A contribution to the Digital Single Market : the paperless food chain control

Conference « Food chain in the digital Single Market »
9th November 2016

SK ⋮ EU

*Health and
Food Safety*

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INTRODUCTION

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TRACES (Trade Control and Expert System)

tracks the movements of ...

food and feed

animals

semen and embryos

plants

...imported from outside the EU or travelling through the EU

23 EU languages
+
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It aims to ensure:
- traceability;
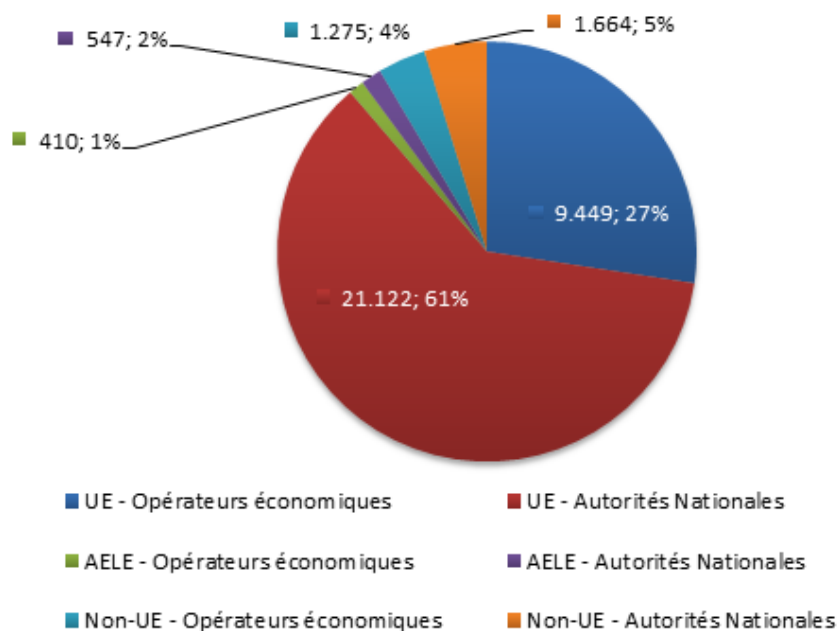- information exchange;
- risk management.
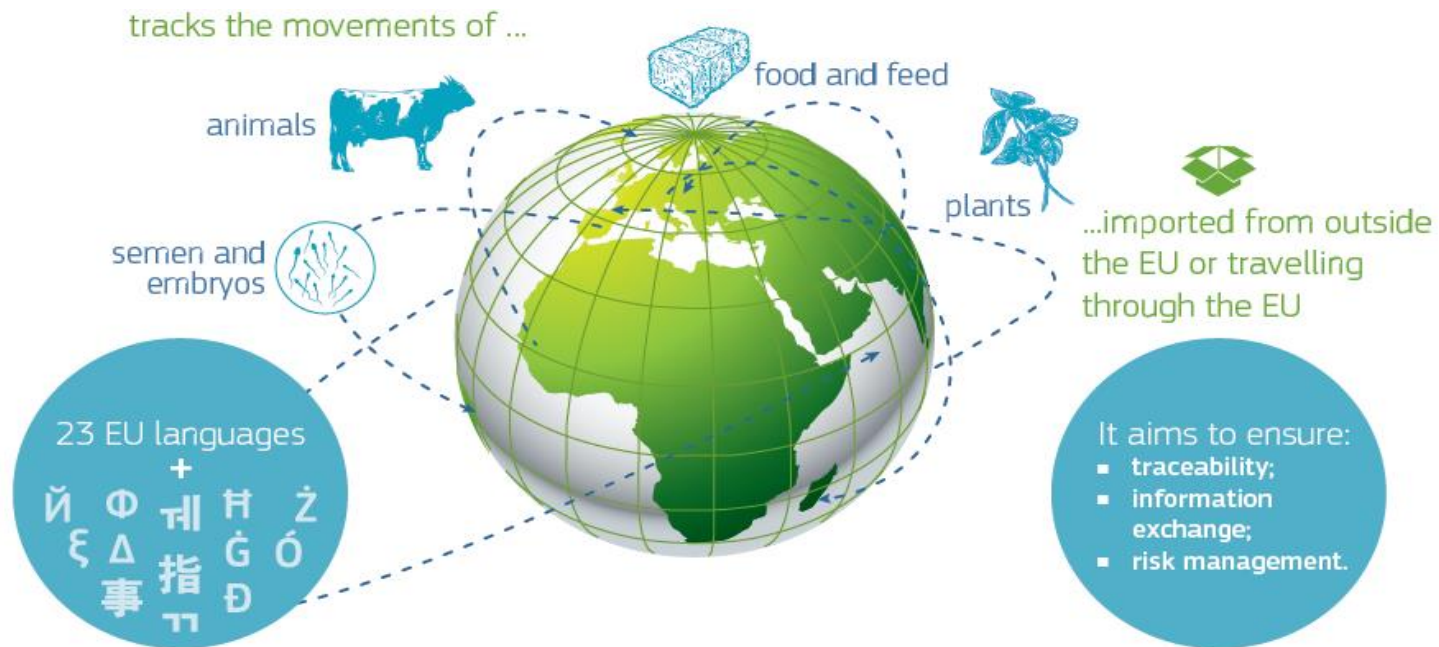
✓ **The digital single market and TRACES: digitisation the entire certification process**

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TRACES implementation

Users : 34.467

Certificates: 1.685.822

TRACES Implementation

28 EU countries
52 non-EU countries
4 EFTA countries
Countries which participated in a training

84 Countries and overseas territories use TRACES
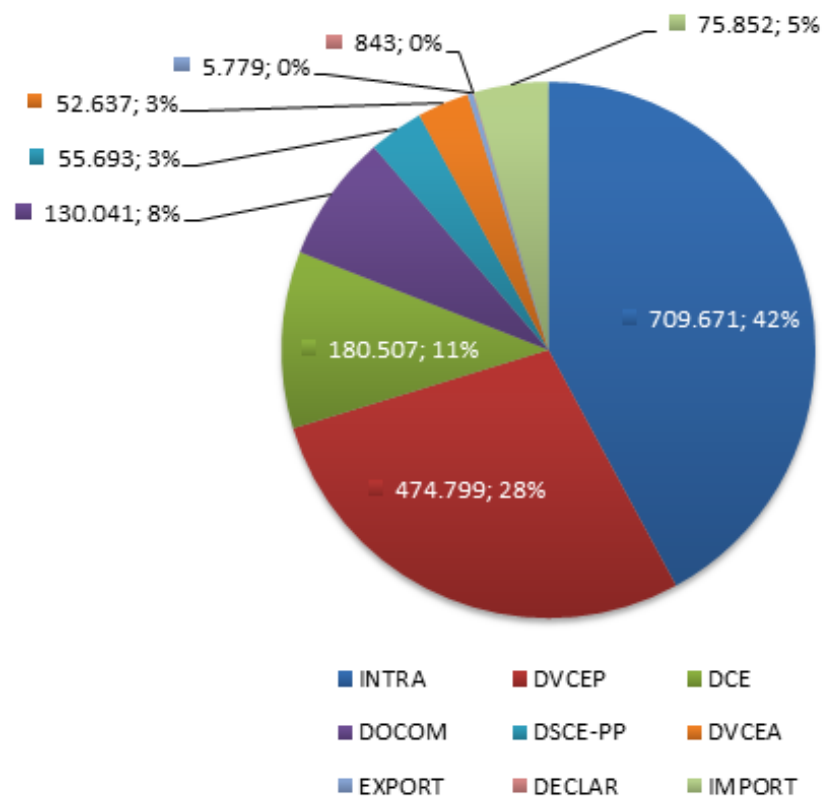
The paperless food chain control

✓ **Food chain control digital strategy : a new vision of exchanges**

- Full dematerialisation of veterinary, phytosanitary certificates for importation and for intra EU trade, border control Documents, COI (Organics certificates), FLEGT (timber certificates) and Fish Catch certificates

- Dematerialisation of the sanitary control and movement procedures (Border control, intra EU trade)

- Dematerialisation of the border clearance process: EU Customs Single Window

The paperless food chain control

✓ **Original document = electronic form**

- ▪ "[…] writing in electronic form is admitted as evidence in the same way that written it on paper, subject to properly identify the person lodging it and that it be prepared and kept in conditions such as to ensure the integrity"

- ▪ E-sanitary certificate will have the same legal validity than a paper sanitary certificate

- ▪ Digital signature

The paperless food chain control

✓ **Legal framework and paperless sanitary procedures**

- Since 2005: Regulation on TRACES to make it compulsory for intra EU movements and import of animals and products of animal origin

- Since July 2016 : Regulation eIDAS gave a legal value to the e-sanitary certificate without imposing it

- From 2020 :New Official Control Regulation e-sanitary certificate would be mandatory

- Official definition of e-sanitary certificate (attributes, forms, etc.) to be specified with delegated acts

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The paperless food chain control

✓ **A complete end-to-end digital service**

- A complete end-to-end digital experience for the all the users, at all stages of food chain control

- Different types of specific use cases adapted for member states or third countries

- Support to use digital services

- New media devices (PC, smartphone, tablet)

PART. 1
TRACES E-SANITARY CERTIFICATE : THE NEW OFFER OF THE DG FOR HEALTH & FOOD SAFETY

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TRACES e-sanitary certificate : a regulated offer

✓ **A digital signature process based on a 3-steps workflow, in compliance with the eIDAS regulation (R (EU) N° 910/2014)**
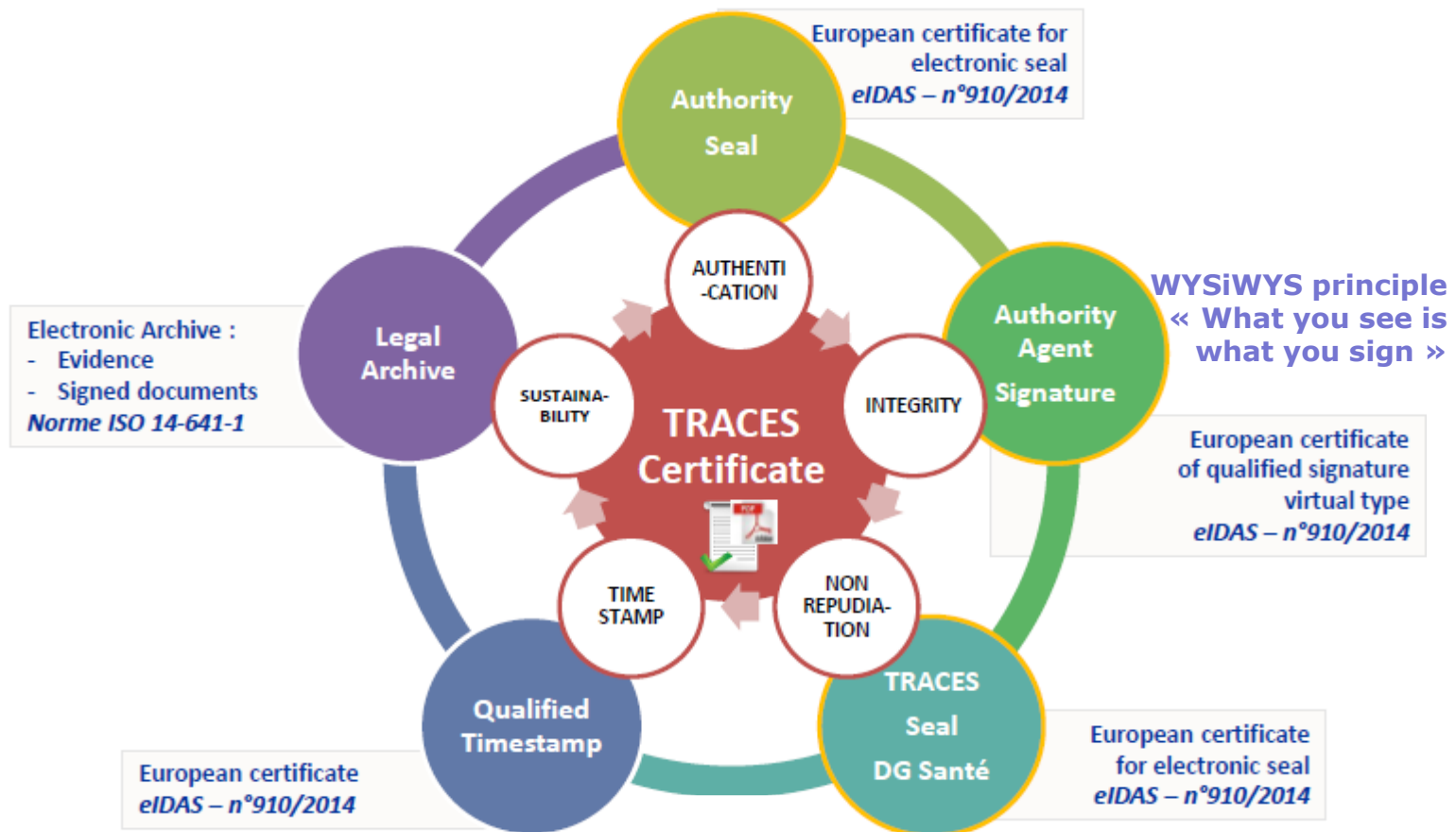
- Step 1 : Authority Electronic Seal (Issuing Country)
- Step 2 : Qualified certificate of digital signature (same legal value as handwritten signature) (Physical Person Certificate)
- Step 3 : TRACES seal (EC Seal)

  + Qualified time-stamping
  + Archiving of evidence's files

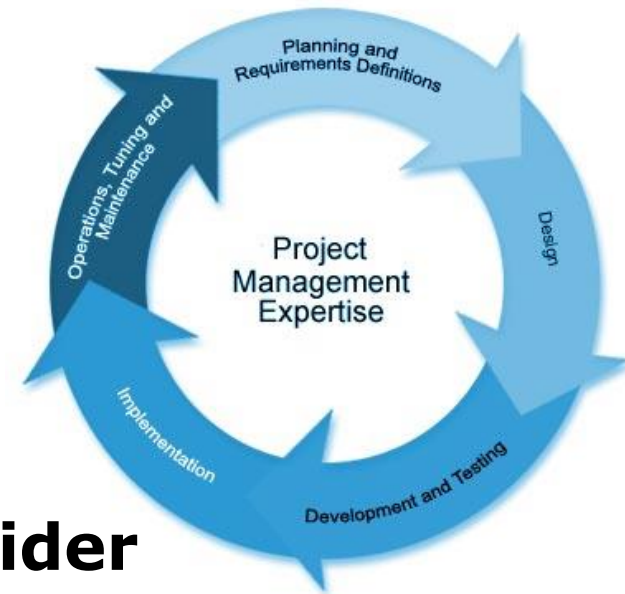# TRACES e-sanitary certificate : key elements of legal value

European certificate for electronic seal
eIDAS – n°910/2014

Authority Seal

AUTHENTI-CATION

Electronic Archive :
- Evidence
- Signed documents
Norme ISO 14-641-1

Legal Archive

SUSTAINA-BILITY

TRACES Certificate

INTEGRITY

Authority Agent Signature

WYSiWYS principle « What you see is what you sign »

European certificate of qualified signature virtual type
eIDAS – n°910/2014

TIME STAMP

NON REPUDIA-TION

Qualified Timestamp

TRACES Seal DG Santé

European certificate
eIDAS – n°910/2014

European certificate for electronic seal
eIDAS – n°910/2014

TRACES e-sanitary certificate : a controlled offer

✓ **TRACES management**
- More than 12 years of experience
- Technology's mastery
- A dedicated staff
- High availability (24/7/365) with dedicated, multilingual help desk
- Project management
- Change management

✓ **A single EC Trust Service Provider**
- ID collect
- Distribution & management of Physical Personal Certificates and Authority Seals
- Authority Certification
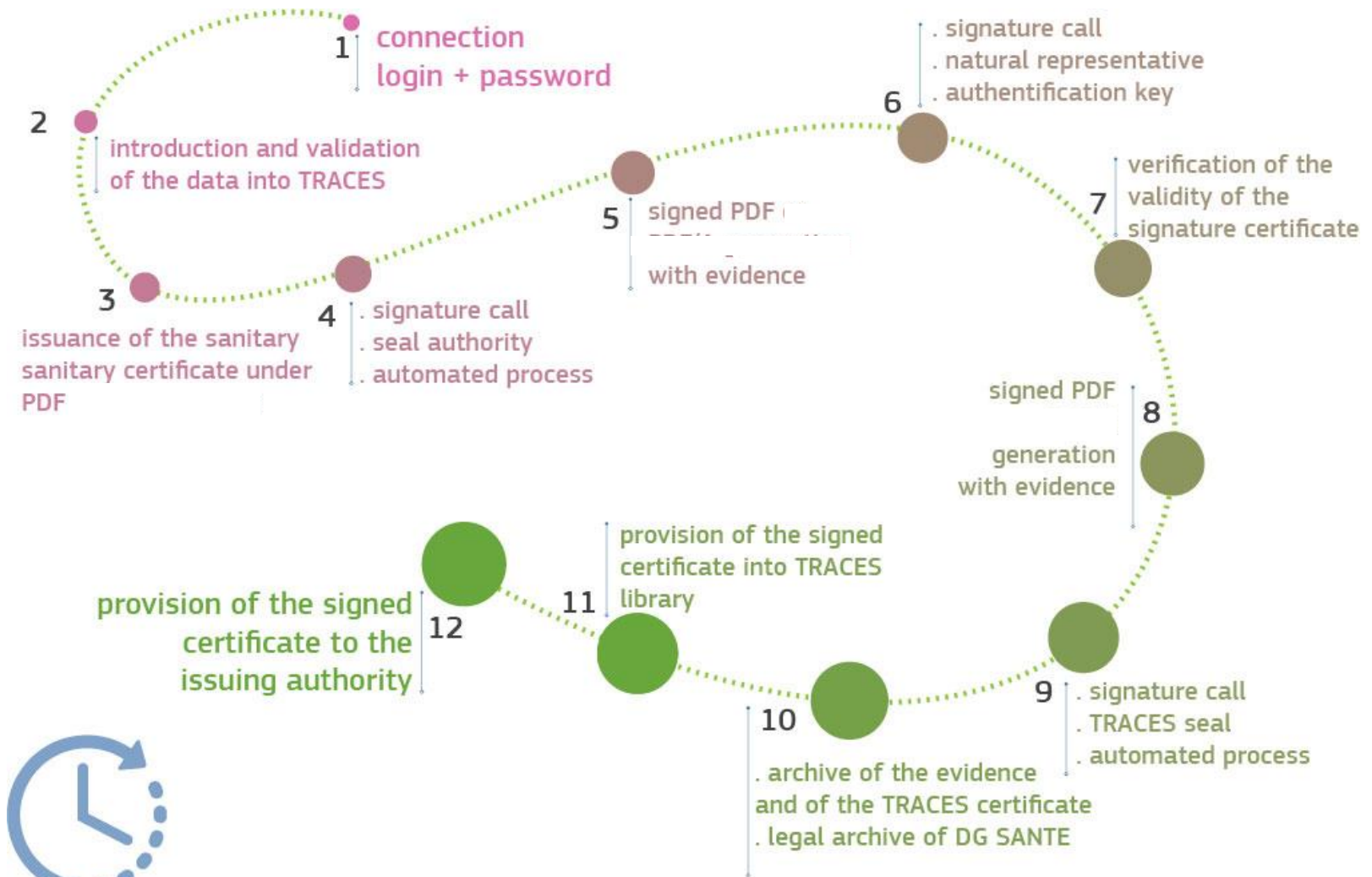- Verification of digital certificate's conformity

TRACES e-sanitary certificate : an easy and free offer

✓ **A common approach for different use-cases**

- Technologies and methodology adapted for each types of exchanges (EDI, PDF, uploading of signed PDF)
- A single interface : TRACES
- Limited interaction between MS or non EU countries & EC Trust Services Provider
- The possibility to use its own digital signature technologies
- A few simple but mandatory requirements

✓ **No charge for MS and non EU countries**

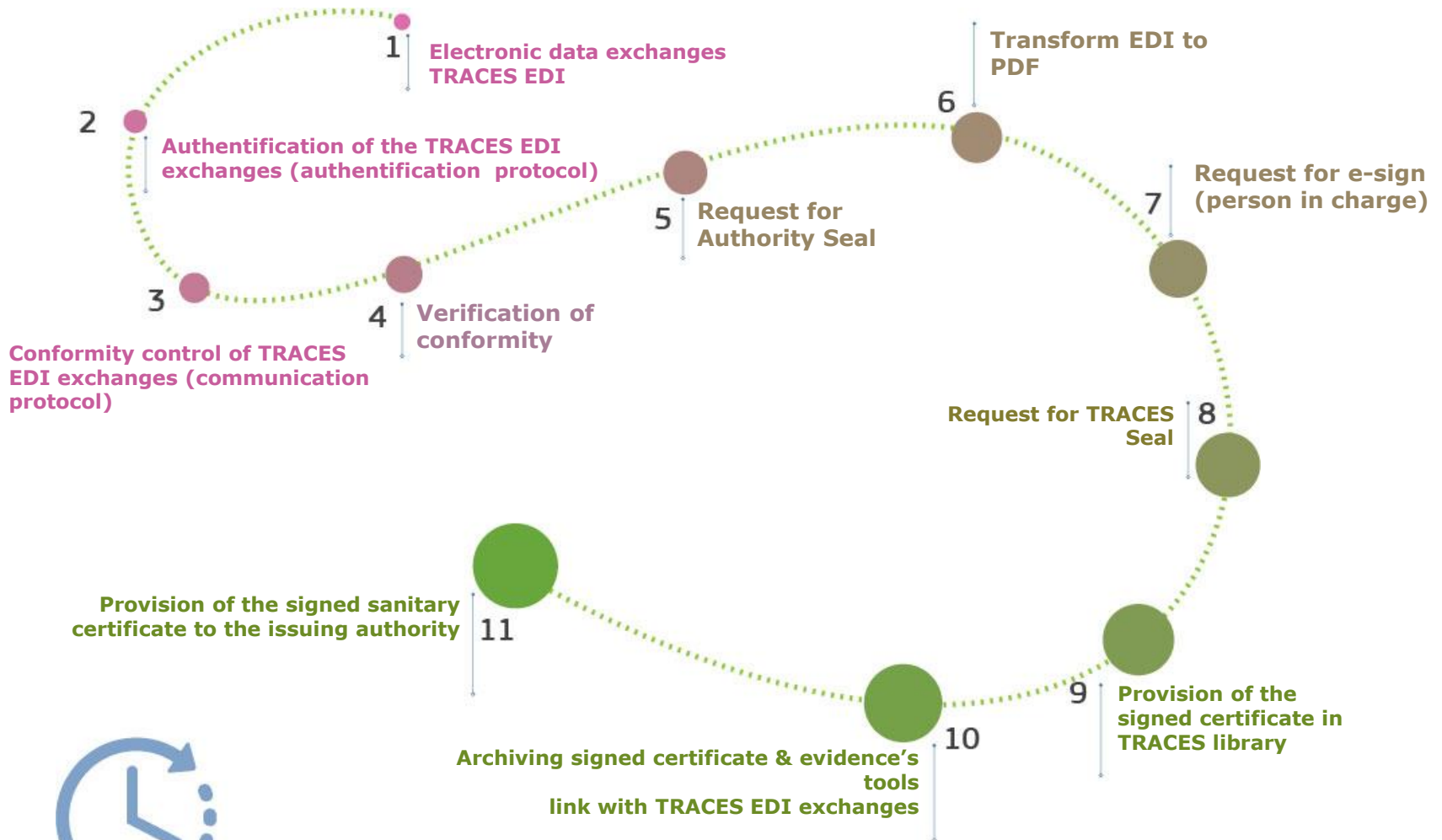- Digital signature technologies = free services – included in TRACES

Electronic signature service for PDF flow

Electronic signature service for EDI flow

1 — **Electronic data exchanges TRACES EDI**

2 — **Authentification of the TRACES EDI exchanges (authentification protocol)**

3 — **Conformity control of TRACES EDI exchanges (communication protocol)**

4 — **Verification of conformity**

5 — **Request for Authority Seal**

6 — **Transform EDI to PDF**

7 — **Request for e-sign (person in charge)**

8 — **Request for TRACES Seal**

9 — **Provision of the signed certificate in TRACES library**

10 — **Archiving signed certificate & evidence's tools link with TRACES EDI exchanges**

11 — **Provision of the signed sanitary certificate to the issuing authority**

PART. 2
PAPERLESS FOOD CHAIN CONTROL : BENEFITS

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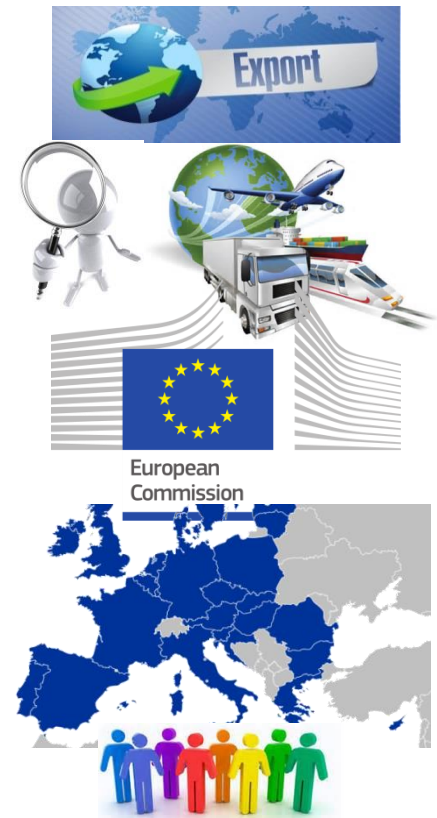
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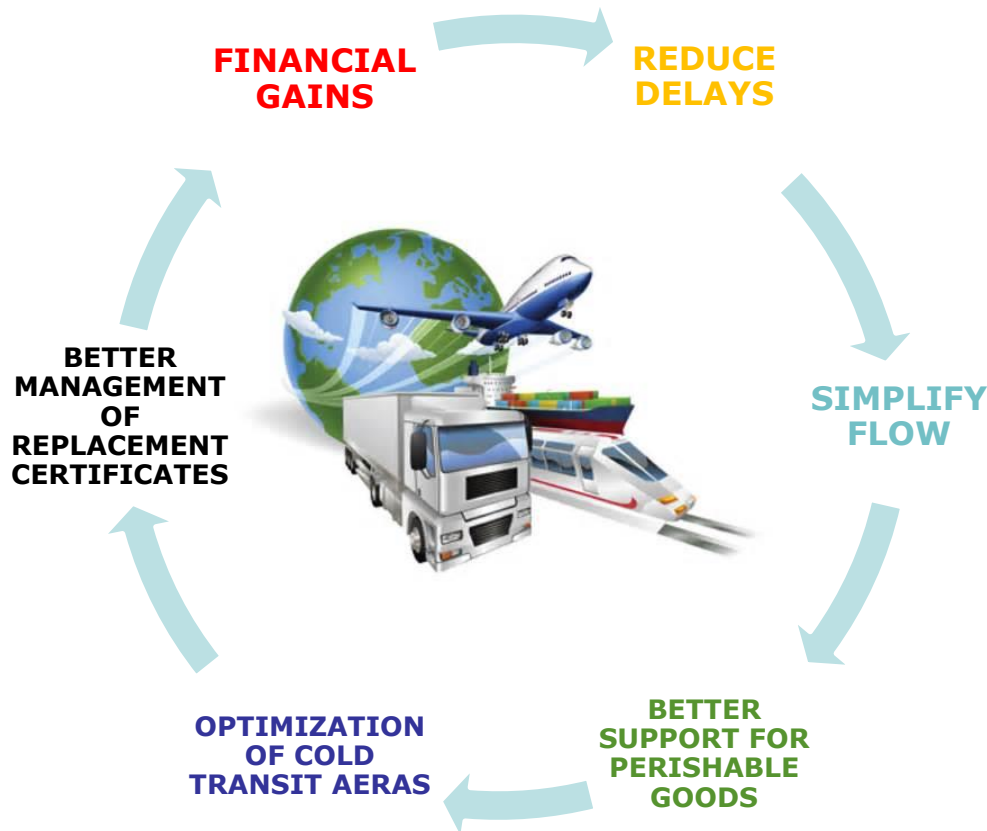
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Benefits of the paperless food chain

- ✓ **Optimize the management of the sanitary certificate**
    - ▪ Simplify trade - Reliable information at each stages of food chain - Reduce multiple copies & duplicates
- ✓ **Reduce processing times**
    - ▪ Pre-notification - Replacement - Anticipation of the receipt
- ✓ **Simplify & modernise the relations within EU MS and between EU MS and non EU countries**
    - ▪ An online certification single window
- ✓ **Ensure integrity, traceability and legal value of the digital documents**

- ✓ **Fight against fraud**

- ✓ **Reduce costs**

Benefits of the sanitary certificate's dematerialisation on fresh goods exported

FINANCIAL GAINS

REDUCE DELAYS

SIMPLIFY FLOW

BETTER SUPPORT FOR PERISHABLE GOODS

OPTIMIZATION OF COLD TRANSIT AERAS

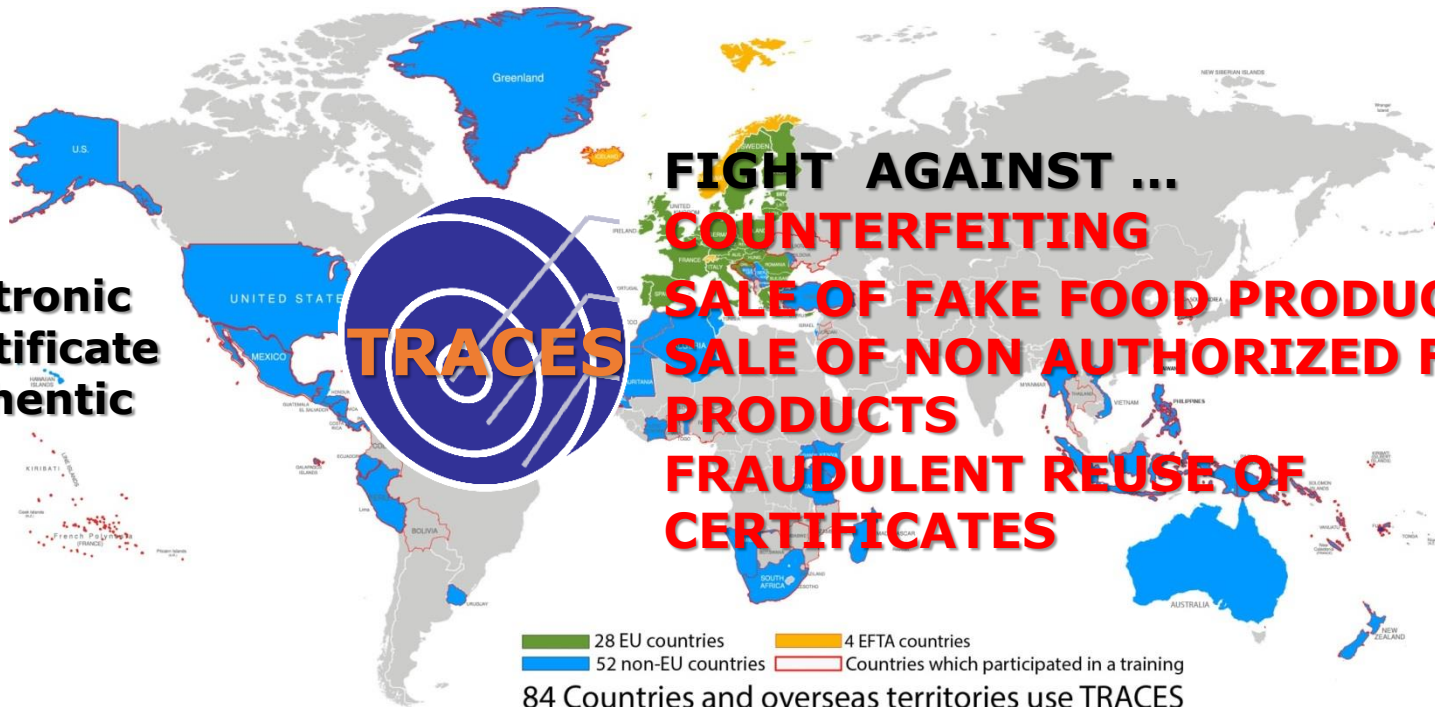**BETTER MANAGEMENT OF REPLACEMENT CERTIFICATES**

- **REDUCE DELAYS OF CONTROL 25-30% (ESTIMATION)**
- **SIMPLIFY FLOW**
- **MANY EXAMPLES OF VALUE OF PERISHABLE GOODS LOST**
- **COLD STORE AREAS = MAINTENANCE COST, FILL RATE, ETC.**
- **NUMBER REPLACED CERTIFICATES IN 2015 = 9,1K (OUT OF TOTAL 76K) I.E. AROUND 12% OF SANITARY CERTIFICATES COULD BE SUBJECT TO REPLACEMENT ⇒ SIGNIFICANT SAVINGS POTENTIAL WITH DIGITAL SIGNATURE**
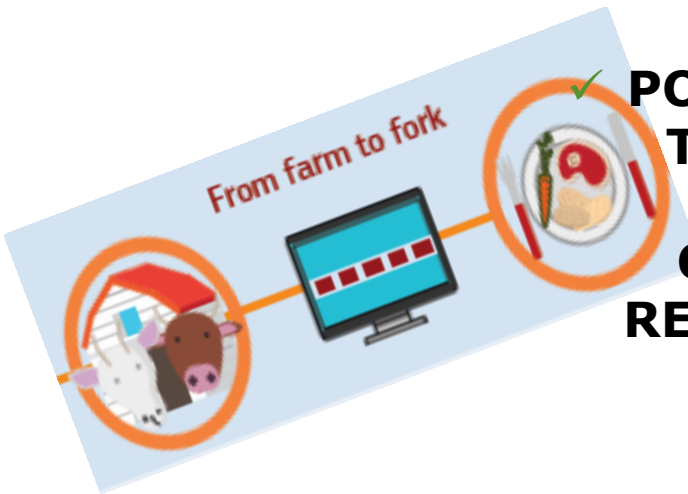- **FINANCIAL GAINS FOR ALL THE ACTORS OF FOOD CHAIN**

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Benefits of the sanitary certificate's dematerialization on fight against fraud

100% electronic sanitary certificate will be authentic

TRACES

FIGHT AGAINST ...
COUNTERFEITING
SALE OF FAKE FOOD PRODUCTS
SALE OF NON AUTHORIZED FOOD PRODUCTS
FRAUDULENT REUSE OF CERTIFICATES

28 EU countries   4 EFTA countries
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Benefits of the sanitary certificate's dematerialisation on risk management

✓ **POSSIBILITY TO TRACE BACK AND FORTH ALL THE MOVEMENTS OF ANIMALS, SEMEN AND EMBRYO, FOOD, FEED AND PLANTS CONTRIBUTES TO THE REDUCTION OF THE RESPONSE TO ANY SANITARY ALERT, FOR THE BETTER PROTECTION OF CONSUMERS, LIVESTOCK AND PLANTS**

✓ **REACTING RAPIDLY TO HEALTH THREATS BY TRACING THE MOVEMENTS OF CONSIGNMENTS AND FACILITATING THE RISK MANAGEMENT OF REJECTED CONSIGNMENTS**

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CONCLUSIONS

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✓ **The paperless food chain control :**

- ▪ aims to strengthen cooperation with EU partners (between the competent authorities but also the traders and their competent authorities)
- ▪ contributes to the enhancement of trust
- ▪ accelerate administrative procedures reducing delays
- ▪ facilitate trade and reduce the cost
- ▪ improve risk management of health threats, while combating fraud and enhancing the safety of the food chain
- ▪ contributes to protect consumers

Thank you for your attention

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