



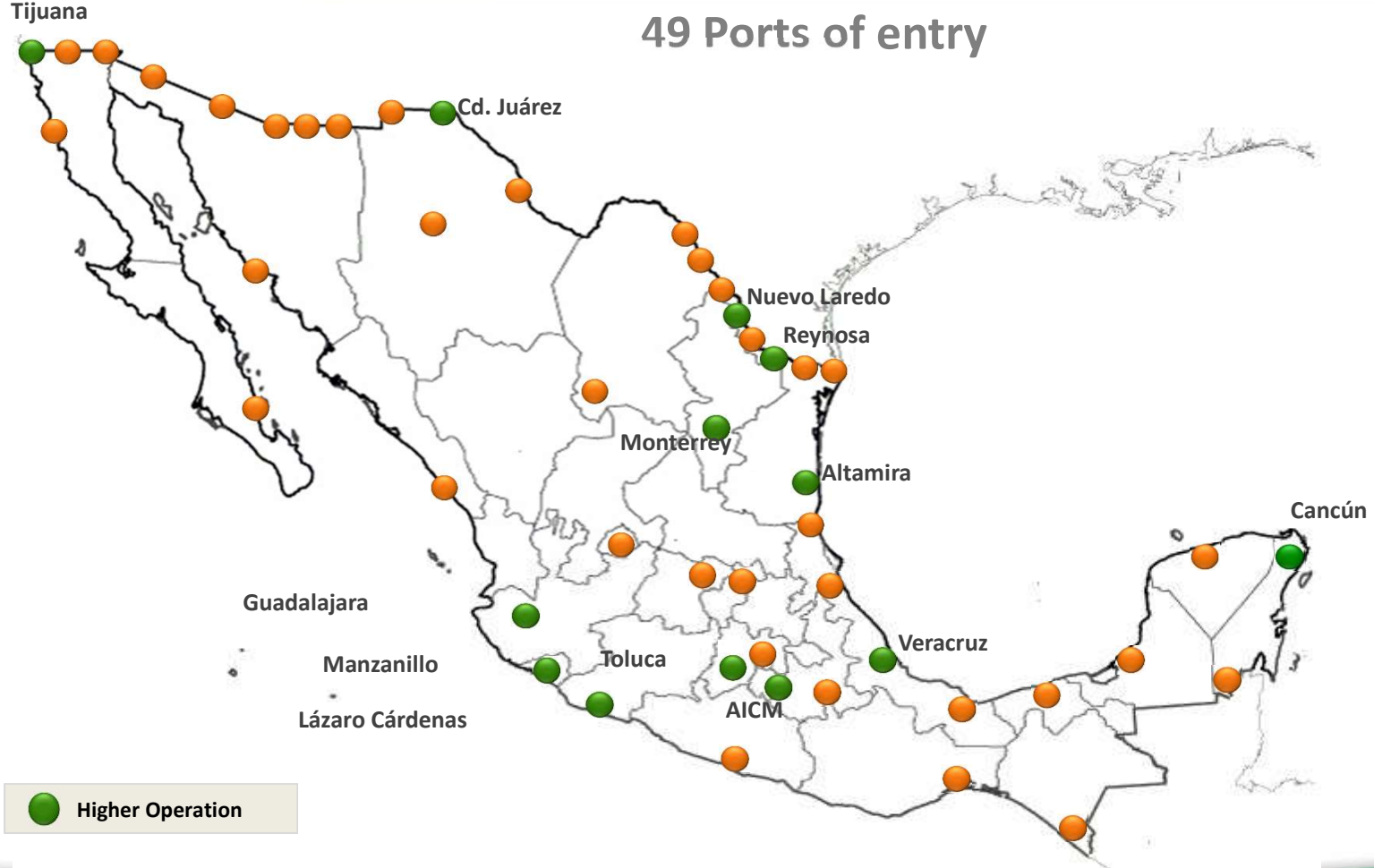
MÉXICO
GOBIERNO DE LA REPÚBLICA



Aduana S21



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



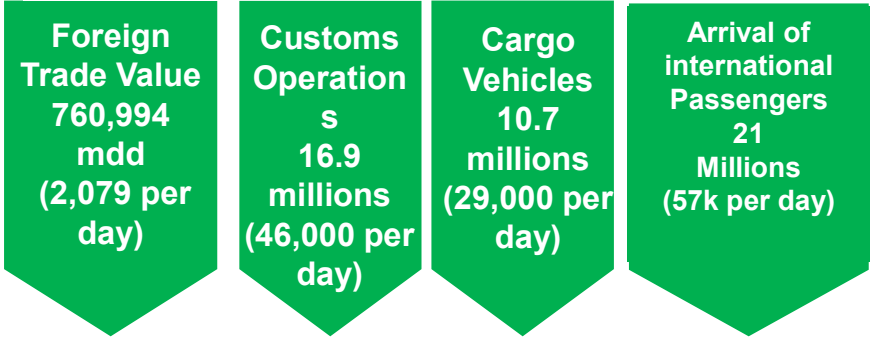
Kind of Ports	
Land (North & south)	21
Maritime	17
Inland	11
Total	49

Personal	
Oficinas Centrales	17%
Aduanas	83%
Total	8,176

- **230** Inspection points
- **778** Customs Brokers



México Operations

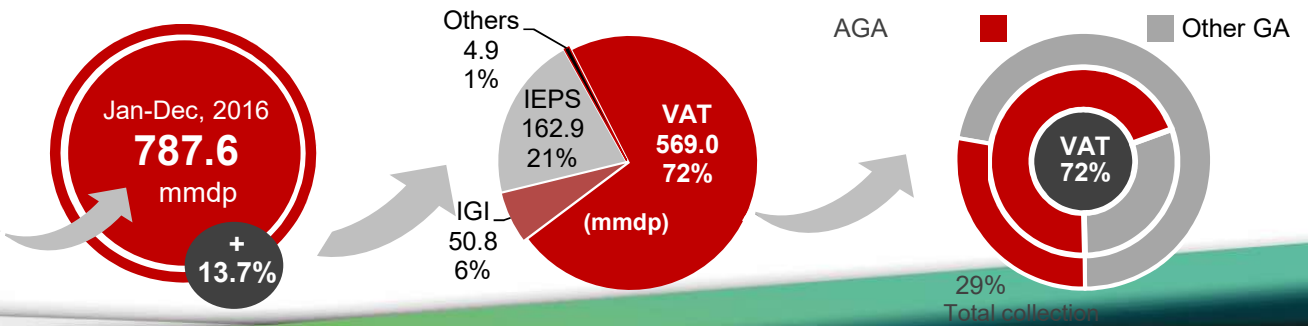
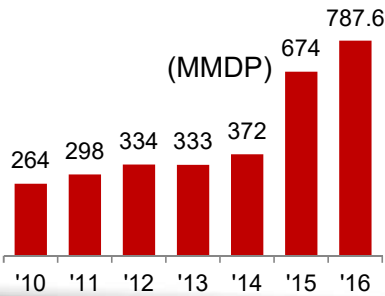


*Figures January-December 2016.

Item	January - December			
	2014	2015	2016	Var. 16
Operations	16,160,005	16,320,044	16,852,174	3.3%
Vehicles (cargo)	10,223,020	10,333,045	10,713,616	3.7%

Rubro	January- April		Var. 17
	2016	2017	
Operations	4,037,831	4,324,824	7.1%
Vehicles (cargo)	2,583,884	2,706,773	4.8%
Revenue collection (mdp)	222,225	273,807	17.1%

2016 Revenue Collection





Timeline of the implementation of VUCEM México

Start to develop the concept of the SW in Mexico and define the TR for the bidding process

2010



2005

Safe Framework was published and establish the recomm for the SW implemnetation

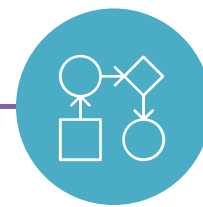


2011

Federal decree was published, stablishing the PGAS commitment

The first license/permission of the Ministry of Economy was released on website

2012



2015

245 formalities operate on the plataform and the 2nd intl bidding is published

5yr contract is signed for the revolution of the SW

2016

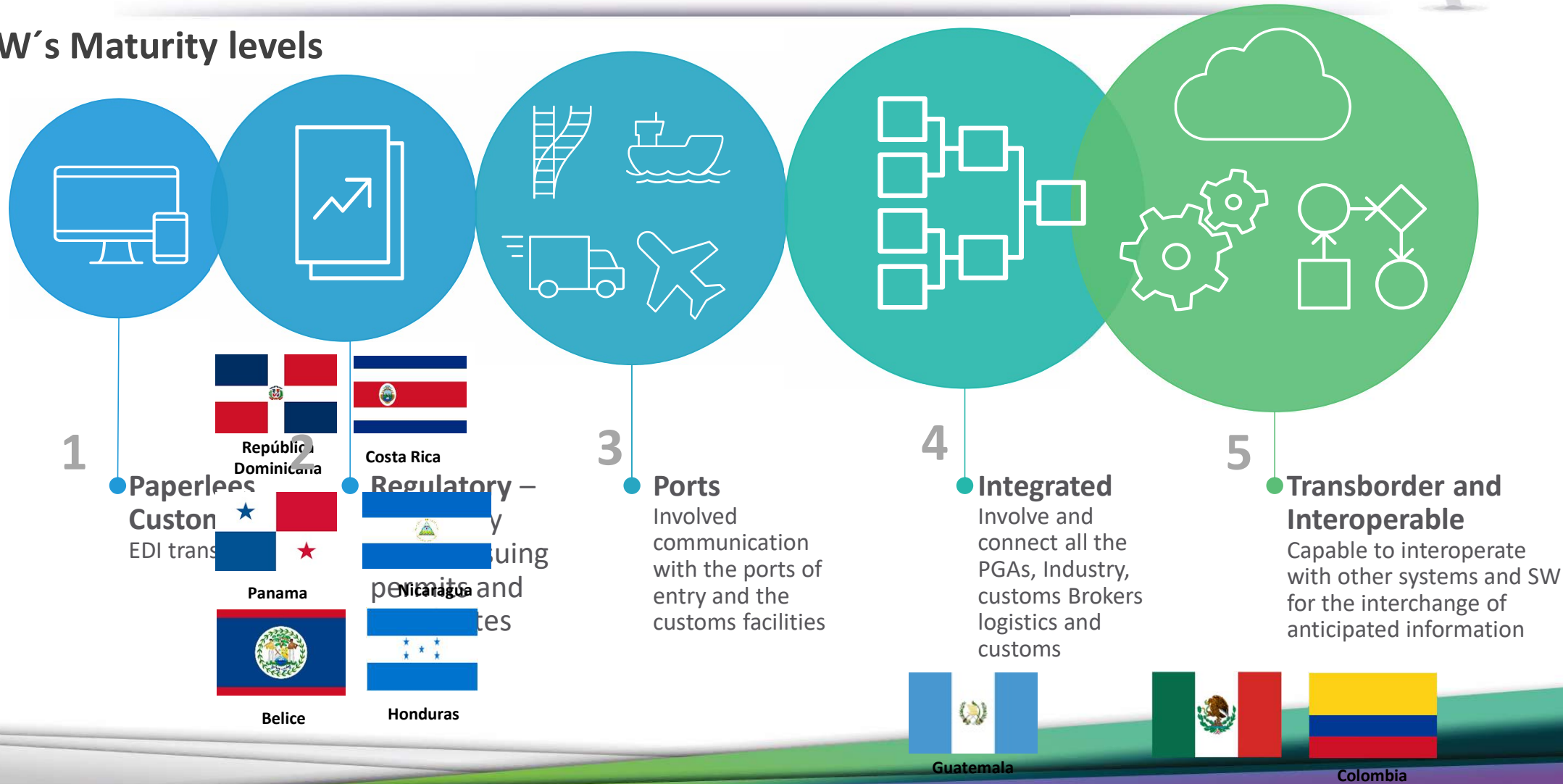


2017

DC Migration and BPM substitution; reengineering began



SW's Maturity levels



257 operating formalities



Some numbers on VUCEM



31

Customs



11

S. Enviroment and Natural Resources



1

Antropology



109

Economy Commerce



22

Defense



3

Art



51

Health and Sanitary Risk



5

Enviroment Procurement



2

AMECAFE



13

Livestuck Agriculture



8

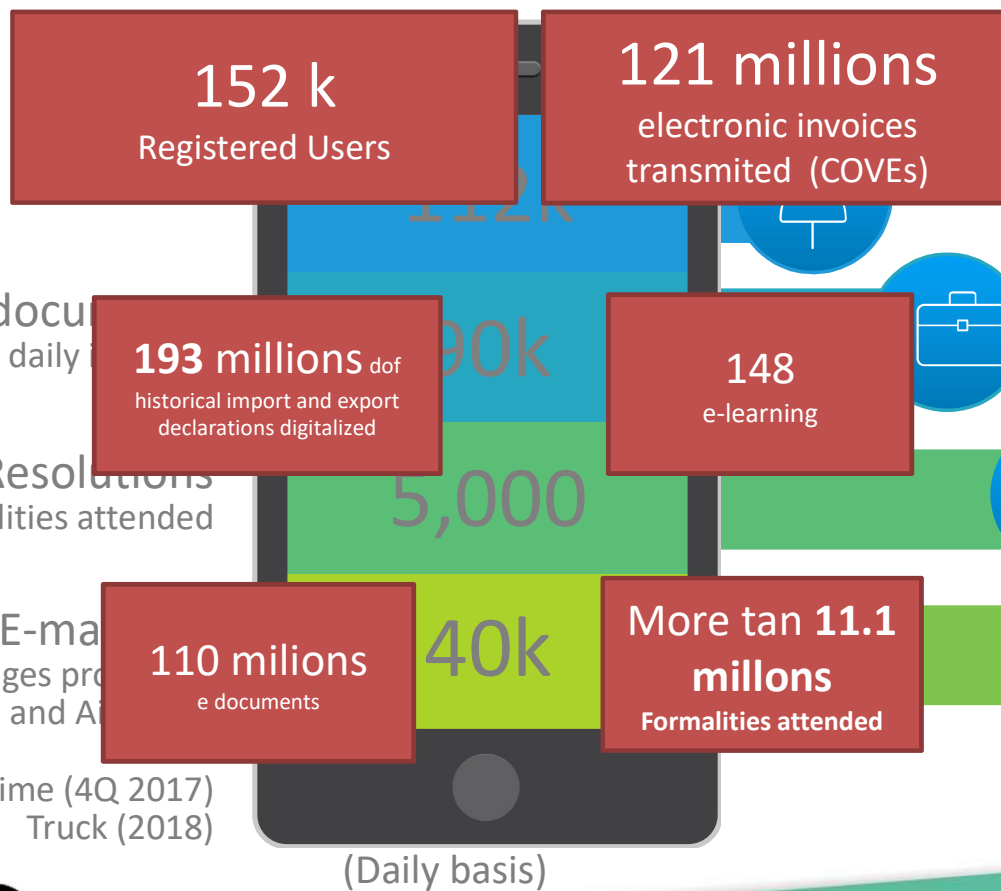
Energy Gas & Oil



1

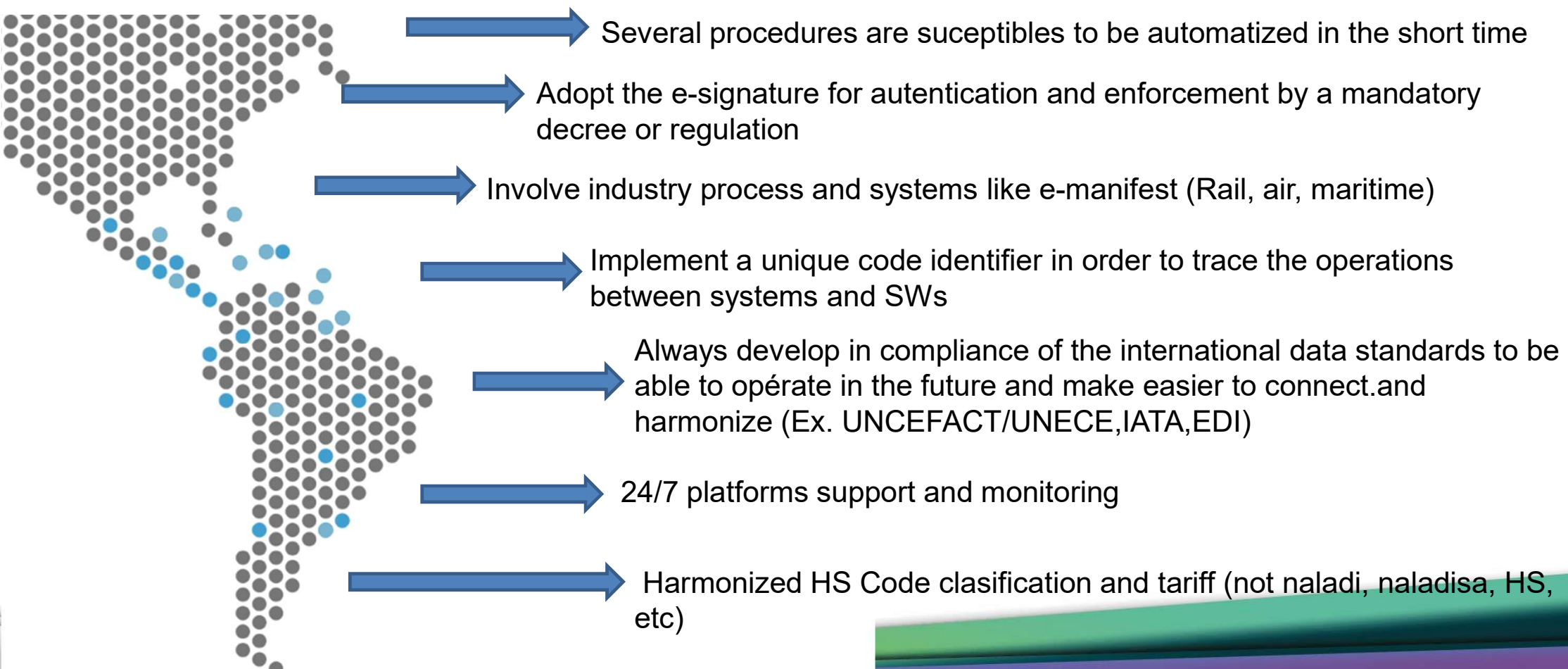
C. R TEQUILA

10 dependencias y 2 organismos



*Data a FEB 2018

Results of the benchmark realized on 2016 on the region (some countries)



VUCEM actual interoperability and projects

Chile

Fito and zoosanitary
Certificates. UNCEFACT v.11



Pacific Alliance

Fito and zoosanitary certificates on Uncefact D13B;
Certificate of Origin.
Project to interoperate Customs Declarations base
on WCO DM



Colombia

Certificate of Origin (Bilateral)
Fito, zoosanitary, Origin and
Declaration on alliance



United States

E-Cargo Manifests EDIFACT 309 355 358, Rail
and Maritime (testing)
In a next phase Cargo XML IATA on Air
Truck manifest 2019
Textile Quotas control via WS





e-cargo Manifest



Rail Manifest

ANSI X12
2,500 daily messages



Actually operating on 4 crossborders Nogales, Mexicali, Ciudad Juárez y Matamoros.
1Q 2018 will be fully implemented Piedras Negras and Nuevo Laredo
100% paperless



Air Cargo-XML

IATA Standard with 35,000 daily messages



Operating 100% for importation.
Every airwaybill its validated on the customs declaration
Soon apply for exportation (Change management)



Maritime

ANSI X12 (10+5)
Expect 500k msgs daily



The software ts in testing period and waiting for the biggest companies to build their component to make integral UAT
Hope to release first port in 1Q 2018



Truck (US)

ANSI X12 seem
US is defining new version



CBP and SAT work together on the data set
For its complexity, volume and time of response has been let it at the final phase
3Q 2018



Future of Data

The **global data** will measure a staggering **40 zettabytes** by 2020

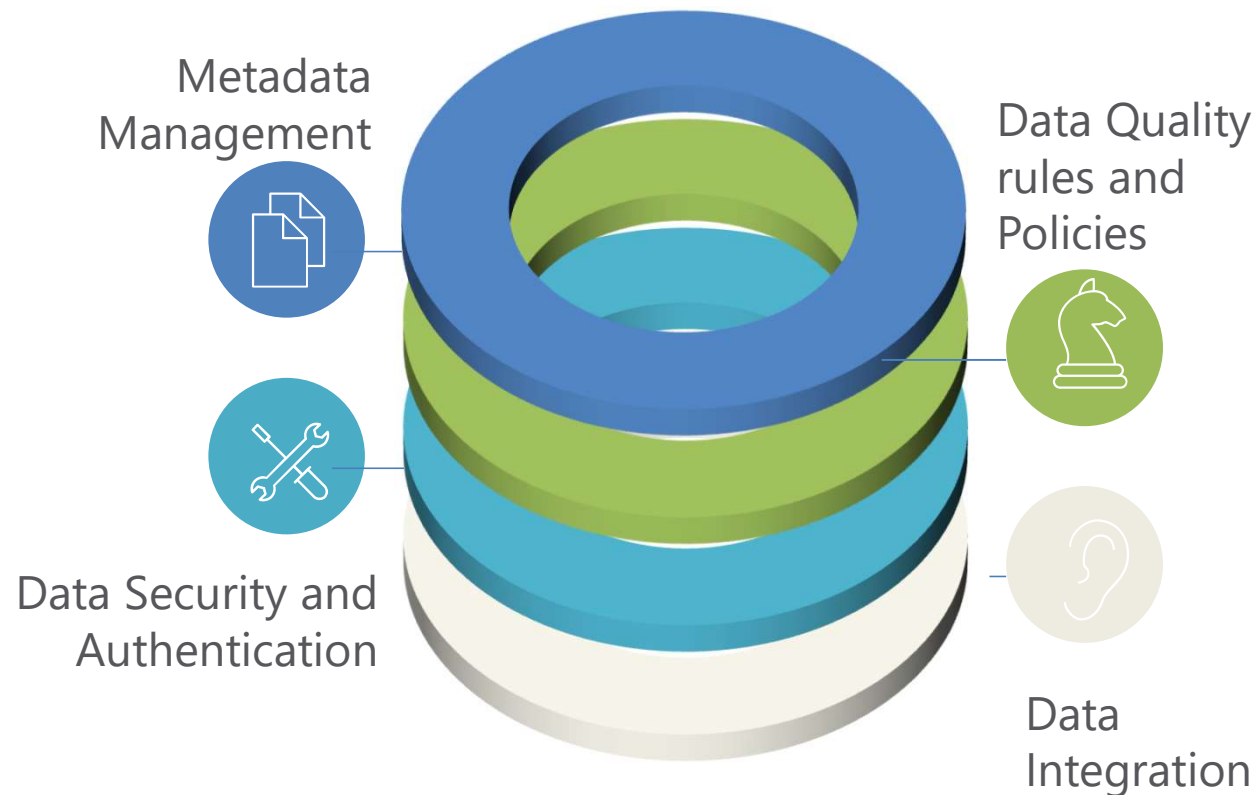
Structured data is **growing** at the rate of **40%** every year

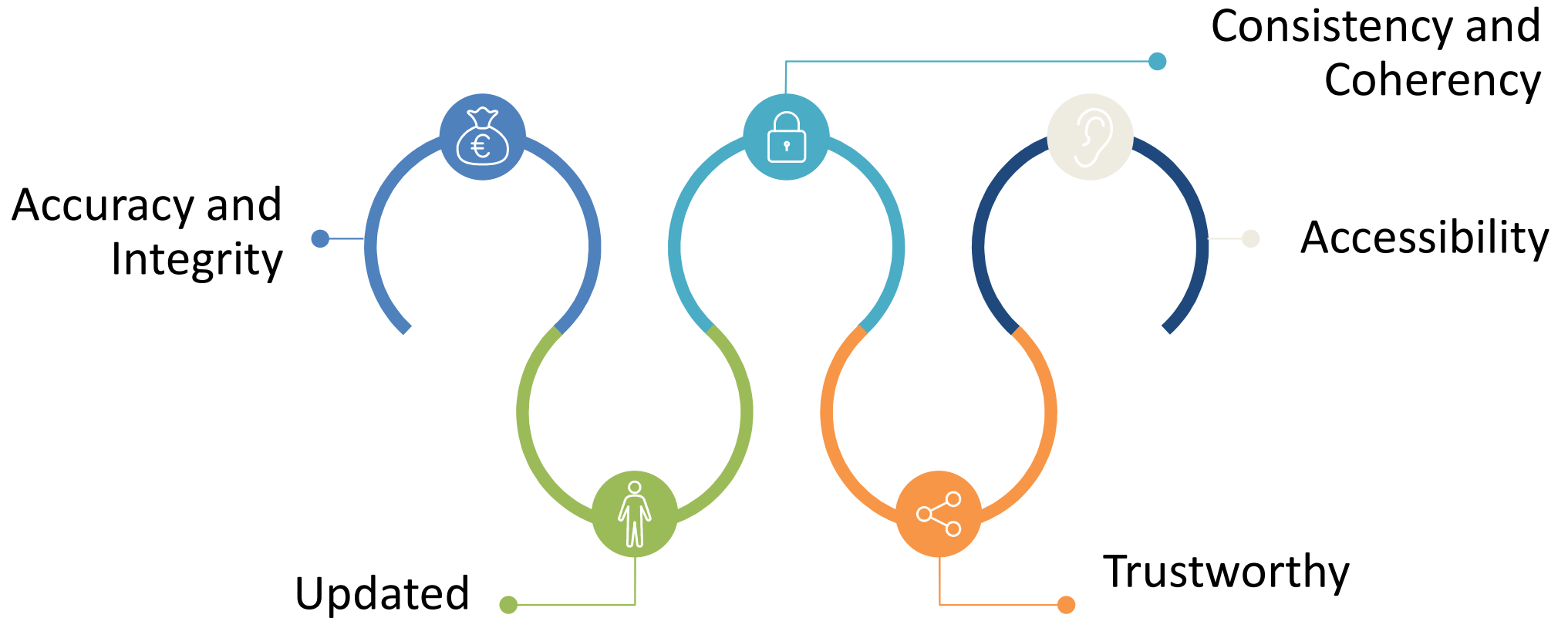
Content, which includes all types of data including **unstructured** is **growing** at a steady rate of about **80% annually**

IoT Data generated will increase by **15 times** by **2020**

CUSTOMS ISN'T AN EXCLUSION

The future has pointed out that the following aspects





Data Quality enables you to standardize and improve new and existing data so you can trust the information that serves as the basis for your corporate initiatives and systems.



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



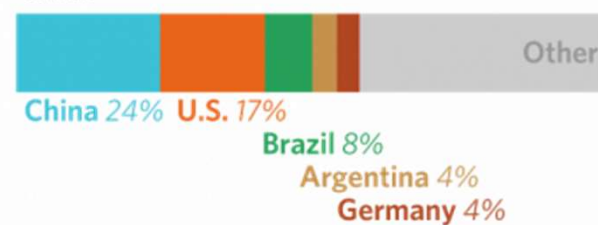


Pacific Alliance Members' Top Trading Partners

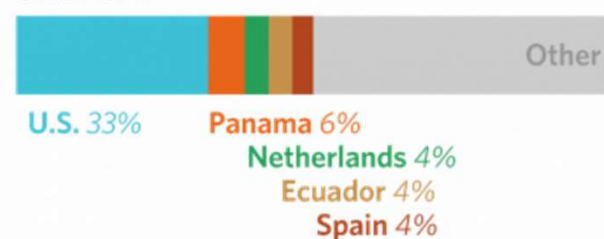
Mexico



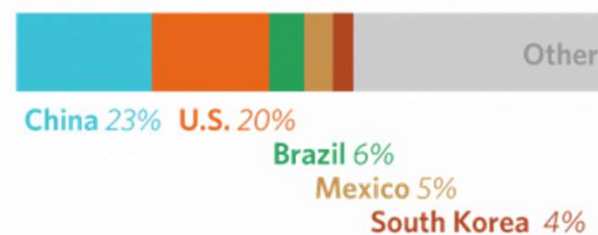
Chile



Colombia



Peru



3

Source: Trademap

Copyright Statista 2017



The Pacific Alliance today



Background

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





Objective Pacific Alliance



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 papeerless 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 presidencial decretet

Commitment and disposition of the technical teams

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

Project today

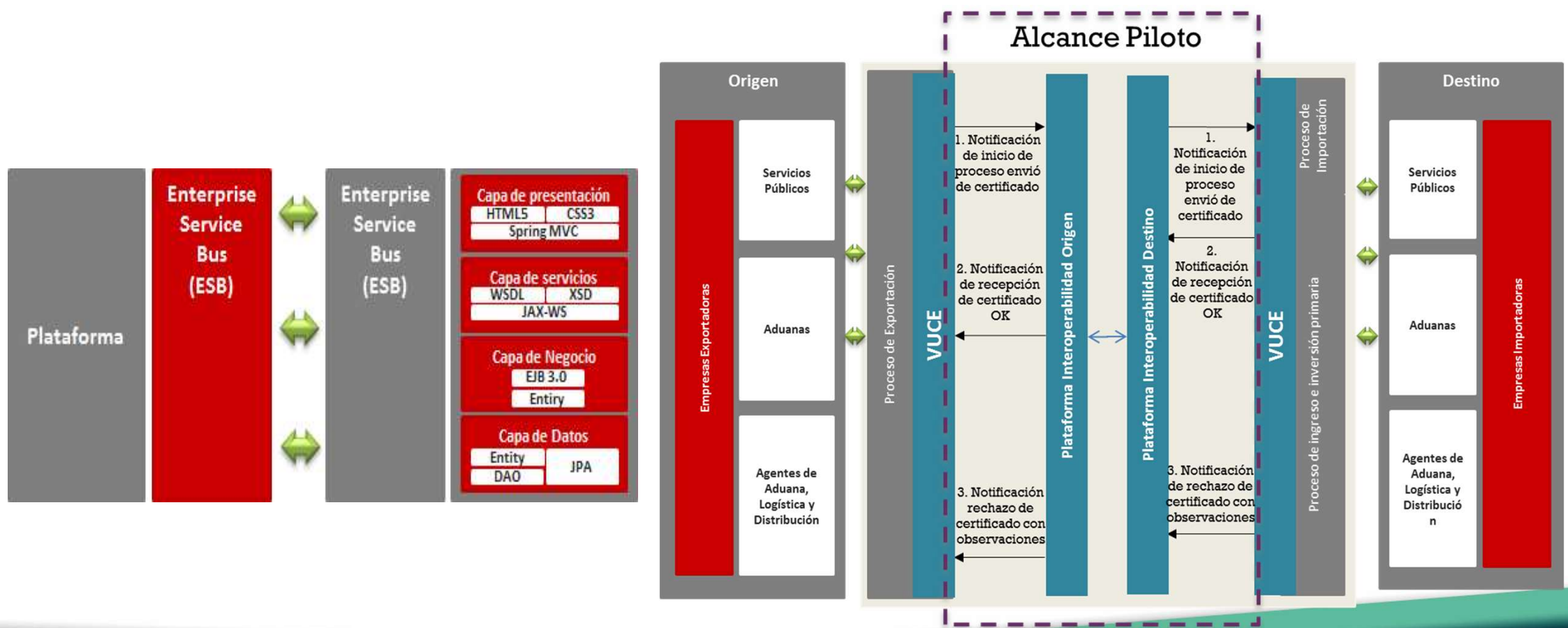
Technical support and Budget funded by de IADB

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 jan 2017
5. This week the members are in Lima, Peru working on the data set for the interchange of customs declaration



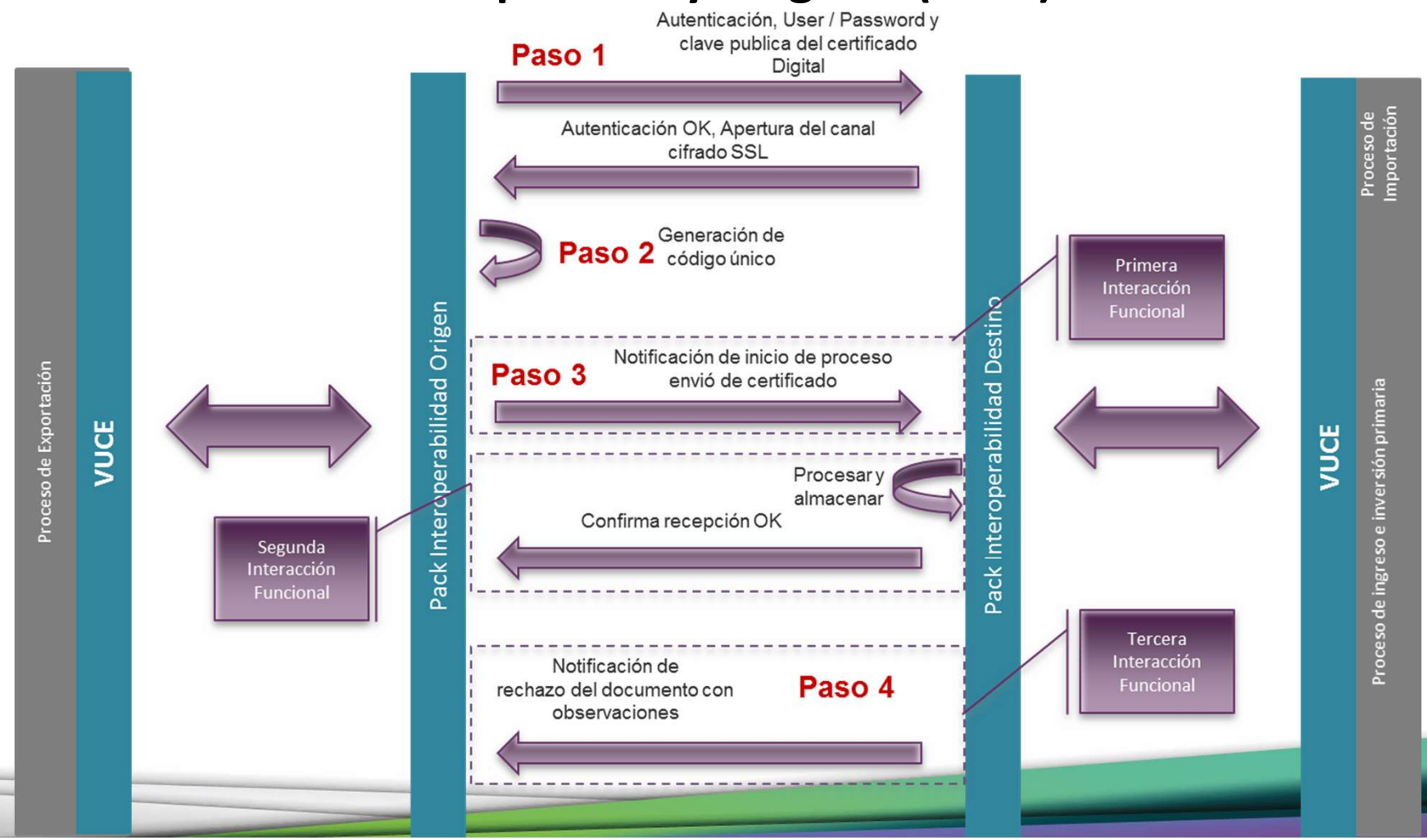


Interoperability diagram





Interoperability diagram (Flow)



Working methodology

With personal meetings and workshop with the specialist and leaders of development of each country we worked on:

Understand the standard UNCEFACT D13B data set
Analisis of each field of the standard in comparission with the requirements for each country:
Country list, certificate status, Temperature, quantity, transport and location.

Analisis of the content list propose by the standard with each country.

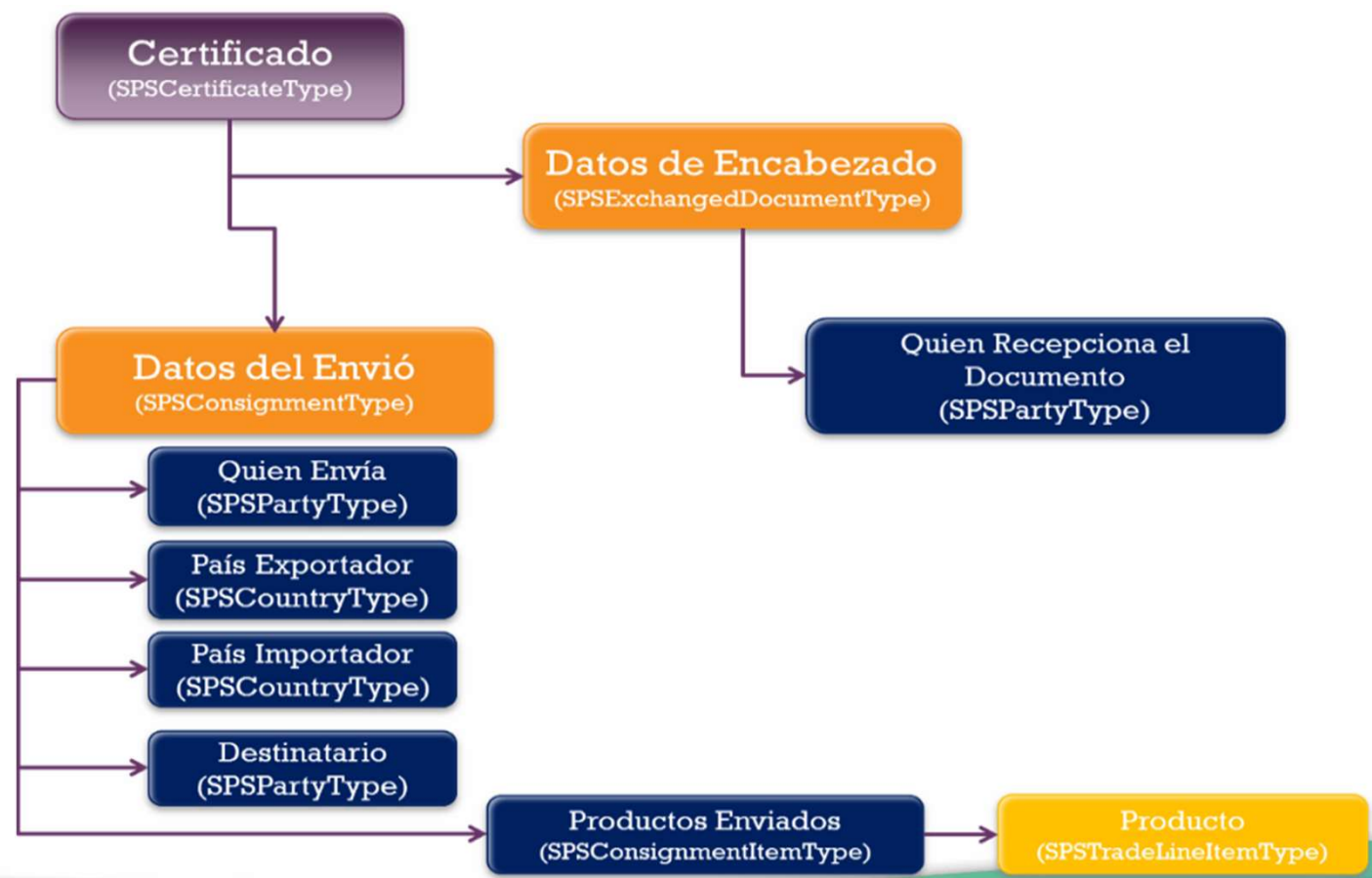
Generate XML examples foe guidance

Define the final matrix of data set for the certificate and validate by every country team





Certificate Structure



GAP Analysis

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

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



Lessons Learnt

- Countries didn't have alignment with the UNCEFACT D13B standard catalogues
- Each country have different SW control and management
- Countrys 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 aagency, 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

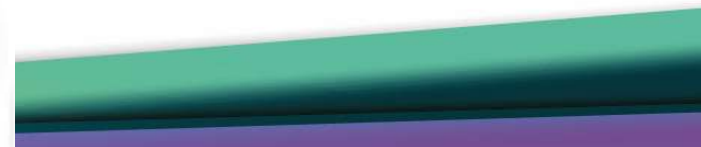
• Specific Aspects:



Integrate New Countries and Members

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



Critical Factors for success of the project

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

Conclusions



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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