2: Riwald Recycling

Functional Requirements

ID	Requirements	Comment
1	***Environmental Information***	
1.1.0	**Water level**	
1.1.1	System displays real-time water level	
1.1.2	System alerts users when water level is lower 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 is lower than certain level	
1.1.5	Systems allow users to set alarm actions to be activated under specific conditions	Such as alerts when water level lower than X meter
1.2.0	**Weather information**	
1.2.1	System alerts users when adverse weather are predicted/observed	
2	***Operational management***	
2.1.0	**Ship information**	
2.1.1	System displays an overview of available ships and its information (engine specifications/emissions information, etc.)	
2.1.2	System displays an overview of available ships per route and its information (engine specifications/emissions information, etc.)	
2.1.3	System alerts users when recreational activities are scheduled on the canal	
2.1.4	System displays real-time information of vessel location, loading capacity and availability	
3	***Storage management***	
3.1	System allows users to manage inventory	

	information for their warehouses	
4	***Data sharing & Collaboration***	
4.1.0	**Communication channel**	
4.1.1	System provides communication channel for inter-organizational communication	
4.1.2	System provides communication channels for sharing information regarding recreational activities on the waterways	