Use Case	Reduction of food waste through consumer profiles		14
Context	As soon as a customer consumes a prepared dish, the system shall acquire the quantity and nutrients consumed in order to be able to determine the amount and nutritional components of future meals in a personalized way.		
Domain	Food & Nutrition	*Business Value*	Personalization ☒ Acquisition ☒ Communication ☒ Optimization ☒ Control ☐ Analysis ☒

Description		
Stakeholders & Interests	*Stakeholder*	*Interests*
	Kitchen staff	Minimization of workload or adjustment of the production quantity
	Manager of the kitchen	Adaptation of meal quantities to consumers; reduction of food waste
	Customer	Satisfy hunger; adhere to nutritional guidelines
	Nutritionist	Receive nutritional information from patient
Required Data	Order information Image data of dish/plate served Image data of dish/plate after consumption by customer Unique identifier of customer	
Current Conditions	Especially in the hospital environment, a waste rate of 6% to 65% per meal served can be expected. An additional driver is the incorrect serving of meals due to the need to comply with nutritional information. There is no example of how this problem is currently being solved.	

Procedure		
Trigger	The preparation of a desired dish is complete and ready to serve.	
Use Case Procedure	*Step*	*Activity*
	1. Capture ready-to-serve dish	An AI records the dish to be served.
	2. Serving the dish	The dish is served to the customer.
	3. Capture consumed dish	An AI records the dish to be consumed.
	4. Analysis and extraction	Nutritional information and the amount consumed are extracted.
	5. Transmission of information	The recorded information is sent to the kitchen, the customer, and the nutritionist.
	6. Gaining knowledge and optimization	The information is used to derive findings and optimize the dish if necessary.
Use Case Anomalies	*Step*	*Activity*
	No information provided.	
Final State	The quantity and nutritional components of future meals are recorded.	

Overlaps						
Domain 2	Preparation	*Business Value*	Personalization Communication Control	☐ ☐ ☐	Acquisition Optimization Analysis	☐ ☒ ☐
Sum of Business Values total (incl. title domain, header)			Personalization Communication Control	1 1 0	Acquisition Optimization Analysis	1 2 1