



Experience of the Pacific Alliance for cross-border data exchange in Latin America

Pacific Alliance

217 millions of people (2015) Pacific Alliance

The four countries reach the **39% of the GDP** of LATAM America and the Caribbean

Trade between countries in 2015

Exportations **USD 513 thousand millions**

Importations **USD 549 thousand millions**

³ Average **Inflation** of the countries **4.4%**

2.6% GDP growth **USD 16,759 GDP** per capita



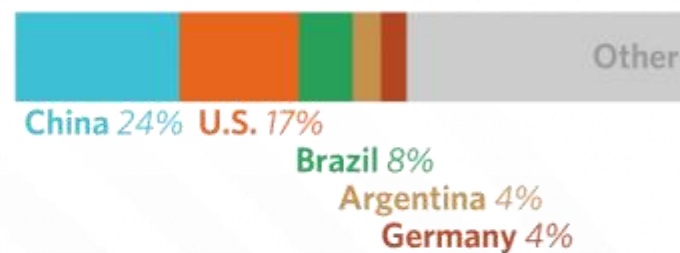


Pacific Alliance Members' Top Trading Partners

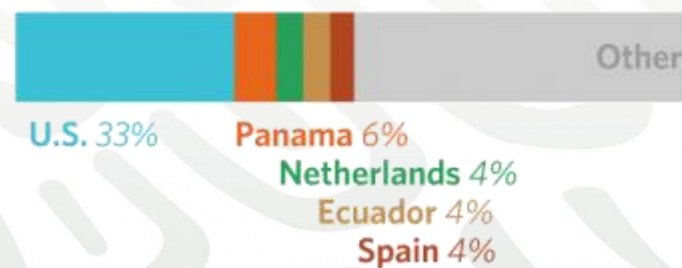
Mexico



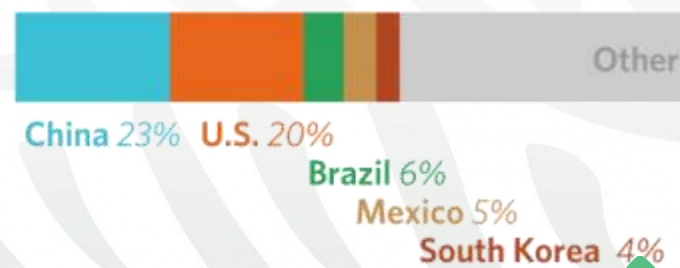
Chile



Colombia



Peru



3

Source: Trademap



The Pacific Alliance today



52 Observer States
The Pacific Alliance

The IV Red VUCE of the Inter American Development Bank (IADB) meeting in December 2013 in Santiago de Chile the members agreed to:

- Design and implement a system that helps to facilitate the integration of the SW of each country
- The integration and interoperability has to be end to end
- Two points of operation (sending information and response or acceptance or rejection
- Make a pilot and a proof of concept that set the basis for the implementation and later join new countries of the region considering the development of each SW and regulation





Promote the use of the Single Window for international trade of the countries members of the Pacific Alliance but more important the Interoperability like an instrument to facilitate the cross border paperless trade with the interchange of data including the content of the fito and zoo sanitary certificates and origin certificates.

Why the Pacific Alliance?

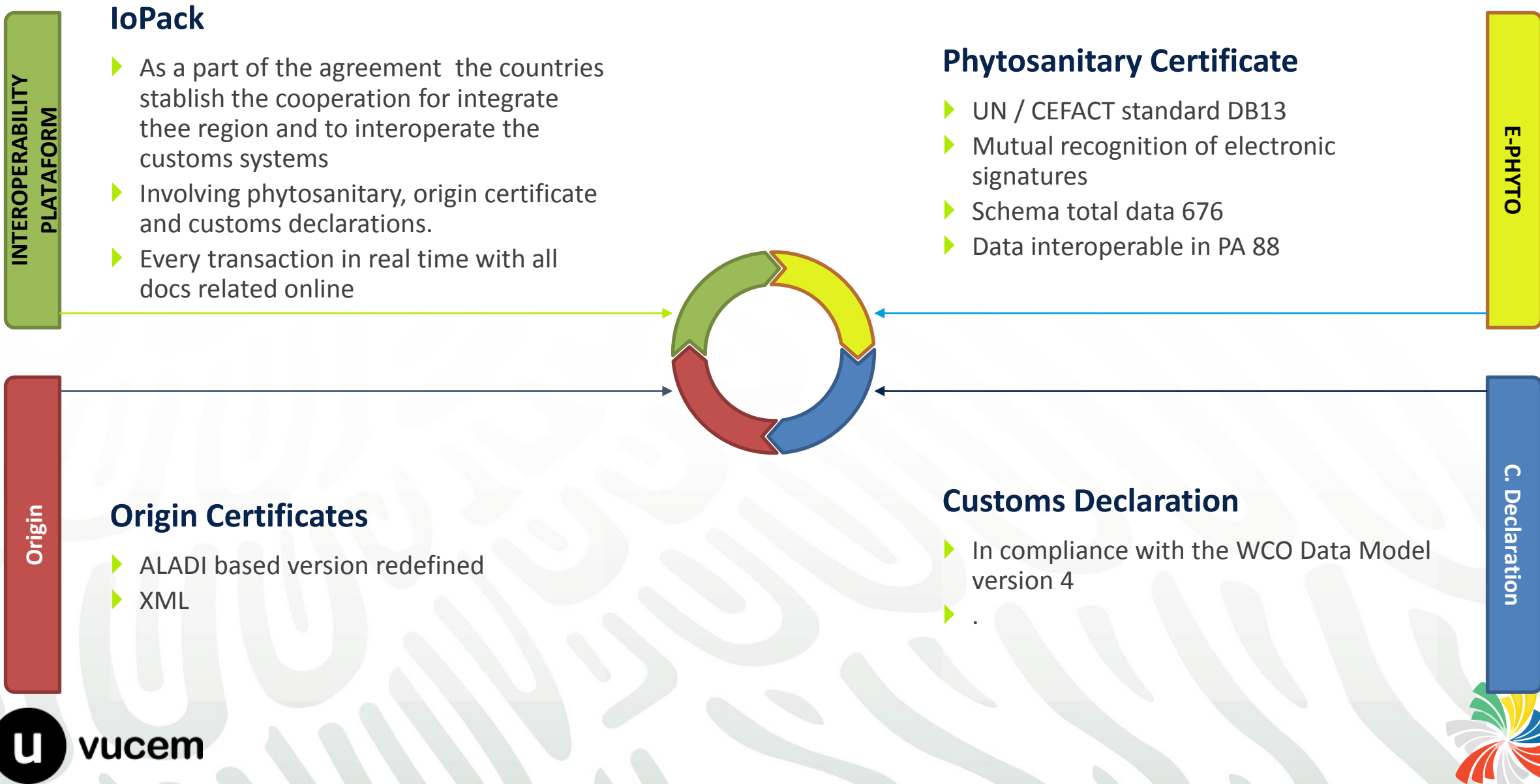
High level political will and presidential decret

Commitment and disposition of the technical teams

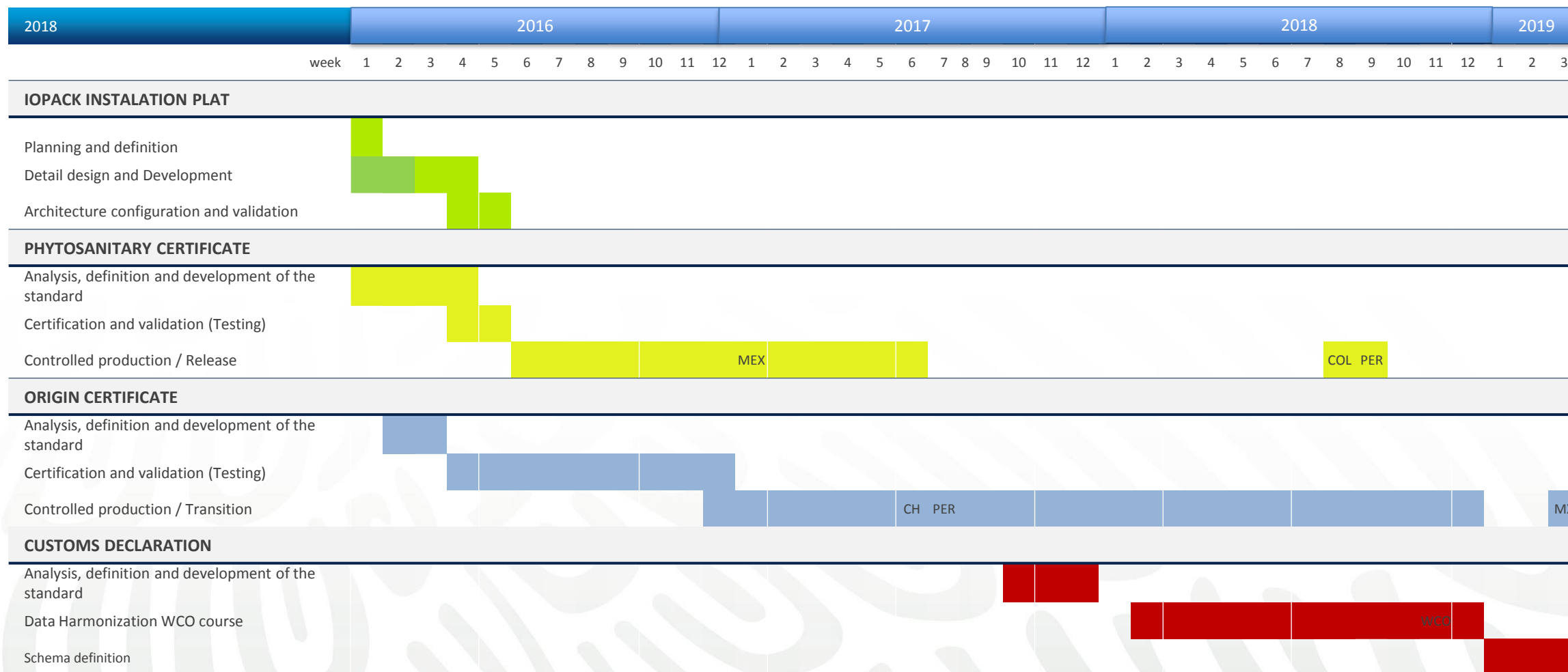
The single window maturity is similar and accomplish the technical minimun requirements for interoperate



Pacific Alliance initiatives



Timeline for 4 initiatives

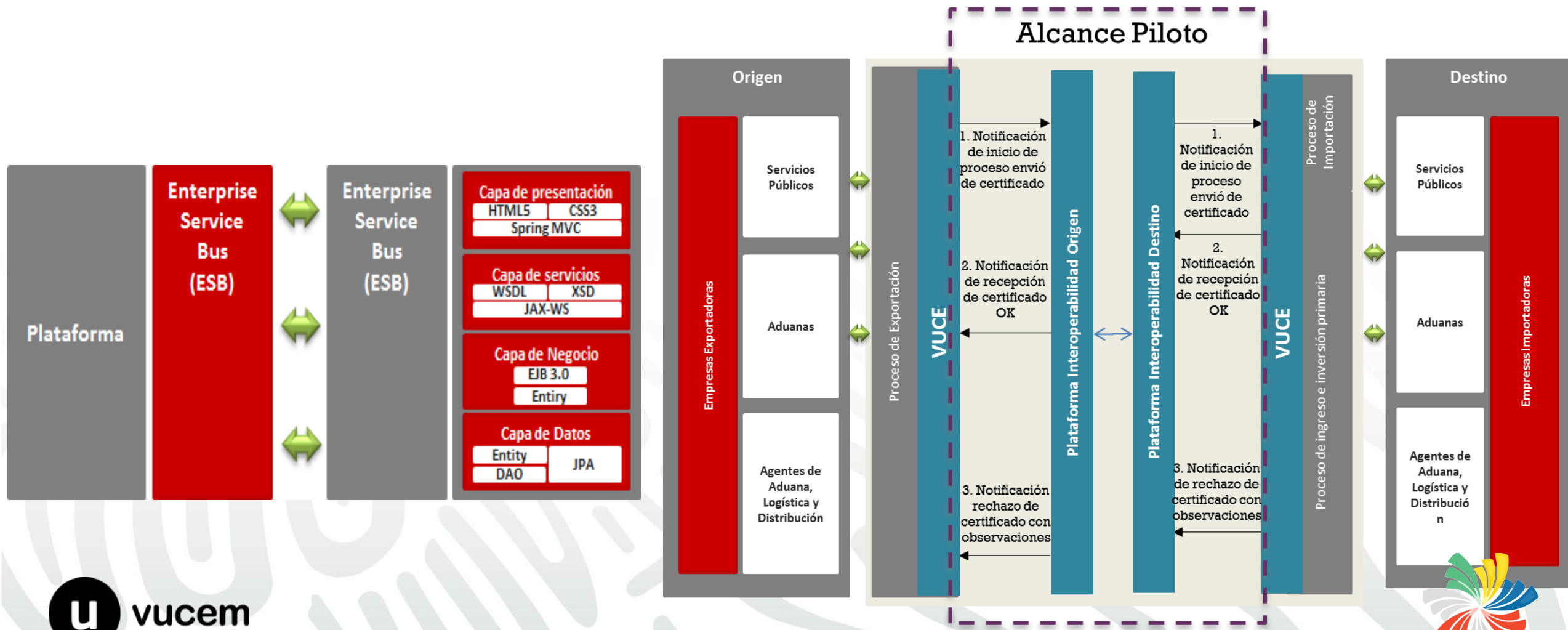


Technical support and Budget funded by de IADB

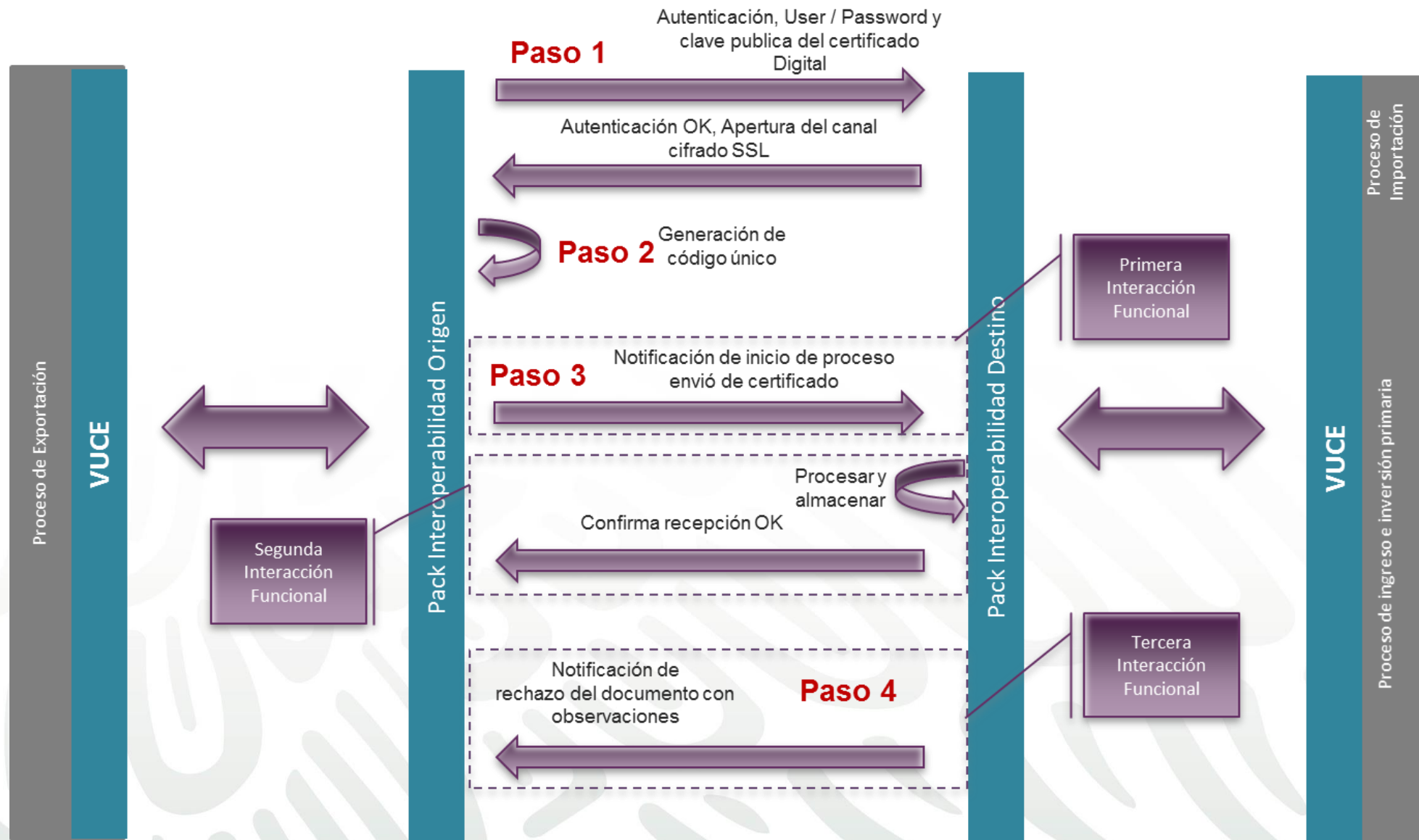
1. Design and develop the interoperability platform ready jun 2014
2. Begins with the fitosanitary certificate (fully implemented) UNCEFACT D13B
3. Zoosanitary (fully implemented) finalized on june 2016
4. Last release the origin certificate in transition to paper substitution jun 2017
5. Mutual recognition for electronic signature



Interoperability diagram



Interoperability diagram (Flow)



Once the estándar was defined each country should cover the next issues:

- Improve the infrastructure of the agencies and the SW
- Adapt the systems of sanitary agency
- Implement electronic signature for each certificate
- Interchange data between sanitary agency and customs systems
- Adapt procedures and regulation if its necessary
- Organize workshops and training meetings for the implementation of the new process



- Countries didn't have alignment with the UNCEFACT D13B standard catalogues
- Each country have different SW control and management
- Countries privilege the national catalogues instead of the international standards
- Each country have local data sets and continue using old versions for other countries
- Communication between sanitary agency, customs and SW team is complicated, and sometimes there is no communication between stakeholders
- Priorities of the agencies change and become an stoppers or decrease the potential of the implementation



Integrate New Countries and Members

In order to add more countries the implementation has to be fully implemented and the contract and standard totally defines UNCEFACTD13B, each country shall fulfill the next aspects:

General aspects:

- Regulations, law and political will that allows to interoperate with the IO-Pack
- SW operational with a mandatory decree
- Use of Electronic signature on certification and sign a MOU
- The SW has to consider Sanitary agency and Customs
- Specific Aspects:



Specific aspects:

- Confirm disposition of people to develop the system
- Budget to develop, maintenance and continuity of the interoperability platform and infrastructure
- Multidisciplinary working teams to make diagnosis, gap analysis and Project definition
- Sanitary agency and customs commitment to promote the crossborder paperless trade
- Inhouse or outsource supplier that adapt the system or customs systems in the future



In order to accomplish the main objective of this Project, country members shall:

- Political will of the highest level
- Prior the Project for the future of the crossborder paperless trade
- Guarantee the Budget for sustain the develop, implementation, operation and maintenance
- Multidiciplinary working teams



Some Technical characteristics of the Io Pack

- Presentation layer:
 - ✓ Spring MVC - JQuery - HTML5 - CCS3 - Patrón delegate – Security - Autentication SSO - LDAP

- Data acces, Business Services and transactional elements
 - ✓ JAVA Enterprise Editions - EJB 3.0 – DAO – JPA – Hibernate – Report - Spring MVC - JQuery - HTML5 - CCS3 - Patrón delegate - JAVA Enterprise Editions - EJB 3.0 – DAO – JPA – Documnts reference (Certificates) Phisically (Binary files) – Index Archive

- Interoperability (SOA)
 - ✓ Enterprise Service Bus - Motor de Orquestación de procesos BPEL – Repositorio - Motor de Base de Datos





The journey to plan, set, build, operate and maintain a single window platform and every interoperability Project is not, nor has it been easy. The challenges for its implementation are bigger, but so are its benefits, especially for secure, competitive foreign trade and coordinated border management.

VUCEM has contributed to improve the automation, and has positioned Mexico and the Pacific Alliance as a reference in LATAM at the international level through the automation and simplification of customs procedures and formalities, as well as processing pre-arrival information on cargo.

With the implementation of International standards and emerging technologies like Big Data and blockchain the interoperability will be easier and faster to implement. Just has to begin with the first step, build the network of specialist like the ones that are here.

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