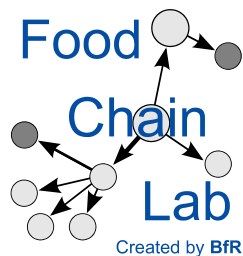


Data collection and data extraction using FoodChain-Lab data templates

15.05.2025, London

Alexander Falenski, Marion Gottschald, Marco Rügen

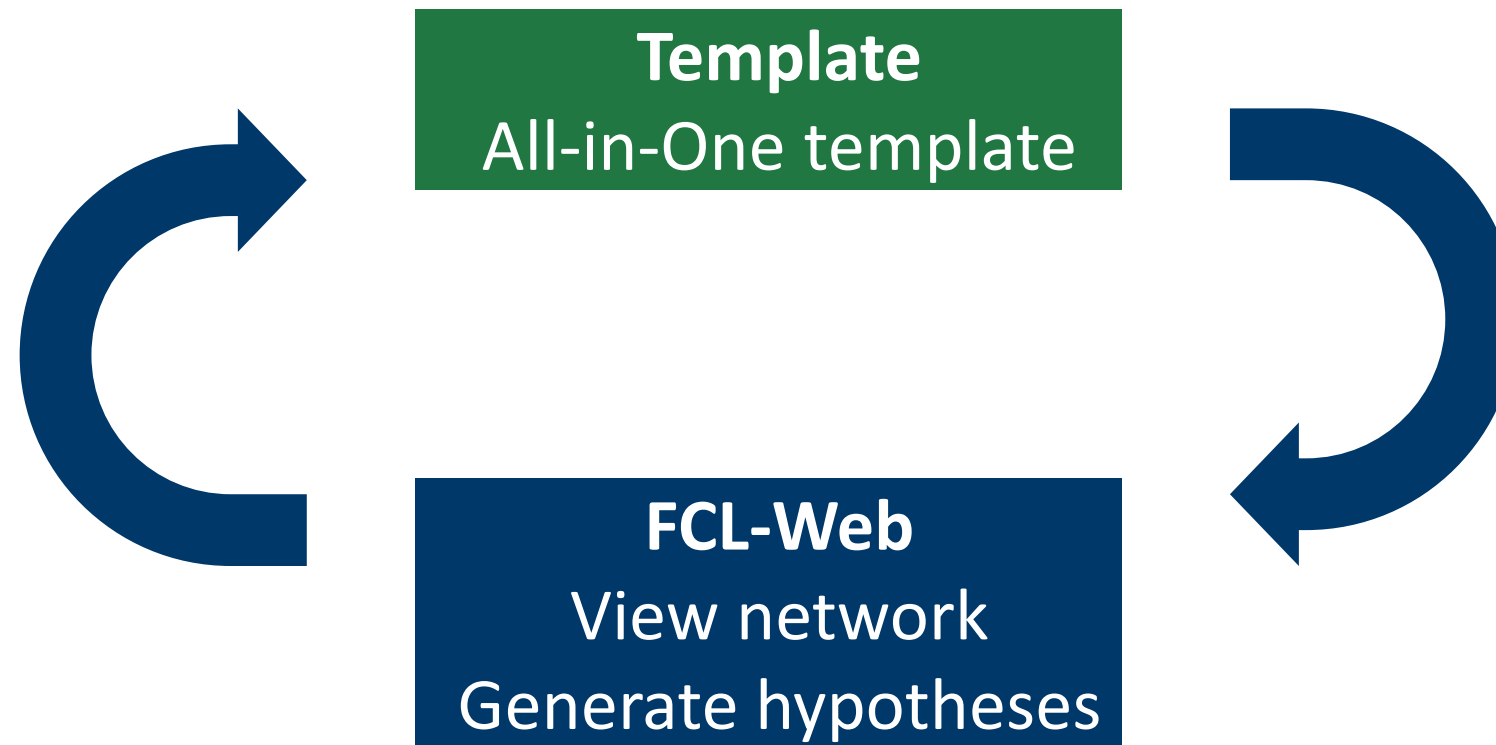
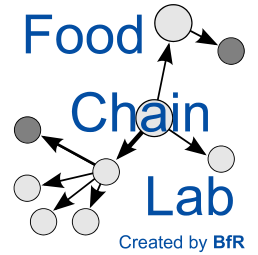
The All-in-One data template



	A		B		C		D		E		F		G		H		I		J		K	
1	<u>Company_ID</u>		<u>Name</u>		<u>Street</u>		<u>Street Number</u>		<u>Postal Code</u>		<u>City</u>		<u>District</u>		<u>State</u>		<u>Country</u>		<u>Type of business</u>		<u>Additional Fields -></u>	
7																						
8																						
9		A	B	C				D	E	F	G	H	I	J	K	L	M	N	O	P		
10	1	<u>DeliveryID</u>	<u>Sender</u>	<u>Product Name</u>				<u>Lot Number</u>	<u>Lot size</u>		<u>Delivery Date</u> <u>Departure</u>		<u>Delivery Date</u> <u>Arrival</u>			<u>Unit weigt/vol./pck.</u>		<u>Recipient</u>	<u>Additional Fields -></u>			
11	2								<u>Quantity</u>	<u>Type / Unit</u>	<u>Day</u>	<u>Month</u>	<u>Year</u>	<u>Day</u>	<u>Month</u>	<u>Year</u>	<u>Quantity</u>			<u>Type / Unit</u>		
12	3																					
13	4																					
14	5																					
15	6																					
16	7																					
17	8																					
18	9																					
	10																					
	11																					
	12																					
	13																					
	14																					
	15																					
	16																					
	17																					
	18																					

	A		B	
1	<u>From DeliveryID</u>		<u>Into DeliveryID</u>	
2				
3				
4				
5				

Tracing workflow using the All-in-One template

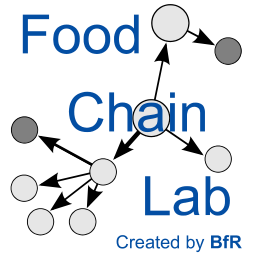


Data collection in FoodChain-Lab Desktop

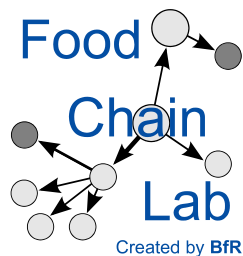
Outbreak: Tracing workflow using FoodChain-Lab Desktop I

First information on food producing company
involved in foodborne disease outbreak

Template
Start tracing template



Start Forward tracing template: Bakery and patients



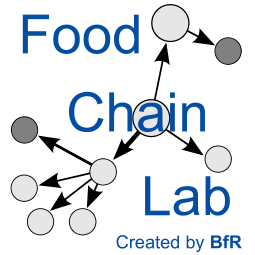
Bakery

Inquired Company:		Bakersfield Bakery		[Address]		DE		Manufacturer				
For questions please contact the FoodChain-Lab team via foodrisklabs@bfr.bund.de												
Products in Focus:	Relevant period of sale:	Onset of disease:										
Information to complete the sheet:												
Please keep track of all delivered products matching the product descriptions that were sold during the relevant period in a lot-based manner.												
Recipient				Product		Lot Information		Delivery			Comments	
Name	Address (e.g. Street, ZIP, City)	Country	Type of Business	Name	EAN	Lot Number	Best Before Date or Use-by Date	Delivery Date				Amount (e.g. 45 kg)
								Day	Month	Year		
Patient01		DE	Patient	Summer Cake		SC01		6	11	2017	1 Piece	
Patient02		DE	Patient	Summer Cake		SC02		6	11	2017	1 Piece	
Patient03		DE	Patient	Summer Cake		SC03		6	11	2017	1 Piece	
Patient04		DE	Patient	Summer Cake		SC04		6	11	2017	1 Piece	
Patient05		DE	Patient	Summer Cake		SC05		6	11	2017	1 Piece	

Patients

Contaminated product

Outbreak: Tracing workflow using FoodChain-Lab Desktop II



First information on food producing company
involved in foodborne disease outbreak

Template
Start tracing template

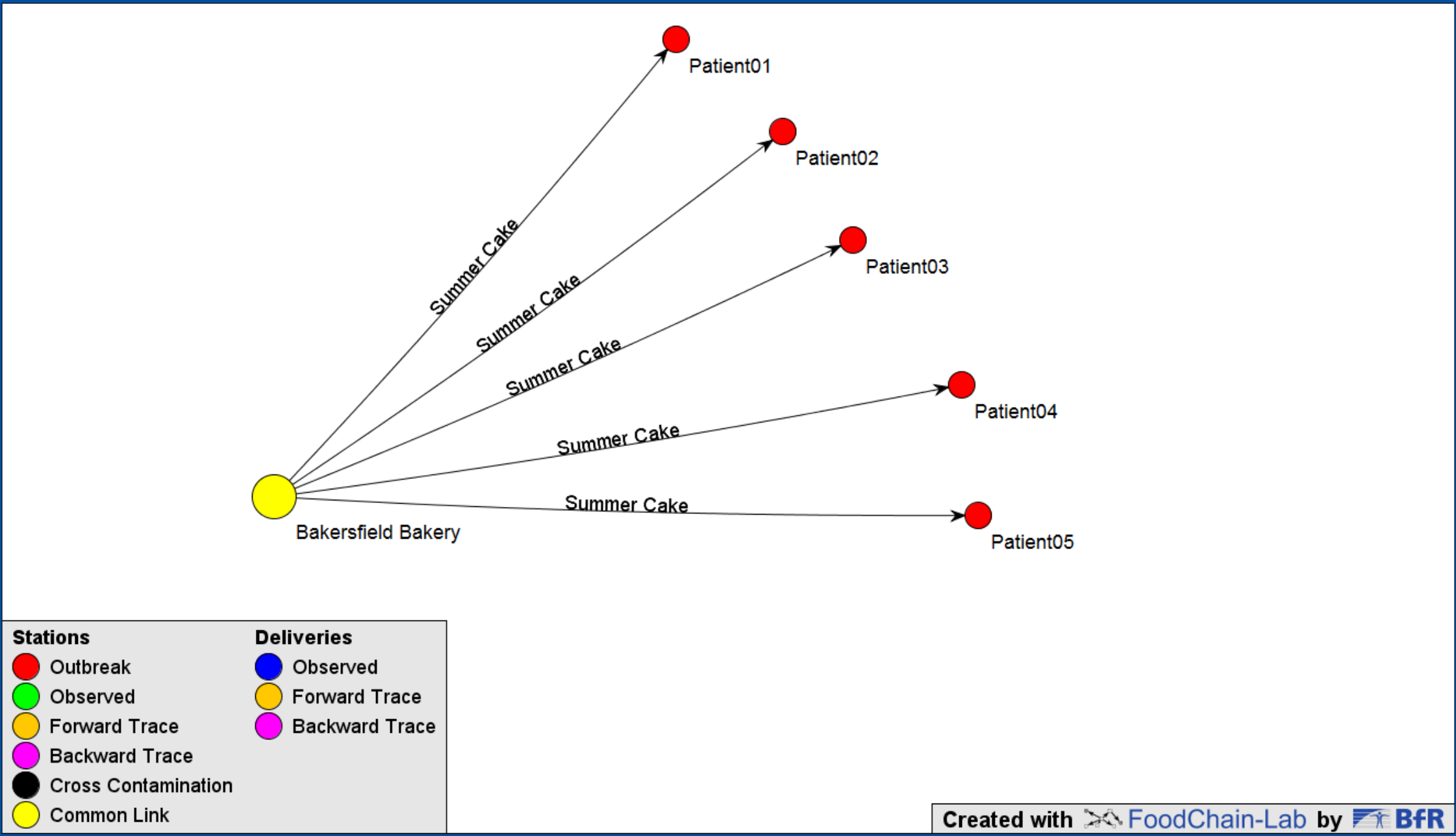
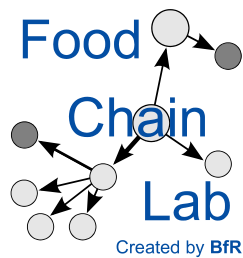


Database
Import
tracing template

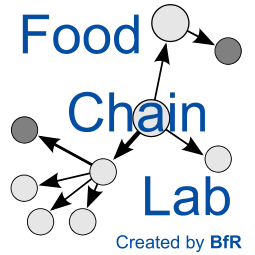


Tracing View
View network
Generate hypotheses

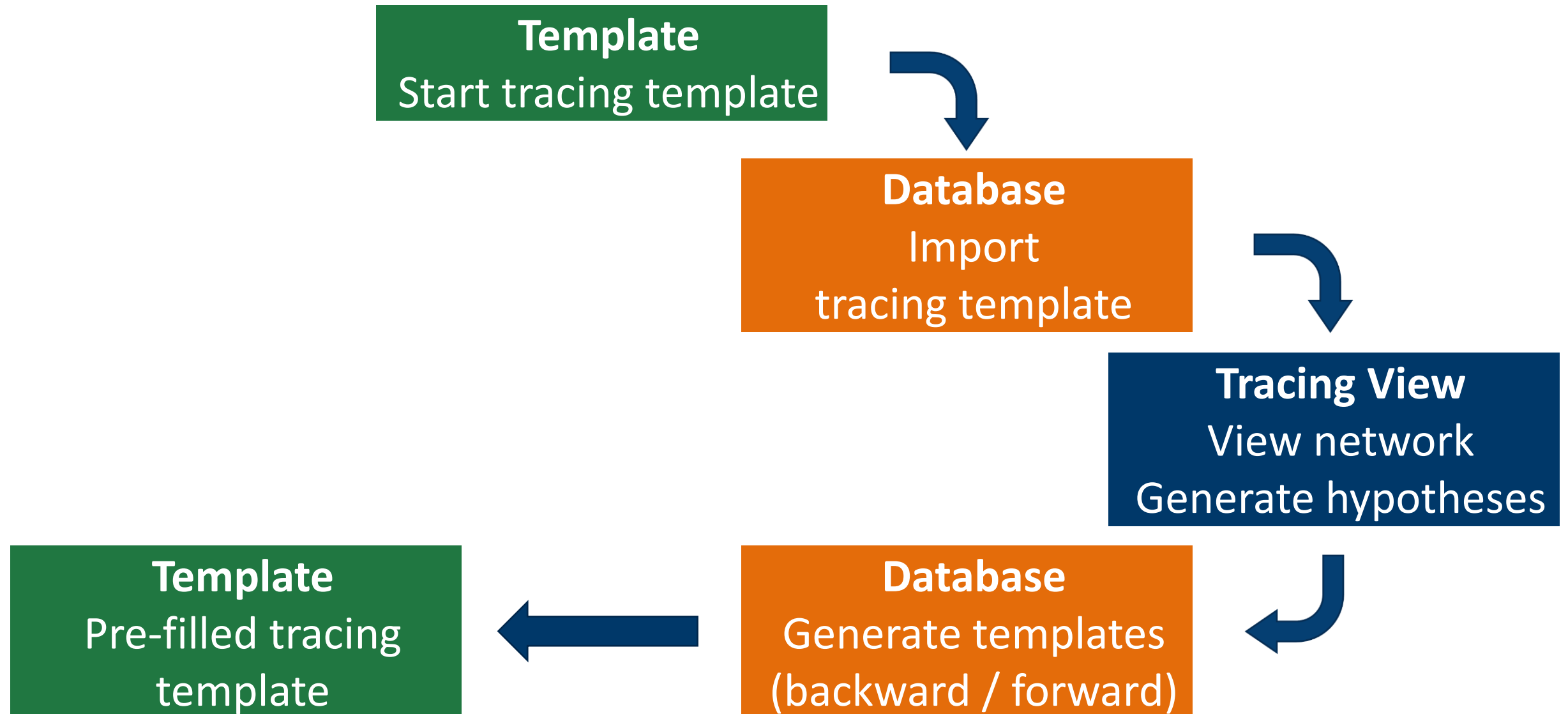
Tracing View: Bakery and patients



Outbreak: Tracing workflow using FoodChain-Lab Desktop III



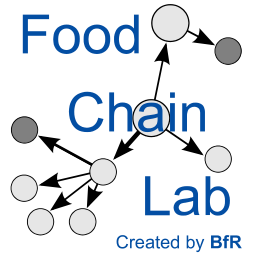
First information on food producing company involved in foodborne disease outbreak



Pre-filled backtracing template generated by the database

Inquired Company:	Bakersfield Bakery		[Address]		DE		Manufacturer						
For questions please contact the FoodChain-Lab team via foodrisklabs@bfr.bund.de													
Outgoing Goods													
	Product		Lot Information		Delivery			Recipient		Comments			
	Name	EAN	Lot Number	Best Before Date or Use-by Date	Delivery Date			Amount (e.g. 45 kg)	Name		Address (e.g. Street, ZIP, City)	Country	Type of Business
					Day	Month	Year						
	Summer Cake		SC01		6	11	2017	1 Piece	Patient01		DE	Patient	
	Summer Cake		SC02		6	11	2017	1 Piece	Patient02		DE	Patient	
	Summer Cake		SC03		6	11	2017	1 Piece	Patient03		DE	Patient	
	Summer Cake		SC04		6	11	2017	1 Piece	Patient04		DE	Patient	
	Summer Cake		SC05		6	11	2017	1 Piece	Patient05		DE	Patient	
Information to complete the sheet: Fill in outgoing goods which are already known (see grey fields above). Please keep track of the ingredients of all sent products - do it in a lot-based manner. In Column A starting with Line Number 22 please enter the line number of the outgoing good being the product of this ingredient. Afterwards, enter the ingredient information in Please repeat the outgoing good as often as necessary in order to capture all its ingredients.													
Incoming Goods - lot-based Ingredient List													
Line Number or Lot Number from Outgoing Goods	Ingredient		Lot Information		Delivery			Supplier				Comments	
	Name	EAN	Lot Number	Best Before Date or Use-by Date	Delivery Date			Amount (e.g. 45 kg)	Name	Address (e.g. Street, ZIP, City)	Country		Type of Business
					Day	Month	Year						

REGULATION (EC) No. 178/2002, Article 18, Traceability

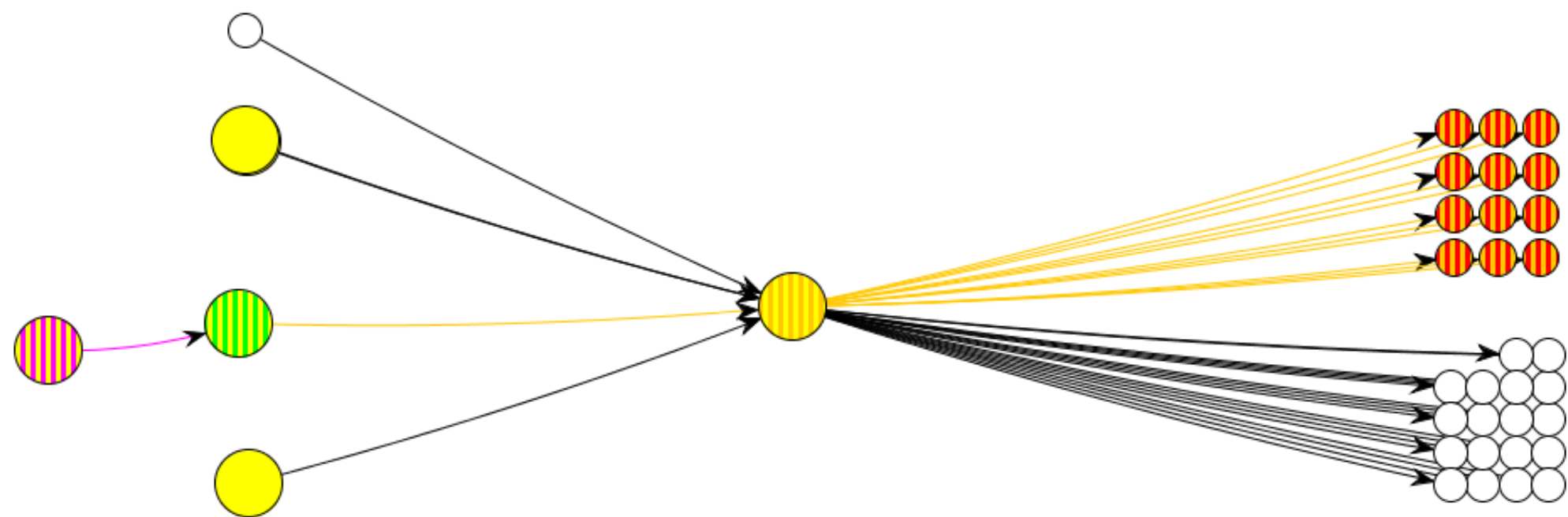


- (1) **at all stages of production, processing and distribution** intended to be, or expected to be, incorporated into a food or feed shall be established **at all stages of production, processing and distribution**.
- (2) **food and feed business operators** shall be able to **identify any person** **from** whom they have been **supplied**

To this end, such operators shall have in place **systems and procedures** which allow for this information to be made available to the competent authorities **on demand**.

- (3) **to** which their products have been **supplied** **identify the other businesses to** which their products have been **supplied**. This information shall be made available to the competent authorities **on demand**.

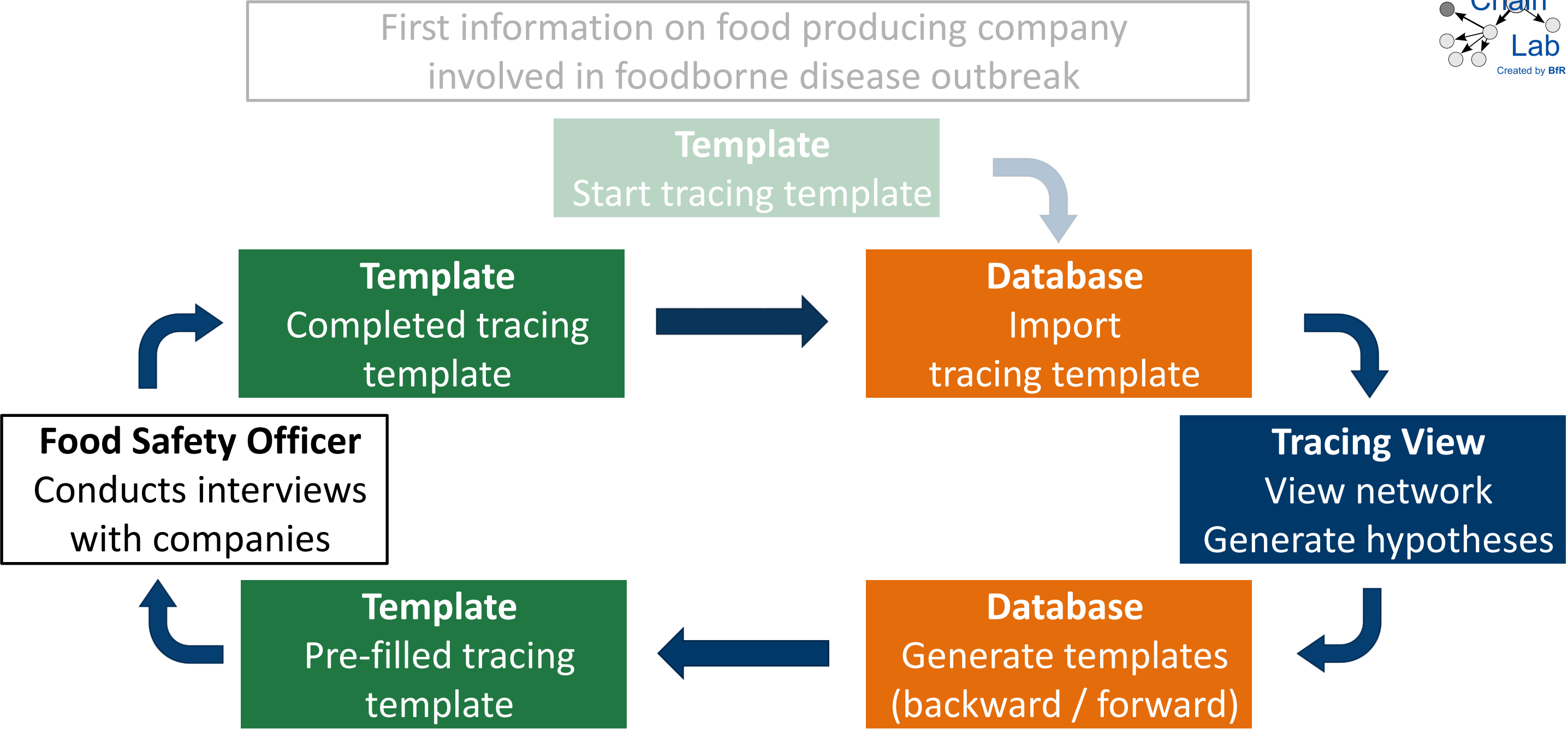
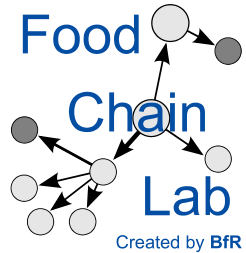
Inquiry at a cake manufacturer



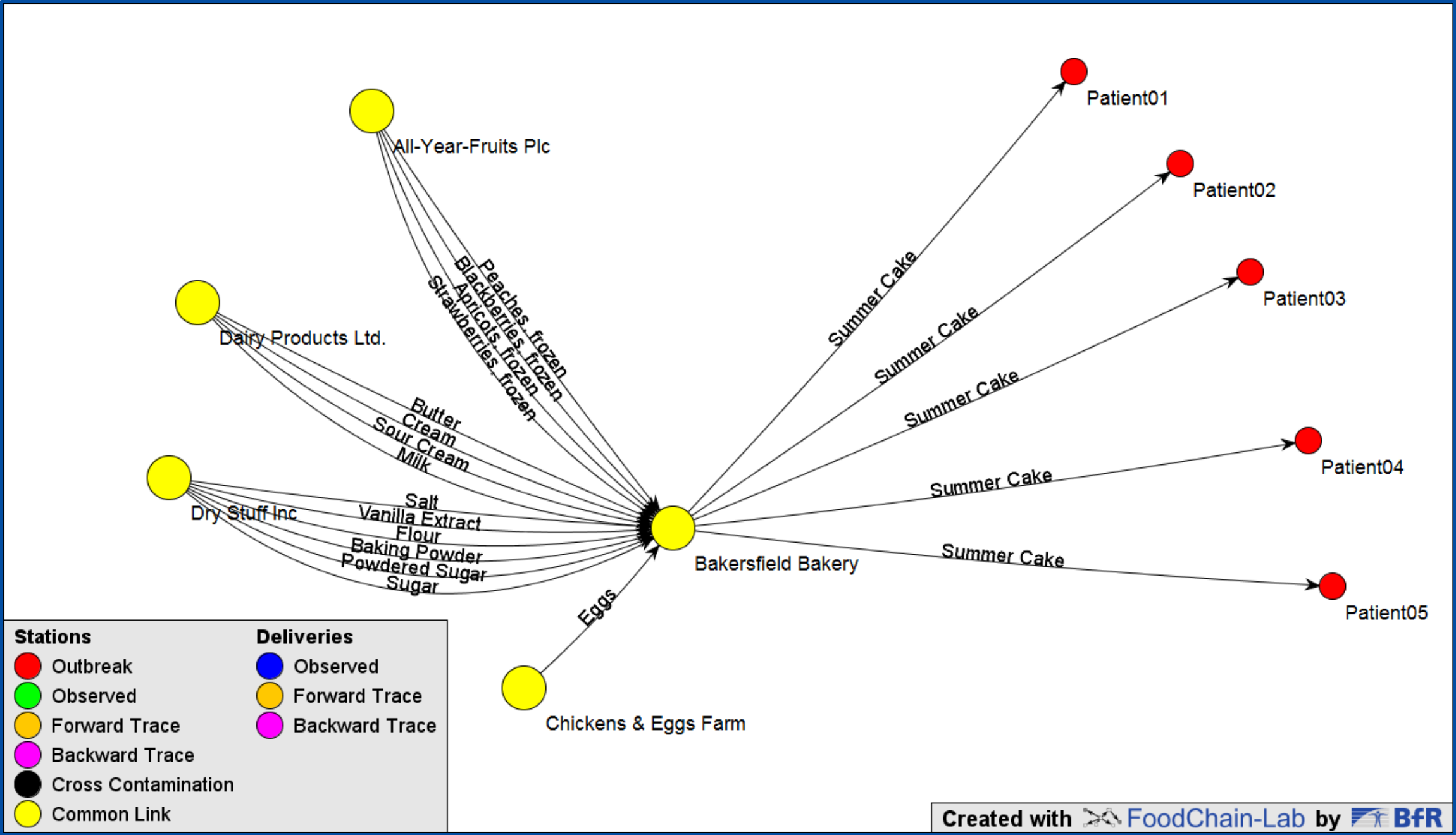
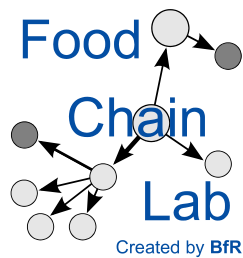
The pre-filled backtracing template has been completed

Inquired Company:	Bakersfield Bakery			[Address]			DE		Manufacturer				
For questions please contact the FoodChain-Lab team via foodrisklabs@bfr.bund.de													
Outgoing Goods													
	Product		Lot Information		Delivery			Recipient				Comments	
	Name	EAN	Lot Number	Best Before Date or Use-by Date	Delivery Date			Amount (e.g. 45 kg)	Name	Address (e.g. Street, ZIP City)	Country		Type of Business
					Day	Month	Year						
	Summer Cake		SC01		6	11	2017	1 Piece	Patient01		DE	Patient	
	Summer Cake		SC02		6	11	2017	1 Piece	Patient02		DE	Patient	
	Summer Cake		SC03		6	11	2017	1 Piece	Patient03		DE	Patient	
	Summer Cake		SC04		6	11	2017	1 Piece	Patient04		DE	Patient	
	Summer Cake		SC05		6	11	2017	1 Piece	Patient05		DE	Patient	
Information to complete the sheet:													
Fill in outgoing goods which are already known (see grey fields above).													
Please keep track of the ingredients of all sent products - do it in a lot-based manner.													
In Column A starting with Line Number 22 please enter the line number of the outgoing good being the product of this ingredient. Afterwards, enter the ingredient information in columns B													
Please repeat the outgoing good as often as necessary in order to capture all its ingredients.													
Incoming Goods - lot-based Ingredient List													
Line Number or Lot Number from Outgoing Goods	Ingredient		Lot Information		Delivery			Supplier				Comments	
	Name	EAN	Lot Number	Best Before Date or Use-by Date	Delivery Date			Amount (e.g. 45 kg)	Name	Address (e.g. Street, ZIP City)	Country		Type of Business
					Day	Month	Year						
SC01	Butter		Bu100		3	11	2017	6,3 kg	Dairy Products Ltd.		DE	Supplier	
SC01	Sugar		Su200		1	11	2017	12,8 kg	Dry Stuff Inc		DE	Supplier	

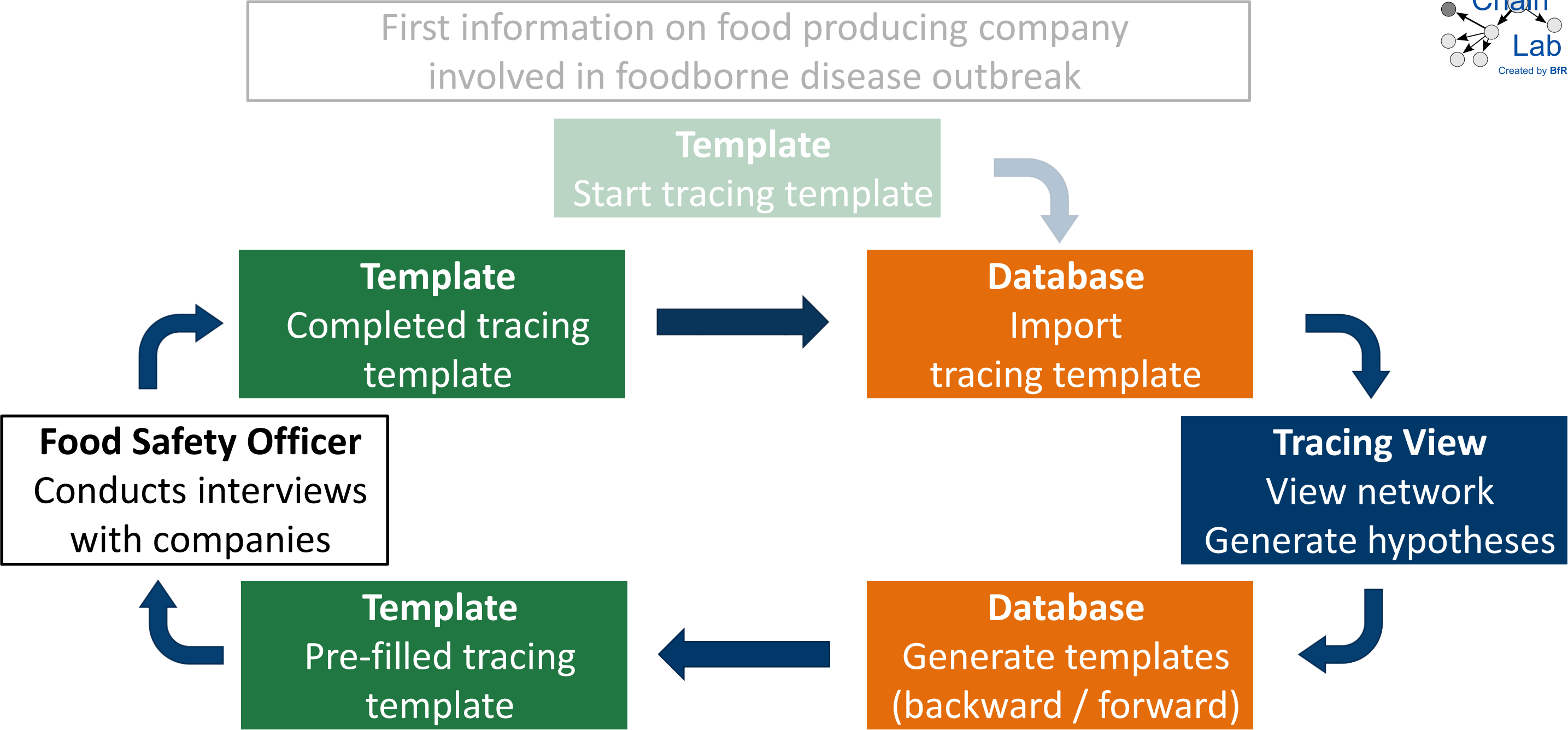
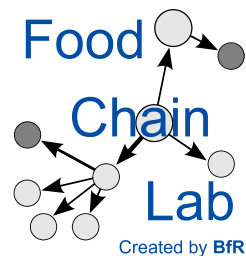
Outbreak: Tracing workflow using FoodChain-Lab Desktop IV



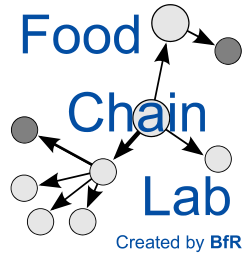
Tracing View: Bakery and patients



Outbreak: Tracing workflow using FoodChain-Lab Desktop V

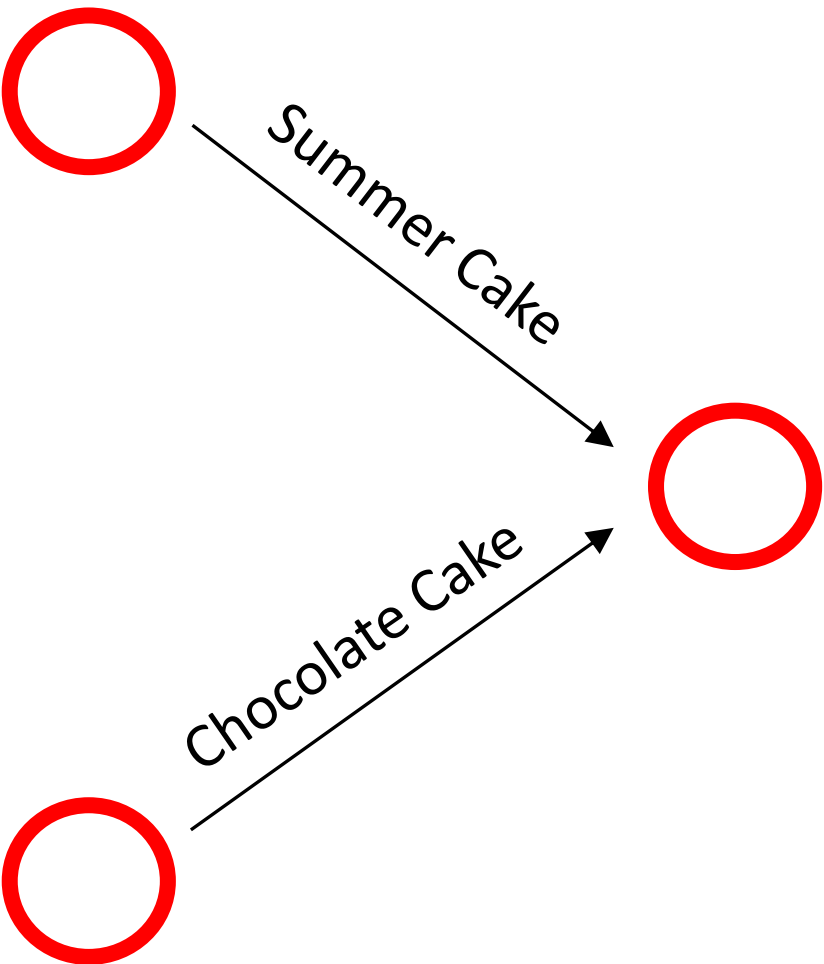


Database: Data Cleaning



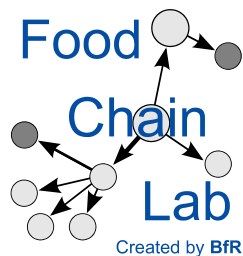
Bakersfield Bakery
Sesame Street 15
12345 Crumbling Hills
Germany

Bakersfield Bakery
See same Street 15
12345 Crumbling Hills
Germany

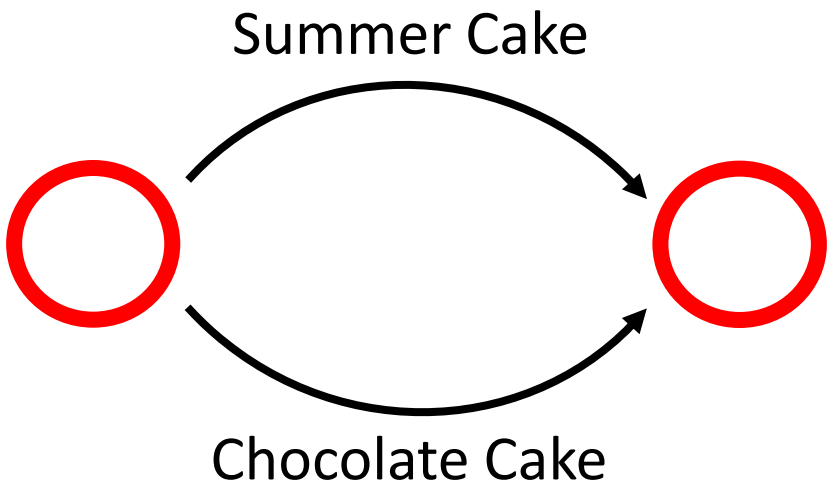


Luxury Hotel
Hilltop 1
12234 Pompous Hills
Germany

Database: Data Cleaning

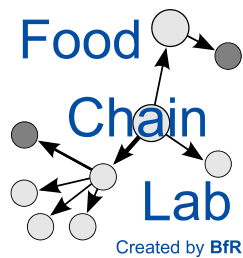


Bakersfield Bakery
Sesame Street 15
12345 Crumbling Hills
Germany

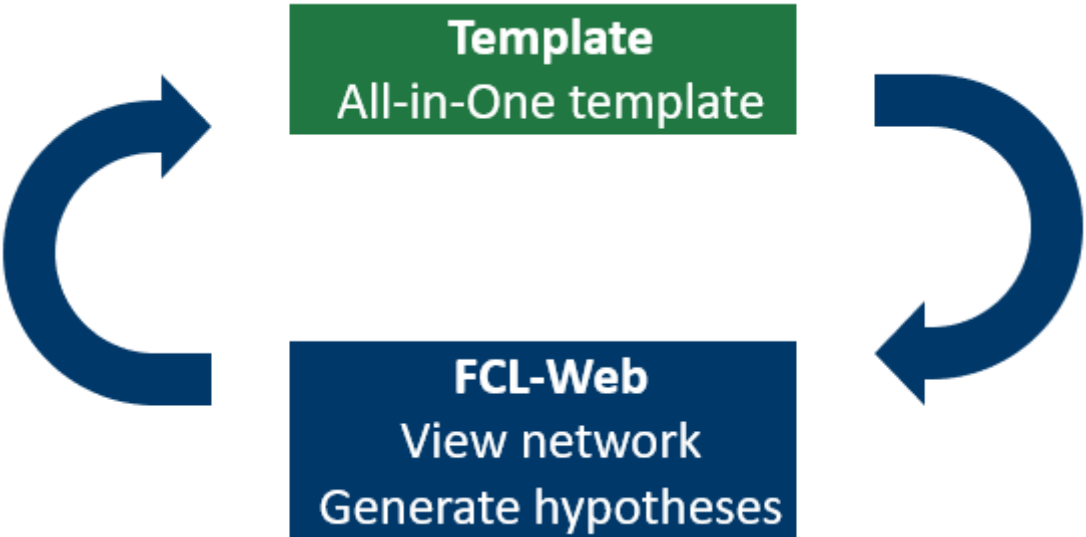


Luxury Hotel
Hilltop 1
12234 Pompous Hills
Germany

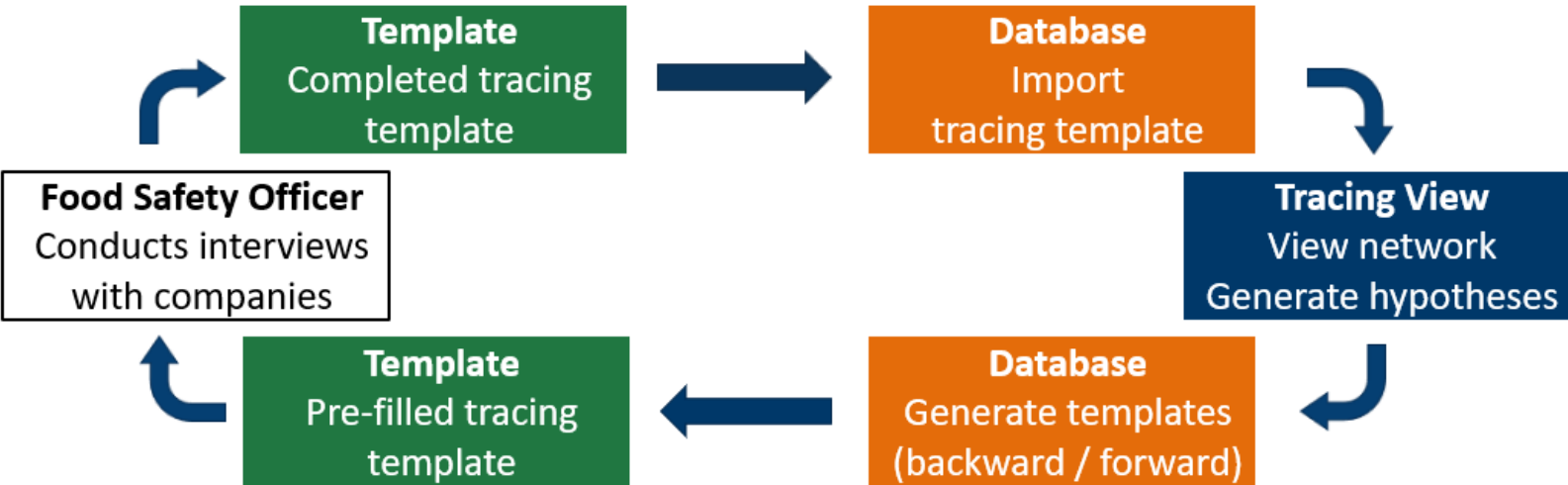
Data collection in FCL Web and FCL Desktop



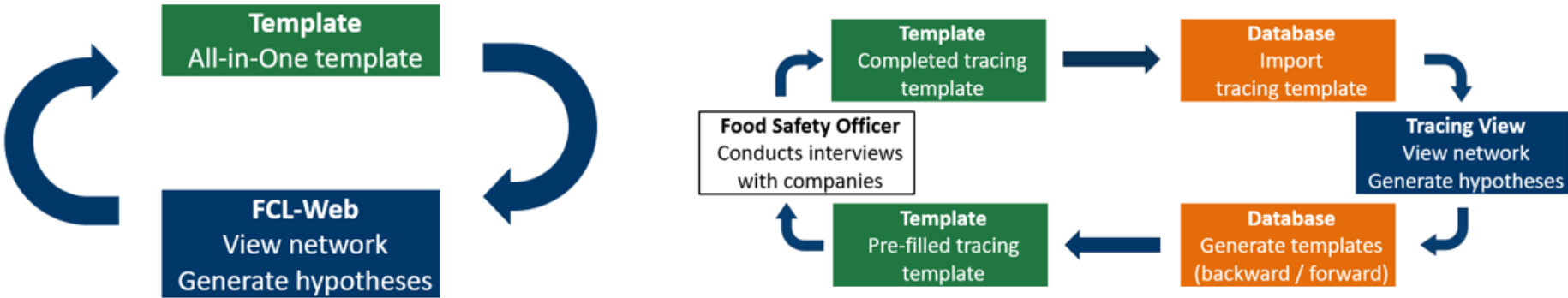
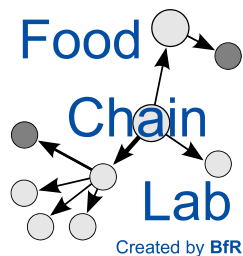
FCL Web



FCL Desktop



Data collection in FCL Web and FCL Desktop



	All-in-One (AiO) template	(Start) tracing forward/backward templates
Use in	FCL Web, FCL Desktop	FCL Desktop
Data strategy	Fill a single AiO template and upload; edit later if necessary and upload again; use as "database"	Fill one tracing template per company, import as many templates into the database as necessary; supply chain grows step by step
Data collection	Centralised	Distributed
Recommended number of users	One person	One, a few or many; distribute work among food safety officers

Alexander Falenski

German Federal Institute for Risk Assessment
bfr.bund.de/en


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