

7: For Farmers

Functional Requirements

ID	Requirements	Comment
1	<u>Environmental Information</u>	
1.1.0	Water level	
1.1.1	System displays real-time water level/depth	
1.1.2	System alerts users when water level is lower/higher than certain level	
1.1.3	System calculates and displays predicted water level for next several weeks	
1.1.4	System alerts users when predicted water level/depth is lower/higher than certain level	
2	<u>Operational management</u>	
2.1.0	Operational plan	
2.1.1	System allows users to create and save unloading plan	
2.1.2	System allows users to modify/adjust the unloading plan	
2.1.3	System allows users to view the unloading plan	
2.1.4	System provides vessel arrival time, cargo status, and estimated time of completion	
2.2.0	Ship information	
2.2.1	System displays an overview of available ships and its information (Possible load capacity, emission, etc.) per route	
2.3.0	Facilities management	
2.3.1	System displays status operations of port infrastructure on the Twente Canal	
2.3.2	System displays information on the number, size, and location of unloading platforms along the ports	

2.4.0	Cargo management	
2.4.1	System indicates which cargo requires specific inspection before loading and unloading	
3	<i>Data sharing & Collaboration</i>	
3.1.0	Communication channel	
3.1.1	System provides communication channel between shipowner and factory to coordinate unloading time	