



From fields to faucet

Appendix

Master Thesis - Appendix
MSc Architecture, Urbanism and Building Sciences-Track Urbanism
Faculty of Architecture and the Built Environment
Delft University of Technology

Title:
From fields to faucet
Sub title: Safeguarding groundwater quality used for drinking water in the rural areas of the
province of Utrecht with integrated solutions

Graduation Lab: Metropolitan Ecology of Places

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1. Interviews

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1.1 Interview questions - Vitens

Introduction

1. What is your role at Vitens, and what are your main responsibilities?
2. How long have you been working at Vitens?
3. What is your educational background, and where else have you worked?

Production and water quality

4. What challenges are currently emerging in the production of high-quality drinking water? What trends do you observe?
5. What are the current bottlenecks in producing high-quality drinking water? And what do you consider to be the greatest challenges?
6. How is Vitens responding to these issues and challenges, and what solutions fall within the company's sphere of influence? Are there also solutions beyond Vitens' influence?

Governance

7. What responsibilities does Vitens hold in ensuring water quality, and do you expect these to change over time? Who else shares this responsibility, and are there any joint responsibilities?
8. Considering current trends and challenges, what future outlook do you see as most likely? How does this differ from your preferred future scenario?
9. In your view, who are the key stakeholders for ensuring the most likely future scenario regarding drinking water quality in the province? And who are they for your preferred scenario?
10. Do you expect a change in the number or type of stakeholders involved in either the most likely or the preferred future scenario? Are responsibilities expected to shift?

Closing

11. Is there anything else you would like to share with me?
12. Do you have recommendations for other experts I should speak with on this topic?
13. Could you recommend any important sources, such as literature, videos, etc.?
14. May I contact you again in the future for a possible follow-up (likely in the form of a workshop)?
15. Would you like to be kept informed about the results of this research?
16. Do you have any questions for me?

1.2 Interview questions - waterboards and other

Introduction

1. What is your position at the water board/company, and what are your main responsibilities?
2. How long have you been working at the water board/company?
3. What is your educational background, and where else have you worked?

Agriculture and water quality

4. What trends do you observe in agriculture in the province of Utrecht, and how do these trends affect (drinking) water quality?
5. In your view, what is the desired future scenario for agriculture in the province, and does this differ from the provincial policy direction? And from the national policy direction? What indicates these differences?
6. What do you consider to be the current and future bottlenecks and challenges regarding agriculture and the preservation of water quality within your water board's jurisdiction? And in the province more broadly?
7. What solutions do you see for addressing these bottlenecks and challenges?

Urbanization and agriculture

7. What trends do you observe in urbanization and urban development choices in the province of Utrecht, and how do these affect agriculture and non-urban areas?
8. In your view, what is the desired future scenario for urbanization in the province, and does this differ from the provincial policy direction? What indicates these differences?
9. What do you consider to be the current and future bottlenecks and challenges related to urbanization and agriculture in the province?
10. What solutions do you see for addressing these bottlenecks and challenges?

Other factors and ideas water quality

11. Are there other external factors that influence water quality in the province, and could you identify them?
12. In your opinion, are there other opportunities to safeguard water quality beyond those already discussed?
13. Where do the responsibilities lie for taking these steps?

Balance water quality, agriculture and urbanization

14. In your view, what steps and considerations are necessary to achieve a balance between water quality, agriculture, and urbanization?
15. What do you consider to be the most difficult step or trade-off in this process?
16. What is needed to make this step or trade-off possible?

Governance

17. What responsibilities do you see for water boards in safeguarding water quality, and do you expect these responsibilities to change over time? Who else shares this responsibility, and are there any joint responsibilities?
18. In your view, who are the key stakeholders for enabling a transition toward your desired future scenario for the drinking water system in the province?
19. Do you expect different, fewer, or more stakeholders to be involved in this future scenario? Is there a shift in responsibilities?

Closing

11. Is there anything else you would like to share with me?
12. Do you have recommendations for other experts I should speak with on this topic?
13. Could you recommend any important sources, such as literature, videos, etc.?
14. May I contact you again in the future for a possible follow-up (likely in the form of a workshop)?
15. Would you like to be kept informed about the results of this research?
16. Do you have any questions for me?

1.3 Interview consent form

Toestemmingsformulier – kruis de juiste optie aan

Deelname aan interview

De student heeft de reden van het interview uitgelegd. Ik kon vragen stellen en deze zijn beantwoord. Ik had genoeg tijd om te beslissen over deelname.

Ja ☐ Nee ☐

Ik weet dat meedoen vrijwillig is en dat ik op elk moment mijn toestemming kan intrekken. Daarvoor hoef ik geen reden te geven aan de student.

Ja ☐ Nee ☐

Ik geef toestemming voor het opnemen van het interview d.m.v. een mobiele telefoon o.i.d. en uitschrijven van de opname voor het beantwoorden van de onderzoeksvraag in dit onderzoek.

Ja ☐ Nee ☐

Gebruik van de informatie in de studie

Ik begrijp dat de informatie die ik geef, gebruikt zal worden in de afstudeeropdracht van de student, die zal uitmonden in een rapport. Ik weet dat dit rapport onafhankelijke onderzoeksresultaten inhoudt, maar wordt geschreven in samenwerking met de provincie Utrecht.

Ja ☐ Nee ☐

Ik weet dat persoonlijke informatie, zoals mijn naam en contactgegevens, niet gevraagd worden, tenzij ik die verstrekt heb om een afspraak voor het interview te maken. Deze informatie wordt verder met niemand gedeeld.

Ja ☐ Nee ☐

Ik geef toestemming voor het anoniem citeren van mijn informatie in de rapportage die de student zal maken voor de afstudeeropdracht.

Ja ☐ Nee ☐

Ik weet dat de uitwerking van het interview naar mij wordt toegestuurd ter controle. Ik geef hier akkoord op, of ik geef op- of aanmerkingen voor een uitwerking waar ik akkoord mee ben.

Ja ☐ Nee ☐

Handtekening



2. Approach

2.1 Planning



2.1 Planning

Prepare
Problem definition
Conceptual and theoretical framework
Method and methodological framework

SQ1: Understand - How is the safeguarding of drinking water quality organized spatially and administratively in the province of Utrecht, and how has this evolved over time?

SQ2.: Understand - A. How and where do agriculture and urbanization impact water quality in the rural areas of the province of Utrecht, and what are the implications for drinking water quality?

SQ2.: Understand - B. Are there other (external) factors that influence water quality in the rural areas of the province of Utrecht, and what are the implications for drinking water quality?

SQ3: Identify - What spatial trends and policies exist for urbanization and agriculture in the province of Utrecht, and how do these affect rural areas and interact with each other?"

SQ4: Identify - What are the bottlenecks and challenges for safeguarding the drinking water quality in the rural areas of the province of Utrecht, looking at the trends, policies and influences of urbanization and agriculture on water quality?

SQ5: Explore - Which solutions could be used to safeguard the drinking water quality and which considerations are possible between agriculture, urbanization and water quality?

SQ6: Explore - Which future scenarios are possible to safeguard the drinking water quality in the rural landscapes in the province of Utrecht, where integrated solutions are used for water quality, agriculture and urbanization?

SQ7: Plan - Which development strategies, including relevant stakeholders, are possible and in line with the scenarios and which interventions fit within the relevant time context?

RQ. Complete - Conclusion, reflection and advice

