**The dreamer - develop an inspiring vision:**

**• What do we really want?**

-all the citizens in Wilhemsburg have access to information about the ferry

-buy new ferries and employees

- Ferry´s that can alter the waterlevel, so that the ferry can allways operate at any given time. This generates more revenue which will be used for the captain´s salary and for the Ferry´s repairs.

- Flying People across

• **How would an ideal solution look like?**

- Accurate and Early Information about the ferry

- track the ferries with gps; record working time of employees → better informations

- webpage that is more relaible, which uses data from diffrenent sources(watterlevel sensor, twitter api, hvv api….)

-build a sign at the docks, which gives infos about the ferry´s

-crowed founding method to pay for the repairs

**• What are the benefits of the solution?**

-lcd display on the dock with informations

**-** No more waiting People for the ferry that doesnt come

- raise awareness for the s bahn; better public transportation in Wilhemsburg to the S Bahn Station

**• What if we had no monetary/time constraints?**

-Then we could buy the subcompany that owns the

ferry and invest way more money in digitalization and the ferrys itself

- No time Problems because of perfect humans

**• What other crazy idea jumps in our mind?**

- The Ferry does not need a captain because its all automated

- Ferry with changing roof height

- Autonomous Ferry

- Ferry which is also a submarine -> get under bridge no matter the water level

- Party Boat

- Everyone in range of (x) km gets mobile notification when the ferry is there

- Everyone in range of (x) km gets mobile notification when the ferry is not operating

**The realist - converting ideas into an action plan:**

**• What do we need to implement the ideas?**

**-**We need to get access to the informations for the water

level; make an app or website that actually is good

- crowd funding and marketing; raise political awareness

**• What should be discussed and be done?**

We need to discuss which sensors we want to use

**• What is the best sequence of action?**

-Discussing / Planning / Testing

**• On what can we already build?**

- We have much Knowledge about IoT, RasPi, Arduinos, MQTT, NodeRed…

- only exemplary possible; missing arduino hardware (gps sensor)

**The questioner - evaluate and challenge ideas/plans:**

**• What is really possible?**

- Due to the time limit i think we can only prototype the Solution

- marketing maybe too expensive, the rest is possible

**• What is hampering us from do it?**

**-** Time Limit and Ressource Problems (Missing Sensors)

- No technologie for a Ferry that can alter the waterlevel

- not enough revenue to pay the captains more money and repair the brooken ferry´s

**• What is missing?**

-GPS Tracker Sensor

**-** Money

**• What are weak points and how can we cope with them?"**

-The Weak Point is that we cant do much to solve the actual problem

- getting informations, how? Do it ourselves could be not that easy