

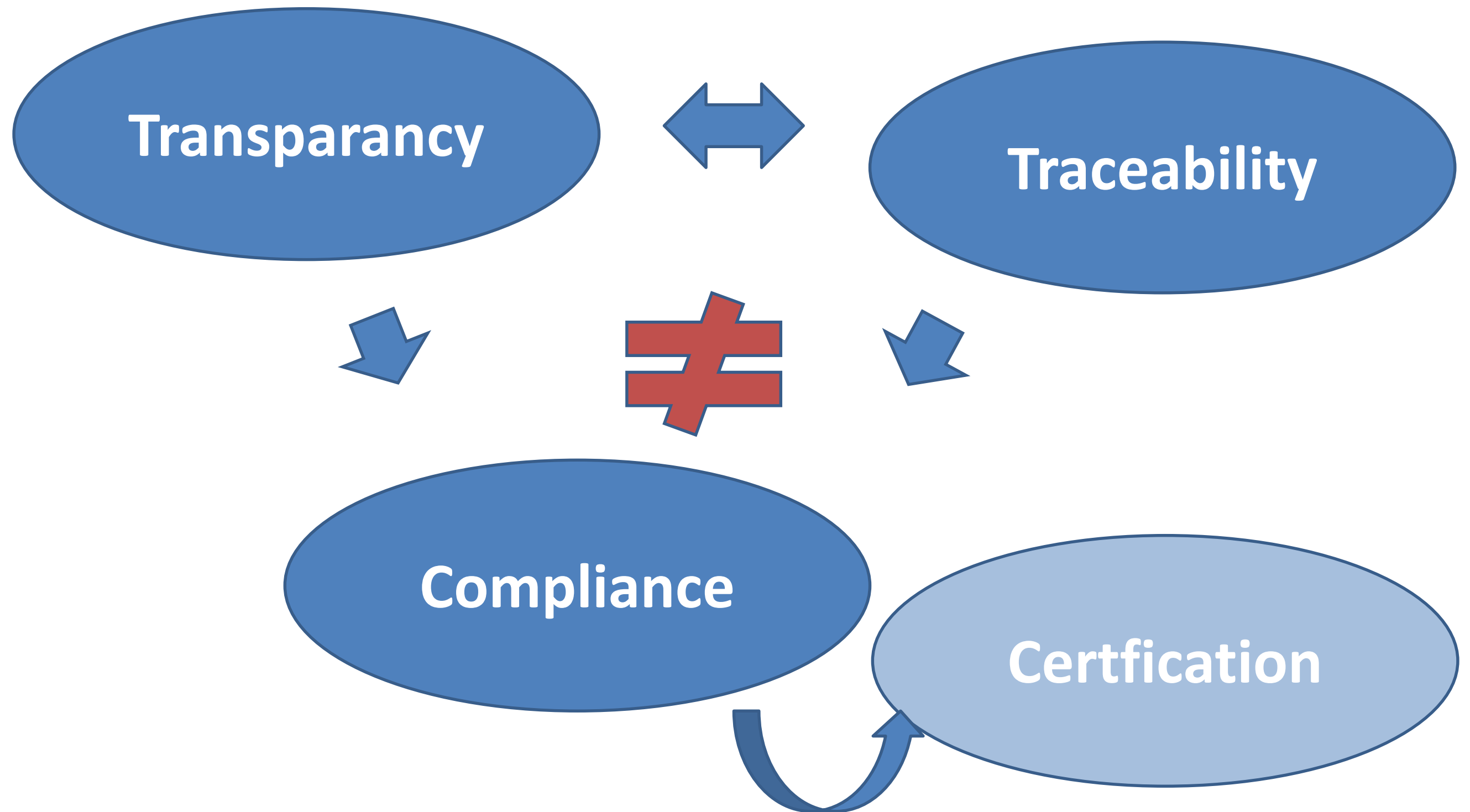
**Traceability systems for sustainable
trade in textile:**

**what is it and what are its key
elements?**

Frans van Diepen

3 aspects to prove the sustainability

- Transparency
 - Privacy
 - Competition
 - Sensitive data
 - Open data / shared data
- Traceability
 - Tracking boxes (transport , logistics)
 - Recording events
 - Retreiving information
 - Product and proces specifications / documentation
- Compliance
 - Industry / retail demands
 - Regulations
 - Certification



Agri food

- Food safety
 - Animal and plant health (sanitary issues)
 - Legal requirements
-
- Business requirements
 - Private certification labels

Characteristics of agri food

- Complex supply chain
 - Many small producers, traders and processors
 - Bulk products.
 - m:n relations between products and also between parties
 - The suppliers are unknown for the processor or trader
-
- Most T&T are private implementations

Traceability information entities

- Identification
 - Product
 - Party
 - Location
- Events
 - What, when, why, where, who
- Registration
- Sharing data (ownership, access rights)

Business agreements and regulations

General Food Law :

- Requirements: Each producer reports in 24 h about his supplier en buyer.
- Nothing about the how to report
- Business agreements are much more demanding then regulations.

Results in

- Each big retailer has his own solution for track and trace / product information / product quality
- No standard implementations
- No use of standards
- Poor interoperability
- Closed system no data sharing...

Regulation for food labeling (EU 1169)

- Online shops should provide all product information about ingredients.
- Enforced a big update of product identification and product information.

From retailer > supplier > packer / processor

Framework for sustainable trade

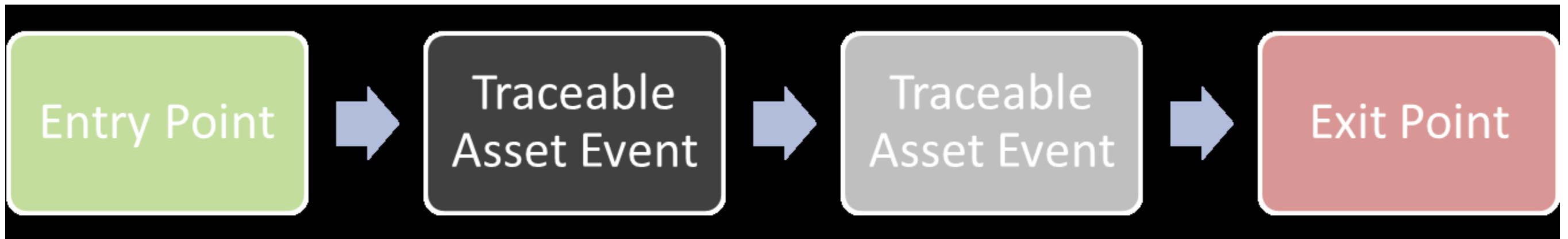
UNECE

Traceability for Sustainable Trade A Framework to design Traceability Systems for Cross Border Trade



UNITED NATIONS

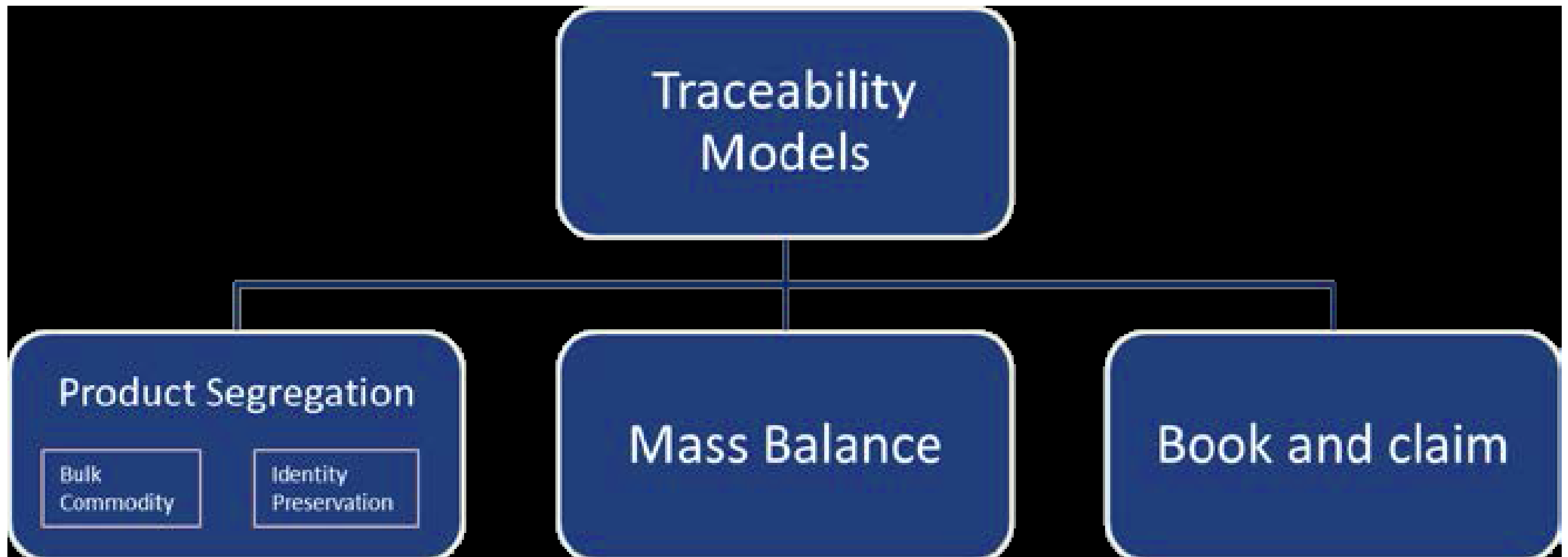
Traceability chain



- Only a section of the supply chain
- Or covering the full supply chain

What is the starting point and the end point?

Traceability models



Product segregation

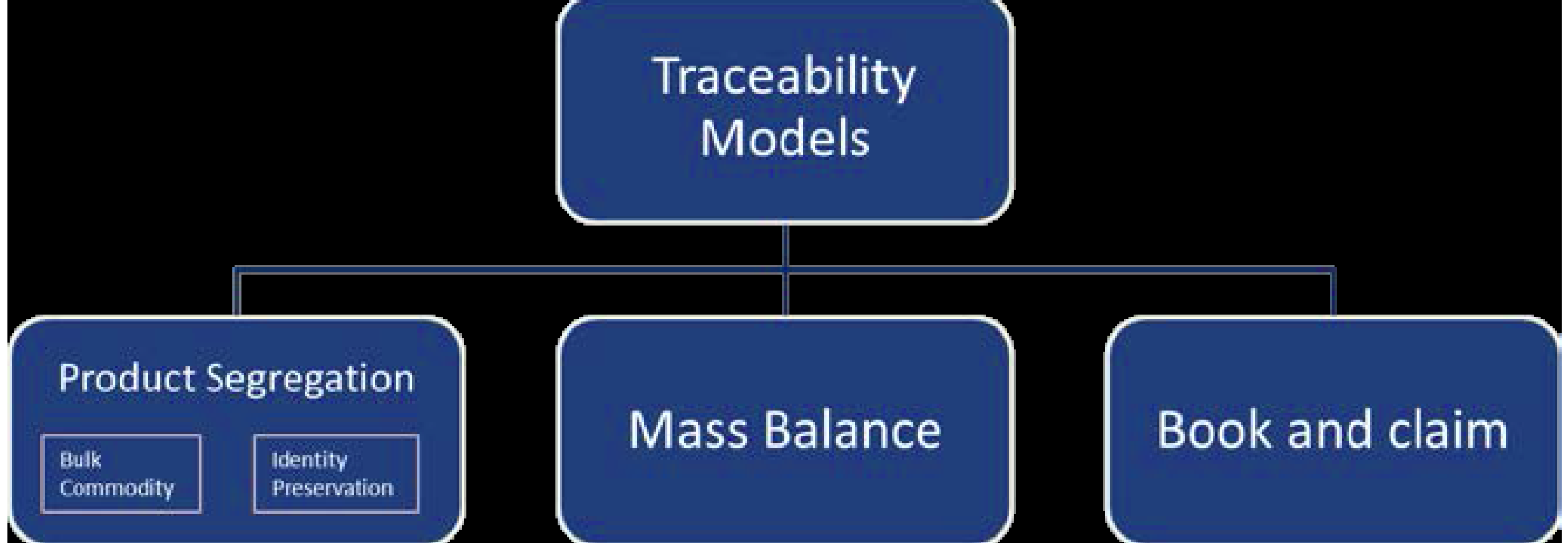
- Bulk commodity
 - Mixing of certified material
 - From different producers
 - Fresh fruits and vegetables (mixed salad)
- Identity preservation
 - Segregation of certified and non certified product throughout the supply chain
 - Traceability from grower to retailer
 - Fair trade bananas

Mass balance

- Policy claim disassociated from physically traced assets
- Refers to accumulated assets
- Individual assets cannot be traced
- Aggregated quantity can have well-defined state
- Cotton sugar, cocoa, tea

Book and claim

- Free flow of certified and non certified assets
- No segregation of assets
- Companies obtain certificates
- Green electricity, carbon emission, soy, palm oil



Advanced ICT

Including all farmers and SME

Used in high risk product
And in delicate product,
such as fresh food

Less advanced ICT required

Based on set of rules

Audits of stakeholders required

USAGE of the Sustainability map and network ?



SUSTAINABILITY MAP

YOUR ROADMAP TO SUSTAINABLE CONSUMPTION, PRODUCTION AND TRADE



Standards

Network

Trends beta

Community

About

EN



Access the global sustainability network and get connected with 871 companies

Join the network

Connecting businesses along sustainable value chains



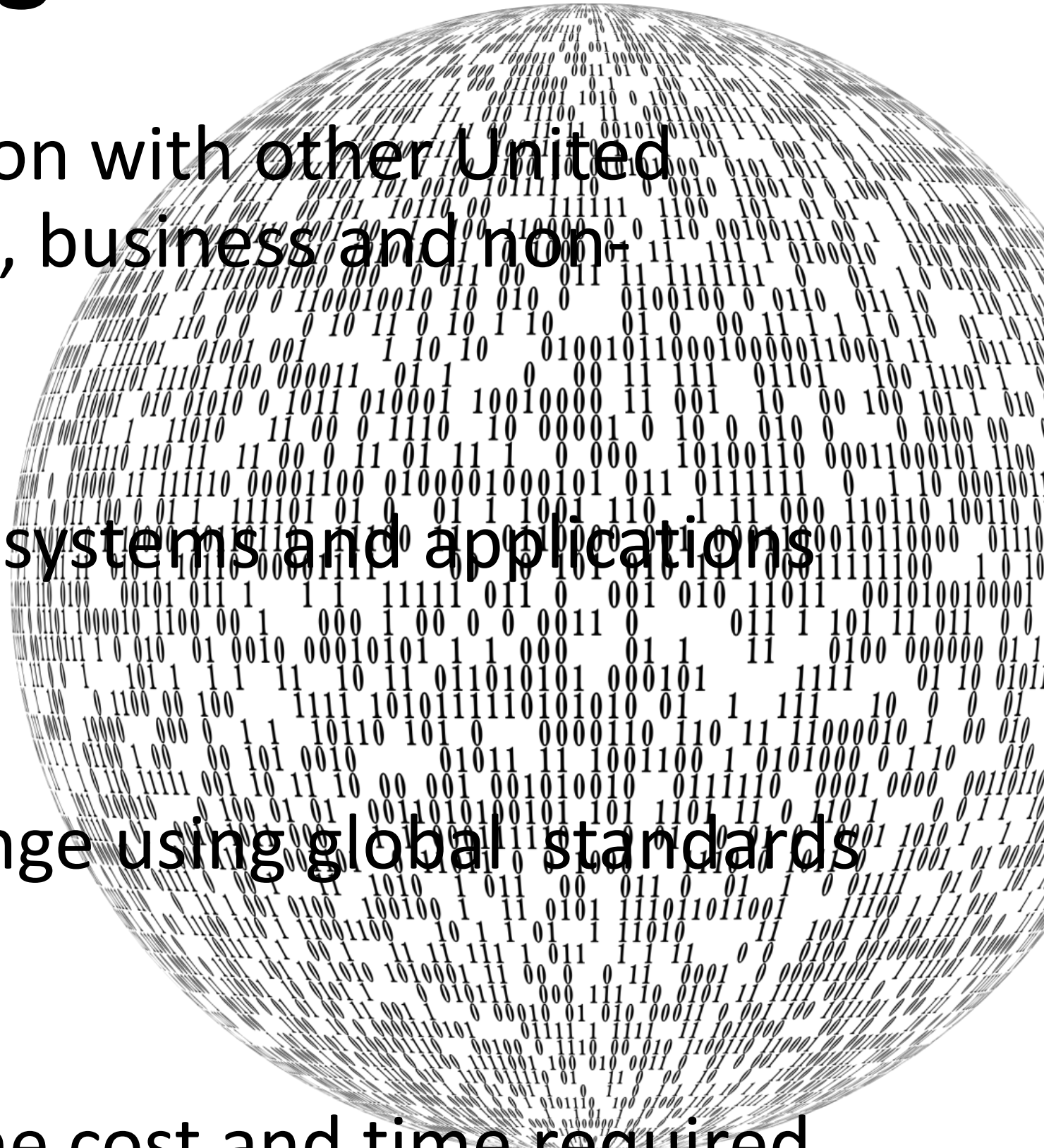
UN/CEFACT standards for electronic information exchange

Developed in close cooperation with other United Nations bodies, governments, business and non-governmental organizations.

Use of these standards make systems and applications worldwide interoperable.

Electronic information exchange using global standards is more reliable.

Paperless trade will reduce the cost and time required for trade formalities.



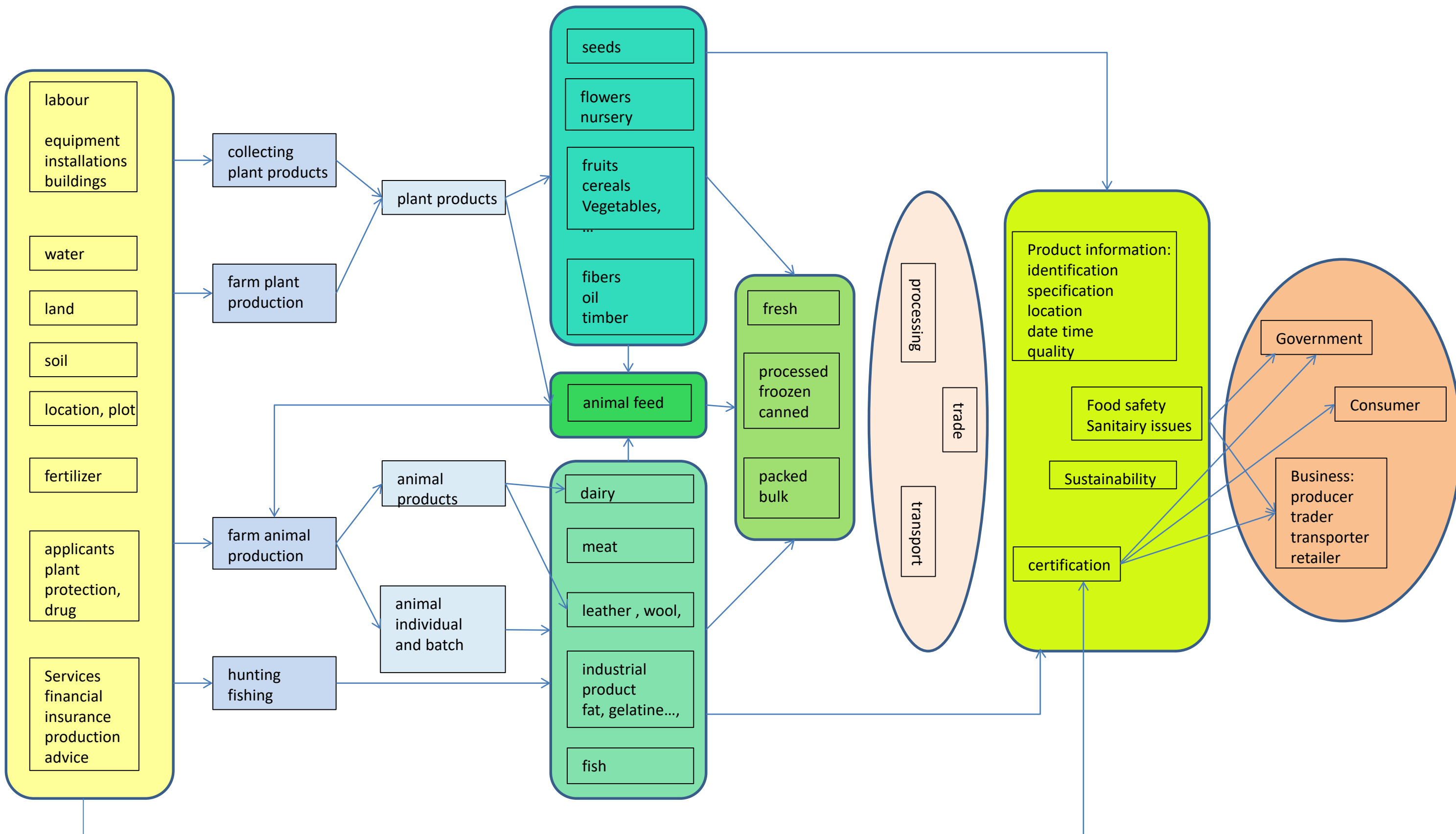
Results UN/CEFACT standardisation projects in agriculture

A generic model,
structure and data
formats

Definitions

Implementation
guidelines

The agriculture and food domain

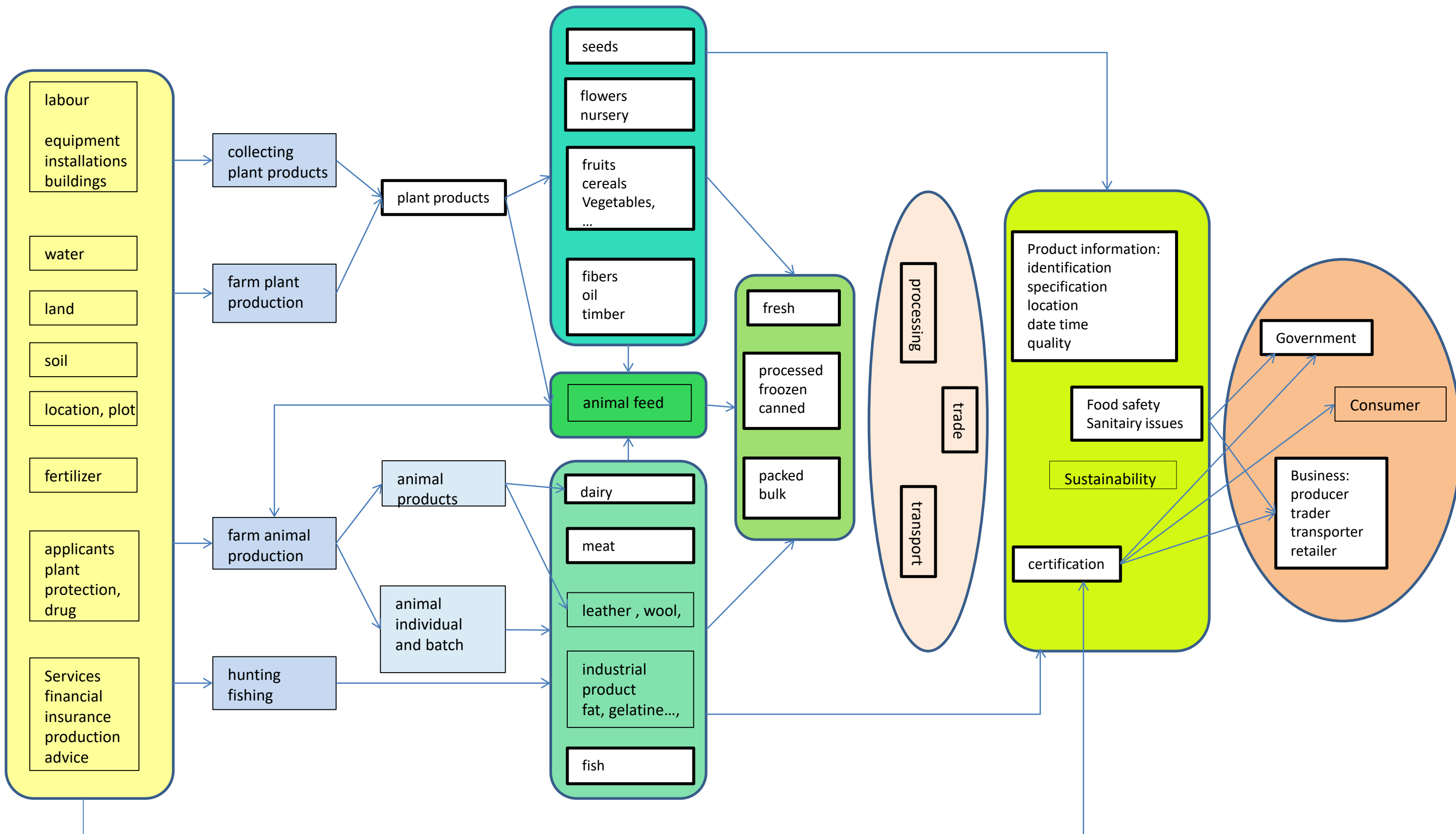


input

output

party

e-Cert SPS certificate G2G (IPPC and OIE) (other certificates G2G, B2B)



input

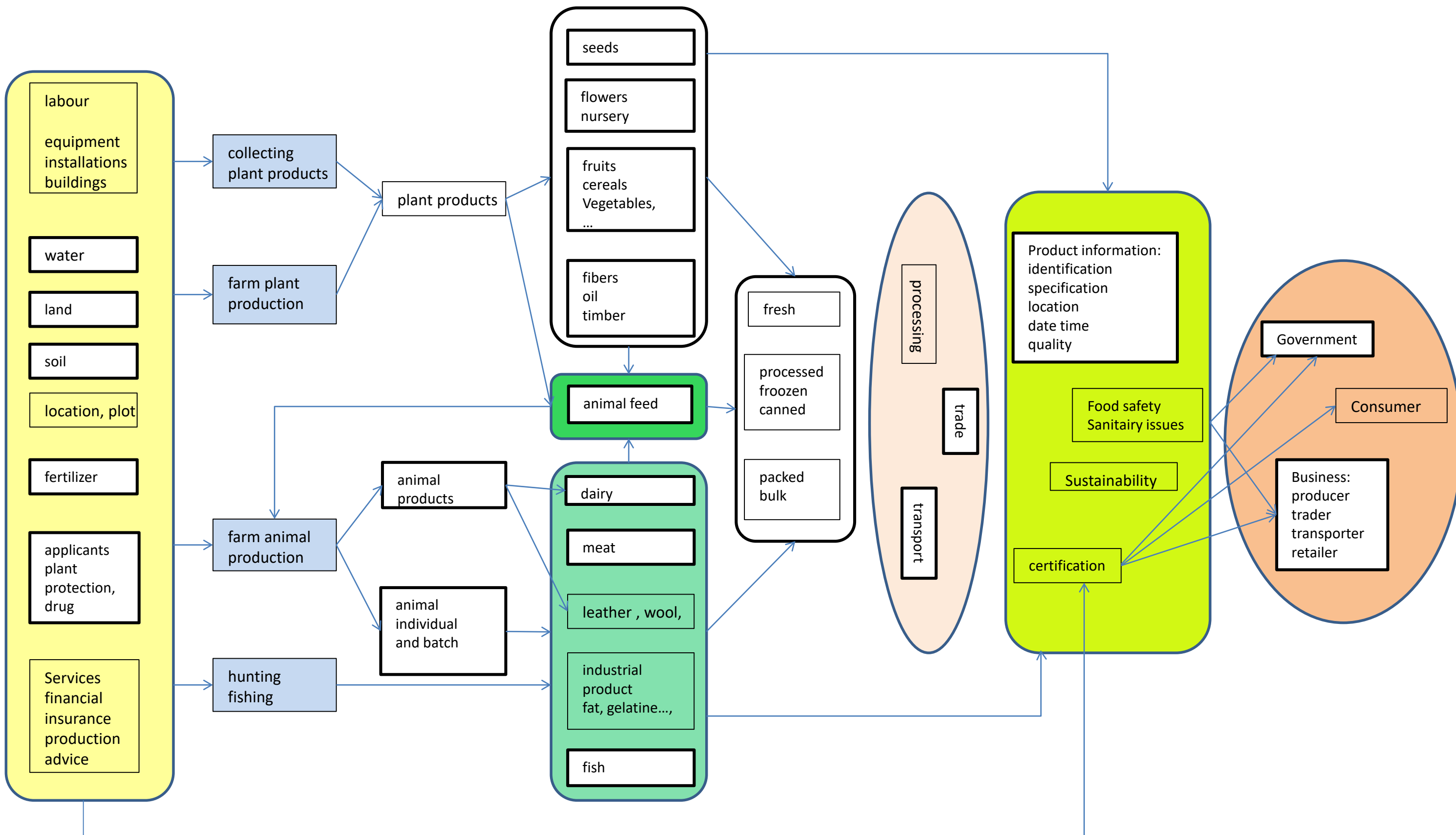
output

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e-LAB

laboratory observation

product information, specification, quality

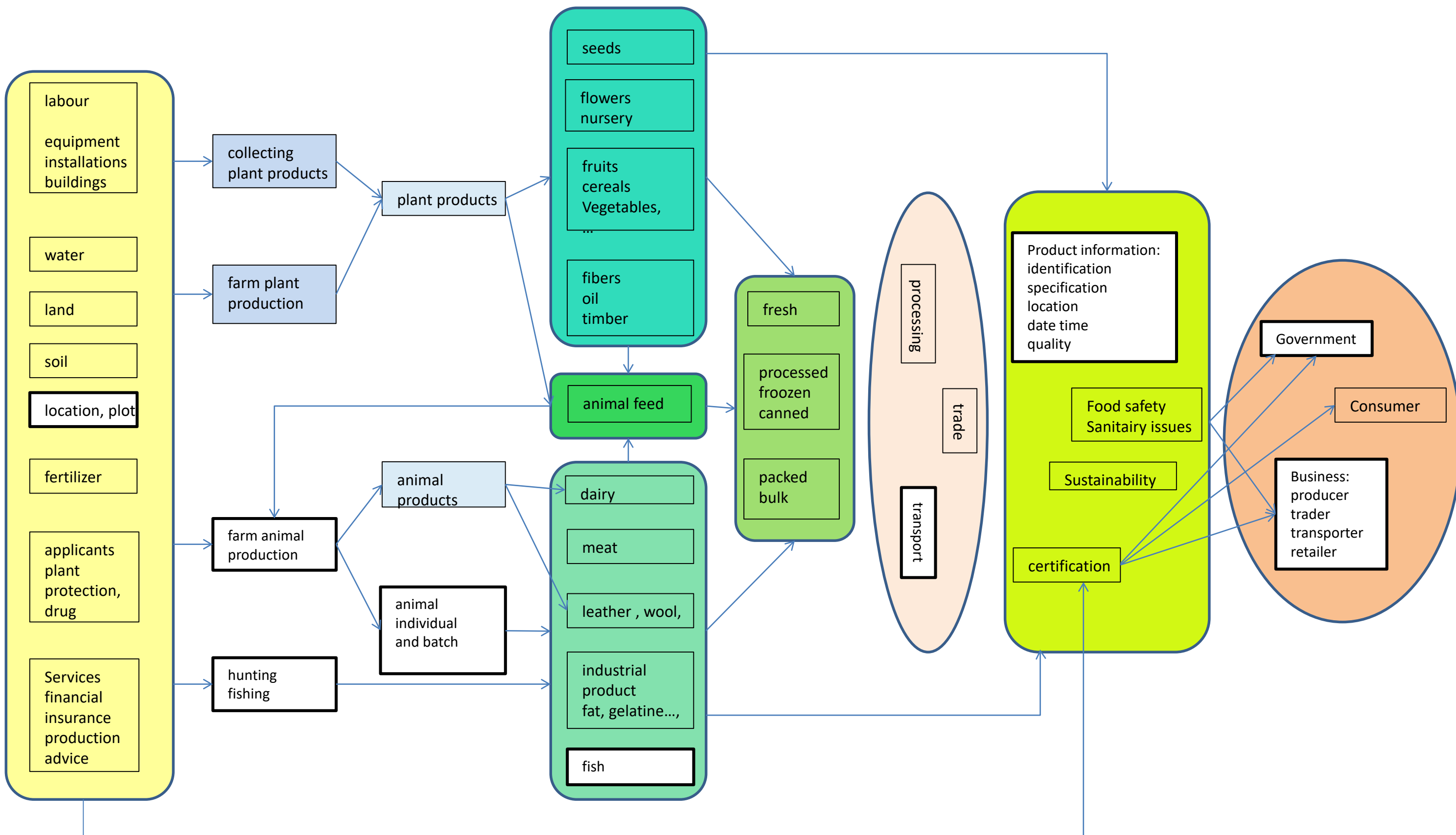


input

output

party

Track and Trace life animals and fish

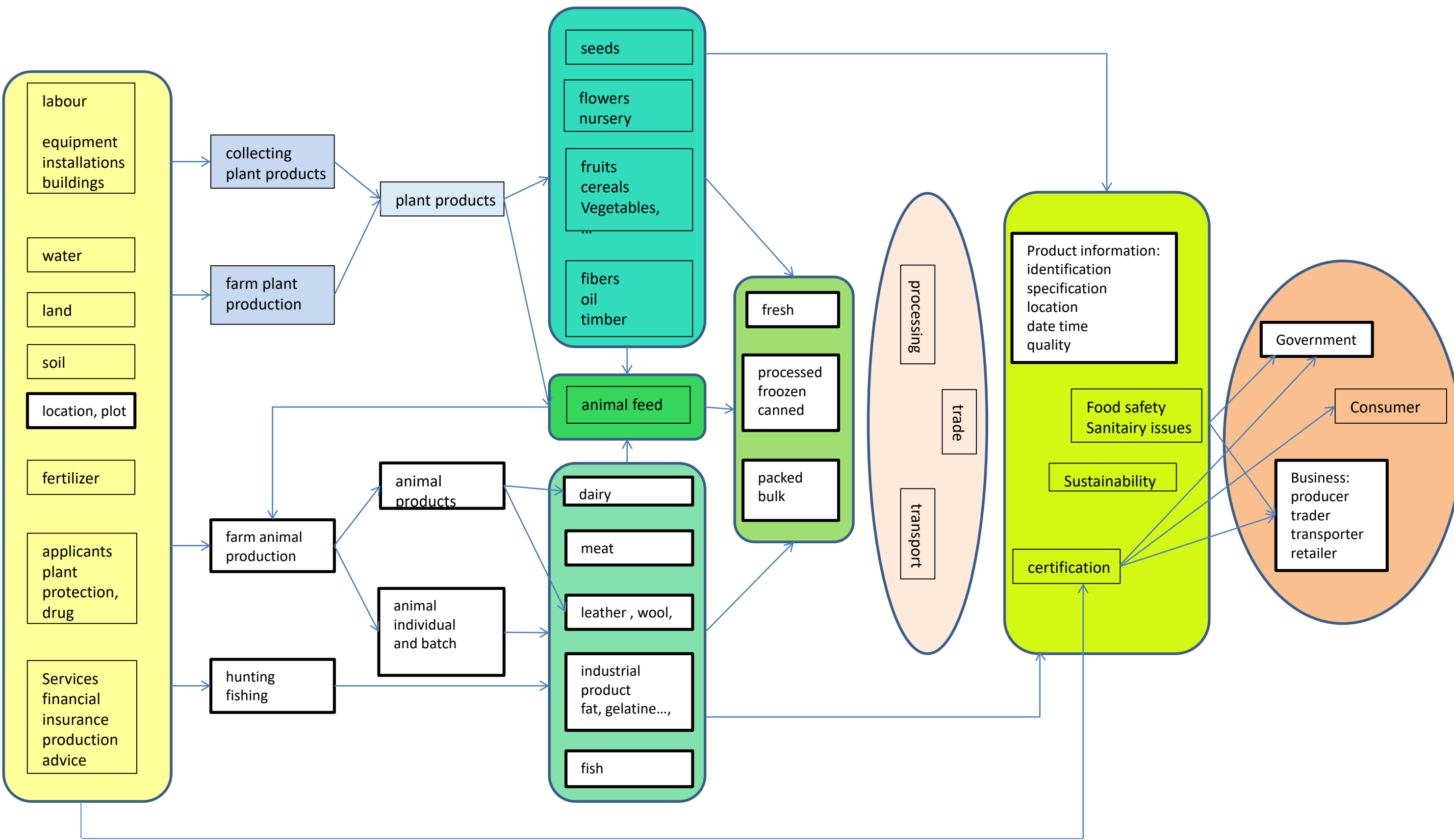


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Track and Trace animal products

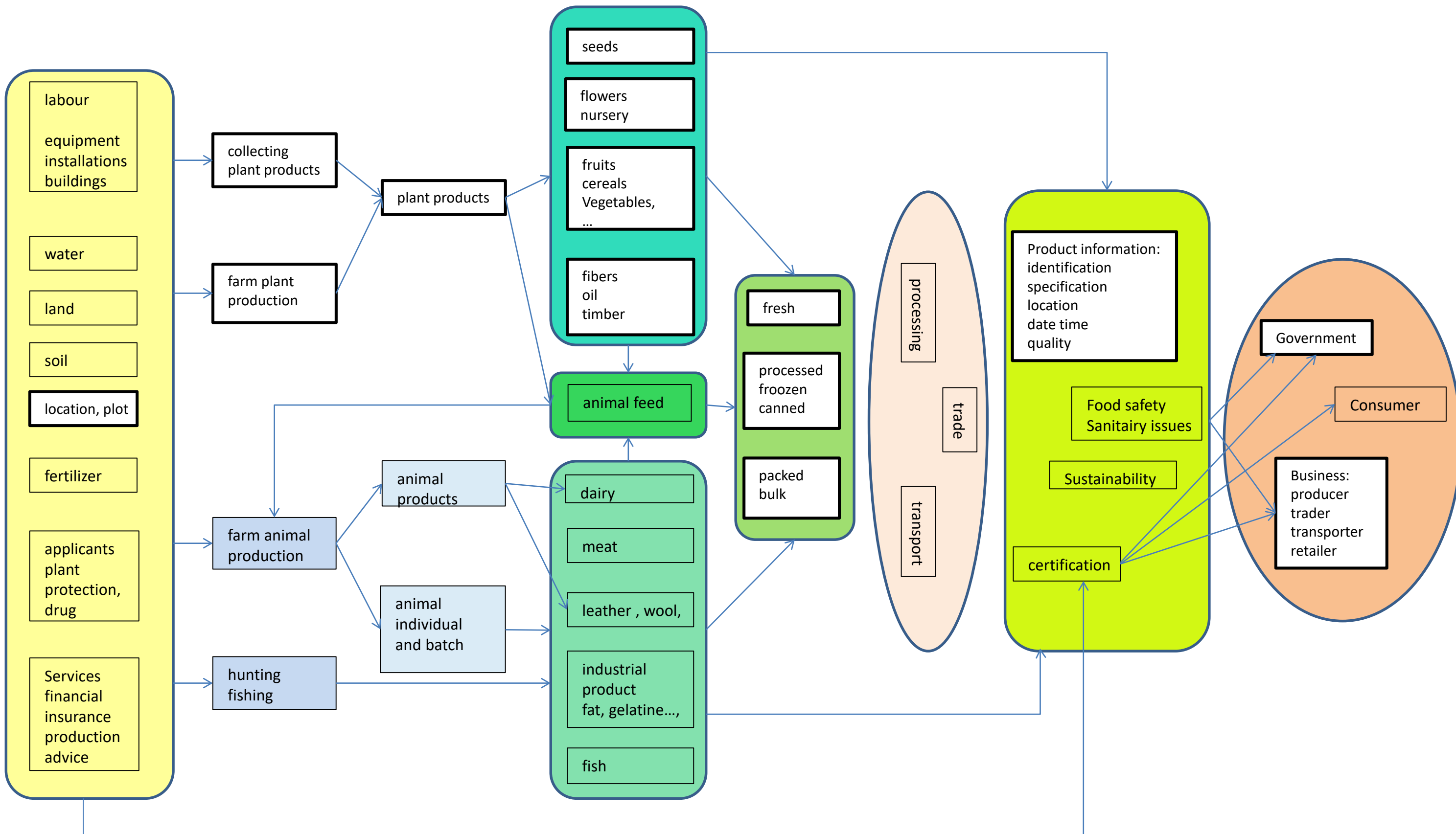


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party

Track and Trace plant and plant products

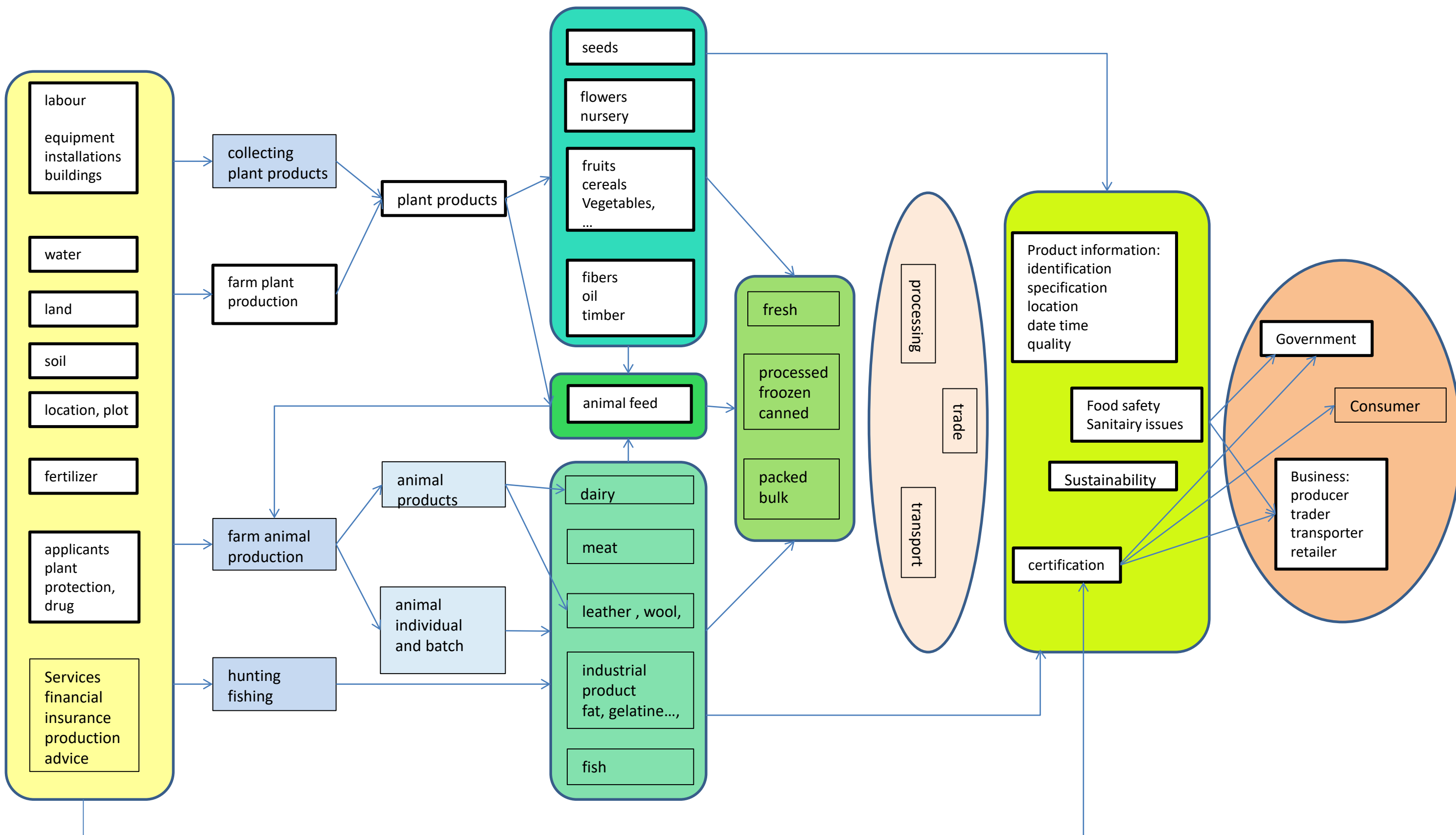


input

output

party

E-Crop



input

output

party

agriculture and textile

