Certificación Electrónica MSF en las Americas

Sesión Plenaria V: Requisitos y posibles formas de establecer el intercambio electrónico de certificados veterinarios en la región

Claudia Vitoria / Fernanda Michalski / Vidal Augusto Zapparoli – 26/07/2023

MINISTRY OF AGRICULTURE AND LIVESTOCK

BRAZILIAN GOVERNMENT

BRASIL

UNITING AND REBUILDING

abiec

ABPA

ASSOCIAÇÃO BRASILEIRA DE PROTEÍNA ANIMAL

its

GAESI

GESTÃO EM AUTOMAÇÃO E T.I.

The Brazilian technological point of view

Paper or electronic

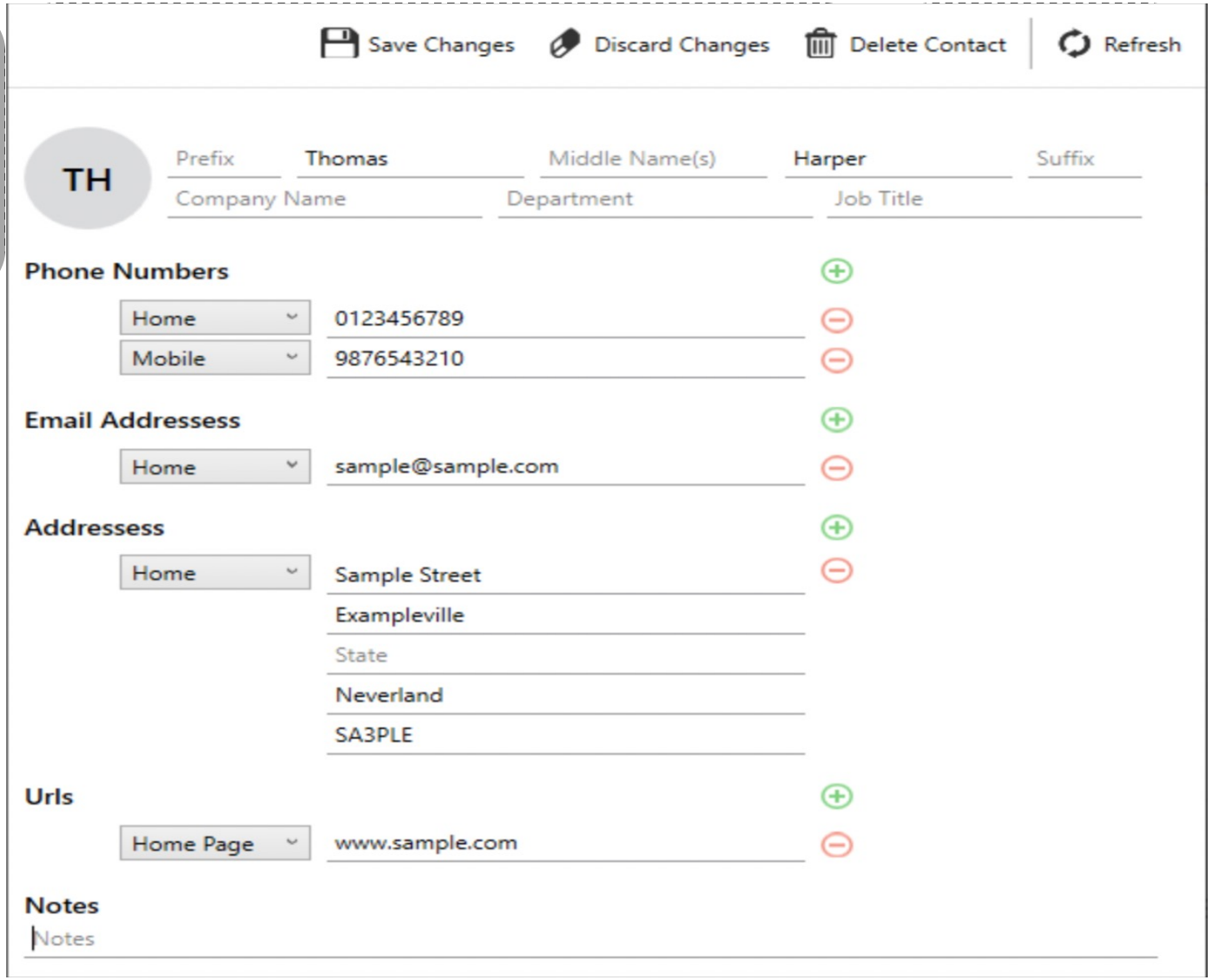
Data about the issuance of the document	ID, Who, When, From, To, etc ...
Data about the consignment	What, Quantity, Weight, Package, Seal, Cargo ID, Temperature, Means of Transport
Data related to attestations (Requirements)	GMP, SSOP, Codex Alimentarius recomendations, HACCP, etc ...

3 Types of data

structured	Data that is organized in a specific, pre-defined format, making it easily searchable, analyzable, and interpretable **by machines**	Fixed Schema

3 Types of data

structured



3 Types of data

structured	Data that is organized in a specific, pre-defined format, making it easily searchable, analyzable, and interpretable **by machines**	Fixed Schema
semi-structured	Data that does not adhere to a rigid, predefined structure but still has some level of organization, combining certain aspects of organization with the flexibility to accommodate variations in data representation	Partial Schema

eCERT-BR

3 Types of data

semi-structured

3 Types of data

structured	Data that is organized in a specific, pre-defined format, making it easily searchable, analyzable, and interpretable **by machines**	Fixed Schema
semi-structured	Data that does not adhere to a rigid, predefined structure but still has some level of organization, combining certain aspects of organization with the flexibility to accommodate variations in data representation	Partial Schema
unstructured	Data that lacks a predefined data model or organized structure, that does not follow a specific format. Often intended for human consumption and interpretation, making it challenging to store, process, and analyze by data management systems	No Schema

unstructured

Data that lacks a predefined data model or organized structure, that does not follow a specific format. Often intended for human consumption and interpretation, making it challenging to store, process, and analyze by data management systems

No Schema

3 Types of data

structured	Data that is organized in a specific, pre-defined format, making it easily searchable, analyzable, and interpretable **by machines**	Fixed Schema
semi-structured	Data that does not adhere to a rigid, predefined structure but still has some level of organization, combining certain aspects of organization with the flexibility to accommodate variations in data representation	Partial Schema
unstructured	Data that lacks a predefined data model or organized structure, that does not follow a specific format. Often intended for human consumption and interpretation, making it challenging to store, process, and analyze by data management systems	No Schema

eCERT-BR

Types of data

structured	Data that is organized in a specific, pre-defined format, making it easily searchable, analyzable, and interpretable **by machines**	E-CERT
semi-structured	Data that does not adhere to a rigid, predefined structure but still has some level of organization, combining certain aspects of organization with the flexibility to accommodate variations in data representation	Partial Schema
unstructured	Data that lacks a predefined data model or organized structure, that does not follow a specific format. Often intended for human consumption and interpretation, making it challenging to store, process, and analyze by data management systems	No Schema

Types of data

structured	Data that is organized in a specific, pre-defined format, making it easily searchable, analyzable, and interpretable **by machines**	Fixed Schema
semi-structured	Data that does not adhere to a rigid, predefined structure but still has some level of organization, combining certain aspects of organization with the flexibility to accommodate variations in data representation	PAPER
unstructured	Data that lacks a predefined data model or organized structure, that does not follow a specific format. Often intended for human consumption and interpretation, making it challenging to store, process, and analyze by data management systems	PAPER

Conclusion!

e-CERT is a data related project.

eCERT-BR

Conclusion!

e-CERT is a data related project.

eCERT-BR

e-CERT

ISSUANCE

e-CERT

e-CERT

EXCHANGE

abiec ABPA ASSOCIAÇÃO BRASILEIRA DE PROTEÍNA ANIMAL MINISTÉRIO DA AGRICULTURA BRASIL INSPECIONADO S.I.F. its GAESI GESTÃO EM AUTOMAÇÃO E T.I. MINISTÉRIO DA AGRICULTURA, PECUÁRIA E ABASTECIMENTO

eCERT-BR

Where is the data?

How to extract / collect it?

How to refine it?

e-CERT

ISSUANCE

e-CERT

How to distribute it for exporters?

How to distribute it for Importing Authorities?

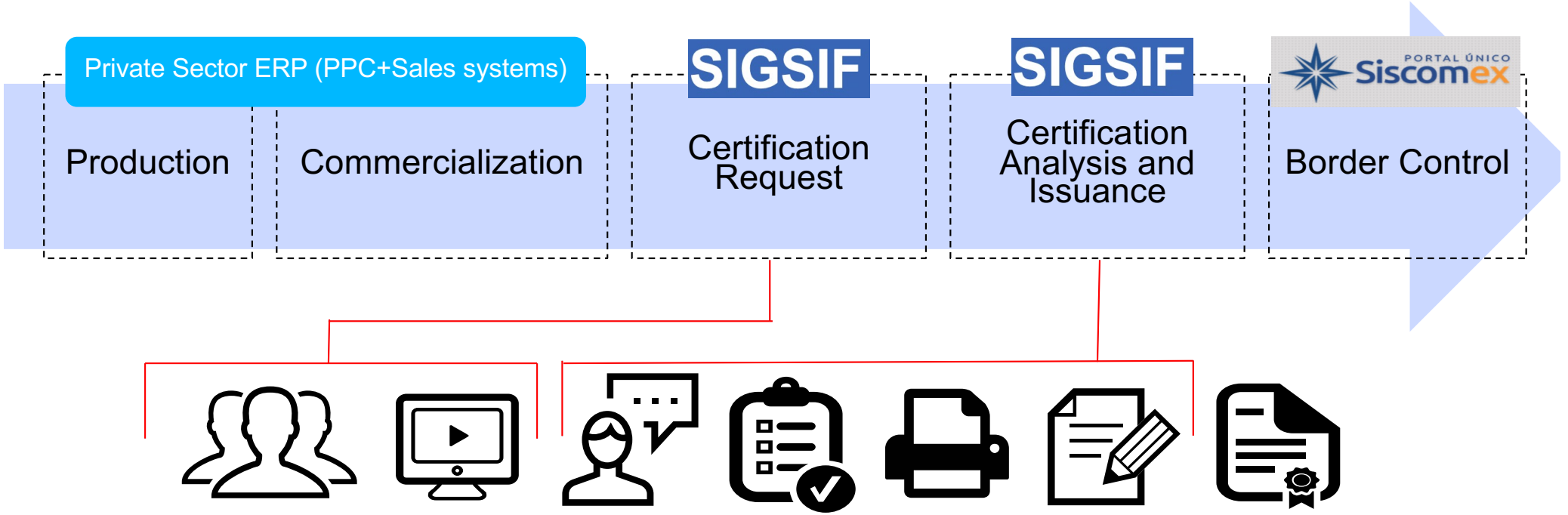
e-CERT

EXCHANGE

ISSUANCE: Where is the data?

eCERT-BR

ISSUANCE: Where is the data?

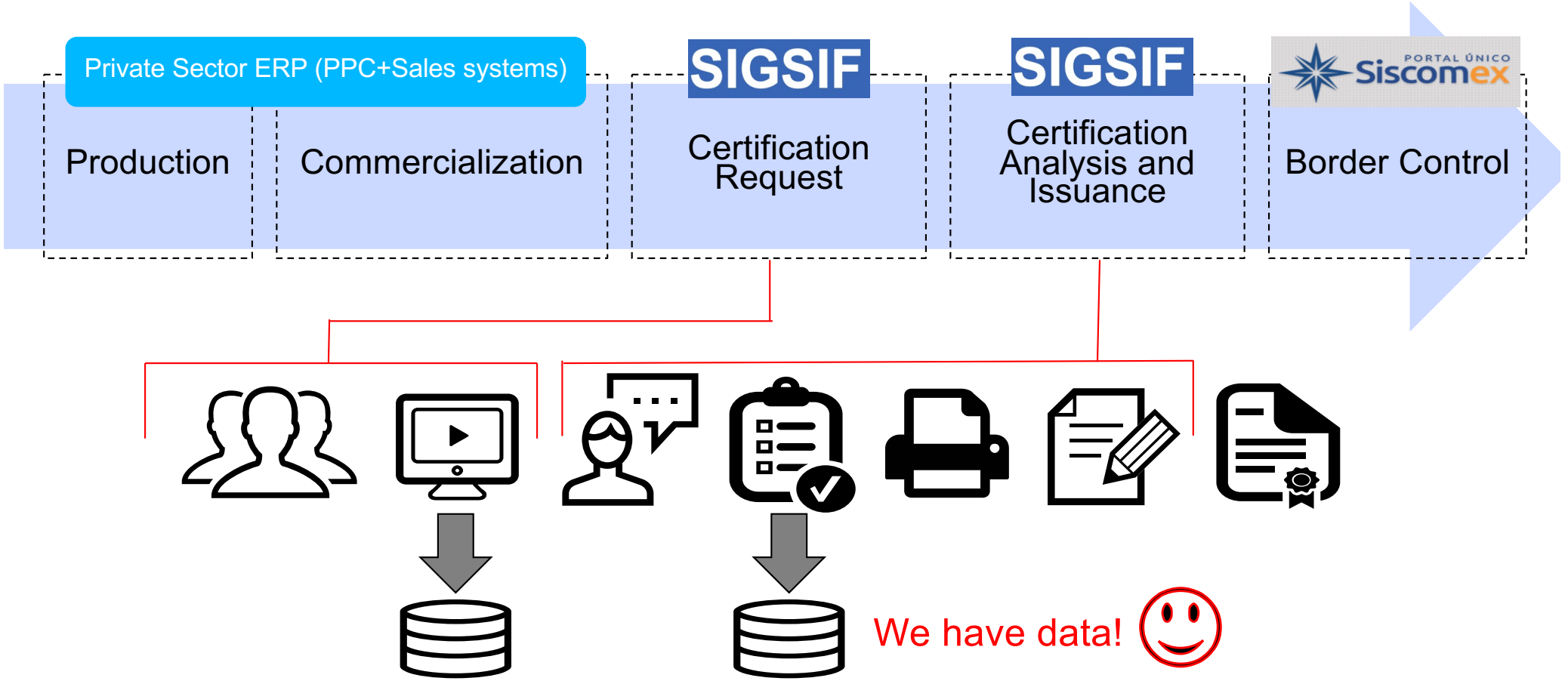


SIGSIF — Federal Inspection Management Information System (MAPA)

PORTAL ÚNICO Siscomex — Brazilian Customs Single Window

eCERT-BR

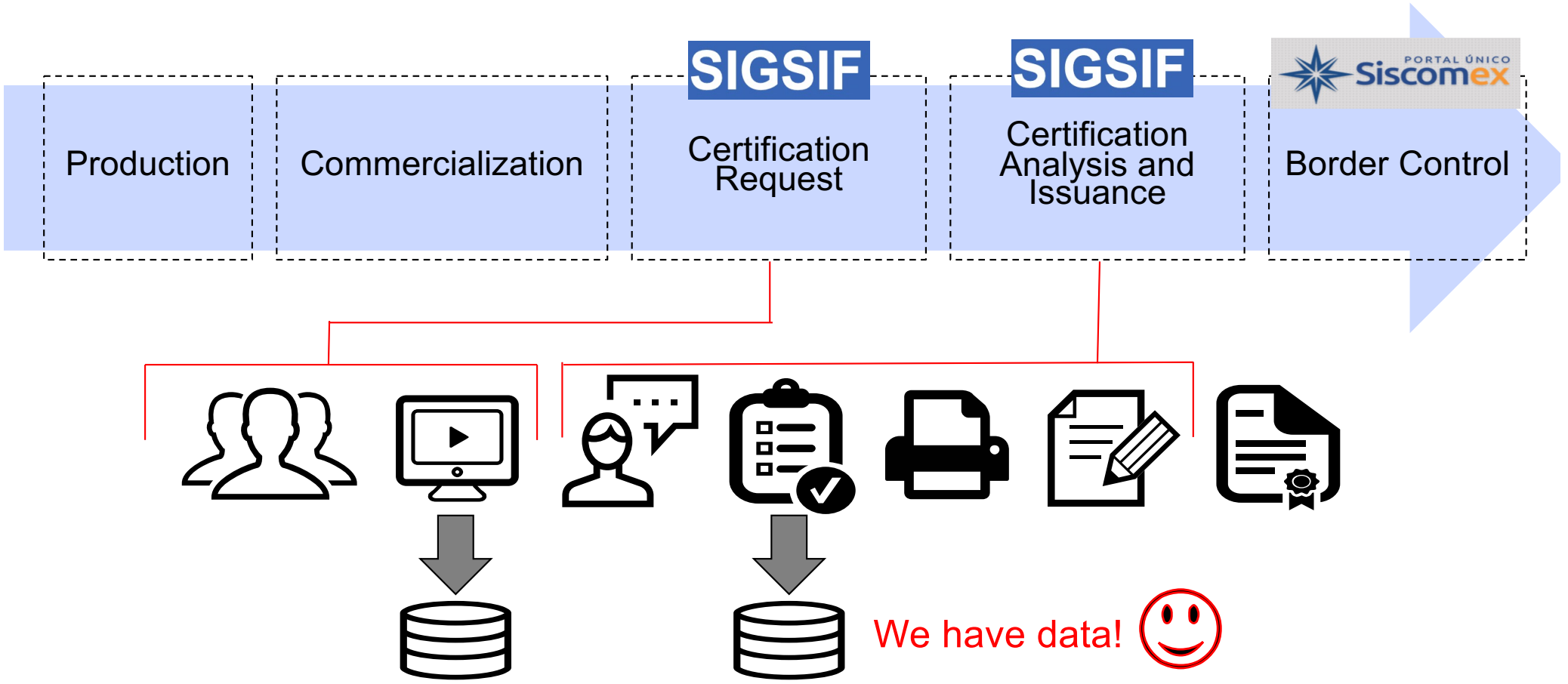
ISSUANCE: Where is the data?



ISSUANCE: How to extract / collect it?

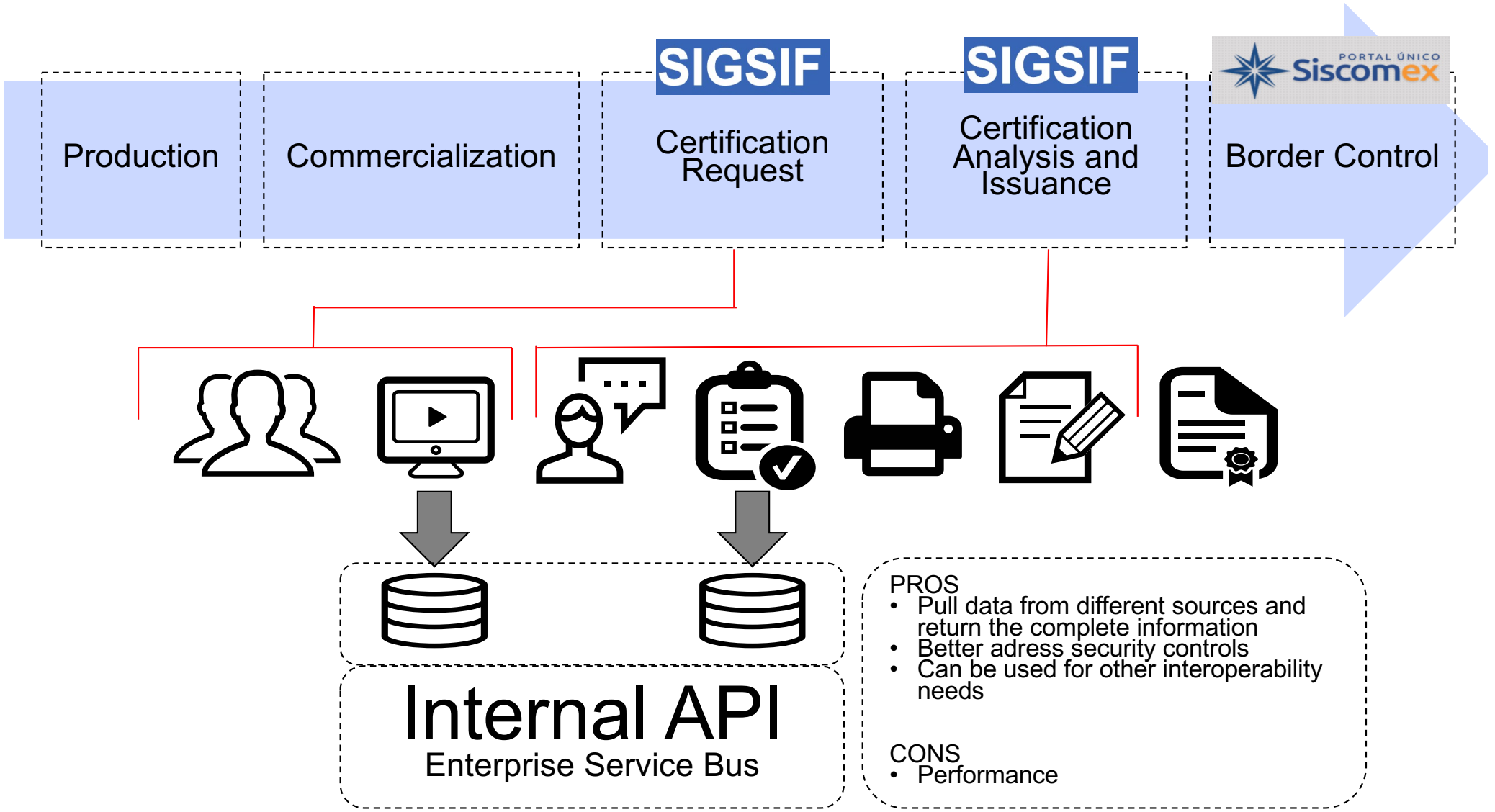
eCERT-BR

ISSUANCE: How to extract / collect it?



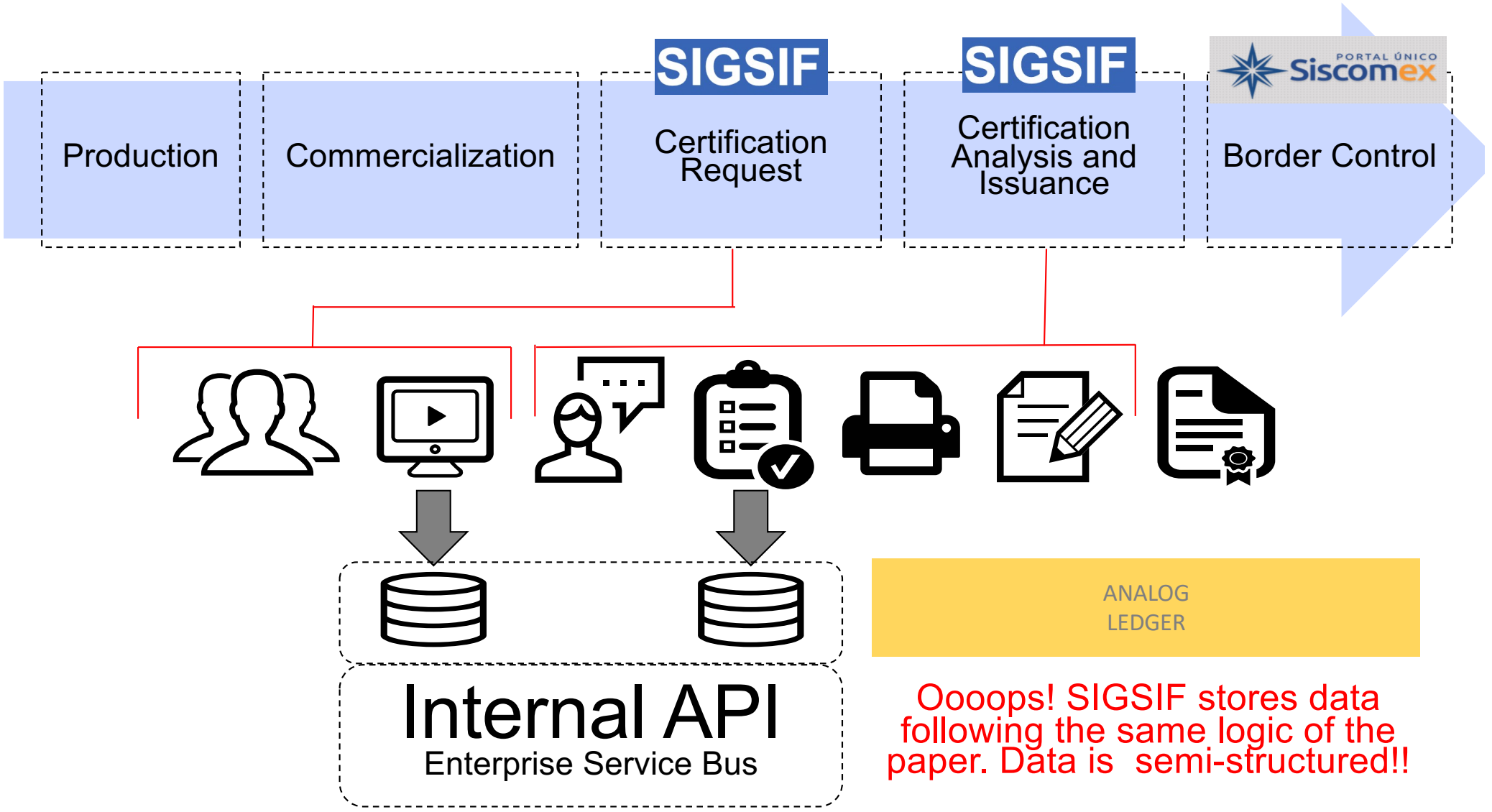
eCERT-BR

ISSUANCE: How to extract / collect it?



eCERT-BR

ISSUANCE: How to extract / collect it?



eCERT-BR

ISSUANCE: How to extract / collect it?

1. Consignor (name, address): [redacted] INDÚSTRIA E COMÉRCIO DE ALIMENTOS LTDA - ESTRADA [redacted] - BRASIL	**2. Certificate Nº:** [redacted]/21
	3. Competent Authority: Ministry of Agriculture, Livestock and Food Supply - MAPA
	4. Local Competent Authority: [redacted]
5. Importer (name, address): [redacted] INTERNATIONAL DISTRIBUTION COMPANYLIMITED [redacted] BUILDING 89 YEN CHOW STREET [redacted]	

6. Country of origin:	**ISO Code:**	**7. Country of dispatch:**	**ISO Code:**	**8. Country of destination:**	**ISO Code:**
BRAZIL	BR	Brazil	BR	Hong Kong	HK

9. Place of loading:	**10. Means of transport:**	**11. Declared point of entry:**
SIF [redacted] SERVIÇOS DE LOGISTICA LTDA	VESSEL	HONG KONG

12. Conditions for transport/storage: (18,0 ºC)

13. Identification of container(s)/ Seal number(s): CONTAINER Nº: HLBU 920381-0 - LACRE / SEAL: 0036213/SIF517

14. Identification of food products:

NCM Code or HS Code: 02032900	**Purpose:** For human consumption

Name of the product (include species)	lot or production date	**Approval number of establishments**			Type of packaging	Number of packages	Net weight (Kg)
		Abattoir	Cutting plant	Cold store			
FROZEN PORK - BONELESS COLLAR - SIF 996 (SUS SCROFA DOMESTICUS)	08/05/2021 UP TO 08/19/2021	[redacted]	[redacted]	[redacted]	CARTONS	1.350	27.000,000

1. Consig
COMÉRC

15. Health Certification:

The Official Veterinary Inspector certifies that:

- MAPA

a) The meat or meat product(s) herein described come from animals born and raised, slaughtered and packed in BRAZIL; the slaughterhouses where the animals slaughtered and/or processing plants where the meat packed are approved and under regular veterinary-sanitary supervision of the Brazilian Ministry of Agriculture, Livestock and Food Supply (MAPA);

b) The meat or meat product(s) was/were derived from animals that underwent ante and post mortem inspection and did not show signs of infectious and contagious diseases at the time of slaughter;

5. Import
BUILDIN

c) The animals were slaughtered following the Animal welfare provisions, meeting the rules set by the Competent Authority of Brazil;

d) The products were obtained in hygienic conditions in establishments that implemented the Good Manufacturing Practices (GMP), Sanitation Standard Operating Procedures (SSOP) and Hazard Analysis and Critical Control Points Programs (HACCP), following the recommendations of *Codex Alimentarius*, with systematic verification of the Competent Authority of Brazil;

6. Country
BRAZIL

Code:

e) The meat has been subject to the testing programmes for harmful organisms, veterinary drug residues and other toxic substances administered by the Brazilian competent authority. The results of the tests meet the Federal Industrial and Sanitary Inspection Regulation of Animal Products of MAPA and have not provided any evidence as to the presence of chemical/drug residues or toxic substance that could be harmful to human health. The tissues derived from food animals do not contain prohibited chemicals and the levels of drugs and chemicals in tissues do not exceed Maximum Residue Limits;

9. Place of
SIF 517 -
DE LOGIS

ONG

f) The meat or meat product(s) herein described has/have been dressed, prepared and packed under hygienic conditions in officially approved establishments which are subject to constant supervision by the official veterinarian. The meat or meat product(s) is/are fit for human consumption and eligible for export without restriction in accordance with the legislation of BRAZIL.

12. Condit

g) The products packaging is first used and meets the hygienic-sanitary requirements established by the Competent Authority of Brazil;

13. Identi

h) The vehicle or transport equipment is in proper conditions of hygiene and maintenance and, if products are to be kept under refrigeration, has the appropriate cold generation equipment to maintain the temperature of the products during the transport;

14. Identif

i) The products are fit for human consumption and have free transit and trade in Brazil.

NCM Cod

Additional Health Attestation for Beef and Pork (if applicable):

Name of the
(include sp

et weight
(g)

Meat and meat products come from animals that:

FROZEN P
COLLAR -
(SUS SCRC

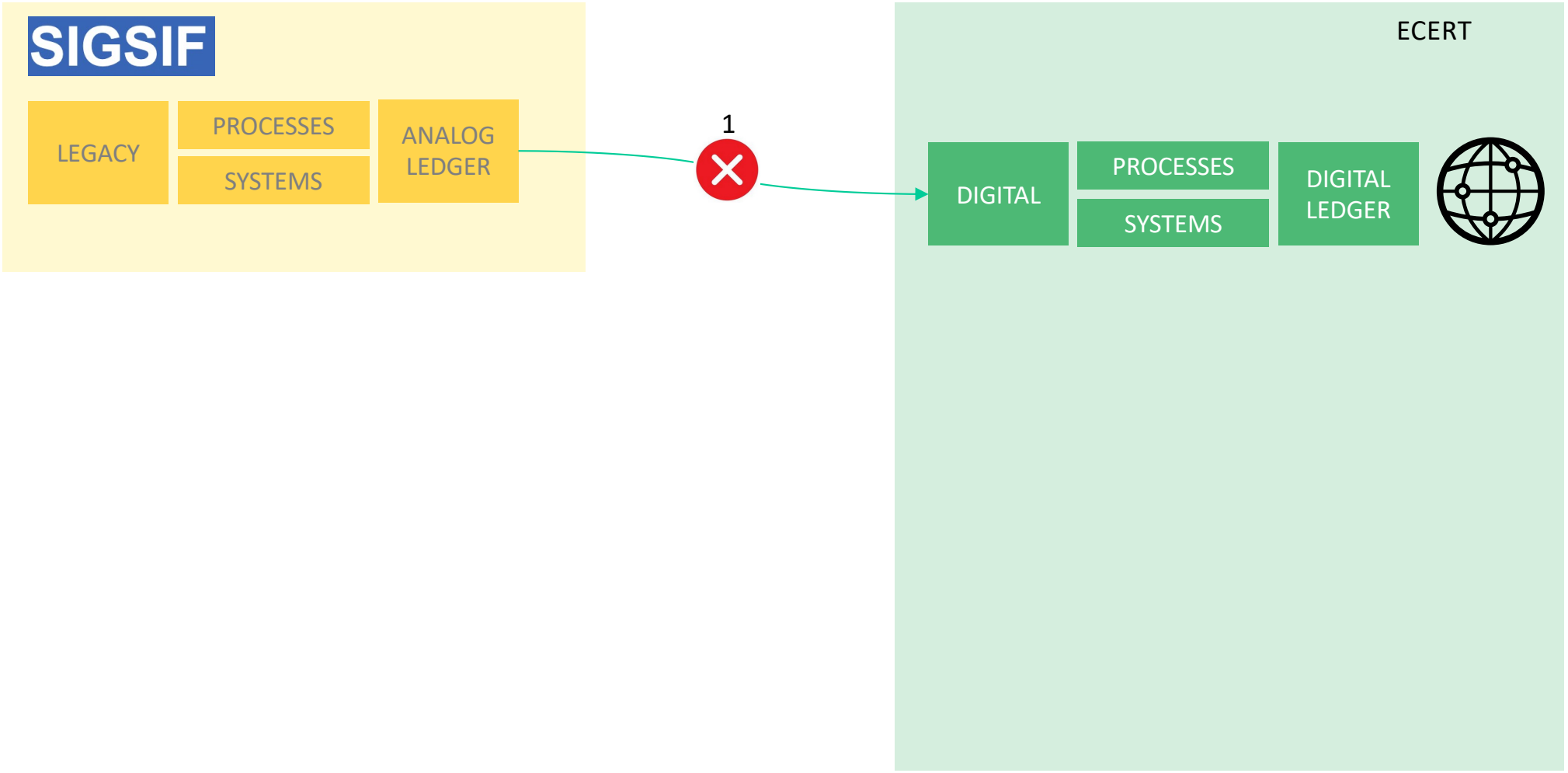
7.000,000

j) Were born and raised in Brazil which has been classified by the World Organization for Animal Health (OIE) as a Negligible Bovine Spongiform Encephalopathy (BSE) risk country and is free from African Swine Fever (ASF) in accordance with the OIE Terrestrial Animal Health Code.

k) Came from registered farms that are under supervision of the official veterinary service.

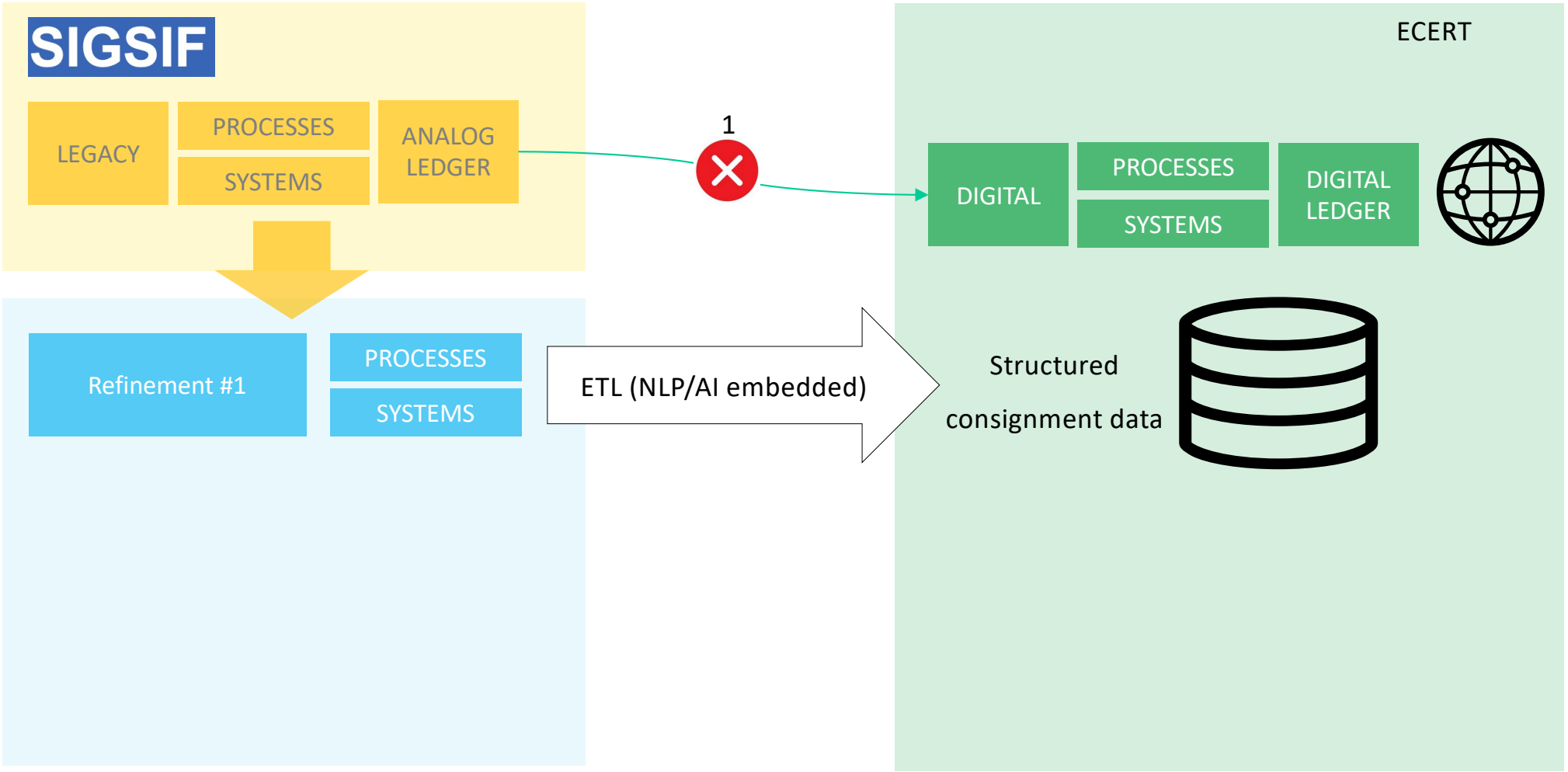
ISSUANCE: How to refine it?

eCERT-BR


SIGSIF
LEGACY
PROCESSES
SYSTEMS
ANALOG LEDGER
1
ECERT
DIGITAL
PROCESSES
SYSTEMS
DIGITAL LEDGER

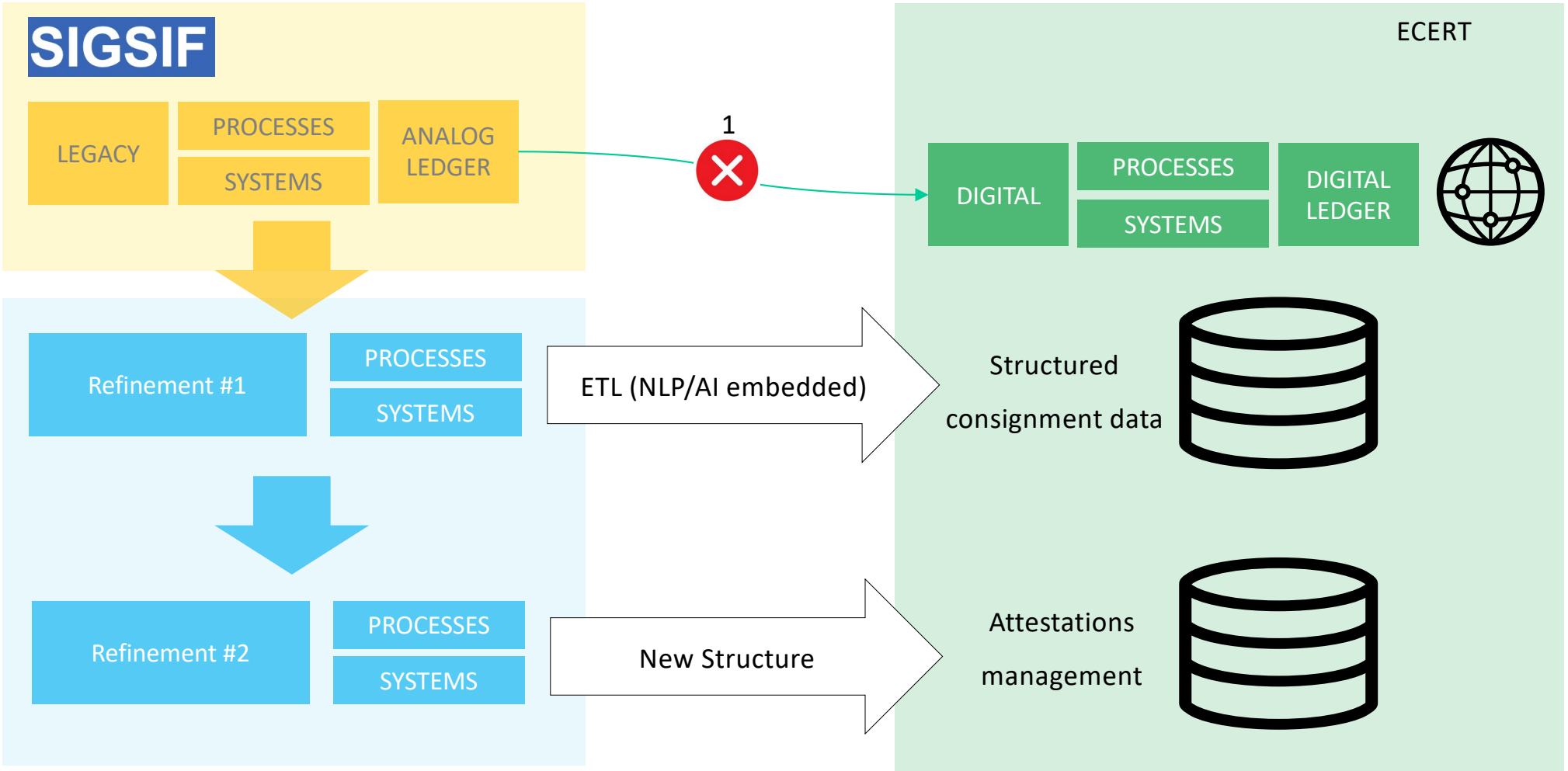
eCERT-BR

ISSUANCE: How to refine it?



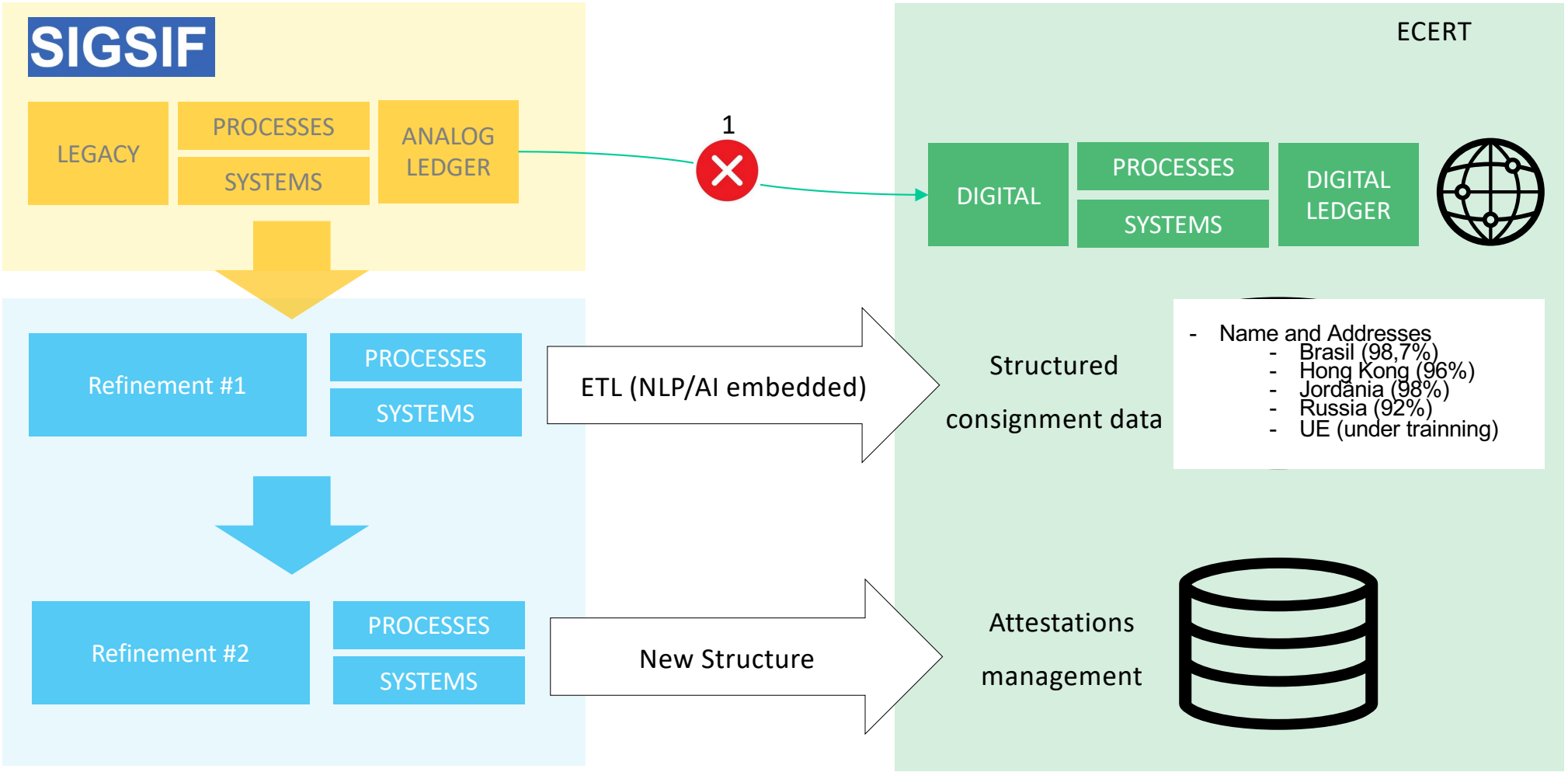
eCERT-BR

ISSUANCE: How to refine it?



eCERT-BR

ISSUANCE: How to refine it?



eCERT-BR

Where is the data?

How to extract / collect it?

How to refine it?

e-CERT

ISSUANCE

e-CERT

eCERT-BR

Where is the data?

How to extract / collect it?

How to refine it?

e-CERT ISSUANCE

e-CERT

INTERNATIONAL STANDARD

Syntax and Semantics definition

https://unece.org/trade/uncefact/ecert

UN/CEFACT
SIMPLE, TRANSPARENT AND EFFECTIVE PROCESSES FOR GLOBAL COMMERCE

abiec

ABPA
ASSOCIAÇÃO BRASILEIRA DE PROTEÍNA ANIMAL

MINISTÉRIO DA AGRICULTURA BRASIL INSPECIONADO S.I.F.

its

GAESI
GESTÃO EM AUTOMAÇÃO E T.I.

MINISTÉRIO DA AGRICULTURA, PECUÁRIA E ABASTECIMENTO

eCERT-BR


```
−<rsm:SPSCertificate>
  −<rsm:SPSExchangedDocument>
    −<ram:Name languageID="pt" languageLocaleID="BR">
        CERTIFICADO SANITÁRIO PARA EXPORTAÇÃO DE CARNE E PRODUTOS CÁRNEOS DE BOVINOS OU SUÍNOS DO BRASIL
      </ram:Name>
    −<ram:Name languageID="en" languageLocaleID="HK">
        HEALTH CERTIFICATE TO EXPORT BEEF AND BEEF PRODUCTS OR PORK AND PORK PRODUCTS FROM BRAZIL
      </ram:Name>
      <ram:ID>I0-00088932/2015/23</ram:ID>
      <ram:TypeCode>852</ram:TypeCode>
      <ram:StatusCode>70</ram:StatusCode>
    −<ram:IssueDateTime>
        <udt:DateTime>2023-03-02T20:57:36</udt:DateTime>
      </ram:IssueDateTime>
    −<ram:IssuerSPSParty>
        <ram:Name>Ministry of Agriculture, Livestock and Food Supply</ram:Name>
      </ram:IssuerSPSParty>
    −<ram:IncludedSPSNote>
        <ram:Subject languageID="en" languageLocaleID="HK">Authenticity Code</ram:Subject>
        <ram:Content>I3R8Q786-ZNUFX77W-0PYBVDL4-DDPXR81J</ram:Content>
        <ram:SubjectCode>AUTHENTICITY_CODE</ram:SubjectCode>
```


INTERNATIONAL STANDARD

Syntax and Semantics definition

UN/CEFACT
SIMPLE, TRANSPARENT AND EFFECTIVE PROCESSES FOR GLOBAL COMMERCE

abiec ABPA ASSOCIAÇÃO BRASILEIRA DE PROTEÍNA ANIMAL MINISTÉRIO DA AGRICULTURA BRASIL INSPECIONADO S.I.F. its GAESI GESTÃO EM AUTOMAÇÃO E T.I. MINISTÉRIO DA AGRICULTURA, PECUÁRIA E ABASTECIMENTO

eCERT-BR

United Nations Directories
for Electronic Data Interchange for
Administration, Commerce and Transport

UN/EDIFACT

```
−<rsm:SPSCertificate>
  −<rsm:SPSExchangedDocument>
    −<ram:Name languageID="pt" languageLocaleID="BR">
        CERTIFICADO SANITÁRIO PARA EXPORTAÇÃO DE CARNE E PI
      </ram:Name>
    −<ram:Name languageID="en" languageLocaleID="HK">
        HEALTH CERTIFICATE TO EXPORT BEEF AND BEEF PRODUCTS
      </ram:Name>
      <ram:ID>I0-00088932/2015/23</ram:ID>
      <ram:TypeCode>852</ram:TypeCode>
      <ram:StatusCode>70</ram:StatusCode>
    −<ram:IssueDateTime>
        <udt:DateTime>2023-03-02T20:57:36</udt:DateTime>
      </ram:IssueDateTime>
    −<ram:IssuerSPSParty>
        <ram:Name>Ministry of Agriculture, Livestock and Food Supply</ran
      </ram:IssuerSPSParty>
    −<ram:IncludedSPSNote>
        <ram:Subject languageID="en" languageLocaleID="HK">Authentici
        <ram:Content>I3R8Q786-ZNUFX77W-0PYBVDL4-DDPXR81J</ra
        <ram:SubjectCode>AUTHENTICITY_CODE</ram:SubjectCode>
```

```
Change indicators

  a plus sign (+)     for an addition
  an asterisk (*)     for an amendment to structure
  a hash sign (#)     for changes to names
  a vertical bar (|)  for changes to text for descriptions and
                      notes
  a minus sign (-)    for marked for deletion (within either
                      batch and interactive messages)
  a X sign (X)        for marked for deletion (within both batch
                      and interactive messages)


1001  Document name code                                    [C]
```

INTERNATIONAL STANDARD

Syntax and Semantics definition

UN/CEFACT
SIMPLE, TRANSPARENT AND EFFECTIVE PROCESSES FOR GLOBAL COMMERCE

abiec ABPA ASSOCIAÇÃO BRASILEIRA DE PROTEÍNA ANIMAL MINISTÉRIO DA AGRICULTURA BRASIL INSPECIONADO S.I.F. its GAESI GESTÃO EM AUTOMAÇÃO E T.I. MINISTÉRIO DA AGRICULTURA, PECUÁRIA E ABASTECIMENTO

eCERT-BR

```
−<rsm:SPSCertificate>
  −<rsm:SPSExchangedDocument>
    −<ram:Name languageID="pt" languageLocaleID="BR">
        CERTIFICADO SANITÁRIO PARA EXPORTAÇÃO DE CARNE E PI
      </ram:Name>
    −<ram:Name languageID="en" languageLocaleID="HK">
        HEALTH CERTIFICATE TO EXPORT BEEF AND BEEF PRODUCTS
      </ram:Name>
      <ram:ID>I0-00088932/2015/23</ram:ID>
      <ram:TypeCode>852</ram:TypeCode>
      <ram:StatusCode>70</ram:StatusCode>
    −<ram:IssueDateTime>
        <udt:DateTime>2023-03-02T20:57:36</udt:DateTime>
      </ram:IssueDateTime>
    −<ram:IssuerSPSParty>
        <ram:Name>Ministry of Agriculture, Livestock and Food Supply</ran
      </ram:IssuerSPSParty>
    −<ram:IncludedSPSNote>
        <ram:Subject languageID="en" languageLocaleID="HK">Authentici
        <ram:Content>I3R8Q786-ZNUFX77W-0PYBVDL4-DDPXR81J</rai
        <ram:SubjectCode>AUTHENTICITY_CODE</ram:SubjectCode>
```

United Nations Directories
for Electronic Data Interchange for
Administration, Commerce and Transport

UN/EDIFACT

```
851   Phytosanitary certificate
         A message/doucment consistent with the model for
         certificates of the IPPC, attesting that a consignment
         meets phytosanitary import requirements.

852   Sanitary certificate
         Document/message issued by the competent authority in
         the exporting country evidencing that alimentary and
         animal products, including dead animals, are fit for
         human consumption, and giving details, when relevant, of
         controls undertaken.

853   Veterinary certificate
         Document/message issued by the competent authority in
         the exporting country evidencing that live animals or
         birds are not infested or infected with disease, and
         giving details regarding their provenance, and of
         vaccinations and other treatment to which they have been
         subjected.
```

INTERNATIONAL STANDARD

Syntax and Semantics definition

UN/CEFACT
SIMPLE, TRANSPARENT AND EFFECTIVE PROCESSES FOR GLOBAL COMMERCE

abiec ABPA ASSOCIAÇÃO BRASILEIRA DE PROTEÍNA ANIMAL MINISTÉRIO DA AGRICULTURA BRASIL INSPECIONADO S.I.F. its GAESI GESTÃO EM AUTOMAÇÃO E T.I. MINISTÉRIO DA AGRICULTURA, PECUÁRIA E ABASTECIMENTO

eCERT-BR

```
−<rsm:SPSCertificate>
  −<rsm:SPSExchangedDocument>
    −<ram:Name languageID="pt" languageLocaleID="BR">
       CERTIFICADO SANITÁRIO PARA EXPORTAÇÃO D
     </ram:Name>
    −<ram:Name languageID="en" languageLocaleID="HK"
       HEALTH CERTIFICATE TO EXPORT BEEF AND BE
     </ram:Name>
     <ram:ID>I0-00088932/2015/23</ram:ID>
     <ram:TypeCode>852</ram:TypeCode>
     <ram:StatusCode>70</ram:StatusCode>
    −<ram:IssueDateTime>
       <udt:DateTime>2023-03-02T20:57:36</udt:DateTime
     </ram:IssueDateTime>
    −<ram:IssuerSPSParty>
       <ram:Name>Ministry of Agriculture, Livestock and Fo
     </ram:IssuerSPSParty>
    −<ram:IncludedSPSNote>
       <ram:Subject languageID="en" languageLocaleID="I
       <ram:Content>I3R8Q786-ZNUFX77W-0PYBVDL4-D
       <ram:SubjectCode>AUTHENTICITY_CODE</ram:S
```

Return to Stylus Studio EDIFACT home page.
Return to Stylus Studio EDIFACT D04B Code List page.

4405 - Status description code
UN/CEFACT Revision 2004B Code List

Repr: an..3

Desc: Code specifying a status.

This table also occurs in the following versions of this standard: D00A, D00B, D01A, D01B, D01C, D02A, D02B, D03A, D03B, D04A, D99B

65	Negative
	Negative status.
66	Unsigned amount
	The status of the amount is unsigned.
67	Preliminary
	Preparatory to.
68	Split
	Divided into parts.
69	Recommended
	The object is favoured in preference to other alternatives.
70	Issued
	Has been given out.
71	Available for ordering
	Goods are available for ordering.
72	Not available for ordering
	Goods are not available for ordering.
73	Confirmed
	Officially acknowledged.
74	Expiry date exceeded

INTERNATIO

Syntax and Se

SIMPLE, TRANSPARENT AND EFFECTIVE PROCESSES FOR GLOBAL COMMERCE

abiec ABPA ASSOCIAÇÃO BRASILEIRA DE PROTEÍNA ANIMAL MINISTÉRIO DA AGRICULTURA BRASIL INSPECIONADO S.I.F. its GAESI GESTÃO EM AUTOMAÇÃO E T.I. MINISTÉRIO DA AGRICULTURA, PECUÁRIA E ABASTECIMENTO

EXCHANGE: How to distribute it for Importing Authorities?

eCERT-BR

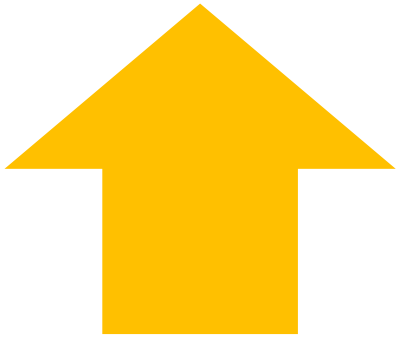
DIRECT EXCHANGE		INDIRECT EXCHANGE	
PULL	PUSH	PULL	PUSH

eCERT-BR

DIRECT EXCHANGE		INDIRECT EXCHANGE	
PULL	PUSH	PULL	PUSH

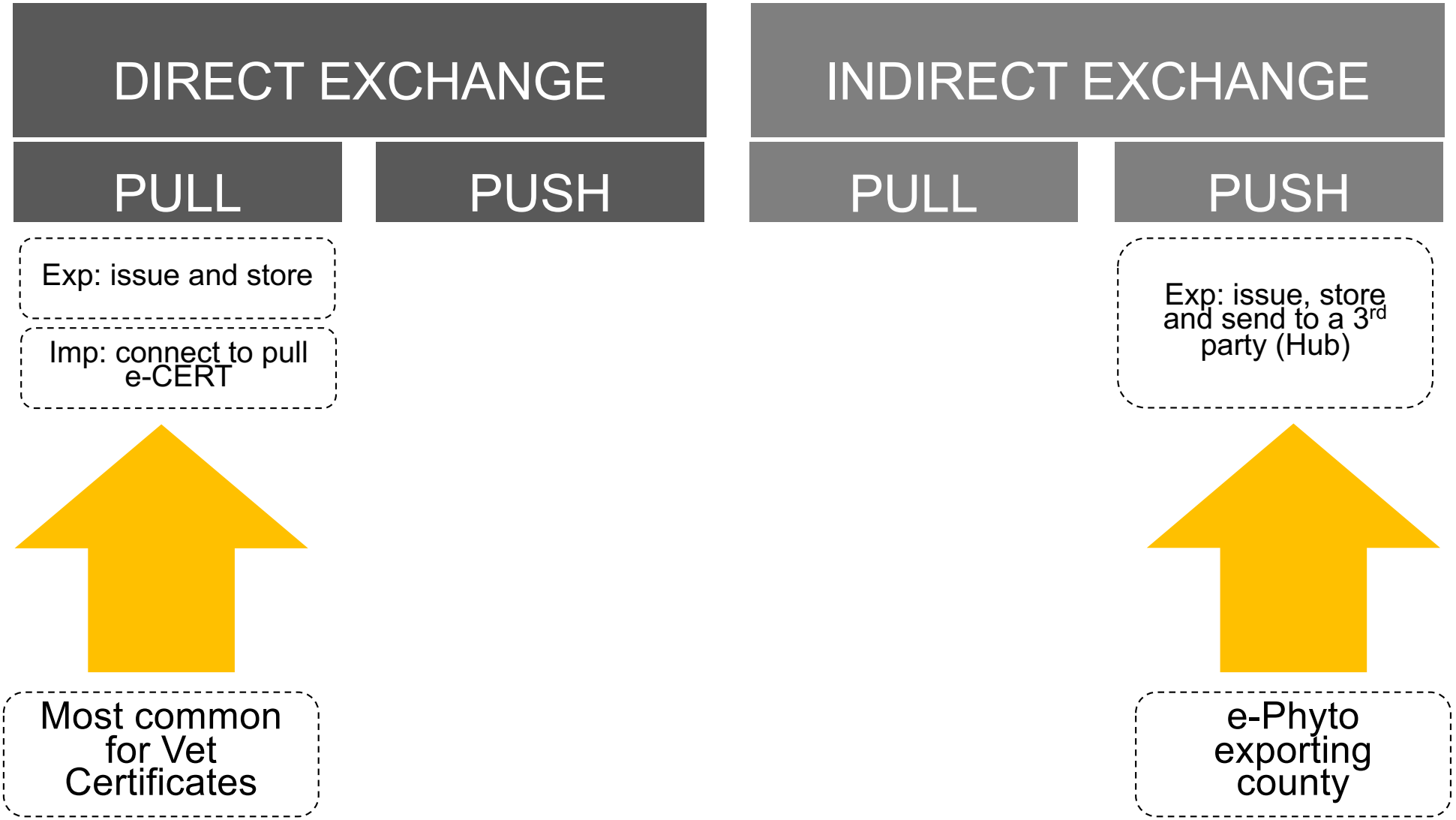
Exp: issue and store

Imp: connect to pull e-CERT

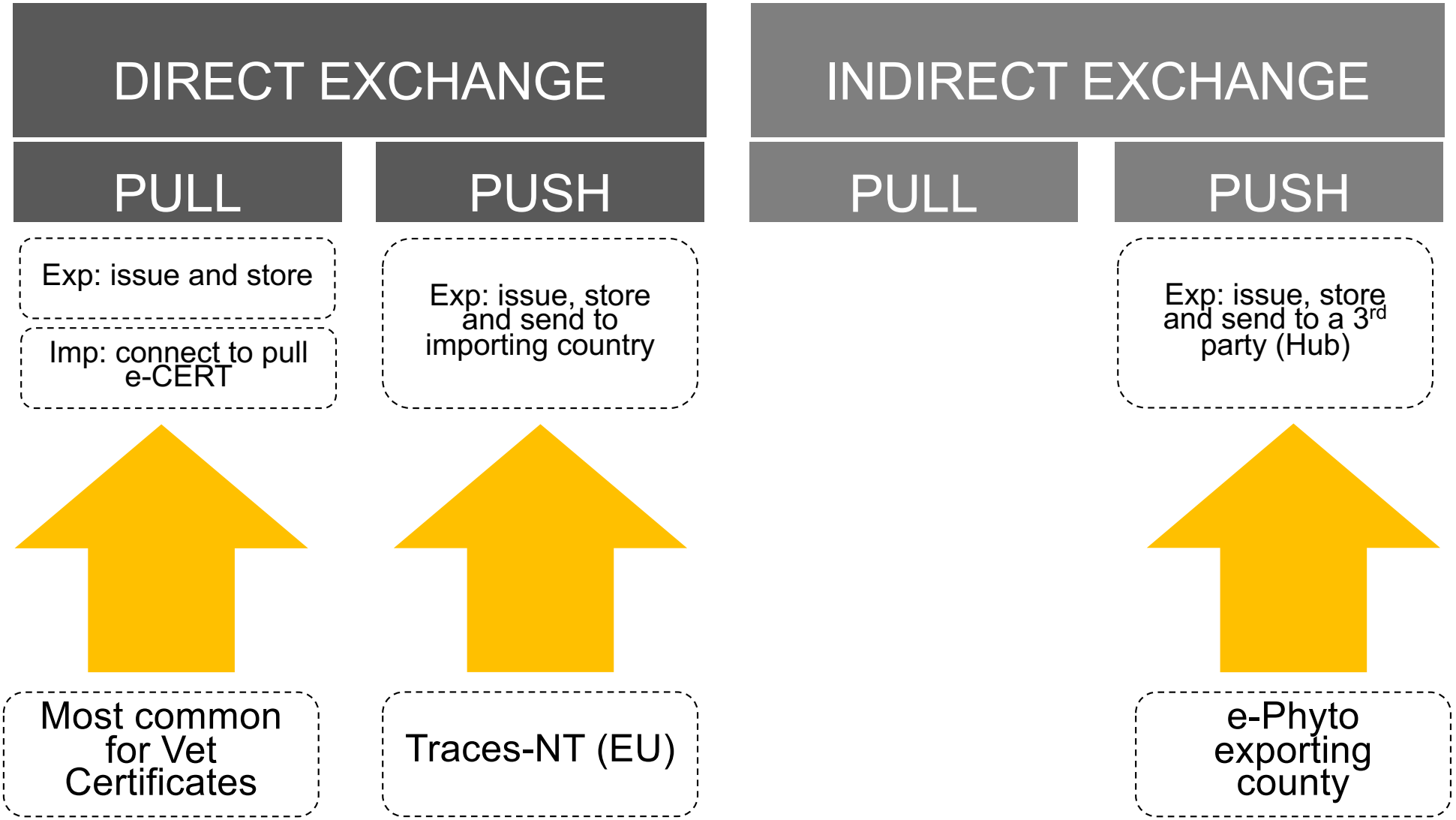


Most common for Vet Certificates

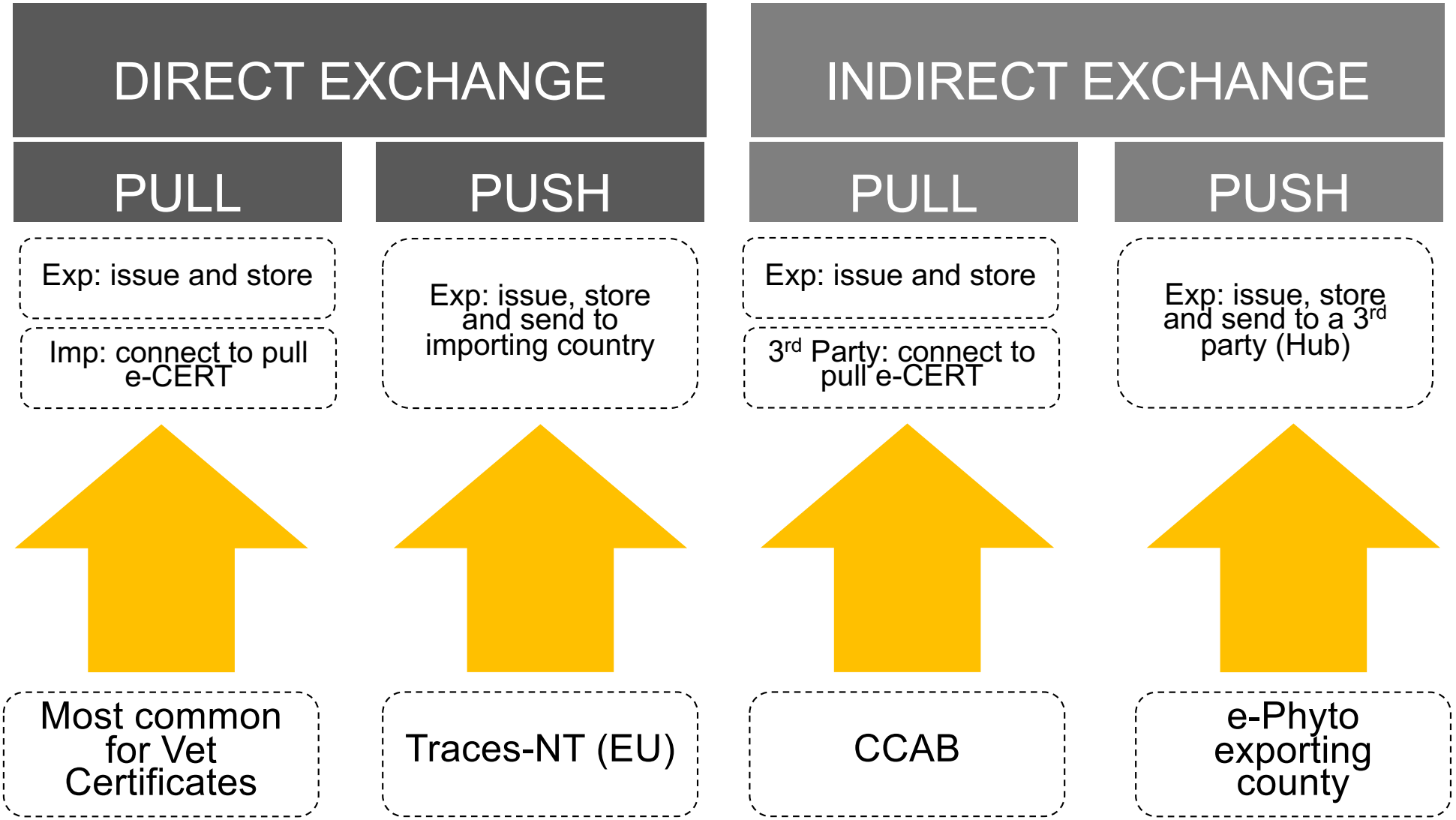
eCERT-BR


DIRECT EXCHANGE
INDIRECT EXCHANGE
PULL
PUSH
PULL
PUSH
Exp: issue and store
Imp: connect to pull e-CERT
Exp: issue, store and send to a 3rd party (Hub)
Most common for Vet Certificates
e-Phyto exporting county

eCERT-BR


DIRECT EXCHANGE
INDIRECT EXCHANGE
PULL
PUSH
PULL
PUSH
Exp: issue and store
Imp: connect to pull e-CERT
Exp: issue, store and send to importing country
Exp: issue, store and send to a 3rd party (Hub)
Most common for Vet Certificates
Traces-NT (EU)
e-Phyto exporting county

eCERT-BR


DIRECT EXCHANGE
INDIRECT EXCHANGE
PULL
PUSH
PULL
PUSH
Exp: issue and store
Imp: connect to pull e-CERT
Exp: issue, store and send to importing country
Exp: issue and store
3rd Party: connect to pull e-CERT
Exp: issue, store and send to a 3rd party (Hub)
Most common for Vet Certificates
Traces-NT (EU)
CCAB
e-Phyto exporting county

THERE IS NO STANDARD!!!

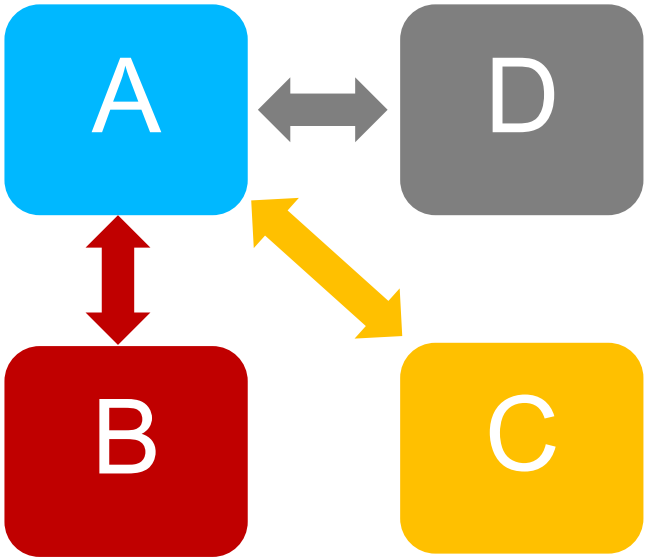
The certificate itself is standardized, but the way that countries implement to exchange it is not.

Certificates

county

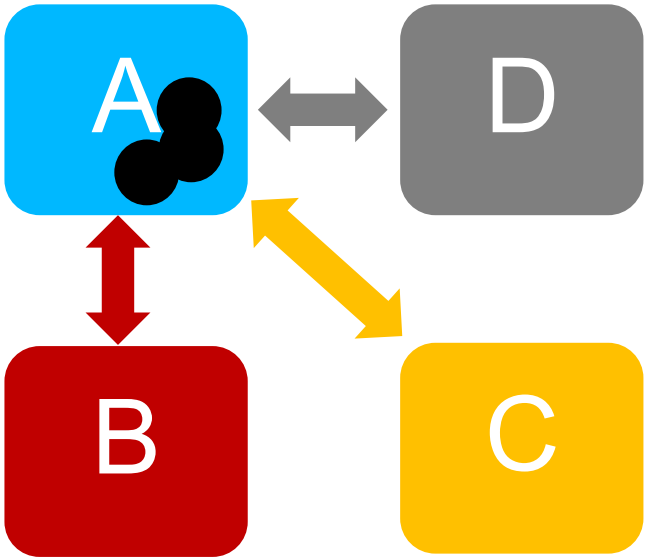
Systems Interoperability

● e-Cert



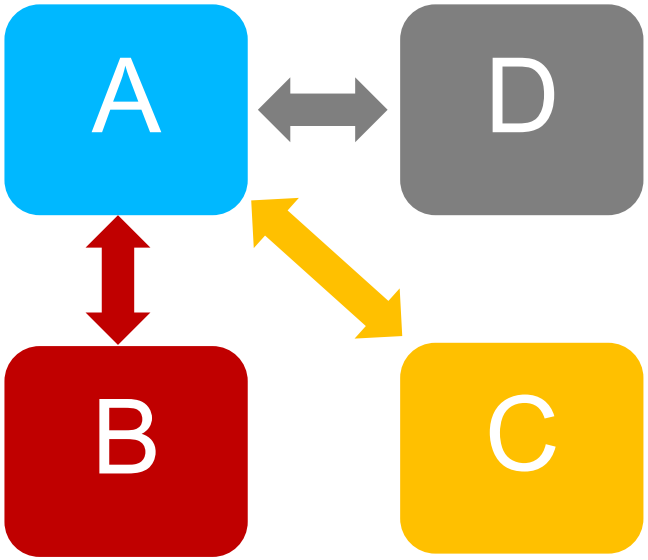
Systems Interoperability

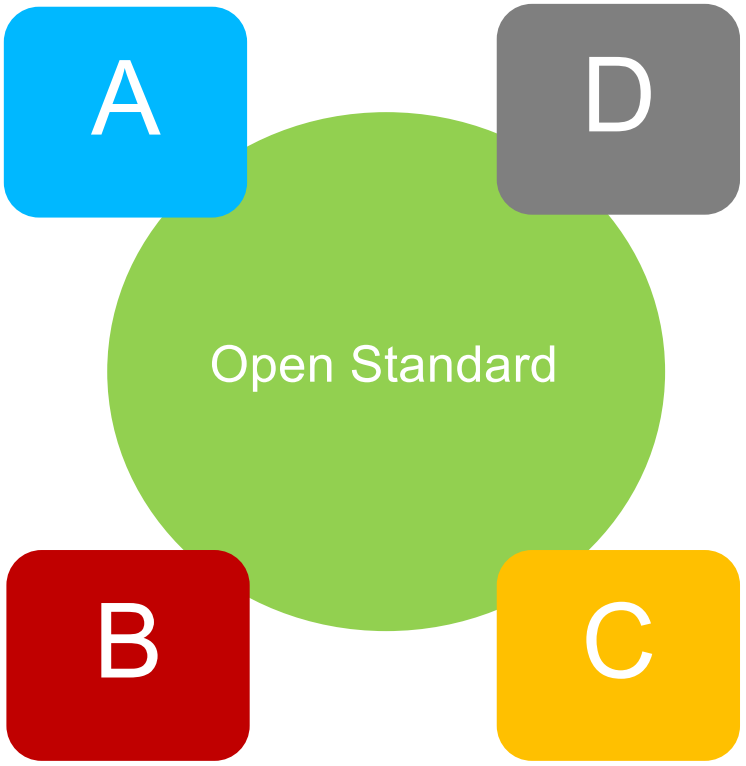
● e-Cert



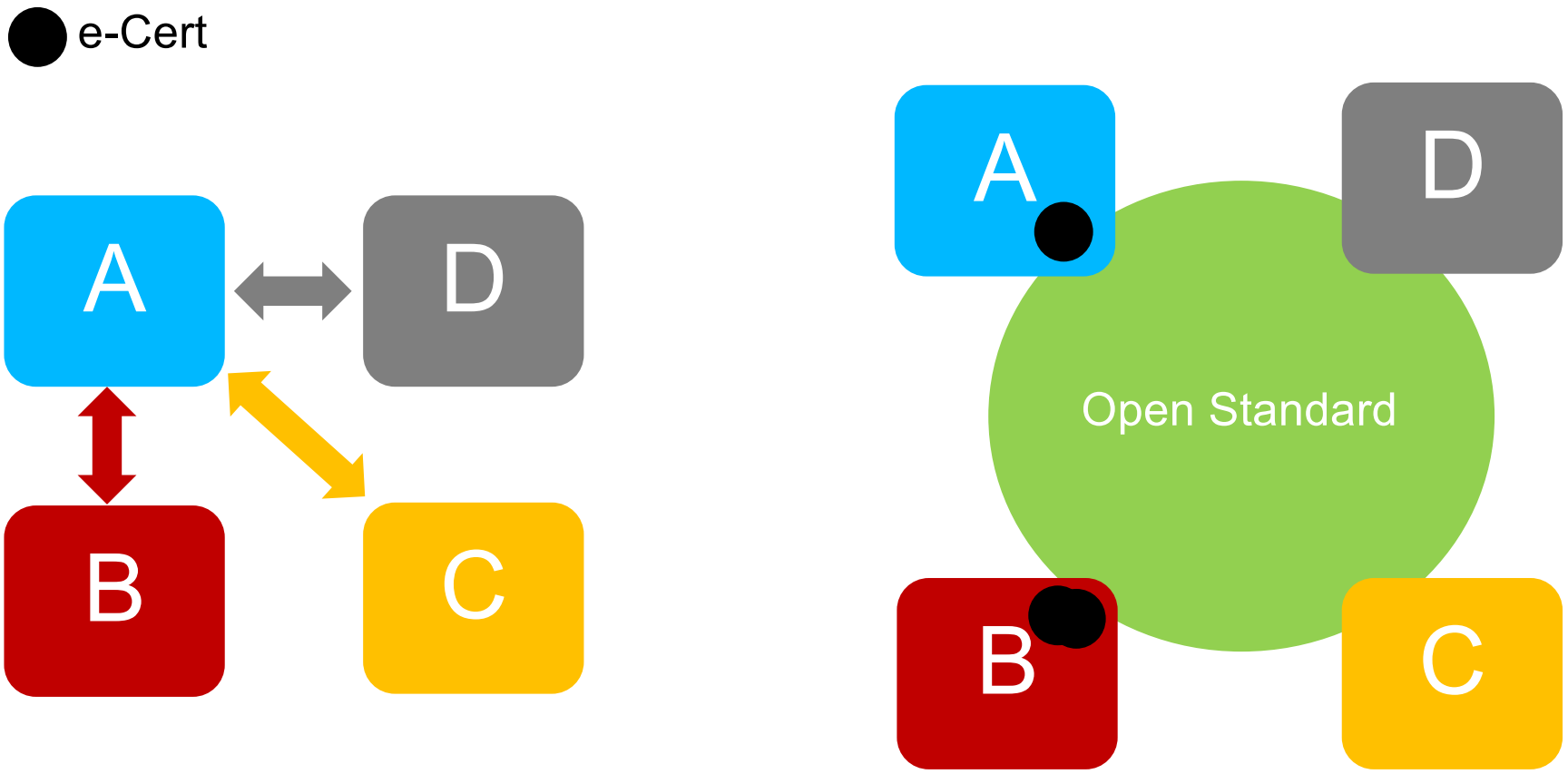
Systems Interoperability

● e-Cert





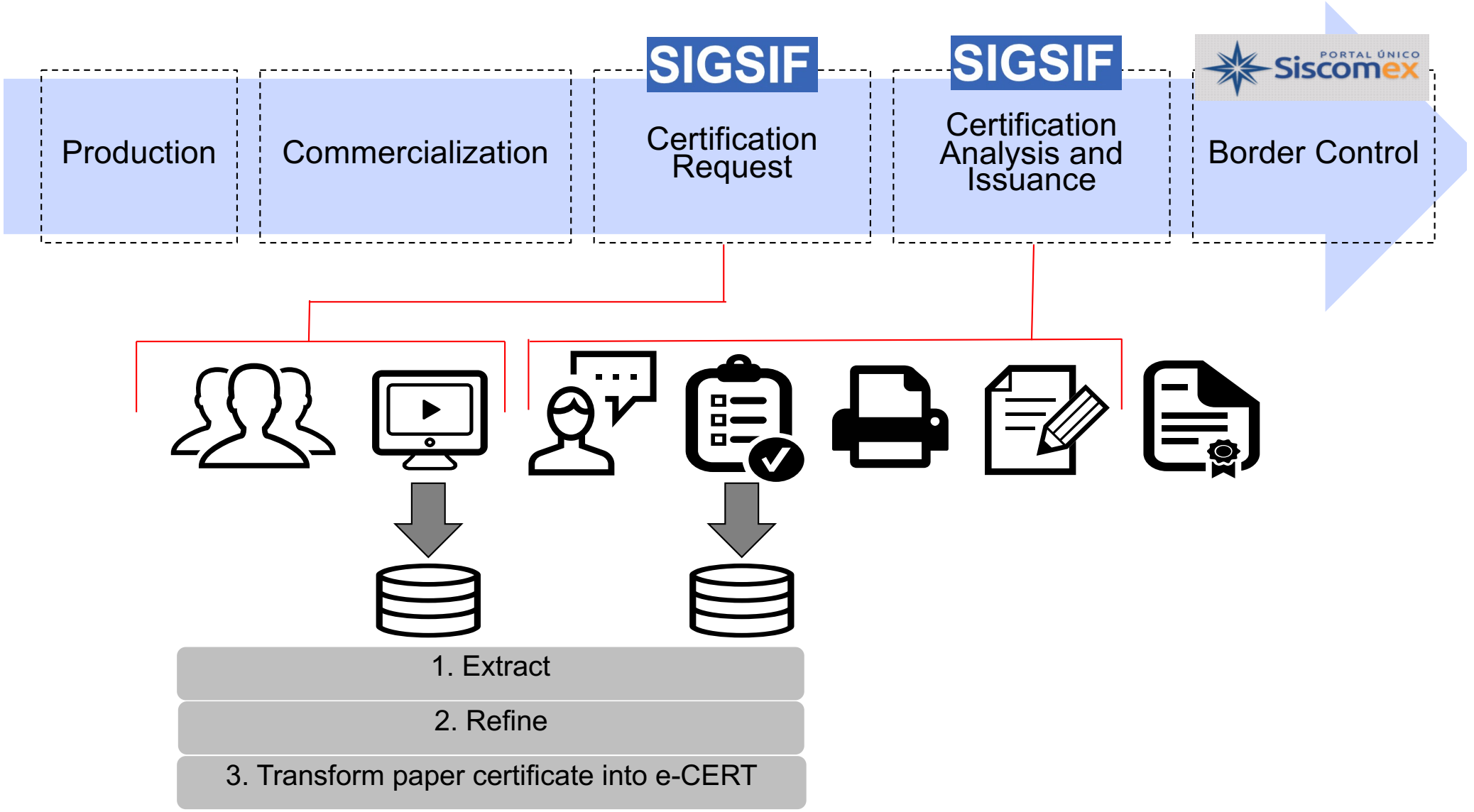
Systems Interoperability



EXCHANGE: How to distribute it for exporters?

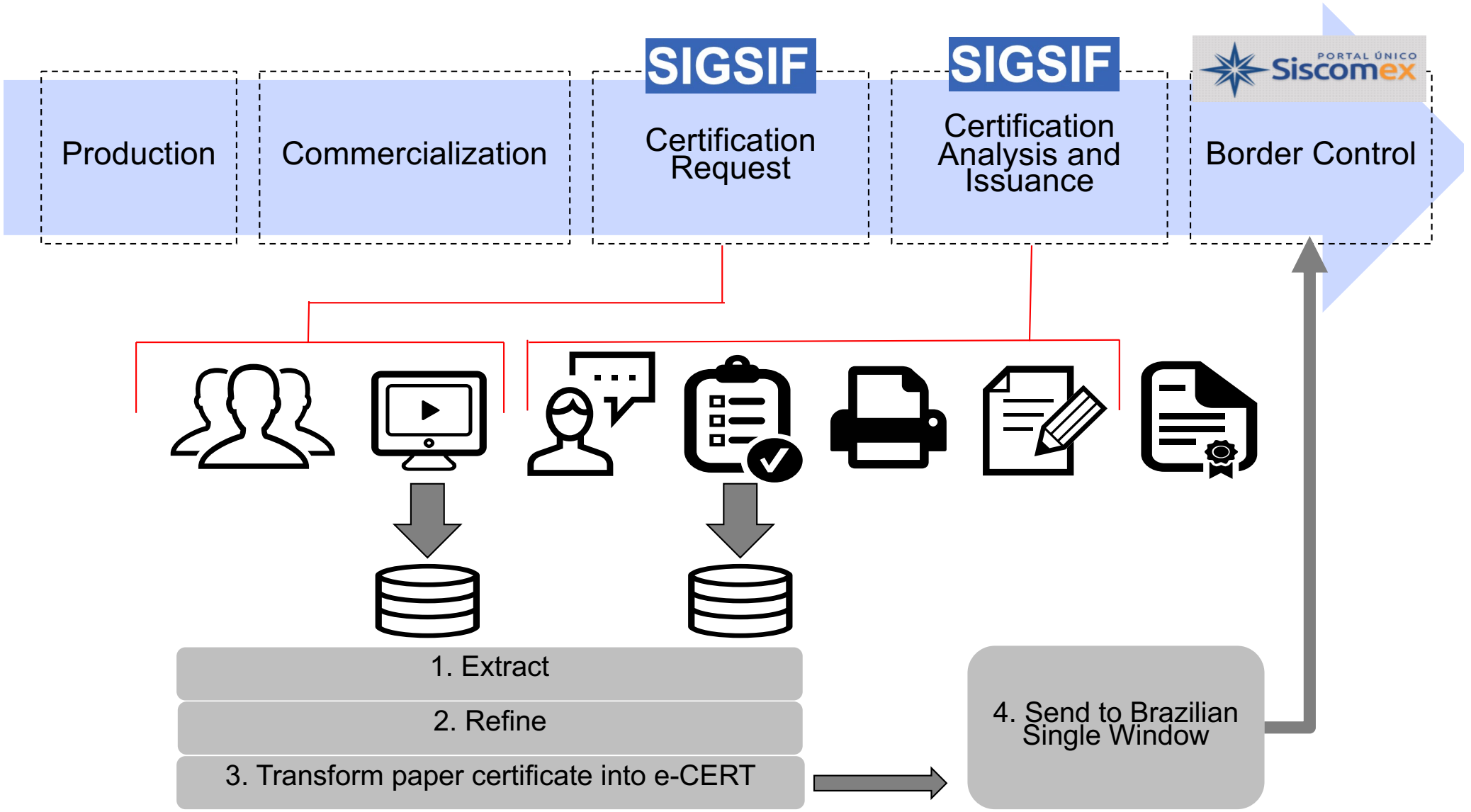
eCERT-BR

ISSUANCE: How to extract / collect it?



eCERT-BR

ISSUANCE: How to extract / collect it?



EXCHANGE: with EXPORTERS

IMPORTANT!!

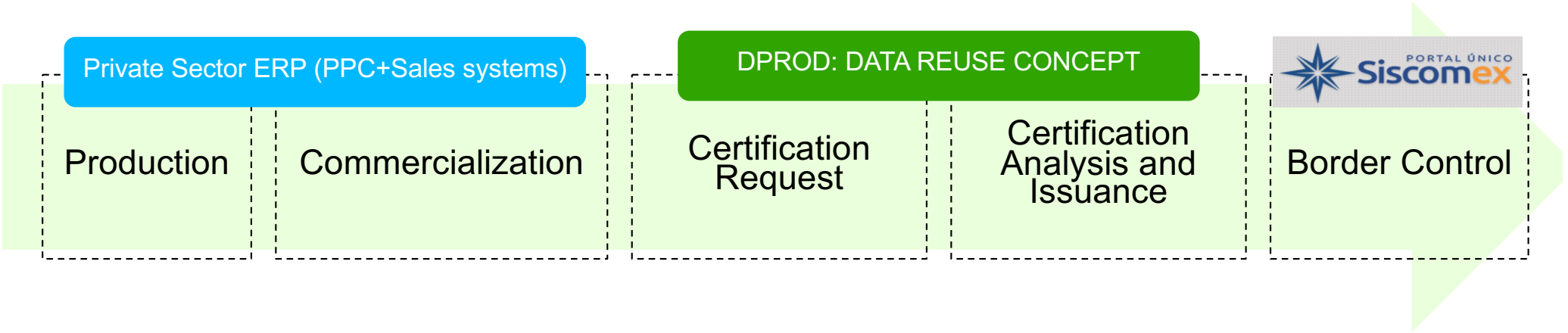
EXPORTERS MUST BE UPDATED ABOUT:

- Issuance of the e-CERT
- Receiving by the Importing Authority
- Acceptance or Rejection/Motives by the Importing Authority

FUTURE

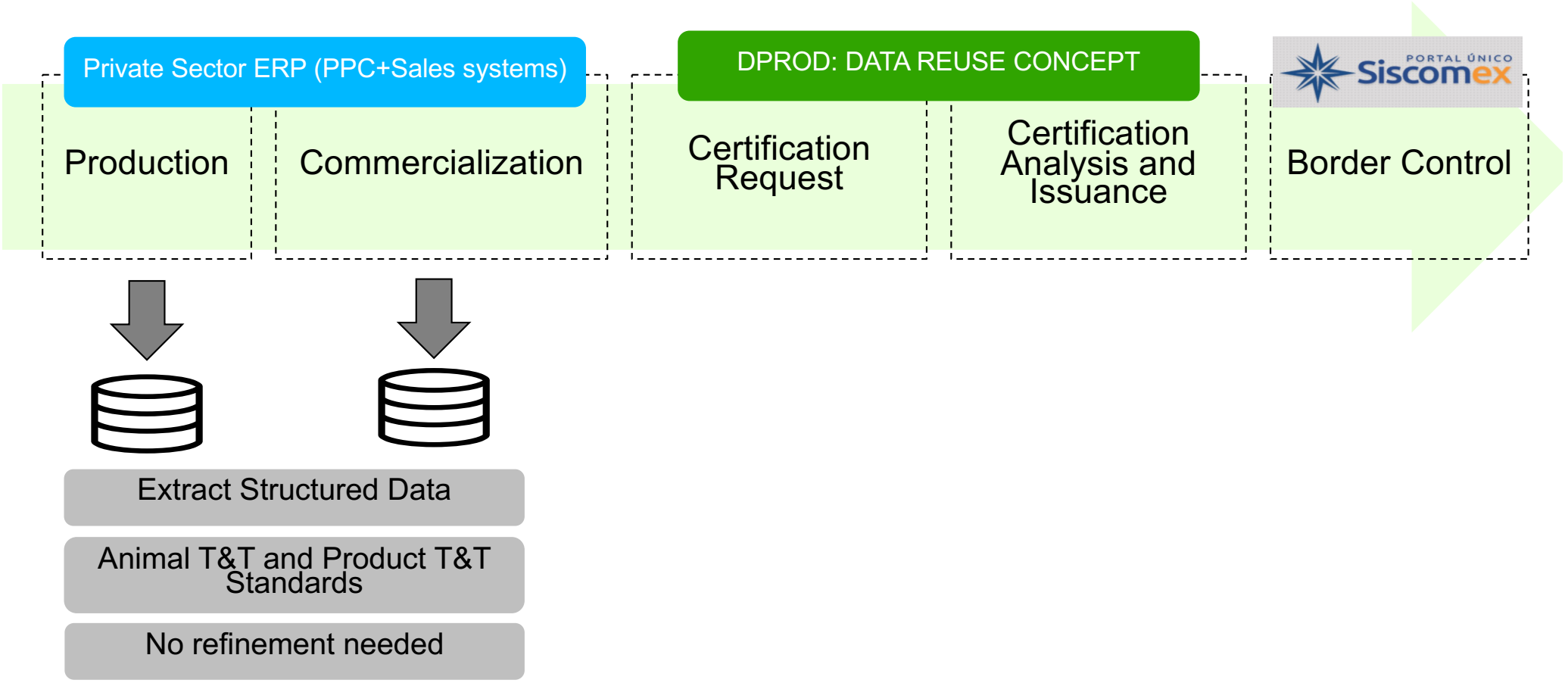
eCERT-BR

ISSUANCE: How to extract / collect it?



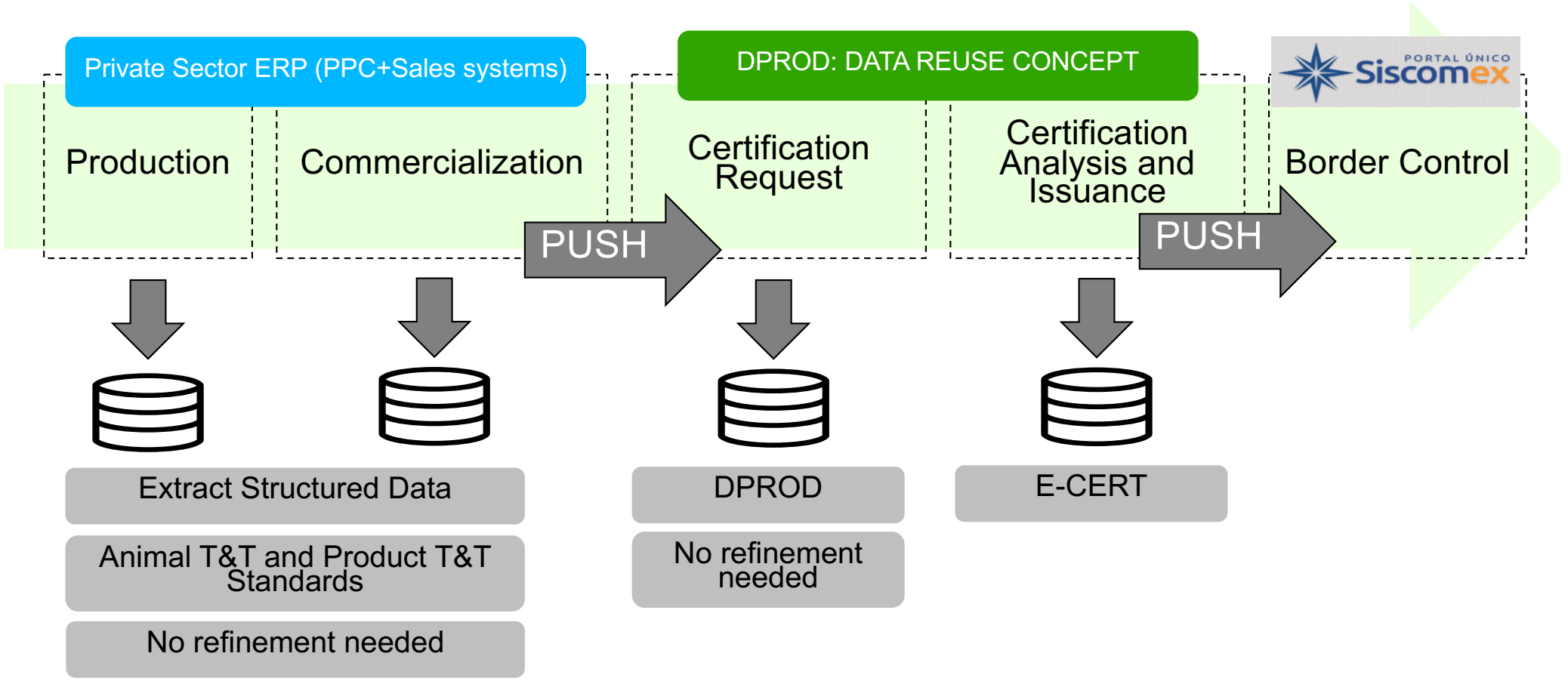
eCERT-BR

ISSUANCE: How to extract / collect it?



eCERT-BR

ISSUANCE: How to extract / collect it?



THANK YOU!!!!

claudia.vitoria@agro.gov.br

fernanda.michalski@agro.gov.br

vidal.melo@usp.br