

Connecting to the HUB ephyto in China



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Contents



Preparation for HUB connection

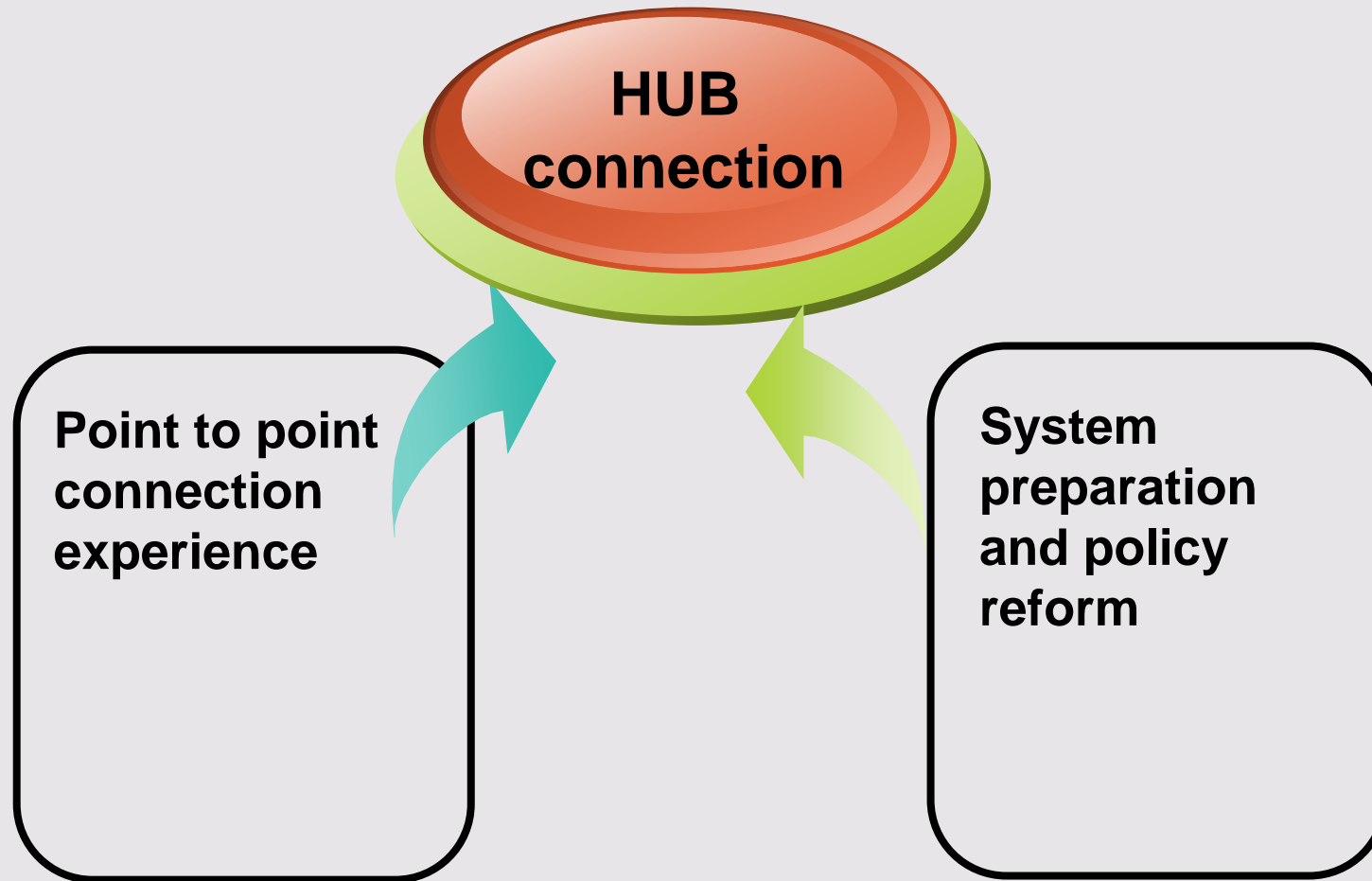


HUB testing



Future expectations

1. Preparation for the HUB connection



Point to point connection

- ✓ Facilitate the clearance the import & export goods
- ✓ Prevent the documents from being forged
- ✓ Protect sanitation and safety of goods



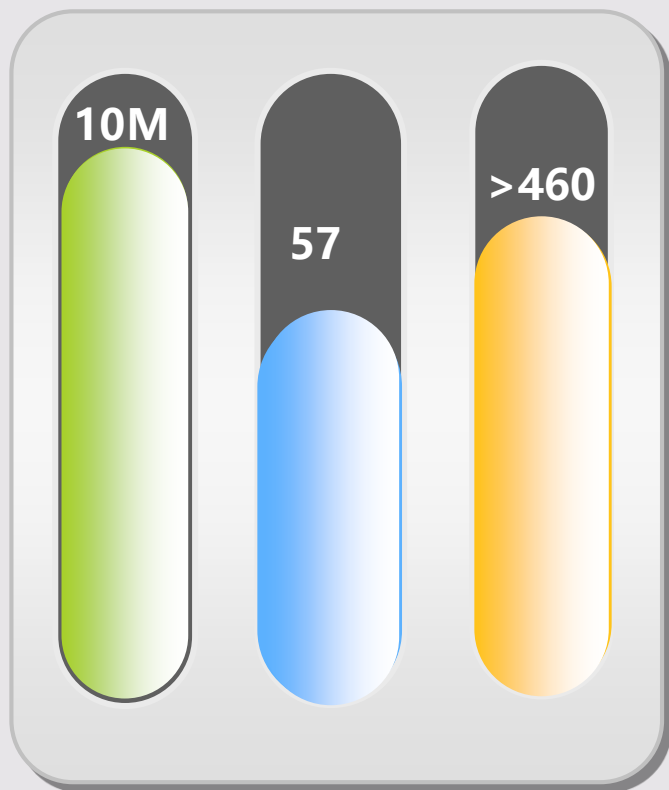
Develop the E-cert System in 2009
UN/CEFACT

2009

2010

Start to use from Jan. 1st, 2010





✓ More than 10 million E-certs uploaded

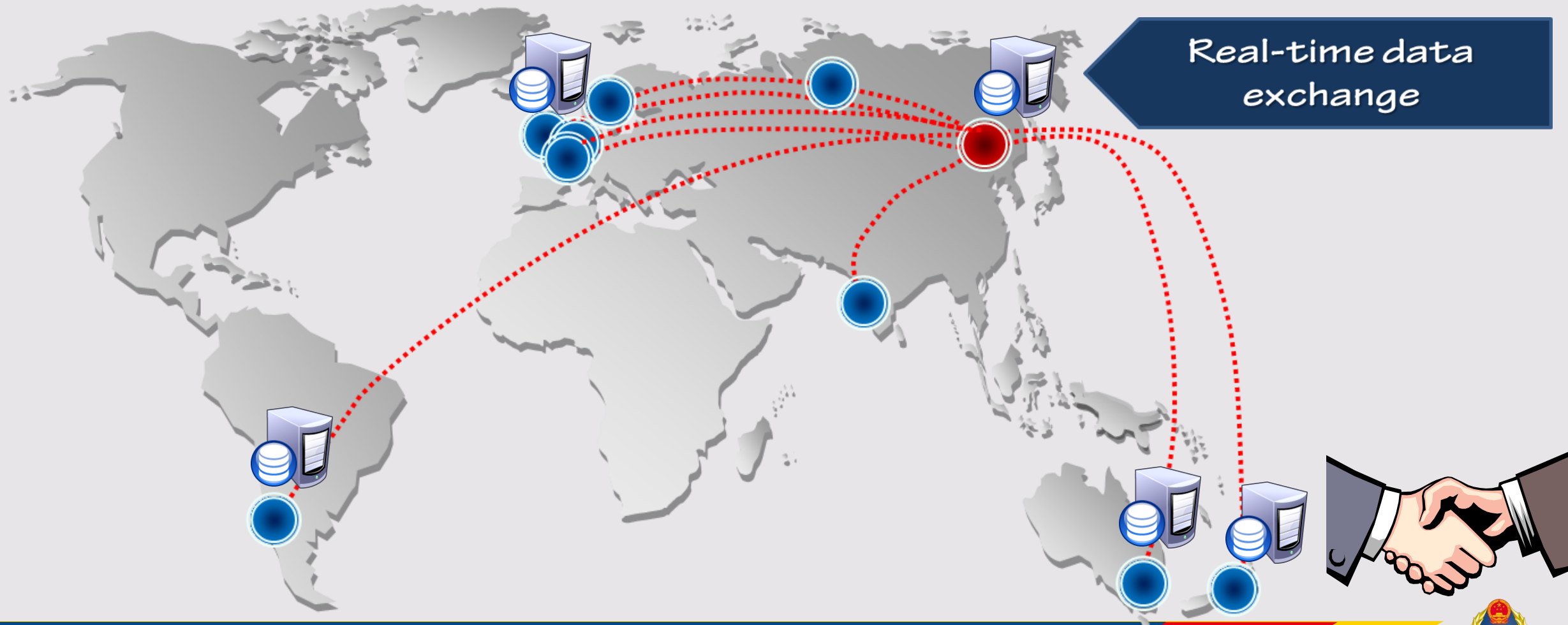


✓ 57 countries using the system



✓ Over 460 officials using the system



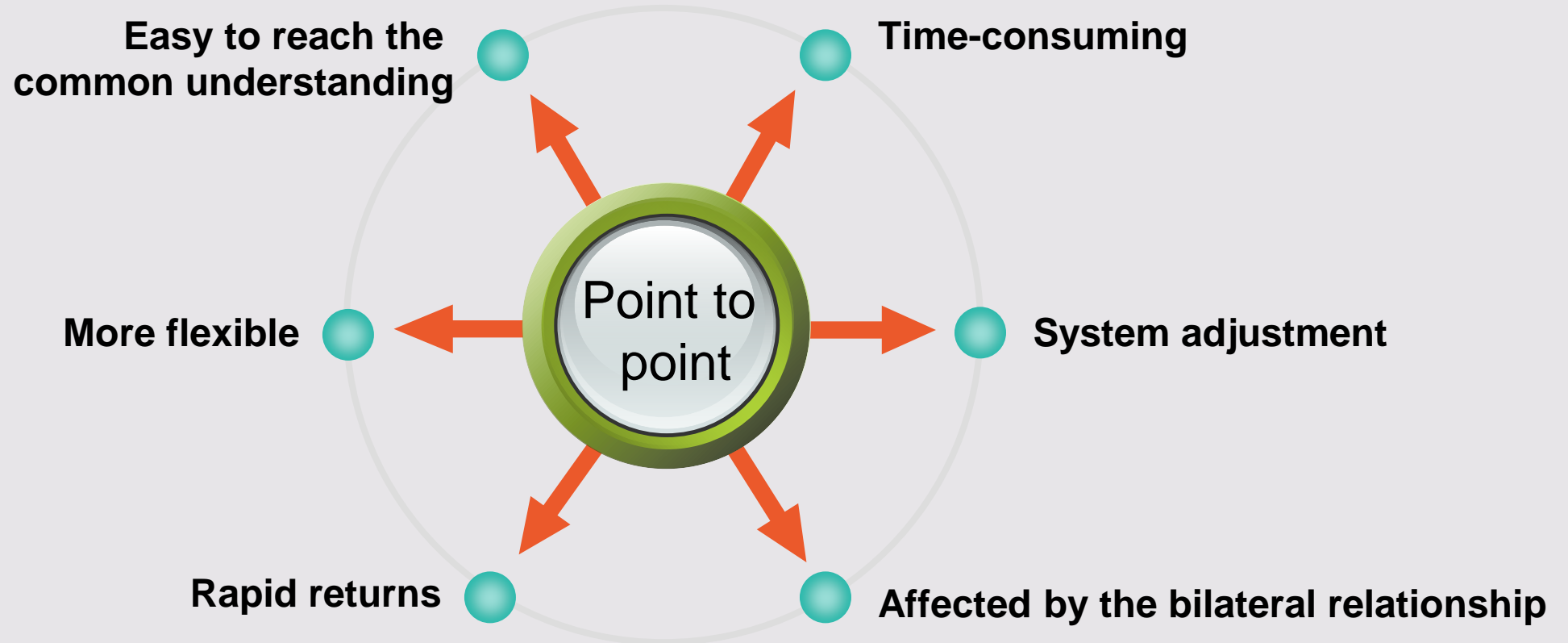


Real-time data exchange

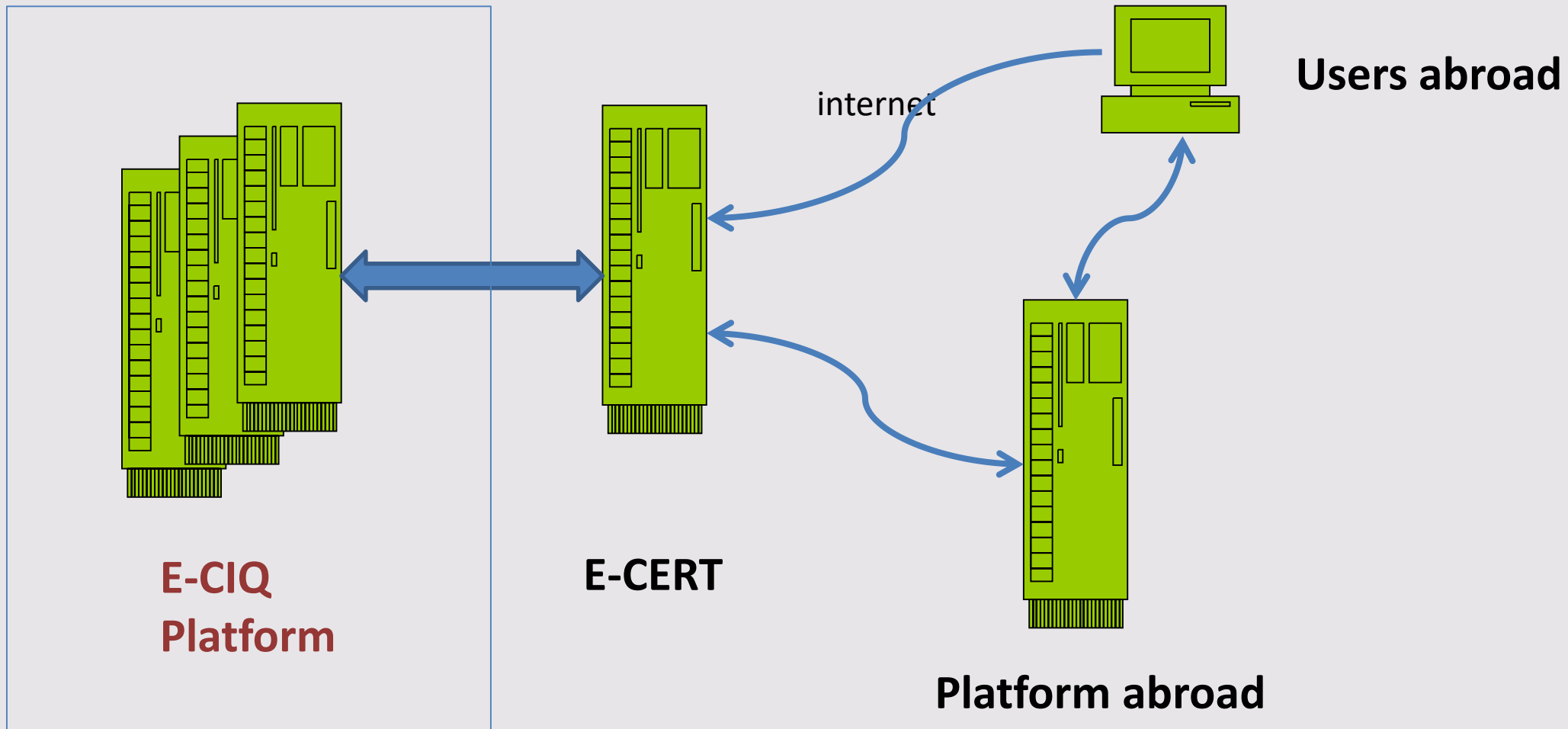


Pros

Cons

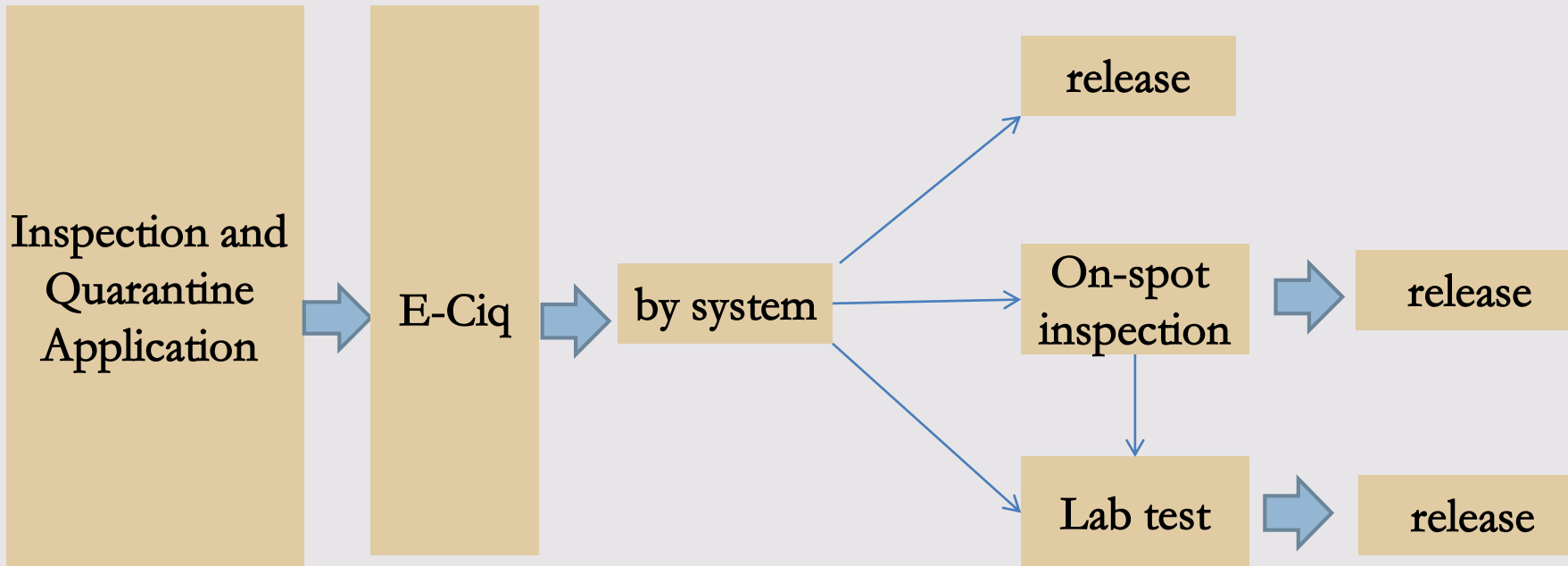


System preparation and policy reform



System preparation and policy reform

4 Unify



- Procedure
- proportion of container opening inspection
- proportion of lab sampling
- clearance time of inspection and quarantine



2. HUB testing

Import: 28

Received: 28 certs

Confirmed: 13 certs

From: US

Argentina

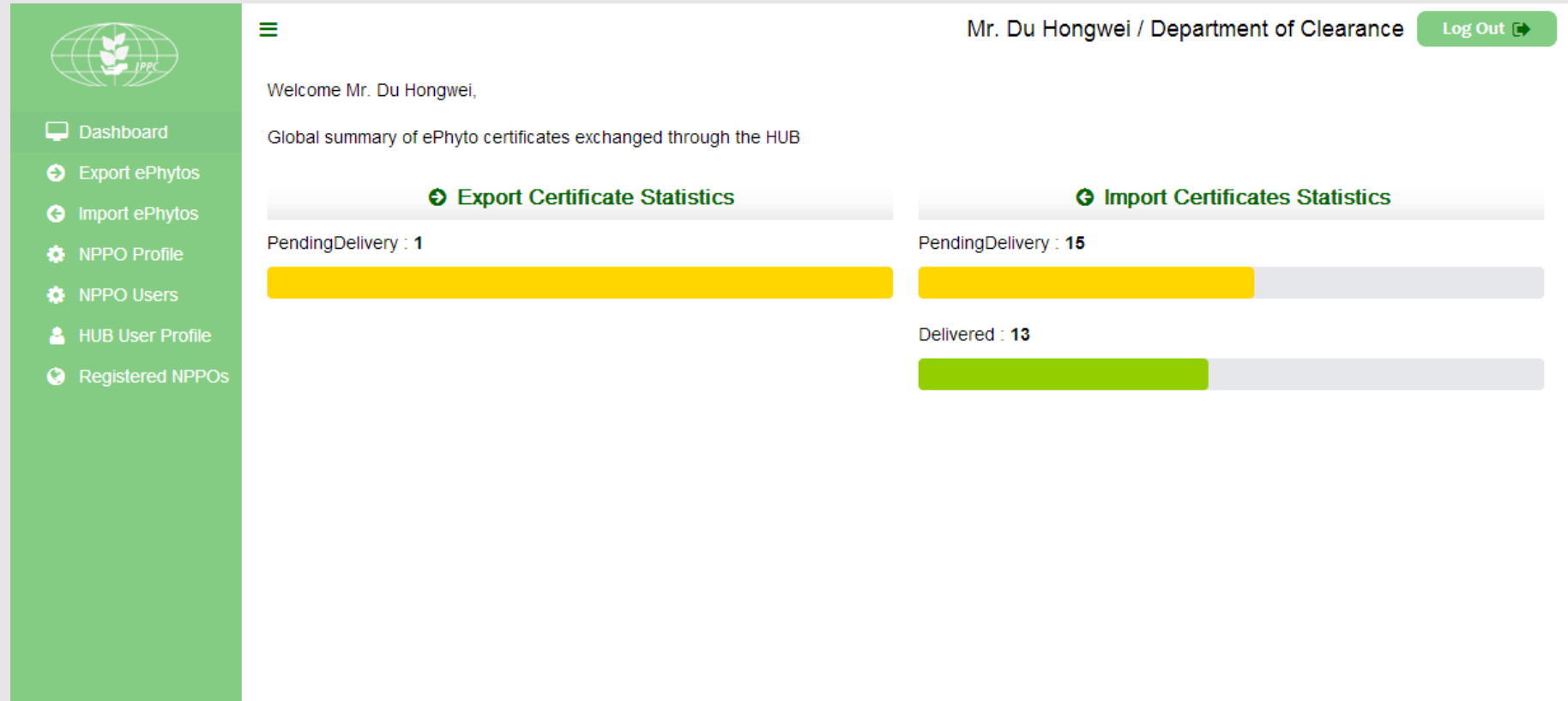
NZ

To: China

Export: 1

From: China

To: China



Main functions tested

The screenshot displays a SOAP client interface with two panels. The left panel, titled "Request 1", shows the XML structure of the outgoing request. The right panel shows the XML structure of the incoming response. The address bar indicates the endpoint is `https://uat-hub.ephytoexchange.org/hub/DeliveryService`.

Request XML:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
  <soapenv:Header/>
  <soapenv:Body>
    <eph:AcknowledgeEnvelopeReceipt>
      <eph:hubTrackingNumber>USCNA1711081704528488425</eph:hubTrackingNumber>
    </eph:AcknowledgeEnvelopeReceipt>
  </soapenv:Body>
</soapenv:Envelope>
```

Response XML:

```
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <ns2:AcknowledgeEnvelopeReceiptResponse xmlns="http://ephyt">
  </soap:Body>
</soap:Envelope>
```

response time: 4247ms (230 bytes) 5 : 57

Download the envelope and send the confirmation





- Dashboard
- Export ePhytos
- Import ePhytos
- NPPO Profile
- NPPO Users
- HUB User Profile



- Dashboard
- Export ePhytos
- Import ePhytos
- NPPO Profile
- NPPO Users
- HUB User Profile
- Registered NPPOs



Envelopes for Import

Search

From To

All Tracking Info

Hub Tracking Number	HUB Tracking Info	From	Receive...	Delivere...	Certifica...	Certifica...	Nppo Ce...
USCNA1711081704528488...	Delivered	US	09-Nov-1...	17-Jan-18...	Phyto	Issued	F-F-1312...
USCNA1711081913015145...	PendingDelivery	US	09-Nov-1...		Phyto	Issued	F-F-1312...
USCNA1711081917010545...	Delivered	US	09-Nov-1...	17-Jan-18...	Phyto	Issued	F-F-1312...



Envelopes for Import

Search

From To

Delivered

Hub Tracking Number	HUB Tracking Info	From	Receive...	Delivere...	Certifica...	Certifica...	Nppo Ce...
NZCNA1712202152322291408	Delivered	NZ	21-Dec-1...	17-Jan-18...	Phyto	Issued	NZL2017/...

The status is well reflected in Administration Console




```
Request 1
https://uat-hub.ephytoexchange.org/hub/DeliveryService

Raw XML
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
  <soapenv:Header/>
  <soapenv:Body>
    <eph:DeliverEnvelope>
      <eph:env>
        <hub:From>CN</hub:From>
        <hub:To>CN</hub:To>
        <hub:CertificateType>851</hub:CertificateType>
        <hub:CertificateStatus>39</hub:CertificateStatus>
        <hub:NPPOCertificateNumber>123123</hub:NPPOCertificateNumber>
        <hub:Content>123123</hub:Content>
      </eph:env>
    </eph:DeliverEnvelope>
  </soapenv:Body>
</soapenv:Envelope>

Raw XML
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <ns2:DeliverEnvelopeResponse xmlns="http://ephyto.ipcc.int/HUB.Entities" xmlns:ns2="http://www.w3.org/2003/05/soap-envelope" xsi:type="Envelope" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
      <From>CN</From>
      <To>CN</To>
      <CertificateType>851</CertificateType>
      <CertificateStatus>39</CertificateStatus>
      <NPPOCertificateNumber>123123</NPPOCertificateNumber>
      <hubDeliveryNumber>CNCNA180117091530916914</hubDeliveryNumber>
    </ns2:DeliverEnvelopeResponse>
  </soap:Body>
</soap:Envelope>
```

```
Request 1
https://uat-hub.ephytoexchange.org/hub/DeliveryService

Raw XML
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
  <soapenv:Header/>
  <soapenv:Body>
    <eph:GetEnvelopeTrackingInfo>
      <eph:hubTrackingNumber>CNCNA180117091530916914</eph:hubTrackingNumber>
    </eph:GetEnvelopeTrackingInfo>
  </soapenv:Body>
</soapenv:Envelope>

Raw XML
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <ns2:GetEnvelopeTrackingInfoResponse xmlns="http://ephyto.ipcc.int/HUB.Entities" xmlns:ns2="http://www.w3.org/2003/05/soap-envelope" xsi:type="Envelope" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
      <From>CN</From>
      <To>CN</To>
      <CertificateType>851</CertificateType>
      <CertificateStatus>39</CertificateStatus>
      <NPPOCertificateNumber>123123</NPPOCertificateNumber>
      <hubDeliveryNumber>CNCNA180117091530916914</hubDeliveryNumber>
      <HUBTrackingInfo>PendingDelivery</HUBTrackingInfo>
      <Content>123123</Content>
    </ns2:GetEnvelopeTrackingInfoResponse>
  </soap:Body>
</soap:Envelope>
```

A... Header... Attachmen... W... WS-... JMS Hea... JMS Proper...

response time: 529ms (704 bytes)

Headers (7) Attachments (0) SSL Info (4 certs) WSS (0) JMS (0)

8 : 20

Deliver the export certificate and trace the information

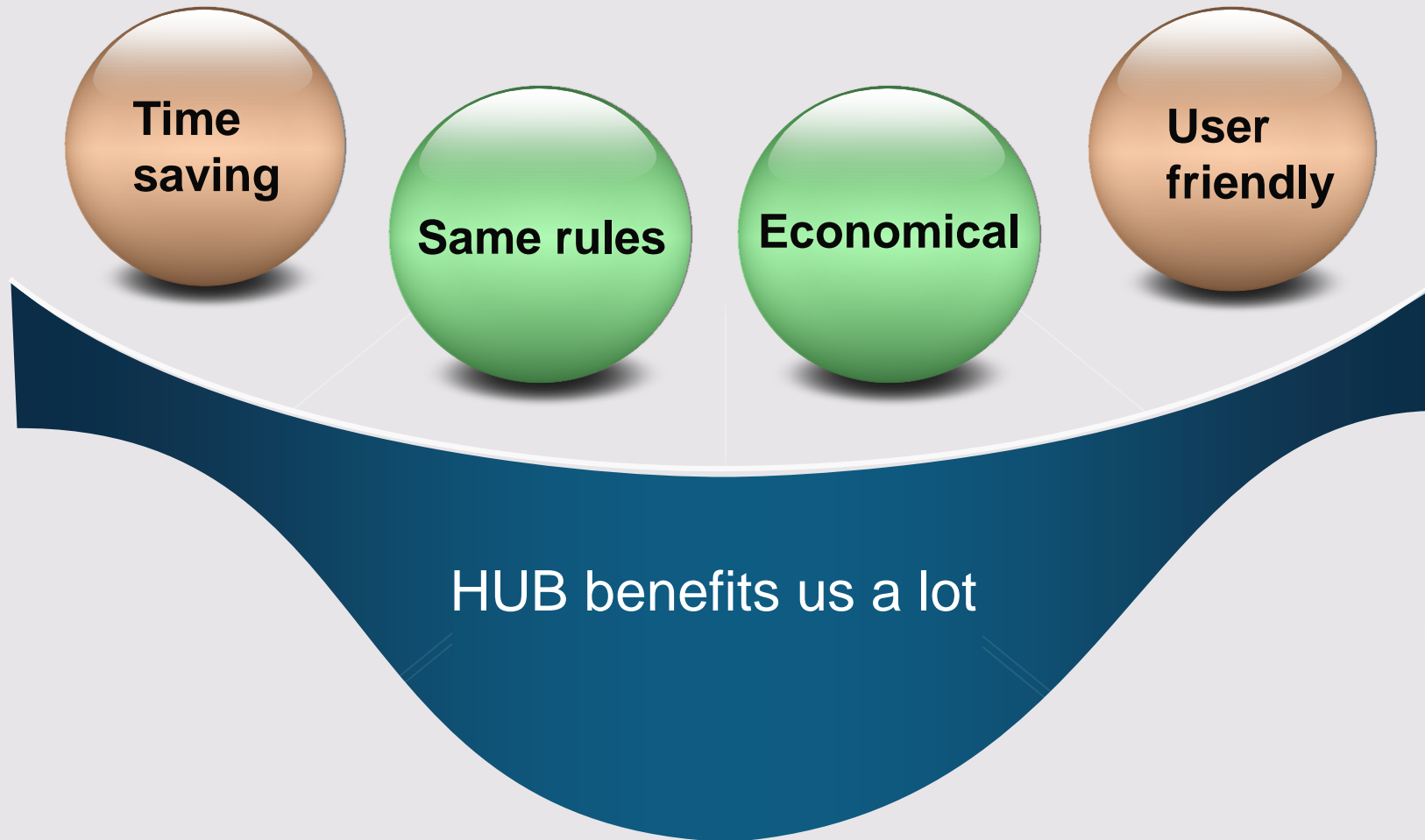


Conclusion:

- Test goes smoothly in accessing to the HUB, receiving and sending the ephyto
- some small adjustment on national system might needed to solve the possible problem of data structure and compatibility between different countries
- An interface needs to be developed to realize the real connection of our national system to HUB



3. Future expectations





HUB promotion, inviting more countries to involve in this beneficial project



HUB improving, optimizing user experience for participants



Funding support, having a stable and sustainable system



Trade facilitation, aiming at a complete paperless environment



Scope expansion, if possible, expanding the usage of HUB to other field, such as Animal Health Certificate



Thank You!

