



Raouf BENZARTI / March 2021

1 **ASYCUDA Programme**

2 **ASYCUDA Systems & IT Challenges**

3 **ASYCUDAWorld – Blockchain : Use Cases**

Mission



To provide technical assistance, develop advanced software applications and strengthen institutional capacity for Customs with emphasis on the special needs of the least developed countries.

Vision



Public Administrations are implementing e-Government strategies. Revenue agencies such as Customs can contribute to these processes together with trade partners and other public agencies.

Values



- Vehicle for UN core values
- Search for Excellence
- Reliability
- Client Orientation
- Technological Awareness
- Creativity
- Innovation
- Development-oriented

Provide technical assistance, develop advanced software applications and strengthen institutional capacity for Customs

ASYCUDA
40
YEARS

OF EXPERIENCE



Generations of
IT solution for Customs

Human
Resources



150

ASYCUDA CLIENTS

Member
States 

100+
Countries and
territories

Current operations in
50 countries



Main
Contributors

- ▶ Beneficiary countries
- ▶ European Union
- ▶ WORLD BANK
- ▶ ADB
- ▶ AfDB
- ▶ TMEA
- ▶ Germany
- ▶ Australia
- ▶ etc...

Main
Partners










15 MoUs



ASYCUDA COMMUNITY



EUROPE AND CENTRAL ASIA

-  Afghanistan
-  Albania
-  Bosnia and Herzegovina
-  Georgia
-  Gibraltar
-  Kazakhstan
-  Kosovo
-  Moldova
-  Turkmenistan


MIDDLE EAST

-  Jordan
-  Lebanon
-  Palestine
-  Syria
-  Yemen

AMERICAS AND THE CARIBBEAN ISLANDS

-  Anguilla
-  Antigua and Barbuda
-  Aruba
-  Barbados
-  Belize
-  Bolivia
-  Caribbean Netherlands
-  Curaçao
-  Dominica
-  El Salvador
-  Grenada
-  Guyana
-  Haiti
-  Jamaica
-  Montserrat
-  Nicaragua
-  Puerto Rico
-  Saint Kitts and Nevis
-  Saint Lucia
-  Saint Pierre and Miquelon
-  Saint Vincent and the Grenadines
-  Suriname
-  Trinidad and Tobago
-  Turks and Caicos
-  Venezuela

AFRICA

-  Angola
-  Benin
-  Burkina Faso
-  Burundi
-  Cabo Verde
-  Central African Republic
-  Chad
-  Comoros
-  Congo
-  Côte d'Ivoire
-  D.R. Congo
-  Djibouti
-  Equatorial Guinea
-  Eritrea
-  Eswatini (former Swaziland)
-  Gabon
-  Gambia
-  Guinea
-  Guinea-Bissau
-  Lesotho
-  Liberia
-  Madagascar
-  Malawi
-  Mali
-  Mauritania
-  Namibia
-  Niger
-  Rwanda
-  Saint Helena
-  Sao Tome and Principe
-  Seychelles
-  Sierra Leone
-  Sudan
-  Togo
-  Uganda
-  Zambia
-  Zimbabwe

ASIA AND PACIFIC ISLANDS

-  Bangladesh
-  Cambodia
-  Cook Islands
-  Fiji
-  Kiribati
-  Lao PDR
-  Maldives
-  Nauru
-  Nepal
-  New Caledonia
-  Niue
-  Papua New Guinea
-  Philippines
-  Samoa
-  Solomon Islands
-  Sri Lanka
-  Timor-Leste
-  Tonga
-  Tuvalu
-  Vanuatu

Selectivity & Risk Management

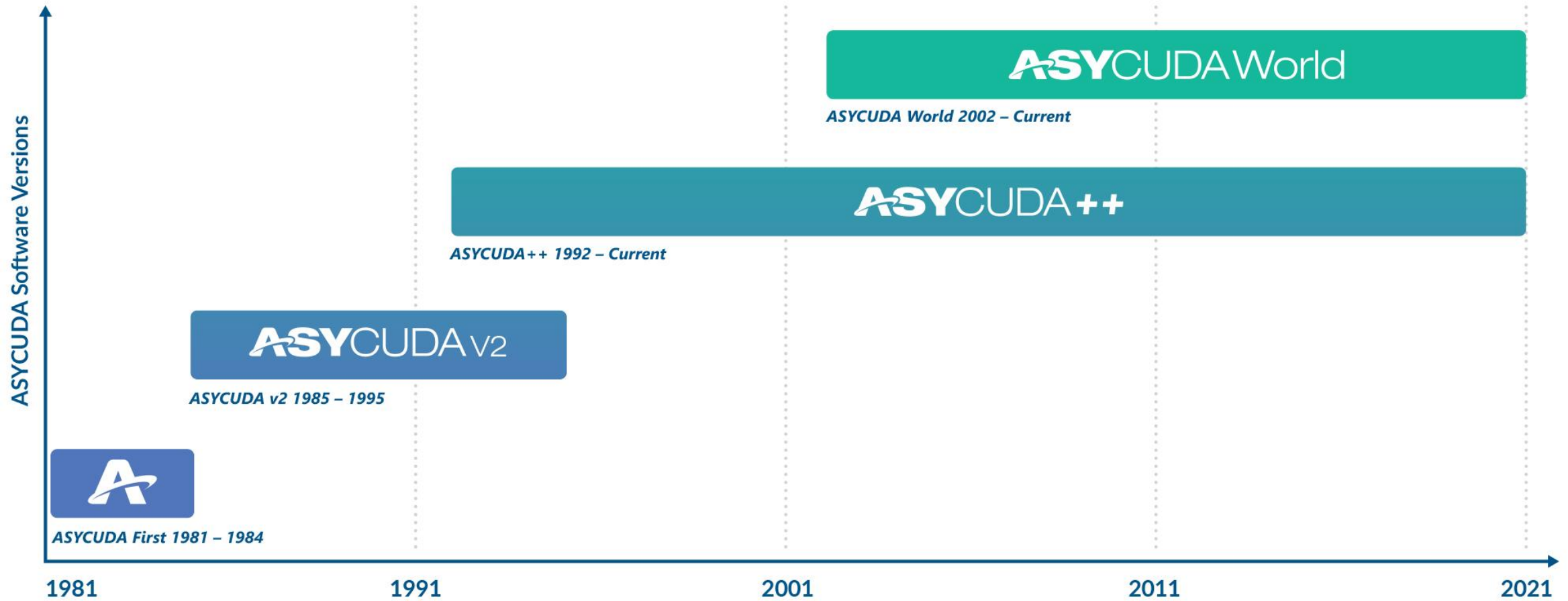


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ASYCUDA Systems & IT Challenges



New IT Technologies

- ▶ Cloud computing (SaaS, PaaS, ...)
- ▶ A.I (Machine Learning, Data analysis, ...)
- ▶ Mobile Applications
- ▶ Blockchain



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Blockchain definition

“*Blockchains are tamper evident and tamper resistant digital ledgers implemented in a distributed fashion ... and usually without a central authority... At their basic level, they enable a community of users to record transactions in a shared ledger within that community, such that under normal operation of the blockchain network no transaction can be changed once published.*”

(US - National Institute of Standards and Technology)

Key elements:

- ▶ Distributed ledger
- ▶ Unalterable transactions
- ▶ Smart contracts

Benefits:

- ▶ Security
- ▶ Transparency
- ▶ Efficiency



IT Technologies



Identify technologies (libraries, software, ...) compatible with ASYCUDA Systems allowing the integration of Blockchain technology or the connection to another blockchain system/platform.

Customs functionalities



Provide Customs administration with an enhanced IT system to improve the goods clearance process, increase **trade facilitation**, and ensure **faster release** of goods. This will also help the Customs administration **improve risk analysis** and **secure revenue**.

ASYNCUDA – Blockchain: Use Cases

Open source libraries

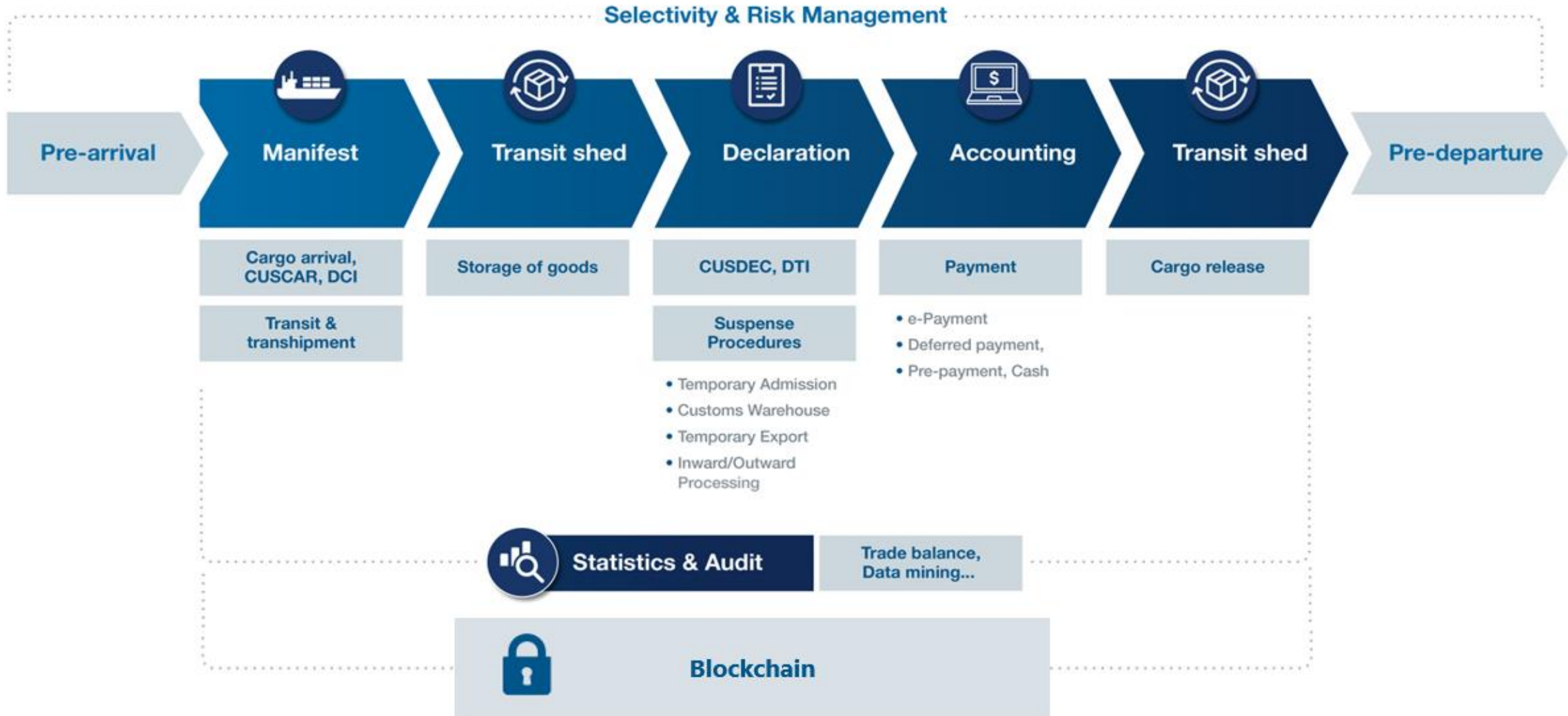


3 Use cases

- ▶ **ASYCUDAWorld System**
- ▶ **E-Payment**
- ▶ **Regional Transit**



ASYCUDA – Blockchain: Use Cases

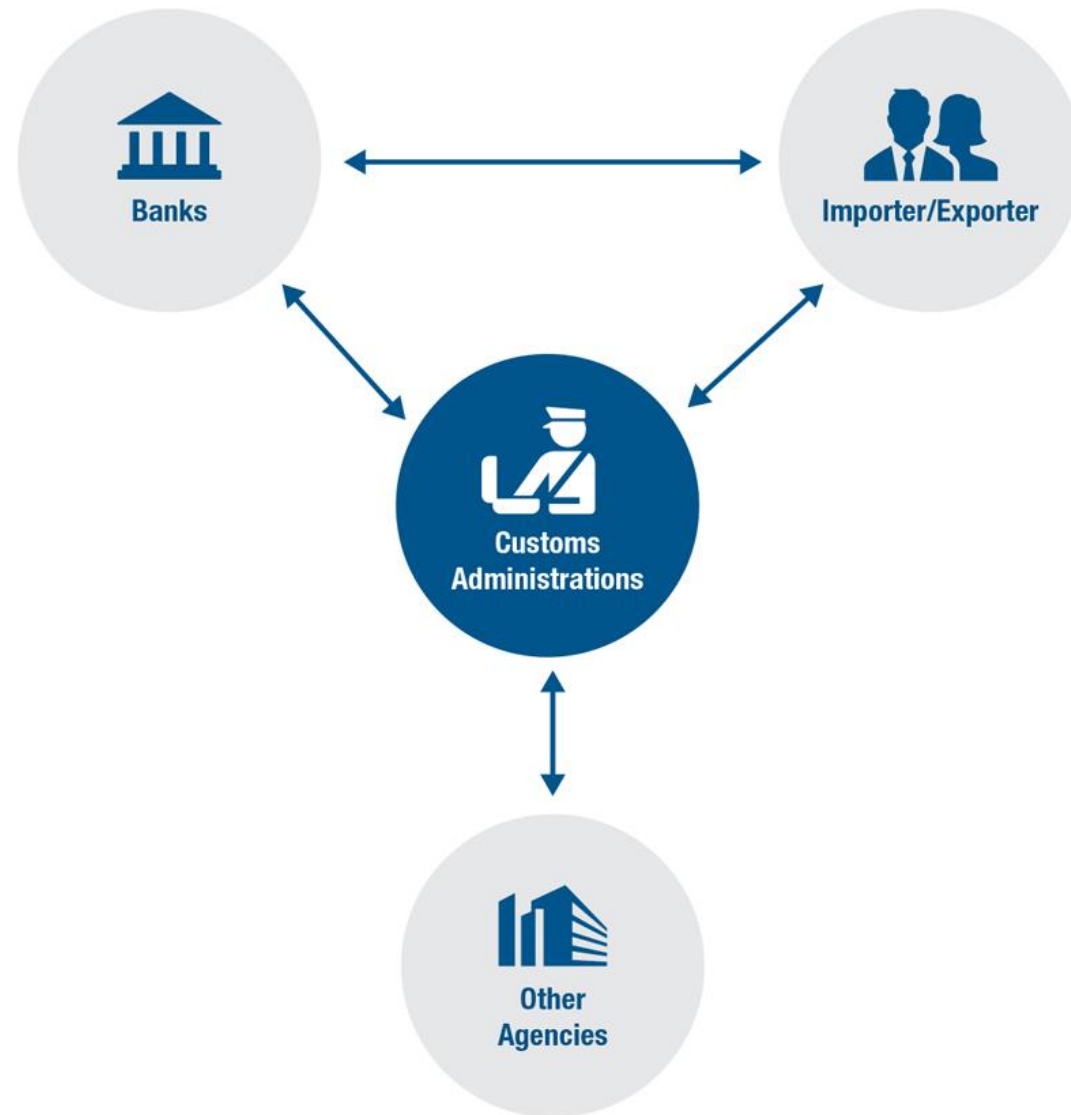


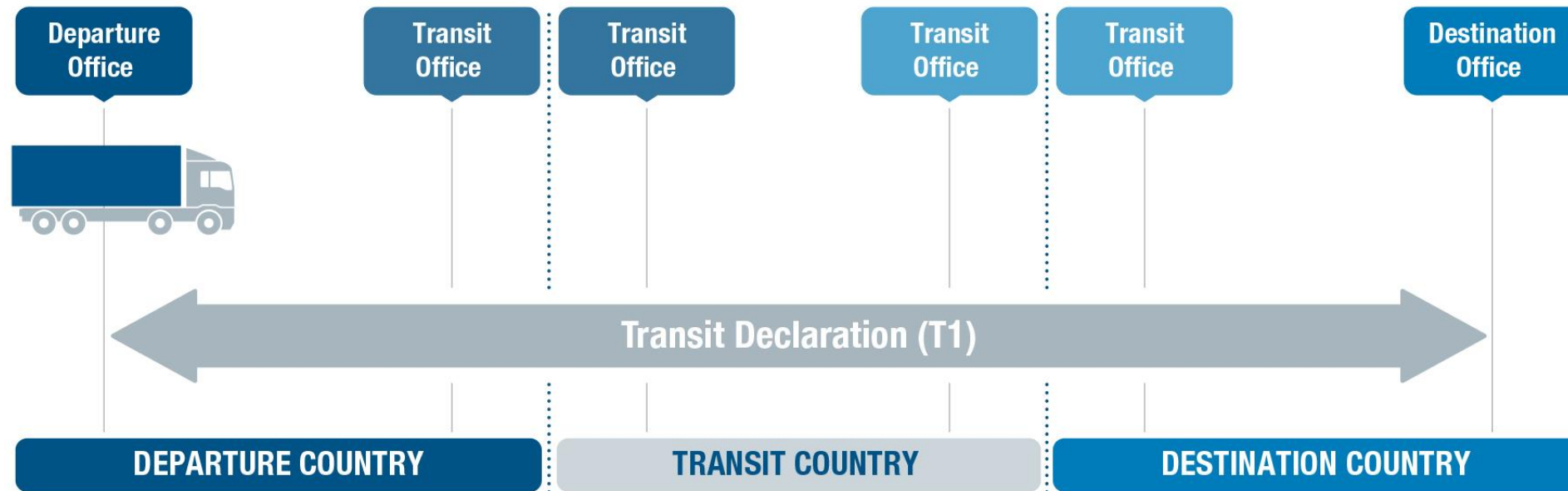
E-Payment

The main activities using blockchain : the **Payment Process** and the **Trade Finance Application**

Key Benefits

- ▶ Improve Traceability
- ▶ Enhance Security
- ▶ Increase Efficiency
- ▶ Greater Transparency





Regional Transit

Transit procedure is one of the most **complex** and **critical** customs procedures. This procedure involves **Several Stakeholders** and **Multiple-Borders Agencies**.

Key Benefits

- ▶ Trade Facilitation
- ▶ Reduction resources & costs
- ▶ Reduction of clearance times
- ▶ Accelerate customs controls

ASYCUDA – Blockchain: Use Cases

IT System for Customs clearance with Blockchain

Key Benefits

- ▶ Simplified procedures
- ▶ Reduced time for implementation of reforms
- ▶ Cost Reduced
- ▶ Global and cleared overview

Challenges

- ▶ Human capacity
- ▶ Network & IT Infrastructure
- ▶ Consensus Mechanisms



ASYCUDA
Automated System for Customs Data

ASYCUDA
40
YEARS

THANK YOU!

📍 Palais des Nations, CH-1211 Geneva 10, Switzerland

🐦 @asycudaprogram

✉️ asycuda@unctad.org

🌐 asycuda.org