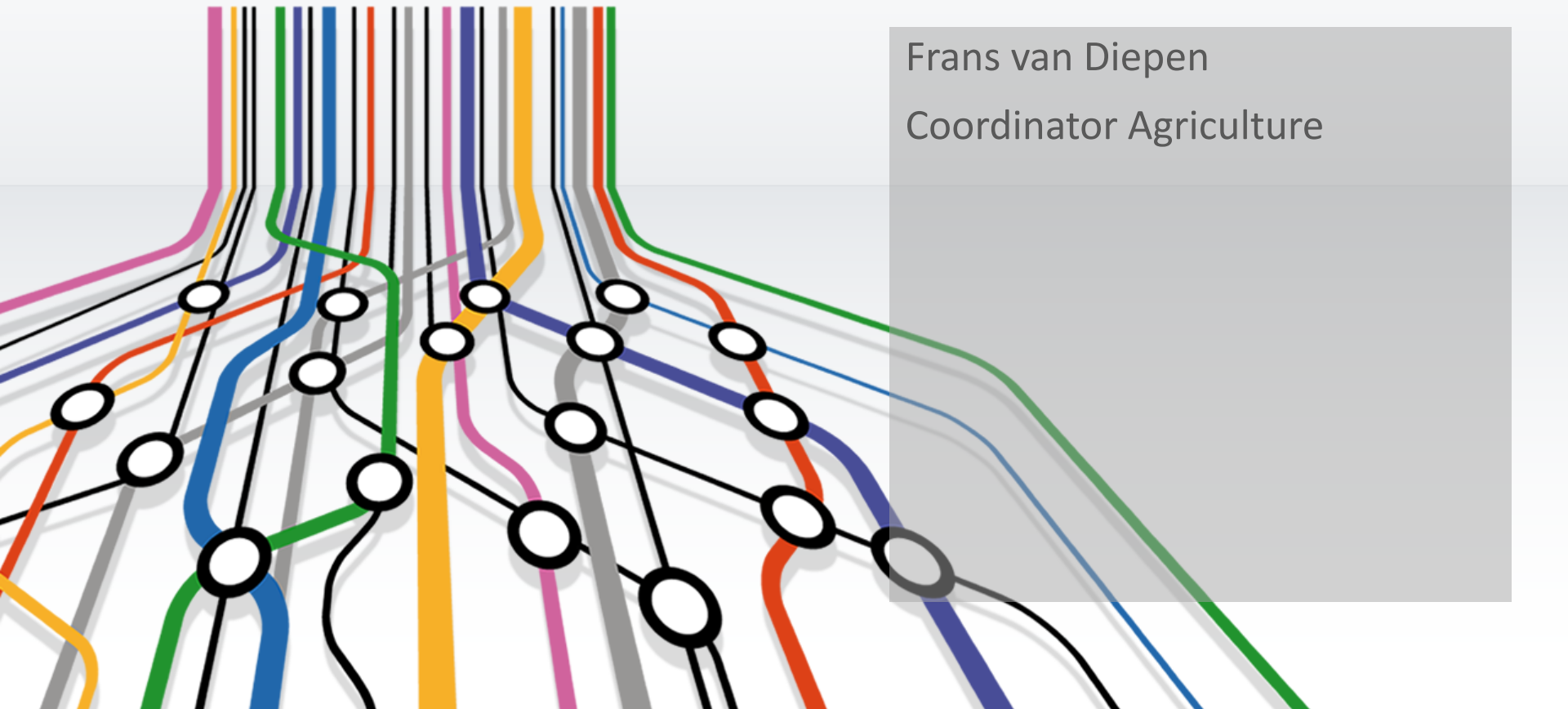


TRADE FACILITATION IMPLEMENTATION

A barcode graphic consisting of vertical black bars of varying widths, positioned between the words 'TRADE' and 'FACILITATION'.

UN/CEFACT ASSETS AND
GUIDELINE FOR AGRICULTURE

Frans van Diepen
Coordinator Agriculture



Content

- UN/CEFACT introduction
- The agro food production and the supply chain
- The UNCEFACT standards and recommendations in agriculture
- Developments

What is UN/CEFACT

- UN/CEFACT = United Nations Centre for Trade Facilitation and Electronic Business
- Objectives
 - Simple, transparent and effective processes for global business
 - Efficient and automated exchange of information
- Outputs
 - Global Trade Facilitation and Electronic Business Recommendations and Standards
- Means
 - Public Private Sector Partnership – over 300 experts from government and business
 - Meet virtually every week plus two Forums per year

UN/CEFACT Mission

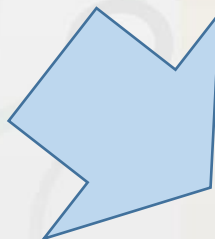
- UN/CEFACT's mission is to improve the ability of business, trade and administrative organizations, from developed, developing and transitional economies, to exchange products and relevant services effectively.
- Its principal focus is on facilitating national and international transactions, through the simplification and harmonization of processes, procedures and information flows, and so contribute to the growth of global commerce

UN/CEFACT Objective and product

- Facilitate e-commerce and e-trade
- In cooperation with other bodies such as WCO, FAO, IMO , CITES, OASIS, W3C, GS1
- Recommendations
- Semantics (Core Component Library)
- Syntax (UN/EDIFACT and XML schemas)

Developments in agro food

- Sustainability
- Food safety
- Market access



- Traceability
- Transparency

Traceability and Transparency

- Party

- Identification
- Information

- Product

- Identification
- Description
- Process
- Location
- Date/time

- Who
- What
- Why
- Where
- When

Developments in the agri food domain

- Standard messages :
 - e-CERT phyto and veterinarian sanitary certificate
 - e-Daplos, **e-CROP**, agro product information message
 - Animal identification and e-Animal passport
 - Dispatch advice (batch number, identification)
 - e-LAB laboratory observations report
 - FLUX Fishing monitoring and reporting
 - Track and Trace Animals (**and Plant and Product**)
 - RASFF rapid alerts for food and feed
- Coding
 - Product (EPC, Codex Alimentarius)
 - Location and Party identification (GLN, Blue number,)
- Certification
 - Authority, NGO, Private business (GlobalGap, Organic , Sustainable, CITES, Standard Maps ITC ...)
- Integration of domains
 - e-Invoicing (in fish, cutflowers, fresh fruits and vegetables)
 - Transport and location (GN codes – GS1)
 - CITES e-permits
 - WCO datamodel III and IV
 - Production, Trade and Retail

G2G

B2B

G2G

B2B

B2B, B2G, G2G

G2G

B2B, B2G, G2G

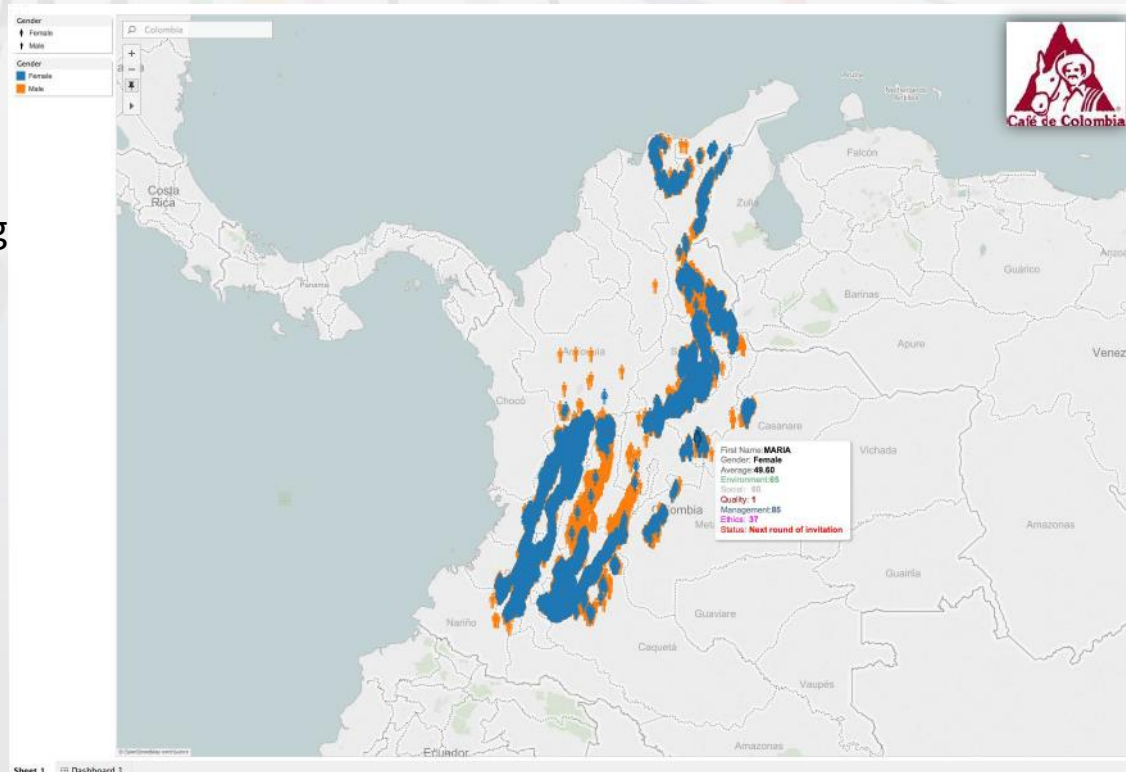
G2G (B2G and B2B for the next version)

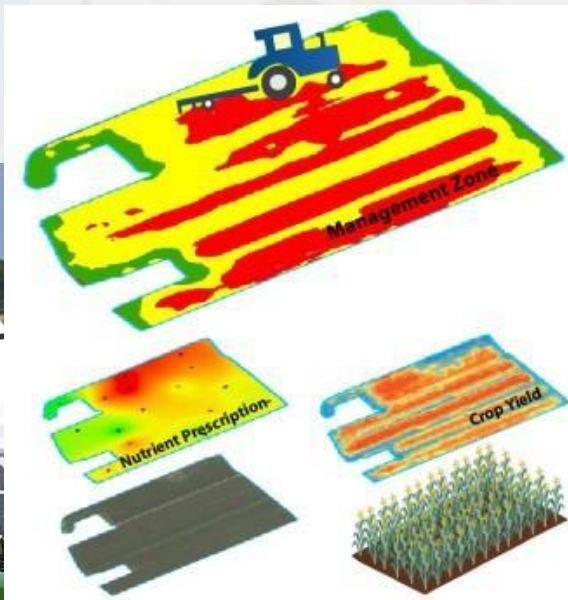
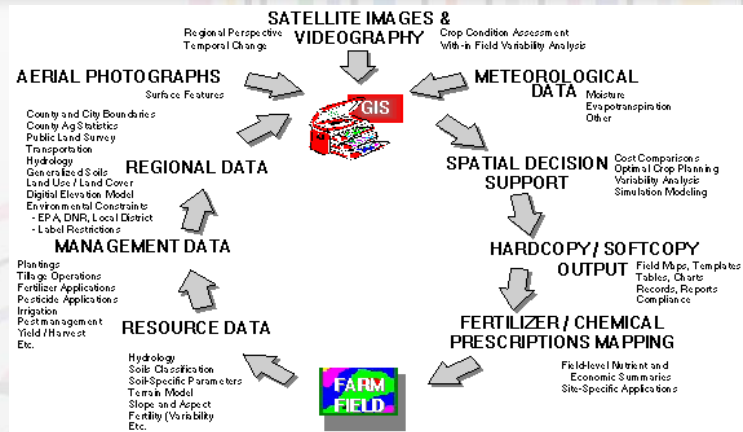
farmer and farm identification

Sustainable Network and GLN

(Point) Identifier + coordinate

- Geographical features
farm, field, farm yard, building
- Agriculture organisation
farmer, cooperative





Example for a field B2B and B2G

Identification

Accuracy

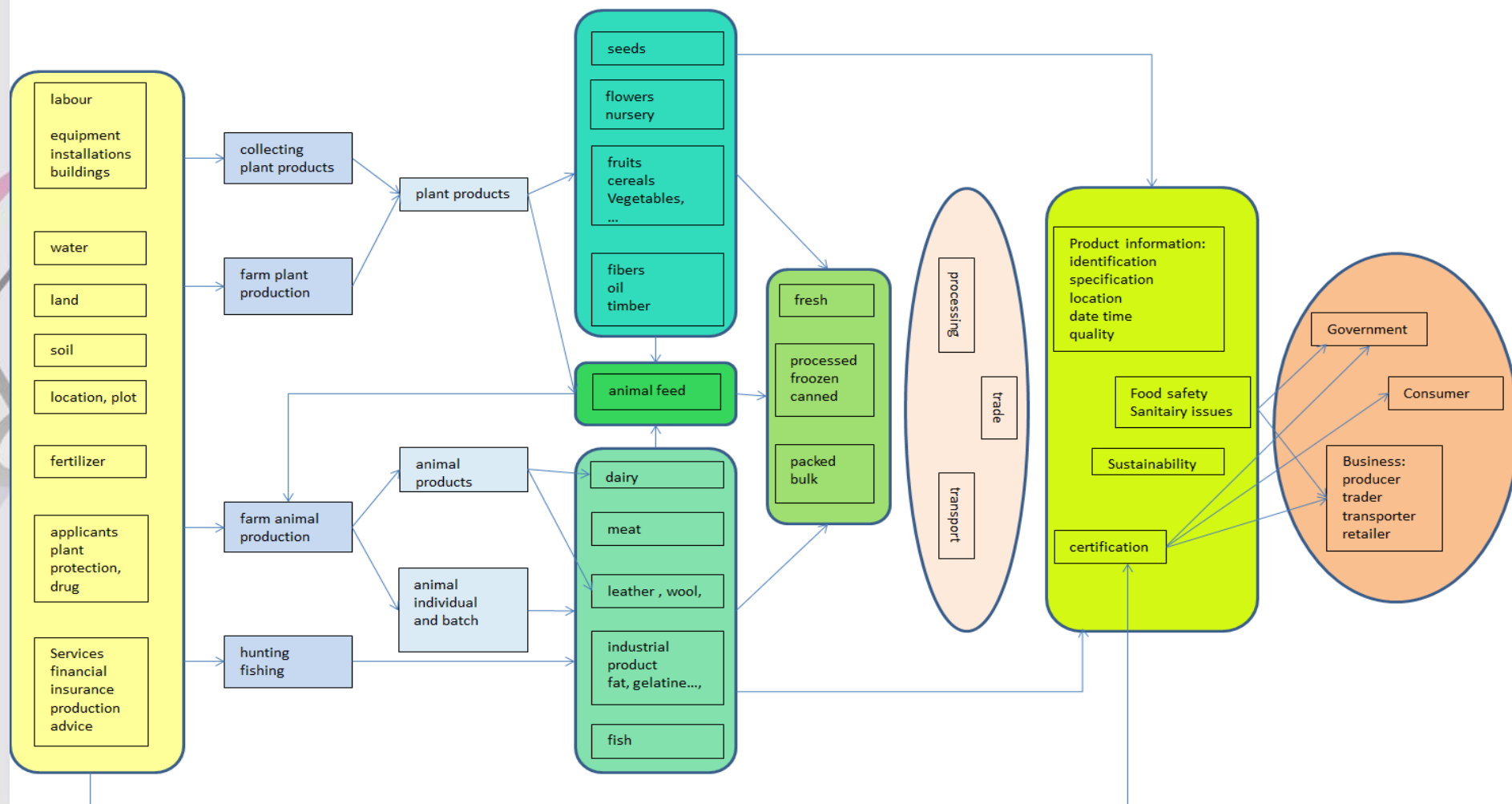


The agri food domain

input

output

party

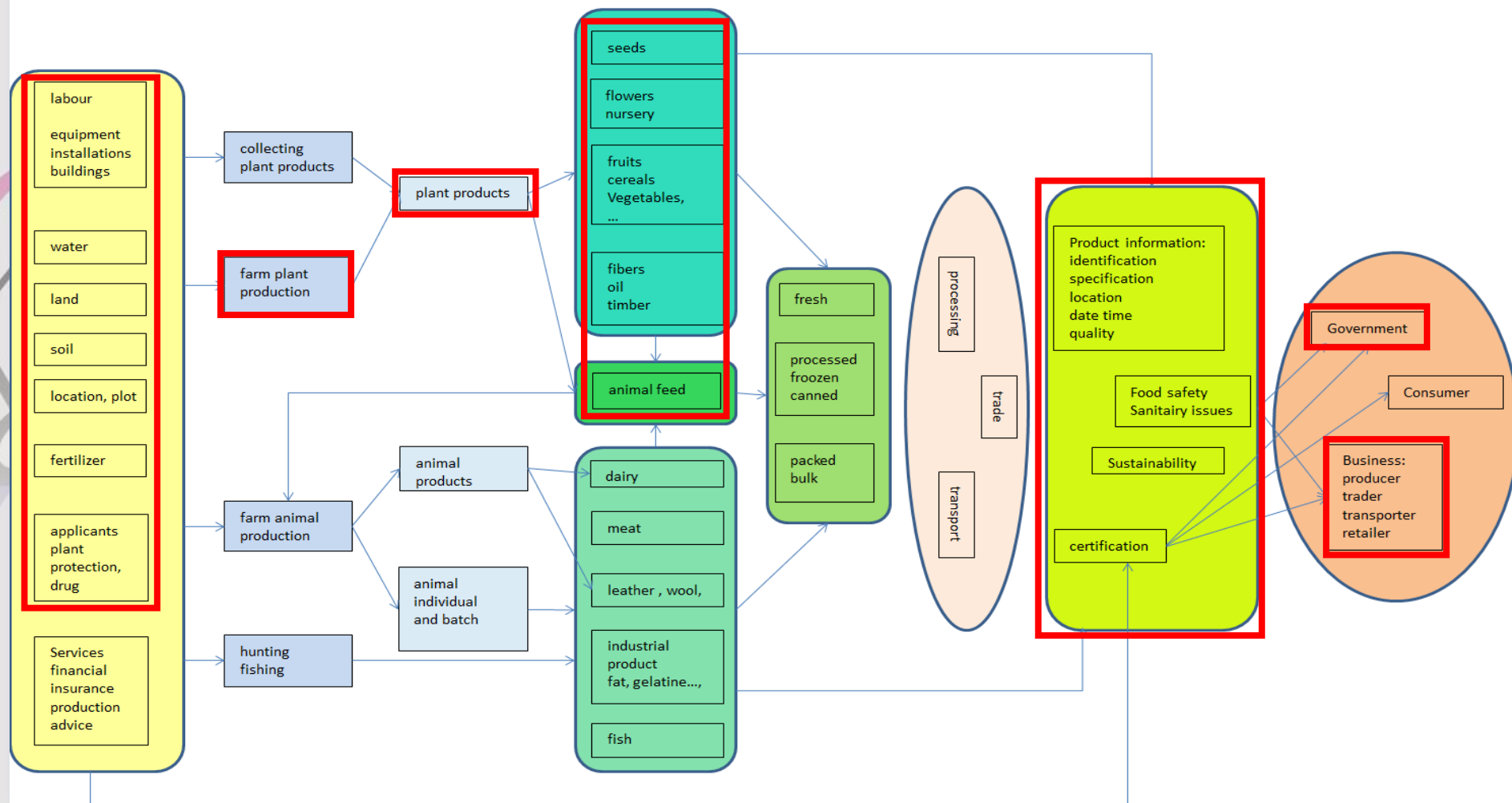


The e-CROP domain

input

output

party



**PRODUCT
FLOW**



GROWER

PRODUCE
ORGANISATION/
AUCTION

WHOLESALER/
EXPORTER

WHOLESALER/
IMPORTER

RETAILER

**ORDER
FLOW**

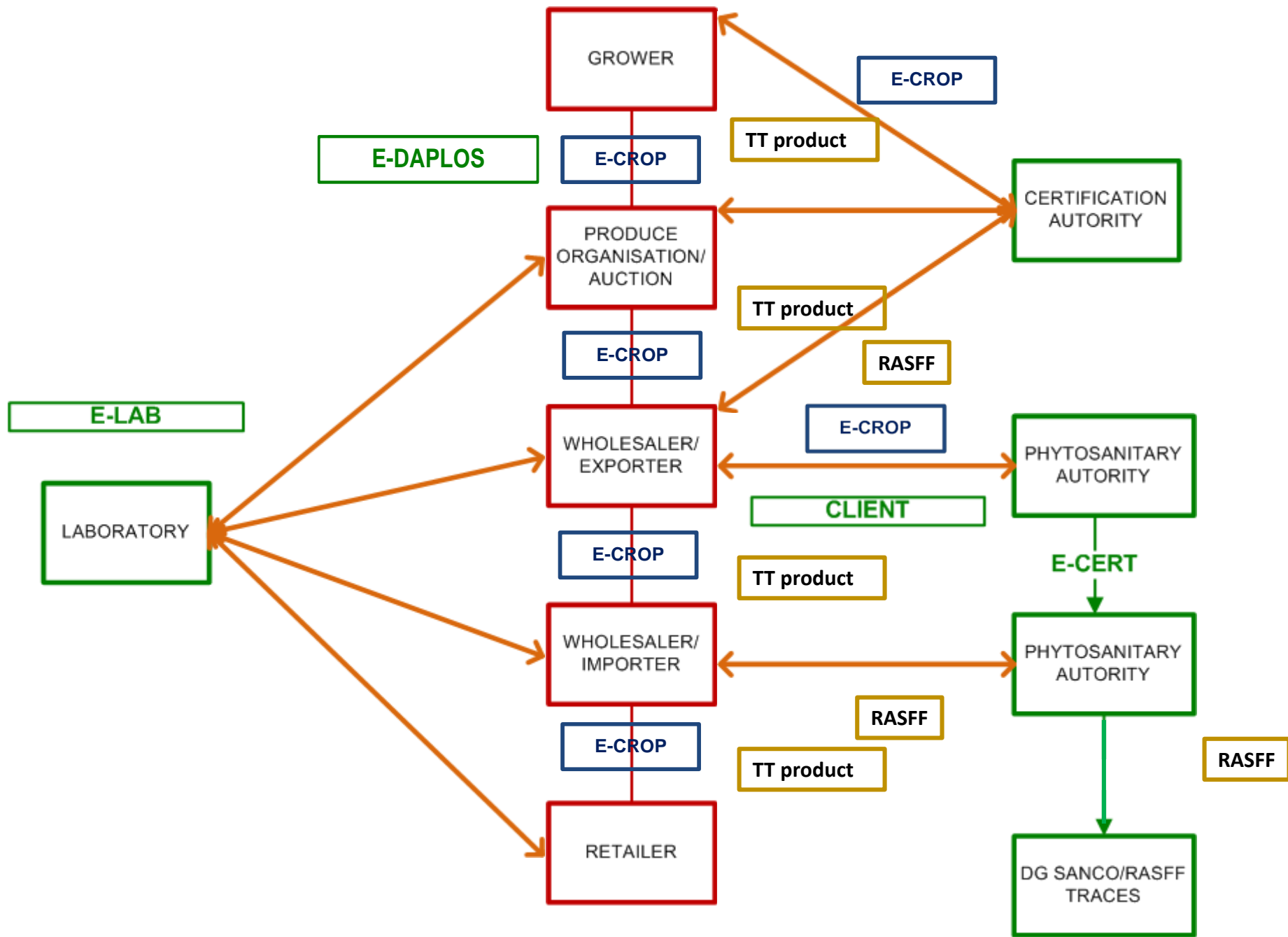


OFFER
ORDER
ORDERRESPONSE
DELIVERY
INVOICE

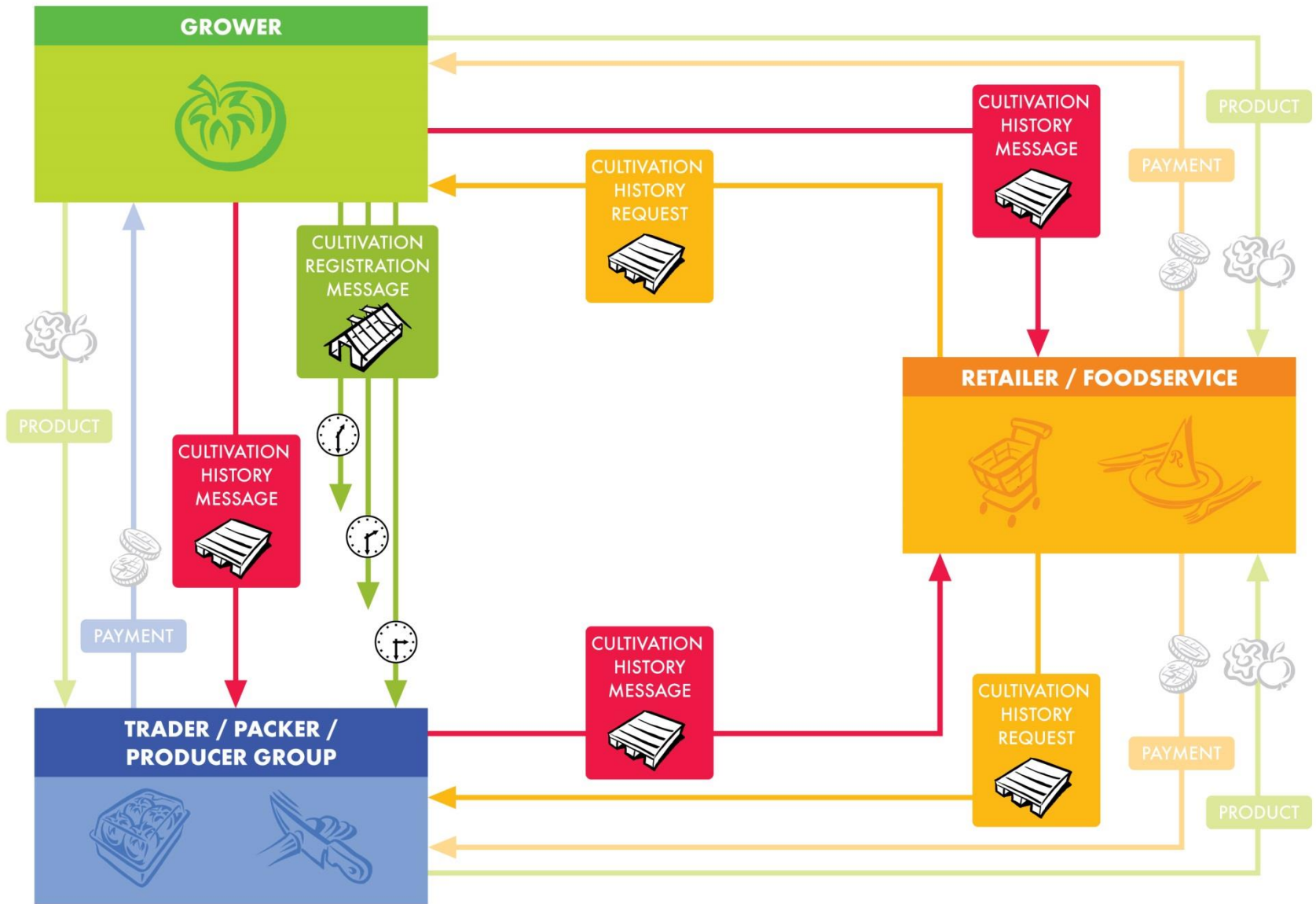


Product Flow

Exchange of
Information



CTM - MESSAGE FLOW SCHEME

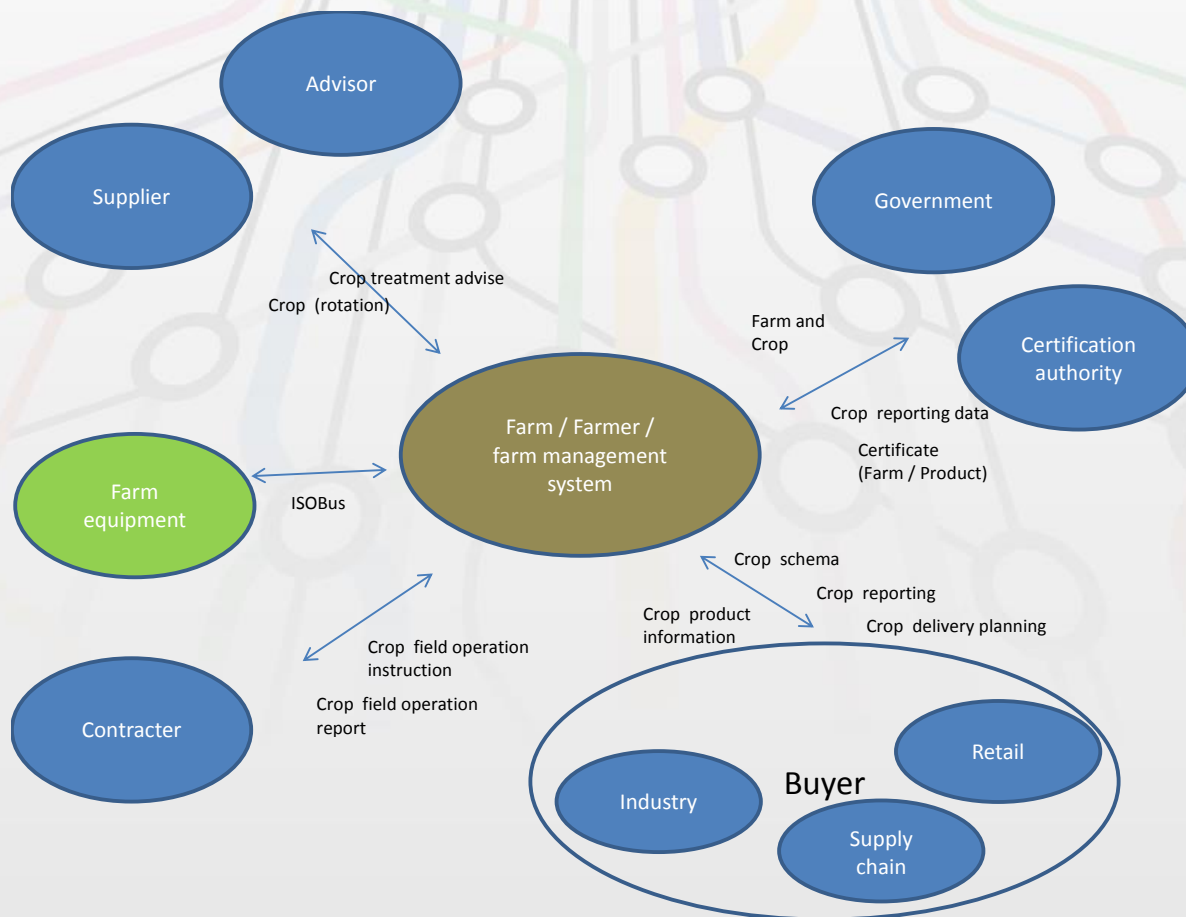


Location / Crop - Related info - Pre-harvest



Party / product - Related info - Post-harvest

E-CROP scope



e Crop → food supply chain

Parties:

- grower,
- advisor, contractor, supplier
- trader, processor, retailer
- consumer

Use cases:

- advising
- farm operations:
 - planning and instruction
 - operation
 - monitoring
- product information
- certification
- regulations

e-CROP

Use cases

- Advising
- farm operations:
planning, instruction,
operation and monitoring
- product information
- certification
- regulations

Messages

- Advice support
- Cropping scheme
- Farm operations
- Crop report

Content

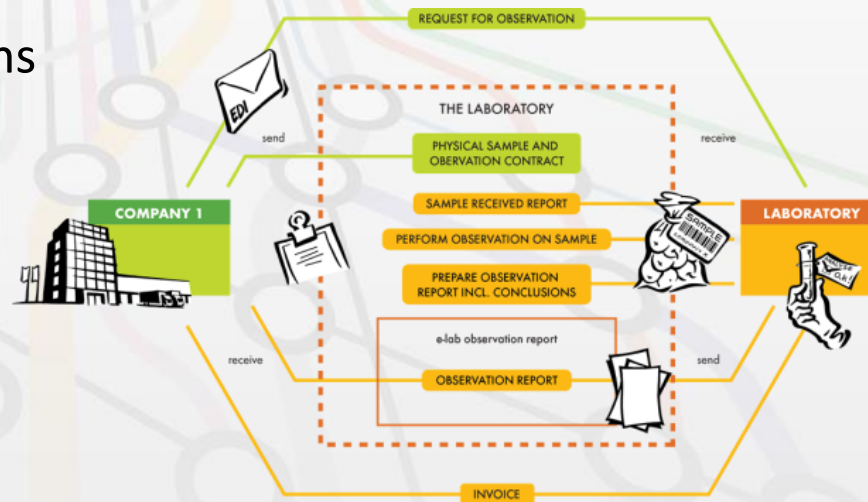
- Crop specifications
Start date, harvest date,
variety, production location
- Data about treatments
Fertilizers
Pesticides
Use of energy and water
- Data about labor
- Certificates (Global GAP, SPS E-Cert, ...)

E-LAB: 3 messages

- Request for laboratory observations
- Report laboratory observations
- Acknowledge emssage

Practised for

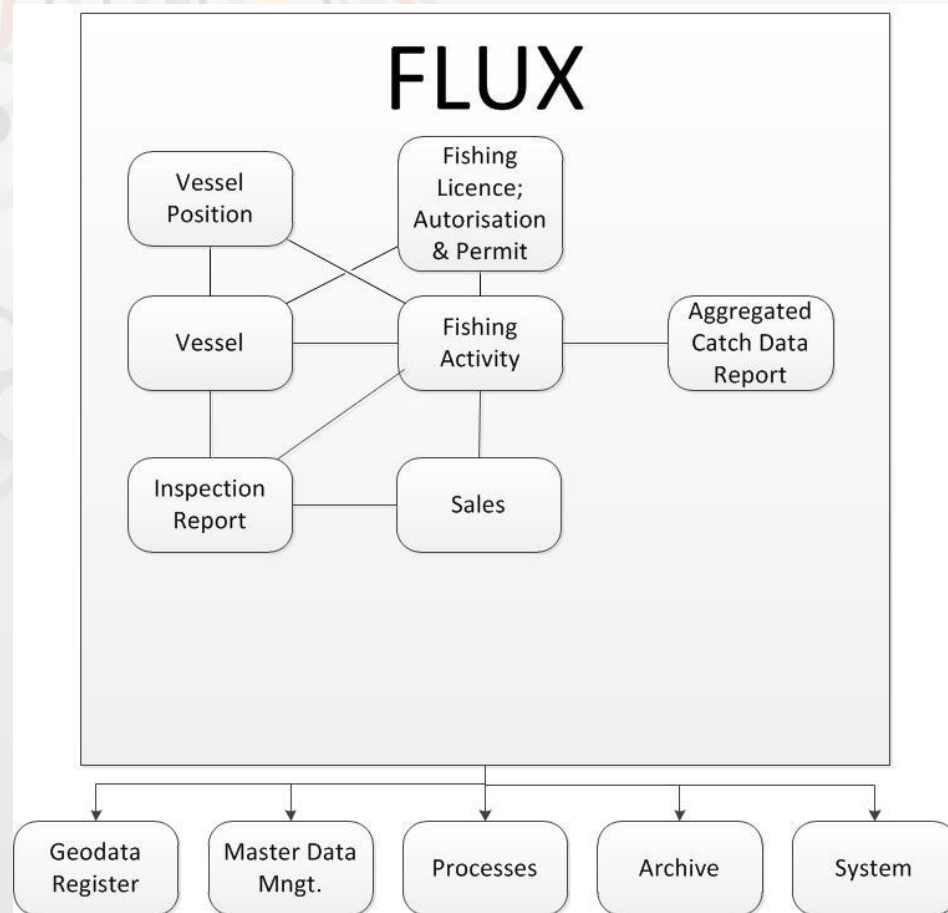
- Residues on fruit and vegetables
- Mineral (fertiliser) management
- Soil sample observation results
- Dairy farming
- Animal health, animal products



FLUX (Fishing Language universal Exchange)

Data requests from:

- Coastal states
- Flag States
- (Regional) Fisheries management organisations
- NGO
- FAO
- Scientific bodies



Track and Trace

Live animal, Fish, Animal product
Plant and Plant product

- Event driven

Event: modification of location, product, process
transport or party

- Recording of events

- Retrieving information about events.

- Based on

- Who, What, Why, Where, When

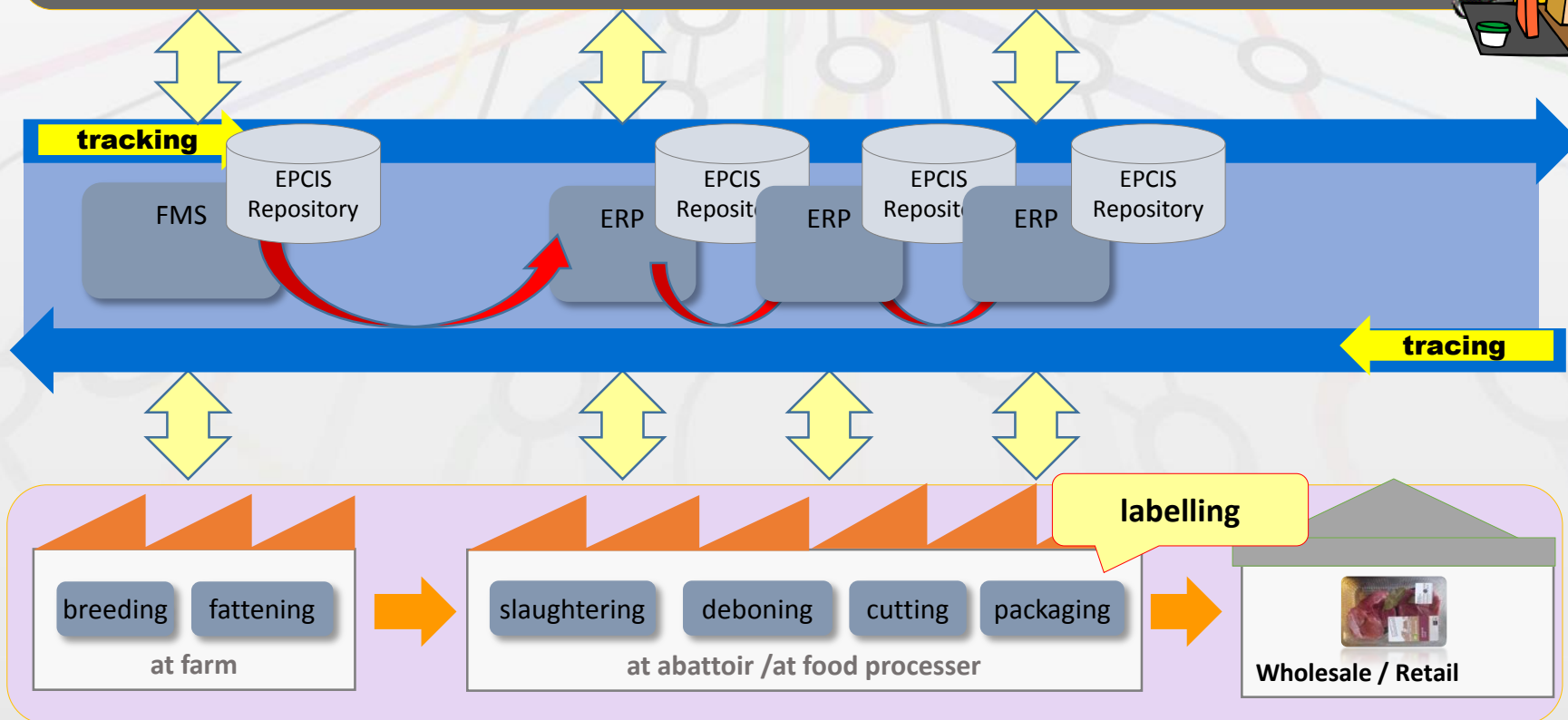
- generic level ISO / IEC 19987 (EPCIS)

- detailed level for animal, plant and product details

Track and Trace processes

- Event declaration
- Retrieve event information

Services: discovery / search / smartphone apps



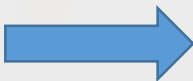
e-CERT

Electronic certificates

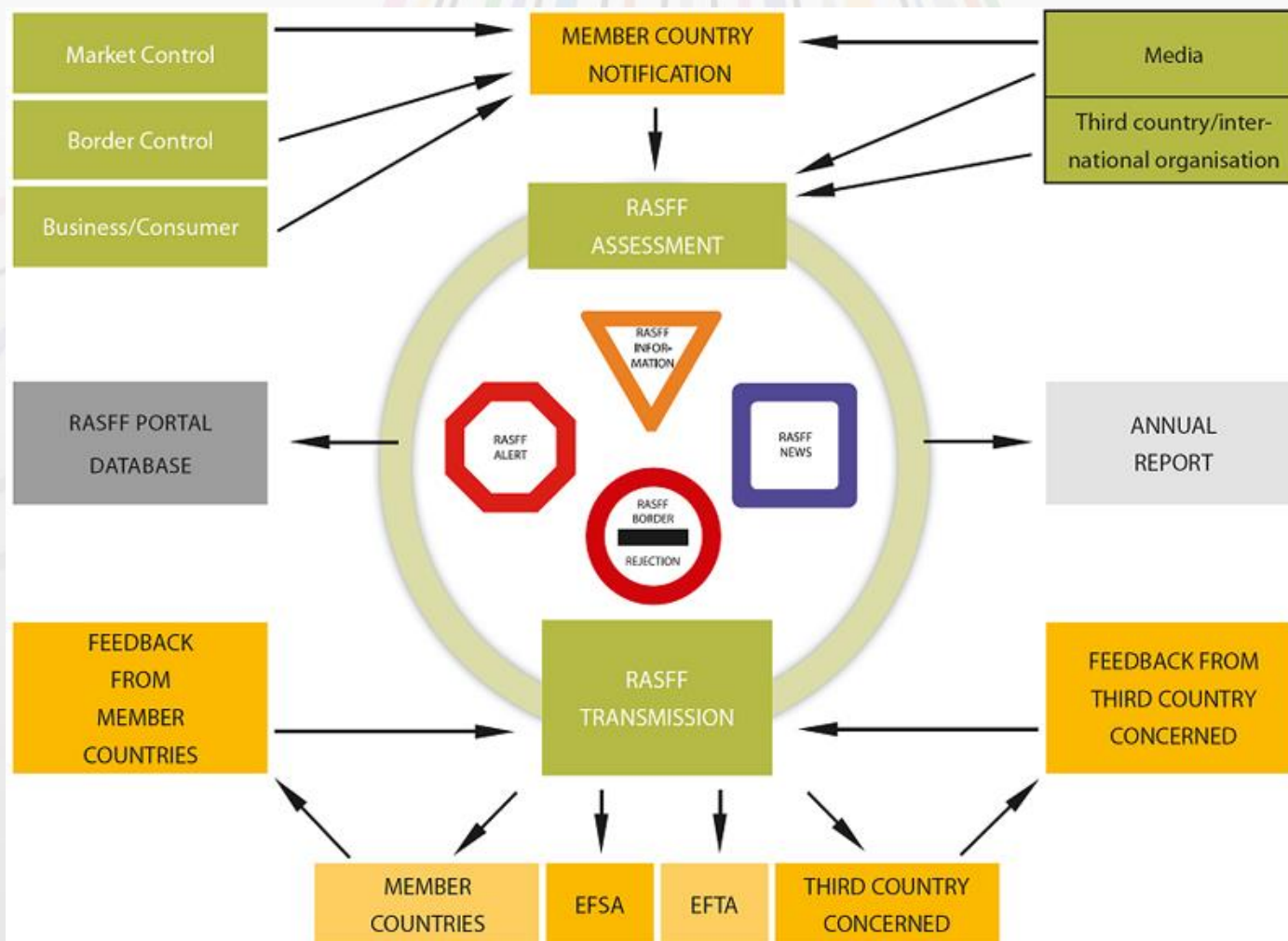
- SPS certificate
animal, animal product and plant product
sanitary certificate
G2G import - export
memberstate authority and EU TRACES system
- Other certificates (CITES, private standards)

RASFF

Rapid Alert System for Food and Feed Safety

- System: composed of network (people) and IS (IT Tool)
 - Participants
 - Food & Feed authorities
 - Central Authorities
 - Exchange on
 - Incidents and cases
 - Controls
 - Measures taken
- 
- Notification
 - Assessment
 - Transmission

The RASFF system implemented in the EU



Status UNCEFACT messages

- In production
 - SPS e-CERT
 - e-DAPLOS
 - e-LAB
 - FLUX
 - TT events and TT animals
 - RASFF
- Under development
 - e-CROP (2017)
 - TT plant, plant product, animal product (2017)
 - RASFF 2

Documentation

- Business Requirement Specification
- Requirement Specification Mapping



- Core Component Library
- XML schema
- Implementation guideline



- Implementation

UN/CEFACT

**SIMPLE, TRANSPARENT AND
EFFECTIVE PROCESSES
FOR GLOBAL BUSINESS**