

IRI THESys Lunch Talk 17 Jan 2020



Trapped between barriers OR Flowing despite barriers? Nadine Schröder & Nikhil Chaudhary Lunch Talk on a Scientific Comic

Nadine Schröder

PhD on: Polycentricity and the Implementation of the EU Water Framework Directive in Germany
Environmental Engineering B.Sc./ M.Sc.
Integrated Natural Resource Management M.Sc.

Nikhil Chaudary

Architect, Urban Planner, Artist Public Policy M.A.



I compare German Cases of local WFD implementation



Cases

- Per federal state: various WFD addressees to cover strong organizational variations within a state
- Focus on surface waters and hydromorphology and connectivity measures (in contrast to chemical water quality measures)

Data collection

- Policy documents and websites
- Participatory observation in participation/ coordination processes
- Semi-structured Interviews (overall 66, Ø 2h) e.g. in Hesse with:
 - Ministry (3), technical and scientific authority (1)
 - District Government (1)
 - Municipality (2 different)
 - lower water authority (1 + a short one)
 - Waste water association (1)
 - GFG Fortbildung GmbH (1) organizes water neighborhoods
 - Nature And Biodiversity Conservation Union Hesse (NABU) (1)
- What are the barriers for local WFD implementation?



Thoughts and experiments are illustrated here along the creation process of the comic

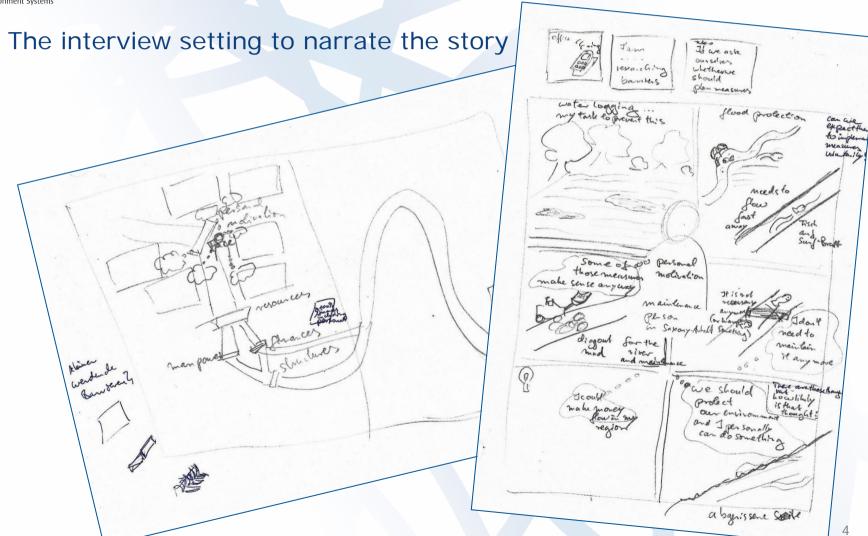


- The idea and initial drawing experiments
- Storytelling
- The audience
- Text vs. visualizations
- Experimenting with versions
- Steps from the idea to the final artwork
- Production process
- A communication instrument
- Comic Workshop by Nikhil (Jan 2019)
- 9 work meetings (April-Sep 2019) + 1 celebration meeting (Dec 2019) at various places
- ➤ Final artwork done with German translation (13 Nov 2019), afterwards start of production process for publishing



The idea was born at the IRI Comic workshop one year ago - 17 Jan 2019







I started with some drawing experiments on my own...



- ... and was happy that Anne wrote in February 2019 that the IRI organized funding for three scientific comic projects!
- I had no prior experiences with creating comics and the technical facilities for giving it a professional look.





I imagined the implementation barriers as a cascade already before the comic project



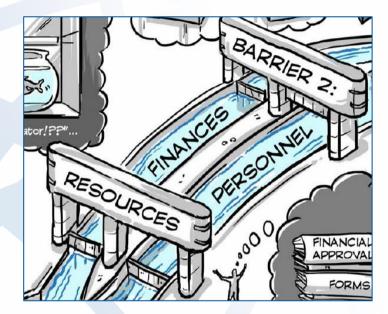




Barriers should look decreasing signalling their importance for decision-making











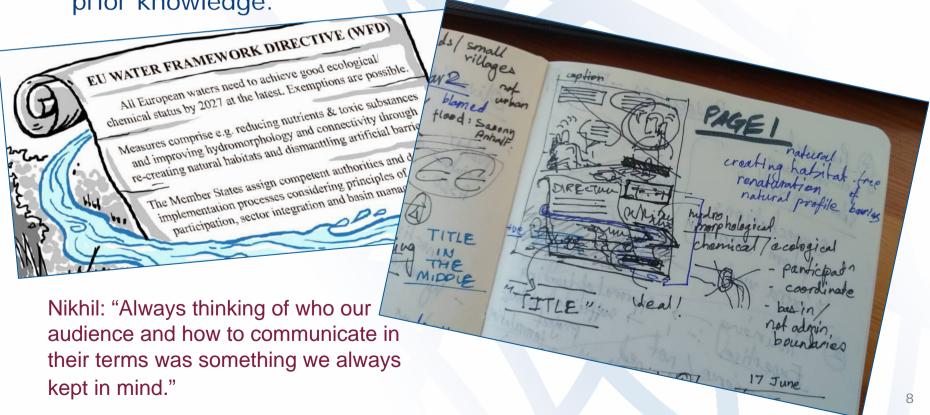
Who is the audience?



With page 1 we needed to discuss how much background information can be given with the comic itself...

... and how much we need to expect to reach out for readers with

prior knowledge.





Getting started with texting was not easy...



- Sequence of text production: page-plot and comic-script
- How to tell the story?
- Who can tell what? Overall insights vs. emotions and personal insights
- How does it sounds natural when the main character is ,speaking'?
- How to name the character? In German and English culture?
- A transcribed interview helped with examples!



Yes, this is Andreas* speaking.
Sure, I got your email. You research
the WFD implementation in Germany?
An interesting topic! Fire away
with your questions!

Hier Gleinig^{*}. Ja. ich habe Ihre eMail bekommen. Sie Forschen also zur WRRL-Umsetzung? Spannend! Fangen Sie einfach mal mit Ihren Fragen an!



... but later it was flowing from page to page



What is better described in text and what is better visualized?

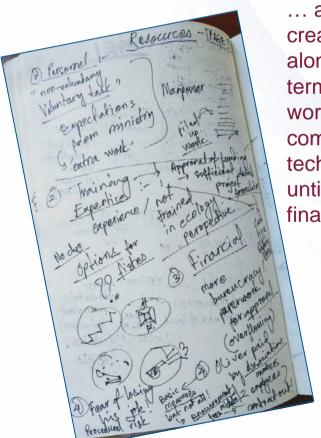




Especially abstract issues started with text before we found visual metaphors...

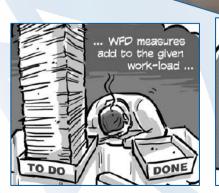


...know-how, lack of personnel, bureaucracy...



... and making creative decisions along the way in terms of what works best to communicate the technical matters - until arriving at the final form. ...





Cabel

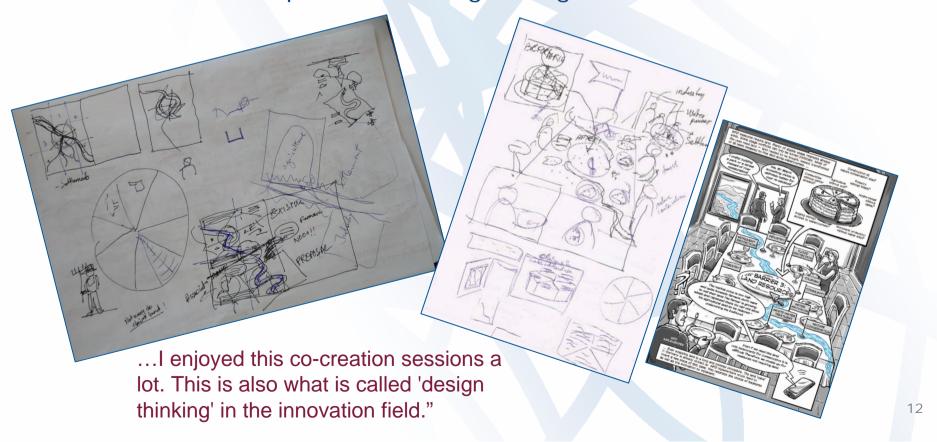




Experimenting with different visualization ideas was fun but also exhausting



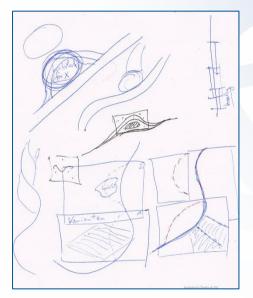
- ... from statistics to visualization:
- ... Cake diagram cake eaten up party with eating guests ...
- ... but how to keep a river flowing through a table?

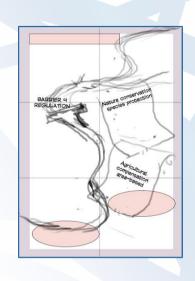


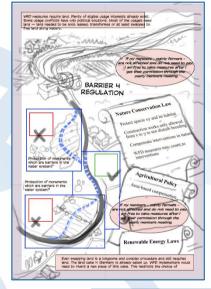


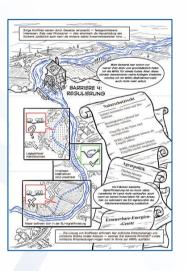
It takes several steps from idea generation and drafting to the artwork ...

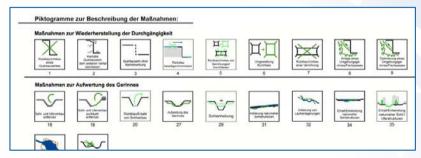














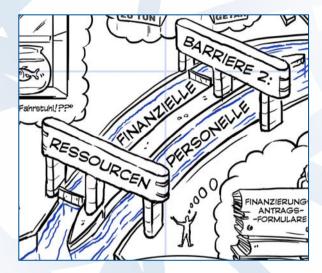
Nikhil: "There were phases when [Nadine] were more inclined to showcasing most information, whereas I was pulling the flow towards the narrative or 'story' side of things. We found a balance along the way."

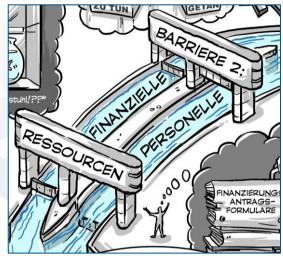


... followed by revisions and colouring the artwork

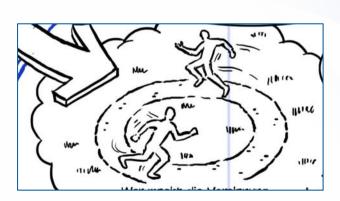




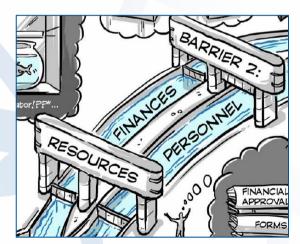




staying the expert in ,technical' details





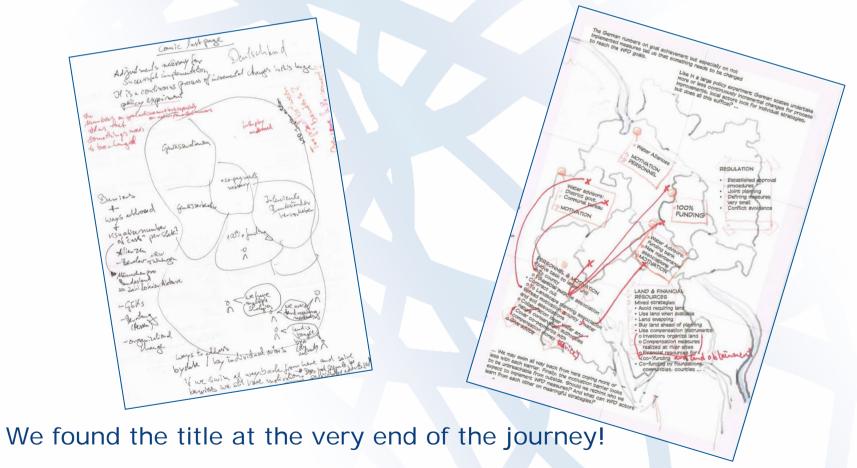




Finding a good end was very hard work...



... probably because the real life is similarly difficult





The production process is similar to but not the same as for a usual paper



- Preface (by Anne Dombrowski), Abstract and Acknowledgements like in a usual paper
- Proof-reading of all written parts of the publication(s) Thanks to Timothy Moss!
- CVs and (semi-)drawn portraits the authors behind the comic

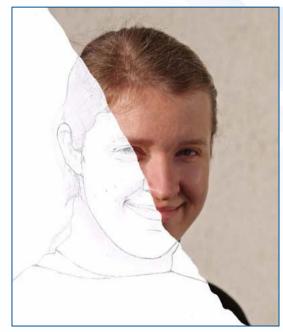


Photo by Andreas Renkewitz



Photo by Udayabhanu Prakash Vaddi



The comic IS a communication instrument already before publication



- Spontaneous idea to show the comic draft on a nature conservationist's forum on the WFD and to the interviewee
- For this: translation to German (tricky: expressions, text lengths)
- Easily possible to collect feedback before publication
- It generates interest and may be a door-opener for talks
- Can be read in short time as a basis for an in-depth talk
- Parts of it may be used for illustrating other presentations
- It is worthwhile to give this format a chance! I have learned a lot!

Nikhil: "Making it bilingual is a decision I supported (even if it required more work from my side), because then the piece is used to directly engage with the stakeholders (like [the] poster at the nature conservation event and even [the interviewee] wanting to show it to others. Would not have worked if it were 'English only'."



It is always good to have a nice and intelligent artist at the fingertips





Nikhil: "Both of us were on the same 'page', with visualisation skills. Helped a lot to graphically compose each page together. This may not have worked well if [Nadine] were a typical scientist not used to thinking visually:)"

Human-Environment Systems

despite

OR Flowing Chaudhary

Schröder,

Trapped

Discussion Paper No

Thank you!



Berlin zu Berlin, Humboldt-Universität Germany.

comic will be provided on: to

/sustainability

net/people/nadine-schroeder/ governance.

