Name>AR</ram:Name>
    <ram:IncludedSPSImportSPSParty>
      <ram:LineOne>
        <ram:Name>NEW YORK</ram:Name>
      </ram:LineOne>
    </ram:IncludedSPSImportSPSParty>
  </ram:ImportSPSParty>
  <ram:MainCarriageSPSTransportMovement>
    <ram:ModeCode>1</ram:ModeCode>
    <ram:UsedSPSTransportMeans>
      <ram:Name>Container ship</ram:Name>
    </ram:UsedSPSTransportMeans>
  </ram:MainCarriageSPSTransportMovement>
  <ram:IncludedSPSConsignmentItem>
    <ram:SequenceNumeric>0</ram:SequenceNumeric>
    <ram:Description languageID="en">Fresh Garlic</ram:Description>
    <ram:CommonName languageID="en">garlic</ram:CommonName>
    <ram:NetWeightMeasure unitCode="KGR">40.0000</ram:NetWeightMeasure>
    <ram:AdditionalInformationSPSNote>
      <ram:Subject>DMTLL</ram:Subject>
      <ram:Content>CAMPO GRANDE</ram:Content>
    </ram:AdditionalInformationSPSNote>
    <ram:AdditionalInformationSPSNote>
      <ram:Subject>ADTLL</ram:Subject>
      <ram:Content languageID="en">No additional declarations</ram:Content>
    </ram:AdditionalInformationSPSNote>
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    </ram:AdditionalInformationSPSNote>
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      <ram:SystemName>IPPCPCVP</ram:SystemName>
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    </ram:ApplicableSPSCClassification>
    <ram:ApplicableSPSCClassification>
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      <ram:ClassName languageID="en">Fresh</ram:ClassName>
    </ram:ApplicableSPSCClassification>
    <ram:ApplicableSPSCClassification>
      <ram:SystemName>IPPCPCIOU</ram:SystemName>
      <ram:ClassName languageID="en">Consumption</ram:ClassName>
    </ram:ApplicableSPSCClassification>
    <ram:ApplicableSPSCClassification>
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      <ram:ClassName>Allium sativum</ram:ClassName>
    </ram:ApplicableSPSCClassification>
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      <ram:LevelCode>1</ram:LevelCode>
      <ram>TypeCode>BX</ram>TypeCode>
      <ram:ItemQuantity>15</ram:ItemQuantity>
    </ram:PhysicalSPSPackage>
    <ram:OriginSPSCountry>
      <ram>ID>AR</ram>ID>
      <ram>Name>NULL</ram>Name>
      <ram:SubordinateSPSCCountrySubDivision>
        <ram>Name>MENDOZA</ram>Name>
        <ram>HierarchicalLevelCode>0</ram>HierarchicalLevelCode>
      </ram:SubordinateSPSCCountrySubDivision>
    </ram:OriginSPSCountry>
    <ram>IncludedSPSConsignmentItem>
      <ram>IncludedSPSConsignmentItem>
    </ram>IncludedSPSConsignmentItem>
  </ram>IncludedSPSConsignmentItem>
</SPSCertificate>

```

**PDF Paper Certificate (Right):**

The PDF is a paper certificate with a green border and a red stamp. It contains the following information:

- Header:** REPUBLICA ARGENTINA, MINISTERIO DE AGRICULTURA, GANADERIA Y PESQUERIA, SECRETARIA DE SANIDAD Y CALIDAD AGROALIMENTARIA.
- Subject:** CAMPO GRANDE S A
- Origin:** PUERTO DE BUENOS AIRES (CIUDAD AUTONOMA DE BUENOS AIRES)
- Exporting Party:** PAPA FRUIT GRONT SALG OG BANANMODNING I/S
- Importing Party:** GRONLOKKEVEJ 10 - 5000 ODENSE C P.IVA DK 32 86 72 78
- Mode of Transport:** Container ship
- Product:** Fresh Garlic
- Net Weight:** 40.0000 KGR
- Classification:** IPPCPCVP, IPPCPC, IPPCPCIOU, BN
- Physical Package:** BX, 15
- Origin:** AR
- Subordinate Country:** MENDOZA
- Classification:** Allium sativum

**Red Box:** pdf



**NOT** a  
paper  
certificate



**NOT a  
scanned  
certificate**

## Argentina certificate (from their system) in US

## Same certificate received from Argentina via ePhyto

**CERTIFICADO FITOSANITARIO**  
**PHYTOSANITARY CERTIFICATE**

N° **779068**

DE: Organización Nacional de Protección Fitosanitaria de ARGENTINA  
FROM: National Plant Protection Organization of ARGENTINA

PARA: Organización Nacional(es) de Protección Fitosanitaria de: **ESTADOS UNIDOS**  
United States

(To: The Plant Protection Organization(s) of:)

**DESCRIPCIÓN DEL ENVÍO/ DESCRIPTION OF THE CONSIGNMENT**

1 - Nombre y dirección del exportador Name and address of the exporter <b>CAMPO GRANDE S A</b> <b>2022421, PEDREGAL (5529), MENDOZA, ARGENTINA</b>	2 - Nombre y dirección declarada del destinatario Declared name and address of consignee <b>: PAPAYA FRUIT GROWT SALG OG BANANMODDING US</b> <b>GRONLOKKEVEJ 10 - 5000 ODENSE C P.IVA DK 32 86 72 78</b>
3 - Medio de transporte declarado Declared means of conveyance <b>Marítimo - Buque Container</b> <b>Maritime - Container ship</b>	4 - Punto de entrada declarado Declared point of entry <b>NEW YORK</b>
5 - Nombre del producto, número y descripción de bultos Name of produce, number and description of packages <b>15 cajas de Ajo Fresco</b> <b>15 box of Fresh Garlic</b>	6 - Cantidad declarada Quantity declared <b>40.0000 kg</b> <b>40.0000 kg</b>
7 - Nombre botánico de la planta Botanical name of plant <b>Allium sativum</b>	8 - Lugar de origen Place of origin <b>ARGENTINA - MENDOZA</b>
	9 - Marcas distintivas Distinguishing marks <b>CAMPO GRANDE</b>

10 - Por el presente se certifica que las plantas, productos vegetales u otros artículos reglamentados descritos aquí han sido inspeccionados y/o analizados, de acuerdo con procedimientos oficiales adecuados, y se consideran libres de plagas cuarentenarias especificadas por la contraparte importadora y que cumplen con los requisitos fitosanitarios exigidos por esta, incluyendo los relativos a plagas no cuarentenarias reglamentadas.  
This is to certify that the plants, plants products or other regulated articles described herein have been inspected and/or tested according to appropriate official procedures and are considered to be free from the quarantine pests, specified by the importing contracting party and to conform with the current phytosanitary requirements of the importing contracting party including those for regulated non-quarantine pests.

**DECLARACIÓN ADICIONAL/ ADDITIONAL DECLARATION**

11 - Sin Declaraciones Adicionales  
No additional declarations  
Fecha de inspección: 22 enero-2018  
Inspection date: 22 January-2018

**TRATAMIENTO DE DESINFESTACIÓN Y/O DESINFESTACIÓN/ DISINFESTATION AND/OR DISINFESTATION TREATMENT**

12 - Tratamiento Treatment	13 - Producto químico y concentración (Ingr. activo)/ Chemical and Concentration (active ingredient)
14 - Duración Duration	15 - Temperatura Temperature
16 - Fecha Date	

17 - Información adicional  
Additional information

**DATOS DE EXPEDICIÓN/ INFORMATION OF EXPEDITION**

Lugar y fecha de expedición  
Place and date of issue  
**CIUDAD AUTONOMA DE BUENOS AIRES, 22-enero-2018**  
**CIUDAD AUTONOMA DE BUENOS AIRES, 22-January-2018**

Oficial autorizado  
Authorized officer  
**AR - 85 - BUIQUES GUSTAVO**

La correspondiente CNIP, sus funcionarios y representantes declinan toda responsabilidad económica y/o comercial resultante de este certificado. Cualquier adición o uso indebido de este documento es perseguido por ley.  
The corresponding CNIP, its officers and representatives decline any financial and/or commercial responsibility in connection with this certificate. Any addition or improper use of this document is punished by law.  
Con este código usted podrá verificar la autenticidad y validez del documento ingresando a la siguiente página:  
With this code you can verify the authenticity and validity of the document by accessing the following page:  
[www.argentina.gob.ar/phyto](http://www.argentina.gob.ar/phyto)

**CUVE** 25790688582

PCIT Generated Foreign Certificate Derived from Electronically Supplied Data	FOR OFFICIAL USE ONLY	<b>X</b>
<b>Servicio Nacional de Sanidad y Calidad Agroalimentaria</b>	PLACE OF ISSUE PUERTO DE BUENOS AIRES (CIUDAD AUTONOMA DE BUENOS AIRES)	
<b>PHYTOSANITARY CERTIFICATE</b>	NO. <b>779068</b>	
TO: THE PLANT PROTECTION ORGANIZATION(S) OF United States	DATE INSPECTED April 10, 2018	
<b>CERTIFICATION</b>		
This is to certify that the plants, plant product or other regulated articles described herein have been inspected and/or tested according to appropriate official procedures and are considered to be free from the quarantine pests, specified by the importing contracting party and to conform with the current phytosanitary requirements of the importing contracting party including those for regulated non-quarantine pests.		
<b>DISINFESTATION AND/OR DISINFECTION TREATMENT</b>		
<b>TREATMENT DETAILS</b>		
<b>DESCRIPTION OF THE CONSIGNMENT</b>		
1. NAME AND ADDRESS OF EXPORTER CAMPO GRANDE S A 2022421, PEDREGAL (5529), MENDOZA, ARGENTINA	2. DECLARED NAME AND ADDRESS OF THE CONSIGNEE : PAPAYA FRUIT GROWT SALG OG BANANMODDING I/S GRONLOKKEVEJ 10 - 5000 ODENSE C P.IVA DK 32 86 72 78	
3. NAME OF PRODUCE AND QUANTITY DECLARED (1) garlic (Bulbs) 40.0000 kilogram	4. BOTANICAL NAME OF PLANTS (1) Allium sativum	
5. NUMBER AND DESCRIPTION OF PACKAGES (1) 15 Box	6. DISTINGUISHING MARKS (1) CAMPO GRANDE	
7. PLACE OF ORIGIN (1) MENDOZA	8. DECLARED MEANS OF CONVEYANCE Container ship (Maritime transport)	
	9. DECLARED POINT OF ENTRY NEW YORK	
<b>ADDITIONAL DECLARATION</b>		
No additional declarations		
Page 1 of 1		
10. DATE ISSUED April 10, 2018	11. INSPECTOR	12. NAME OF AUTHORIZED OFFICER (Type or Print) AR - 85 BUIQUES GUSTAVO
No financial liability with respect to this certificate shall attach to Servicio Nacional de Sanidad y Calidad Agroalimentaria or to any of its officers or representatives.		

Standardized format leads to easier document review

# Country Participation

## Actively Exchanging ePhytos – 41 Countries

- |  |  |
|--|--|
| <ul style="list-style-type: none"> <li>▪ <b>Argentina</b></li> <li>▪ <b>Brazil</b></li> <li>▪ <b>Chile</b></li> <li>▪ <b>Costa Rica</b></li> <li>▪ <b><u>Dominica</u></b></li> <li>▪ <b>European Union (EU)*</b></li> <li>▪ <b><u>Fiji</u></b></li> <li>▪ <b><u>Ghana</u></b></li> </ul> | <ul style="list-style-type: none"> <li>▪ <b><u>Jamaica</u></b></li> <li>▪ <b>Mexico</b></li> <li>▪ <b>Morocco</b></li> <li>▪ <b>New Zealand</b></li> <li>▪ <b>Republic of Korea</b></li> <li>▪ <b><u>Samoa</u></b></li> <li>▪ <b><u>Sri Lanka</u></b></li> <li>▪ <b>United States</b></li> </ul> |
|--|--|

- Underlined countries are using the GeNS.
- More than 25,000 ePhyto certificates are generated per month.

\* The EU can only receive ePhytos currently. However, the Netherlands can send and receive ePhytos.



# Hub - Country Participation

## Currently TESTING – 14 Countries

- |   |   |   |
|---|---|---|
| <ul style="list-style-type: none"><li>▪ <b>Australia</b></li><li>▪ <b>Cambodia</b></li><li>▪ <b>Canada</b></li><li>▪ <b>China</b></li><li>▪ <b>Colombia</b></li></ul> | <ul style="list-style-type: none"><li>▪ <b>Ecuador</b></li><li>▪ <b>Hong Kong</b></li><li>▪ <b>Kenya</b></li><li>▪ <b>Indonesia</b></li></ul> | <ul style="list-style-type: none"><li>▪ <b>Norway</b></li><li>▪ <b>Paraguay</b></li><li>▪ <b>Peru</b></li><li>▪ <b>South Africa</b></li><li>▪ <b>United Kingdom</b></li></ul> |
|---|---|---|
- 20 other countries have expressed interest

# GeNS - Country Participation

## Currently TESTING – 20 Countries

- |  |   |
|--|---|
| <ul style="list-style-type: none"><li>▪ Antigua and Barbuda</li><li>▪ Burkina Faso</li><li>▪ Cayman Islands</li><li>▪ Cook Islands</li><li>▪ Grenada</li><li>▪ Guatemala</li><li>▪ Ivory Coast</li><li>▪ Mali</li><li>▪ Marshall Islands</li><li>▪ Dominica Republic</li></ul> | <ul style="list-style-type: none"><li>▪ Myanmar</li><li>▪ Niger</li><li>▪ Papua New Guinea</li><li>▪ Saint Kitts and Nevis</li><li>▪ Saint Lucia</li><li>▪ Saint Vincent and Grenadines</li><li>▪ Sao Tome and Principe</li><li>▪ Senegal</li><li>▪ The Gambia</li><li>▪ Uganda</li></ul> |
|--|---|

- Approximately 50 other countries: Africa, Caribbean, and Pacific Islands regions
- Online ePhyto training available – <https://training.ephytoexchange.org/>



### IPPC ePhyto solutions - Training platform

GeNS Training is now live



# ePhyto Case Studies

## 9 ePhyto case studies were completed last year

- Grain
- Seeds
- Fruit

## Reported savings due to ePhyto (case studies)

- 1-2 days in time
- At least \$25 US dollars per shipment just in mailing costs (DHL, FedEx, UPS, hand carry)

## Example of two held shipments resolved by ePhyto

- **Grain shipment**
  - \$36,000 saved
  - Shipment released within hours rather than days
- **Pomegranate fruit shipment**
  - Perishable shipment
  - Shelf life maintained

# What's Next with ePhyto?

## ePhyto Solution – Hub and GeNS

- Exchange Notices of Non-Compliance
- Inspection findings
- Other government systems (Single Window, Customs, ASYCUDA, etc.)
- Industry systems
- Further collaboration with SPS agencies (OIE and CODEX)
- Further collaboration with non-phytosanitary agencies (CITES, Global Alliance for Trade Facilitation)
- Routine maintenance and enhancements
- Translation in other languages (GeNS)





# Questions?



# Contact us

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