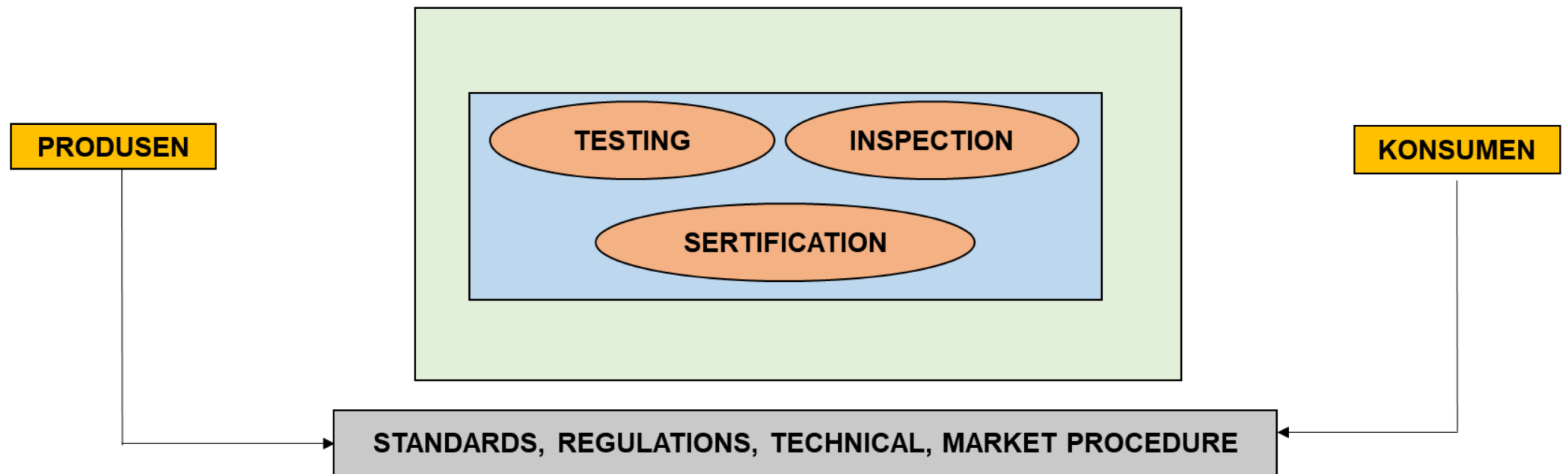# CERTIFICATION AND VERIFICATION IN TRACEABILITY SYSTEM TO ENSURE TRANSPARENCY

Testing, inspection and certification are the industries whose role is to bridge producers and consumers in ensuring compliance with regulatory standards and market requirements.
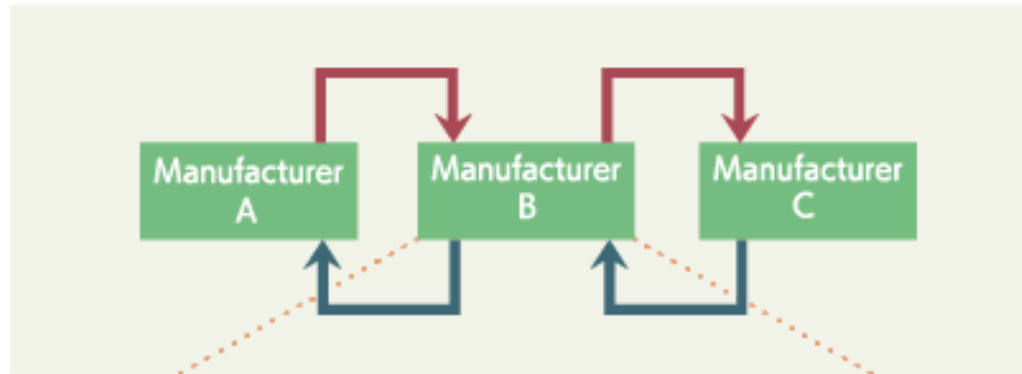
What is Traceability?

Traceability has been defined in the ISO 9001 *standard from the International Organization for Standardization*
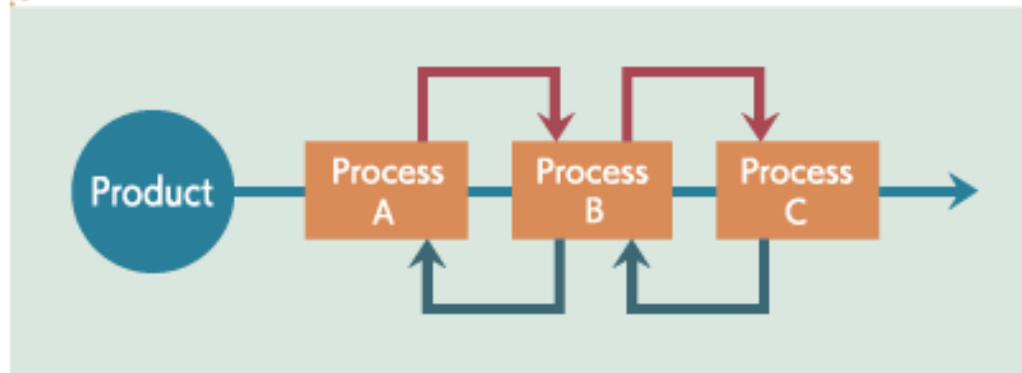
Traceability
Necessary information such as manufacturers, suppliers, and distributors is recorded. This information is tracked in all processes from procurement of raw materials and parts to machining, assembly, distribution, and sales to ensure that their histories can be traced.

Two Perspectives on Traceability ?

Chain Traceability
Movement of products in multiple processes (between manufacturers) can be monitored.

Internal Traceability
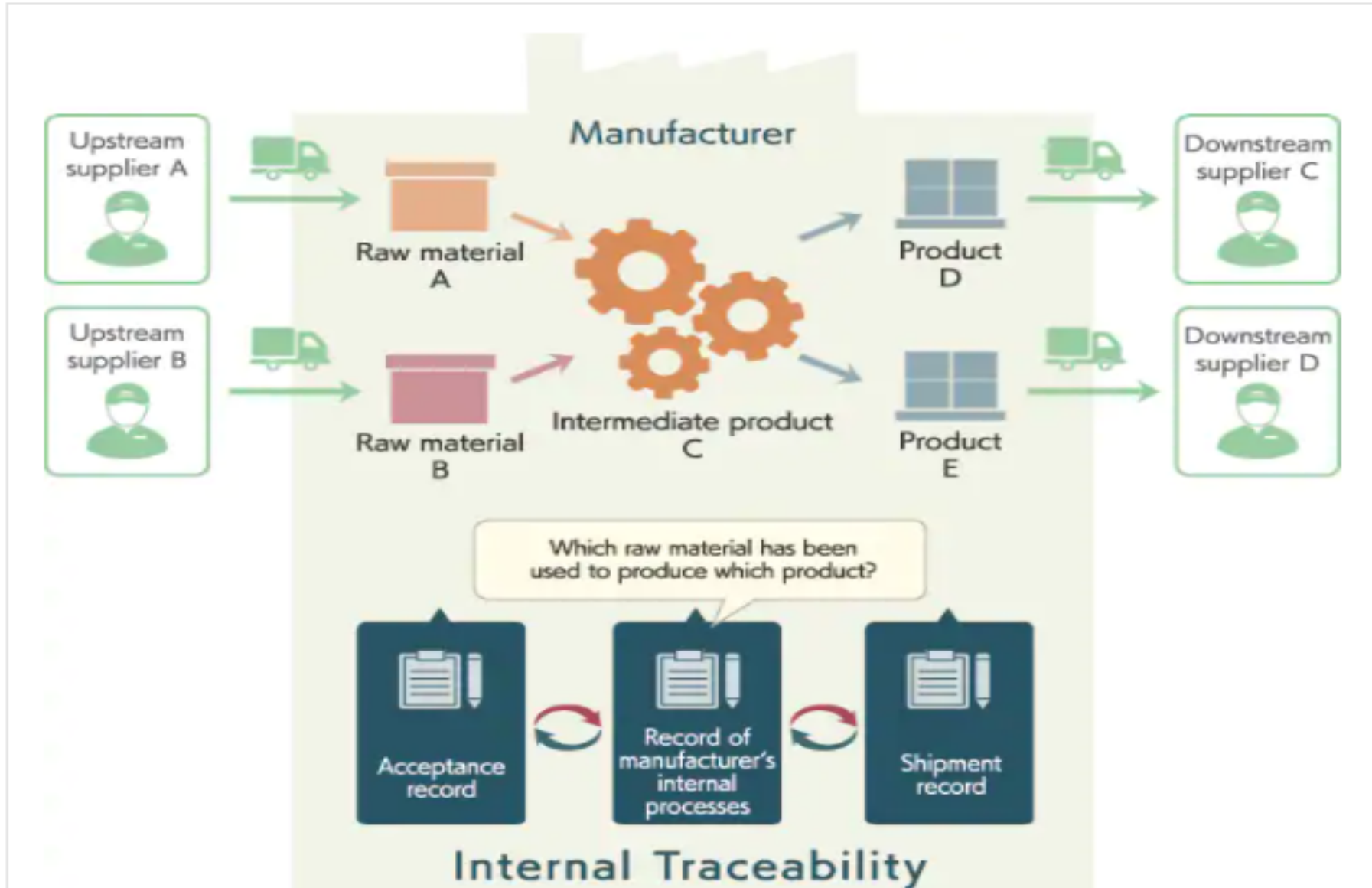Movement of products within a single process can be monitored.

INTERNAL TRACEABILITY ?

TRACEABILITY STANDARD REFERENCE

TRACEABILITY STANDARD REFERENCE

- GS1 Global Traceability Standard – Business Process and System Requirements for Full Chain Traceability (GS1 GTS)10 .

- ISO 22005:2007, Traceability in feed and food chain – General principles and basic requirements for system design and implementation
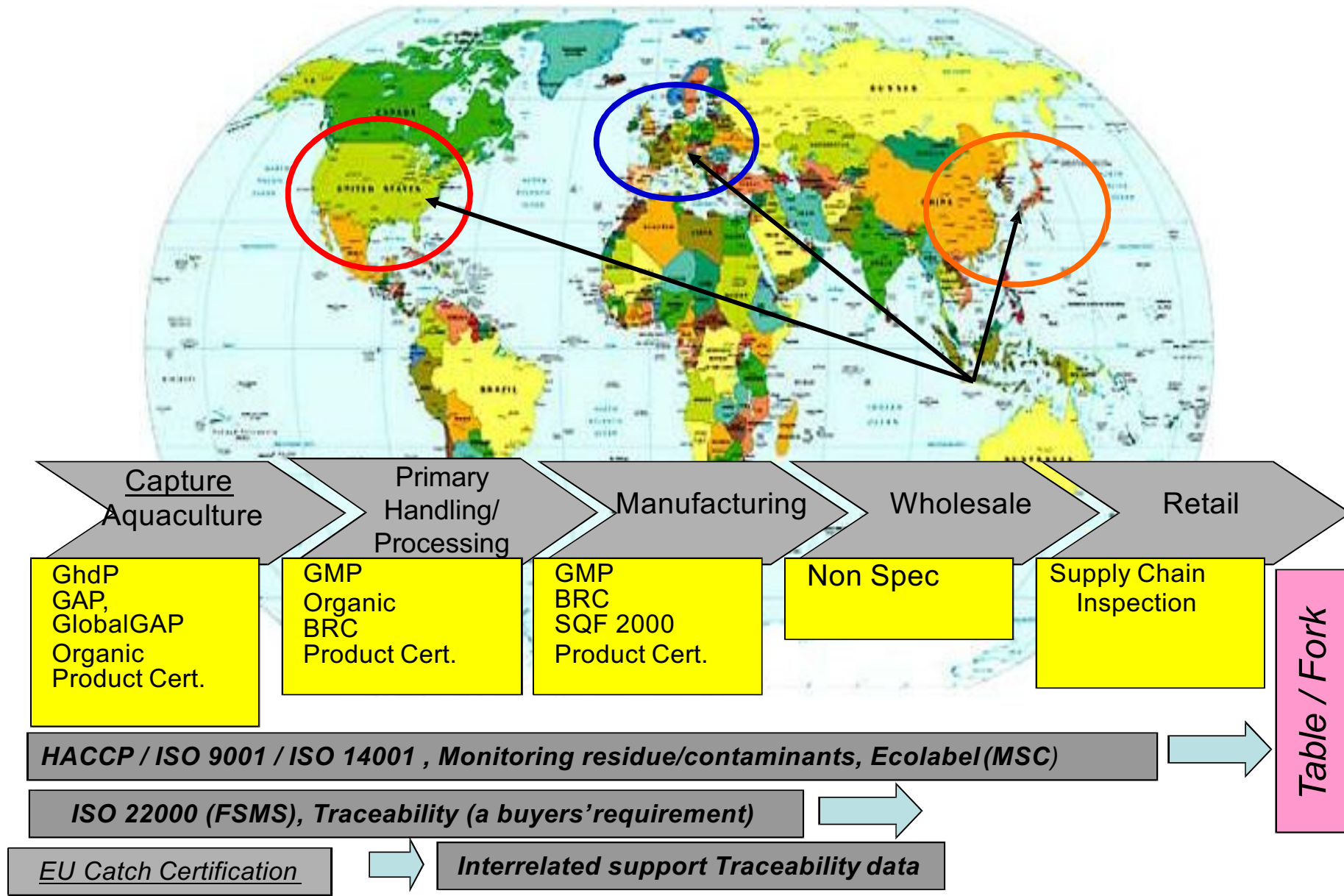
The GS1 Global Traceability Standard

the basis of the GS1 Global Traceability Compliance Criteria for Food, a document used to evaluate critical points within a traceability system. Companies can verify the quality and integrity of their existing traceability system using this Checklist

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Capture Aquaculture	Primary Handling/ Processing	Manufacturing	Wholesale	Retail
GhdP GAP, GlobalGAP Organic Product Cert.	GMP Organic BRC Product Cert.	GMP BRC SQF 2000 Product Cert.	Non Spec	Supply Chain Inspection

Table / Fork

HACCP / ISO 9001 / ISO 14001 , Monitoring residue/contaminants, Ecolabel (MSC)

ISO 22000 (FSMS), Traceability (a buyers' requirement)

EU Catch Certification   **Interrelated support Traceability data**

Marine, Aquaculture & Seafood Chain

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Sea Caught

- Fishing Vessel
- Fishing Gear
- Collecting & Handling
- Fishing Port

Aquaculture

- Breeding
- Hatchery
- Pond culture
- Harvesting

Processing

Canned Seafood

Frozen Seafood

Fresh Seafood

Dried seafood

Seaweed

Carrageenan

Retail & Wholesale

by products

Feed Mills

Fishmeal

Fish Oil

Food Supplements

FOOD TRACEABILITY

01 **Research**

Recycle

Global **03**

Key Legal Requirements:
- EU Food Law
- FDA Regulations
- JAPAN FOOD SANITATION LAW
- AUSTRALIA BIOSECURITY ACT
- BPOM INDONESIA

Key International Standards:
- Codex Standards (CAC)
- ISO Standards (9001,14001, 22000, 26000), SNI, INDO GAP
- HACCP, GMP, GAP, GRASS, etc.

Key Commercial Standards:
- Global Food Safety Initiative (GFSI), BAP
- EUREPGAP, BRC, IFS
- SQF (FMI)
- NGO (MSC, ASC, Dolphin free)

Certification for fisheries

Sea Caught :

- **MSC** (MARINE STEWARDSHIP COUNCIL)
- **FOS** (FRIEND OF THE SEA)

Aquaculture :

- **ASC** (AQUACULTURE STEWARDSHIP COUNCIL)
- **BAP** (BEST AQUACULTURE PRACTICE)
- **GLOBALGAP**
- **INDO GAP**

FISH TRACEABILITY AND AUTHENTICATION

GROW

GROW

SALE

BROADSTOCK CENTER

HATCHERY

CULTIVATE

RETAILER

☐ LARVA

☐ TECHNICAL
☐ MANAGEMENT
☐ SAFETY
☐ ENVIRONMENT

☐ TECHNICAL
☐ MANAGEMENT
☐ SAFETY
☐ ENVIRONMENT

☐ FISH

CONSUMER CHECK

OUTPUT

✓ Good Quality
✓ Healthy
✓ Free Antibiotic
✓ Environment friendly

✓ Good Quality
✓ Healthy
✓ Free Antibiotic
✓ Environment friendly

CERTIFICATION

CERTIFICATION