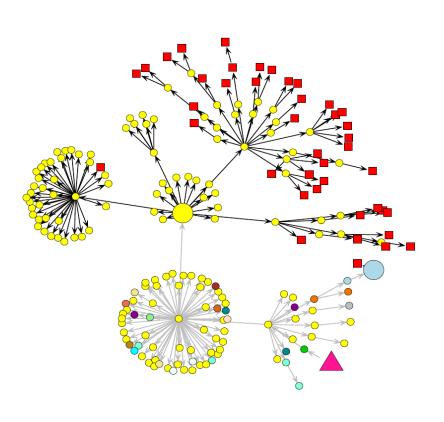
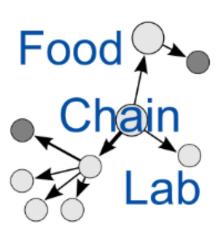




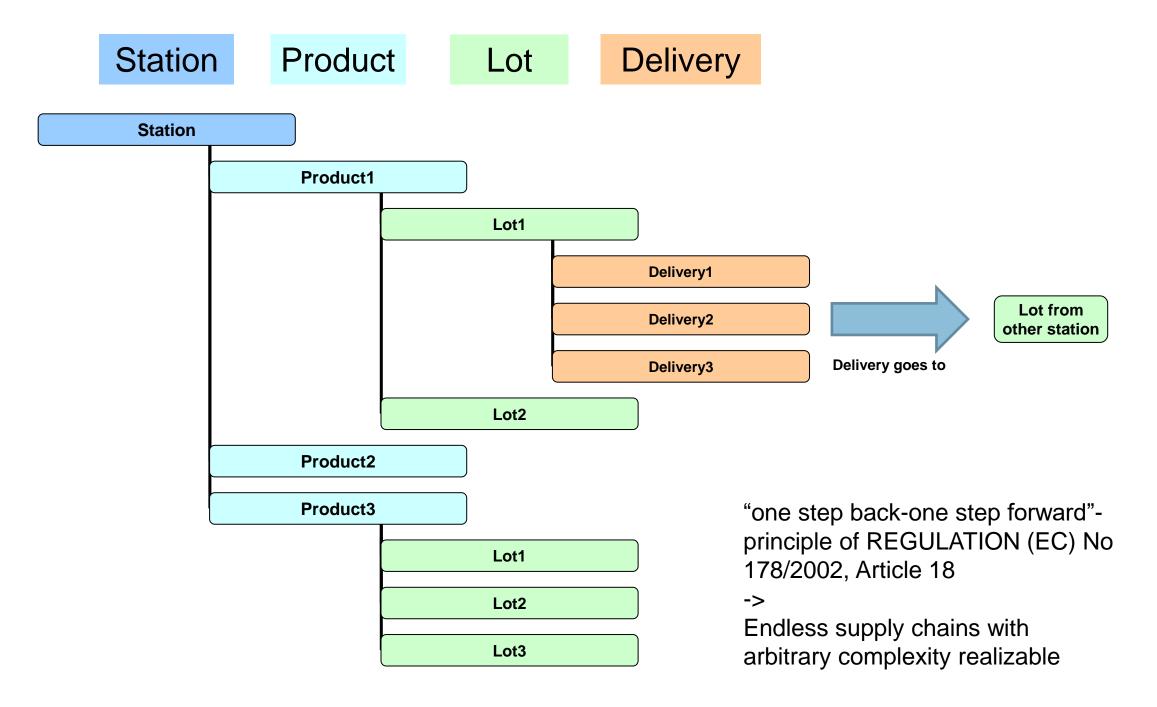
FoodChain-Lab Data Structures and Data Collection



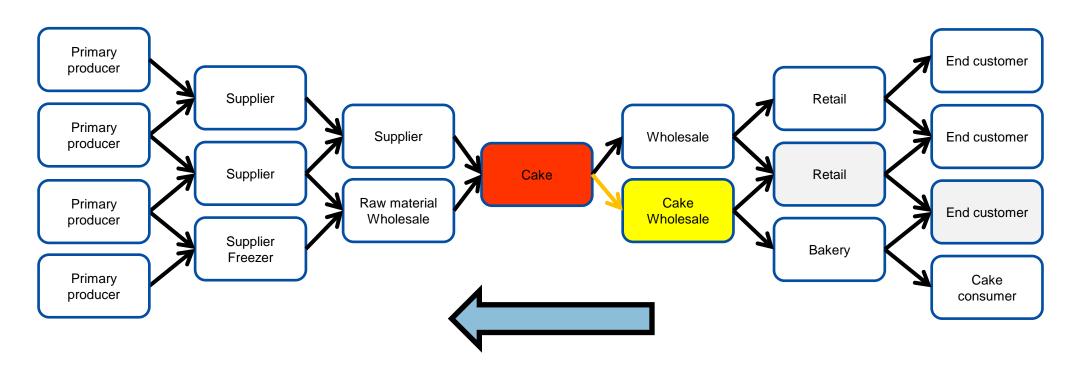


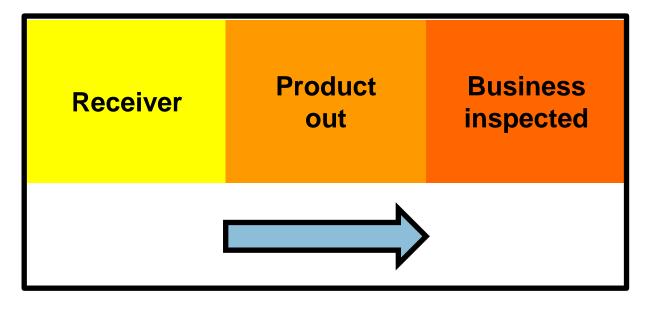
<u>Armin Weiser</u>, Christian Thöns, Alexander Falenski, Matthias Filter, Annemarie Käsbohrer, Bernd Appel

Database – Structure for Food Chains

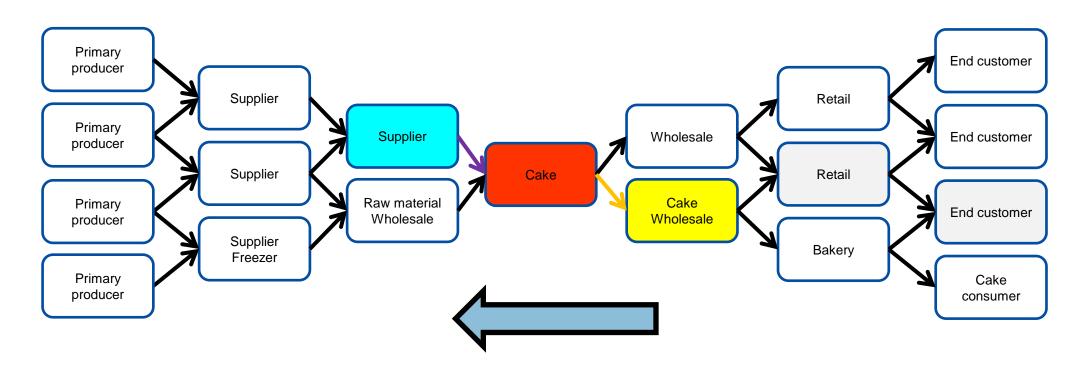


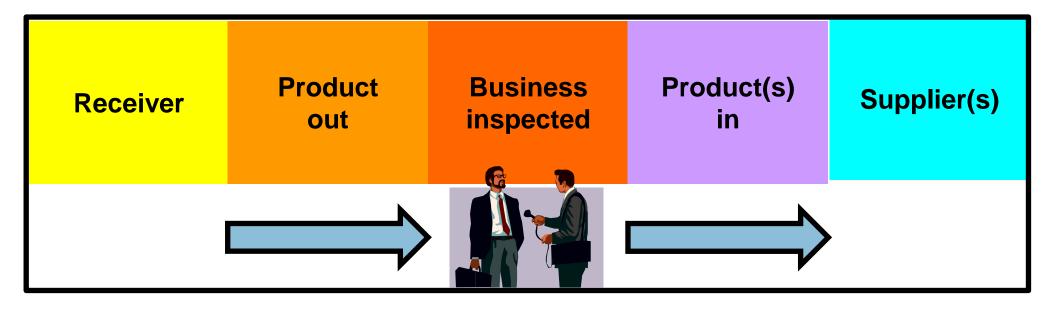
Principle of tracing back – Data gathering





Principle of tracing back – Data gathering







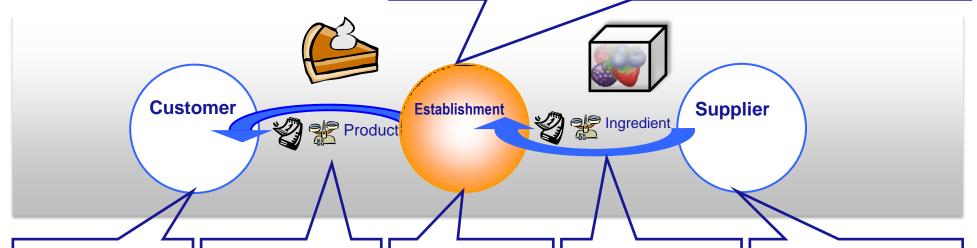


DATA COLLECTION, E.G. AT CAKE MANUFACTURER

Data at each knot of the food supply chain

Establishment where the data are collected:

1 record per ingredient-product combination



Customer of the Establishment:

Identification, e.g.

Name, address. tax no.

Product of the Establishment:

Identification, e.g.

Date of delivery, amount, name, article/lot no., production date, expire date

Establishment:

Identification, e.g.

Name, address. tax no.

Production process:

Recipe, processing

Ingredient of the product:

Identification, e.g.

Date of delivery, amount, name, article/lot no., production date, expire date

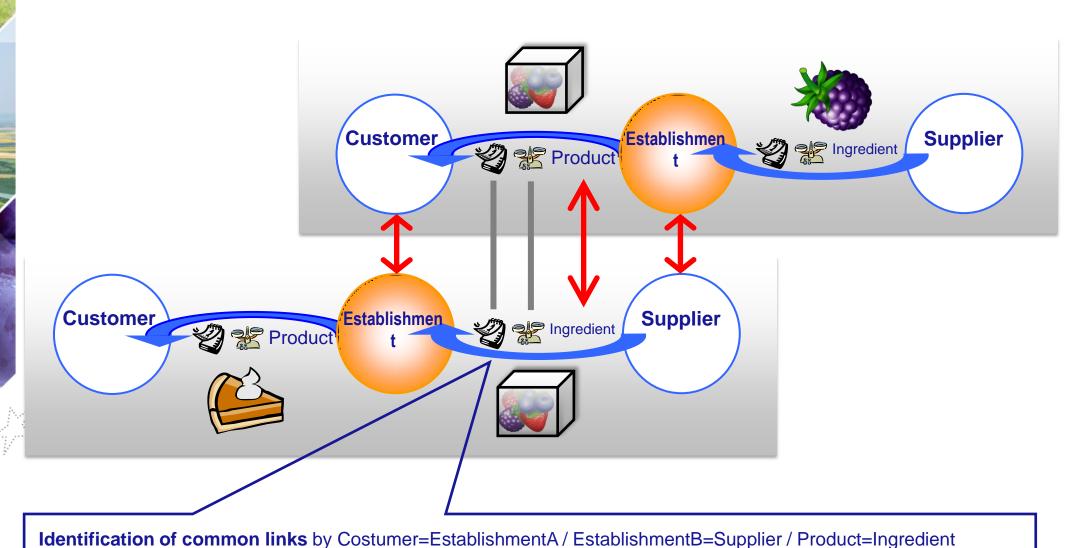
Supplier of the **Establishment:**

Identification, e.g.

Name, address. tax no.



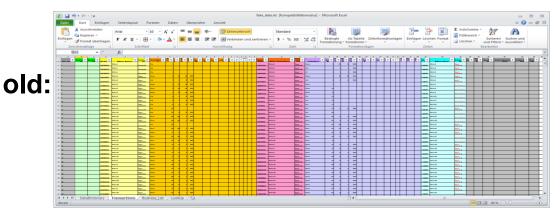
DATA ANALYSIS: BUILDING THE FOOD SUPPLY CHAIN



Verification (proof of consistency) by correct date of delivery / correct amount of the product

Collected were 6227 transactions among 1974 food operators.

Data gathering – Development of a new "simple" template

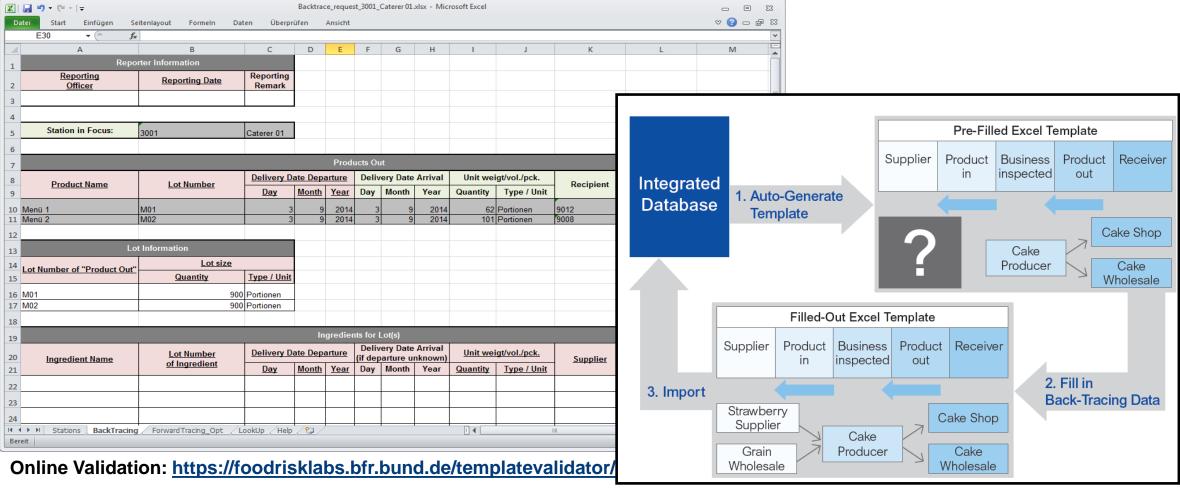


"one step back-one step forward"principle of REGULATION (EC) No 178/2002, Article 18

->

Endless supply chains with arbitrary complexity realizable

new:

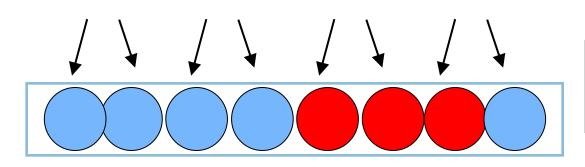


Outbreak Scenario 2:

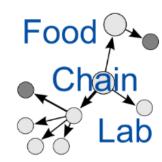
Affecting Multiple Locations/Countries

The outbreak investigation team see:

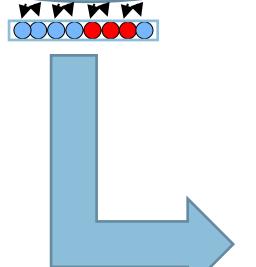
Cases

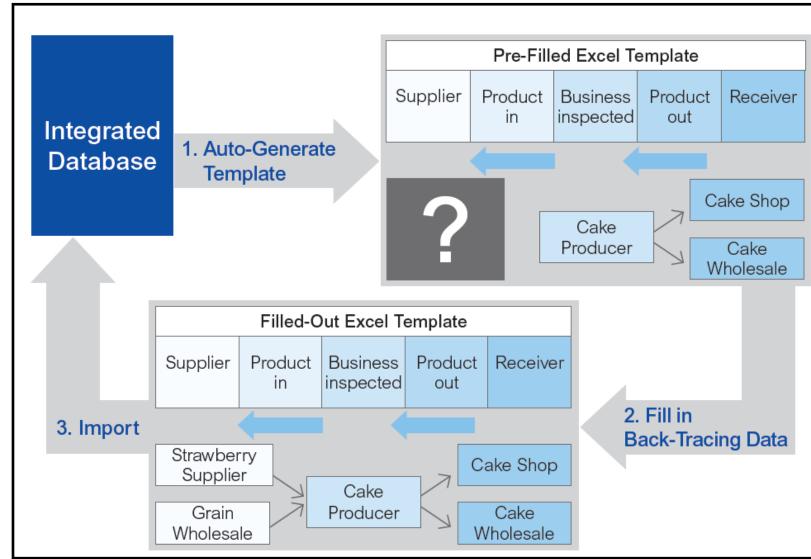


Advised approach



Start_Tracing.xls





Other approaches:



- Direct injection via
 - SQL
 - Alternative Excel sheets
 - Xml structures

Another approach: COS - Busstop - FoodChain-Lab



- COS collects (NRW-) Tracing Data
- COS is doing validation internally based on existing master data
- COS outputs data into newly defined xml-strukture and sends it into a newly developed webservice
- FCL always looks into the webservice for new data
- FCL analyses data (semi)-automatically
- FCL prepares analysis reports and sends it back to the webservice
- COS fetches the report management measures or further data collections will be initiated

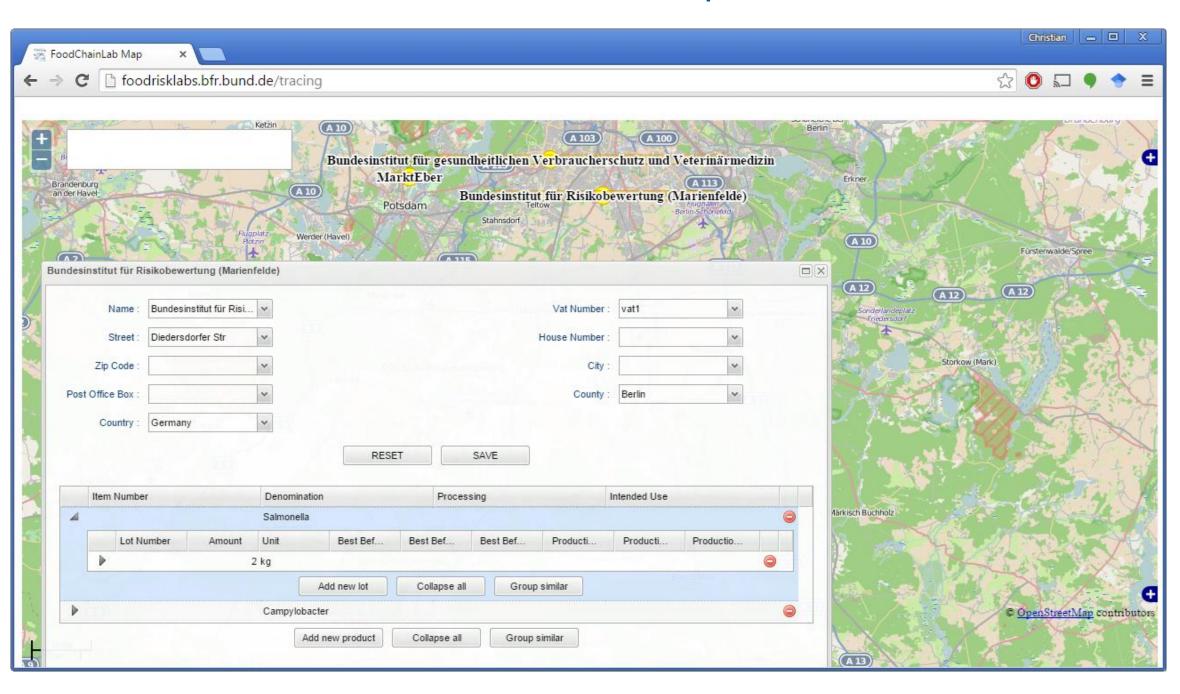
Next steps



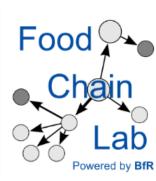
- Simplify Data Input
 - Allow to import data from other systems (e.g. iRASFF)
 - "Immediate" data injection
- DEMOS defining a data standard (EU)
- ALB defining a standard data format (DE)

FoodChain-Lab - Outlook

Web Service for Data Input

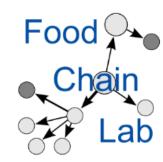


Available Templates/Data imports Food in FCL

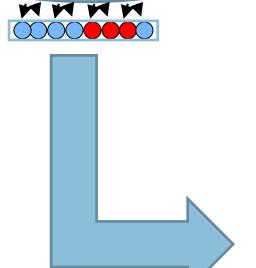


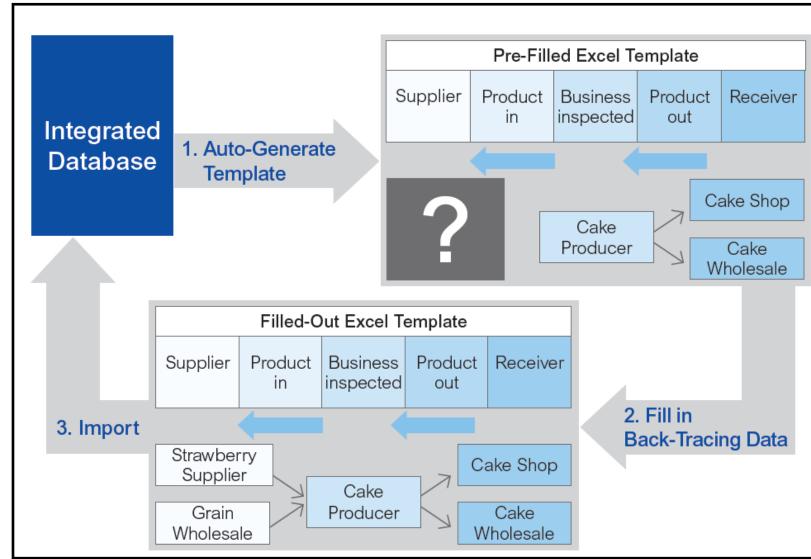
- Start tracing
 - backward
 - forward
- Production tracing
 - Backward (auto generation)
 - Forward (auto generation)
- All-In-One Template
- Web-Edit
- Xml Busstop

Advised approach



Start_Tracing.xls











Thank you for your attention

Armin Weiser

https://foodrisklabs.bfr.bund.de

Federal Institute for Risk Assessment

Max-Dohrn-Str. 8-10 • 10589 Berlin, GERMANY

Tel. +49 30 - 184 12 - 0 • Fax +49 30 - 184 12 - 47 41

foodrisklabs@bfr.bund.de • www.bfr.bund.de