

# **Food information systems and their design** (part 1 of 5)

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Based on materials from:

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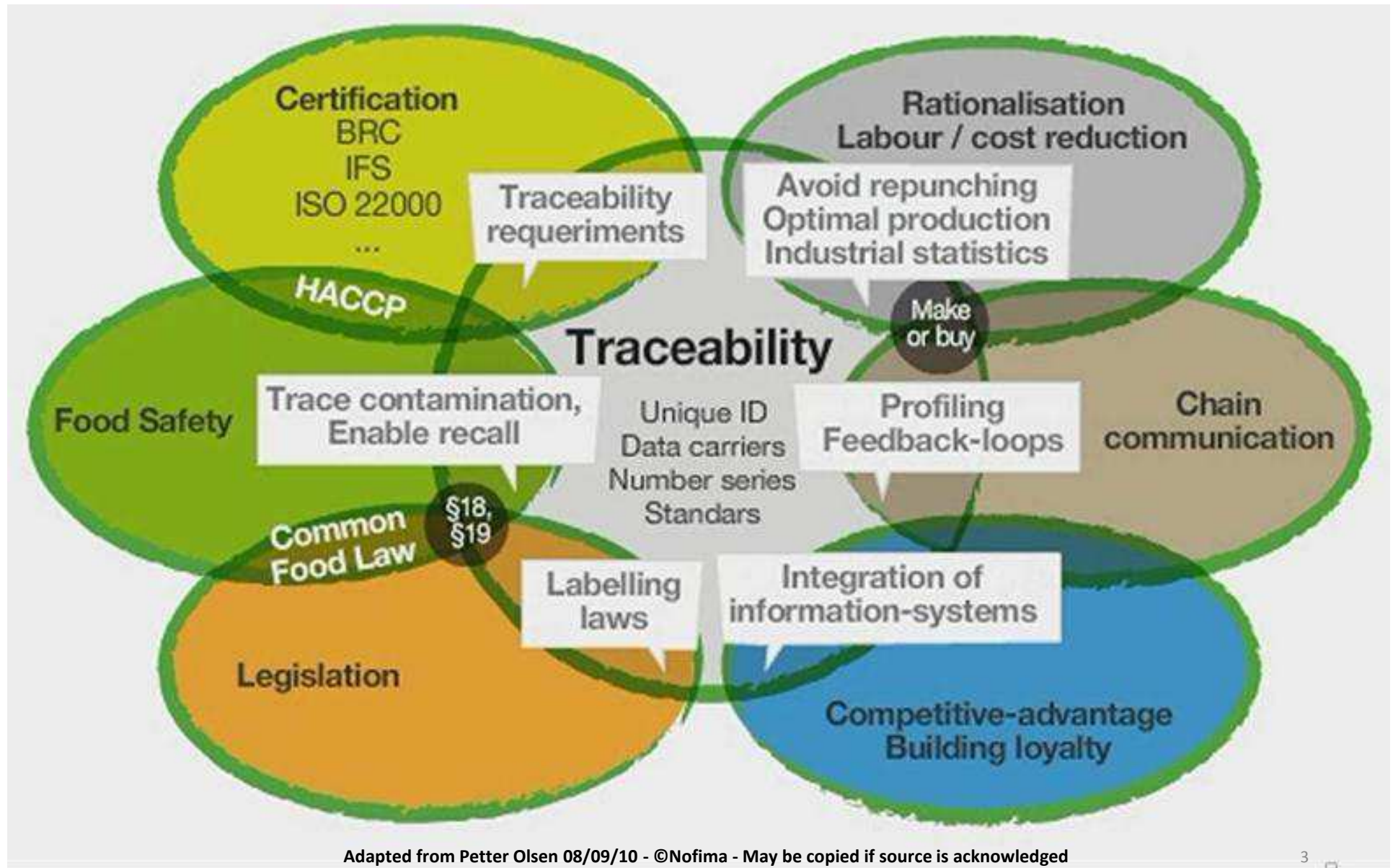
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## The agenda – Day 2

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- Review of Day 1
- Food information systems
- Examples of traceability systems
- Practical exercise

## Traceability drivers in the food sector



## **Stakeholder benefits - “Our clients want traceability because...”**

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- Market differentiation by having documented evidence of
  - practices of social or religious nature (such as fair trade or Halal) or
  - adherence to certain standards (such as GAP, GMP and HACCP)
- To show foods that originate in a certain area (“Made in ...”) or are prepared in a certain fashion (“Taste of ...”)
- To improve internal efficiencies (such as reducing stock holdings)
- To calculate parameters related to sustainability (such as food miles, carbon foot print, fossil energy savings, ...)
- To get feedback of performance of products, especially for the feed – animal – food chain (e.g. IPM and intensification)
- To help prevent fraud

## Day 1 - Traceability presentations

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- The smarter food vision
  - The global food trade system
  - The example of the European Union
  - Information systems
  - The vision of smarter food
- Electronic traceability – The theory
  - Traceability concepts
  - Stakeholder views
  - Why traceability is important
  - Traceability principles
  - Implementing traceability
  - Stakeholder benefits of electronic traceability

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## Chain food information management systems from a functional point of view

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- National single window systems and ePermit systems

**Customs management**



- Food safety oriented systems
- Animal and carcass tracking

**e-traceability systems**



- Fair trade
- Religious
- No child labour

**Ethical compliance**



- Sustainability tracking
- Compliance to specific food standards

**Standard compliance**



- IUU fishing
- Export/import licenses
- Shipment registration

**Legal compliance**



- Transparency systems

**Marketing focus**





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## of data

### traceability information

#### Required key data

Company certification, registration details

#### Available additional data

Alert, product recall or withdrawal etc.

#### Product inspection data

to be made available to remote or on

#### Required information

purposes on the basis of Good Practices, Codes of general industry knowledge

#### Information

might want to define in order to streamline their

OBLIGATORY

quantity of information