A Modeller's Compass

How Modellers Navigate Dozens of Decisions

Janneke Remmers

Rozemarijn ter Horst

Ryan Teuling

Lieke Melsen

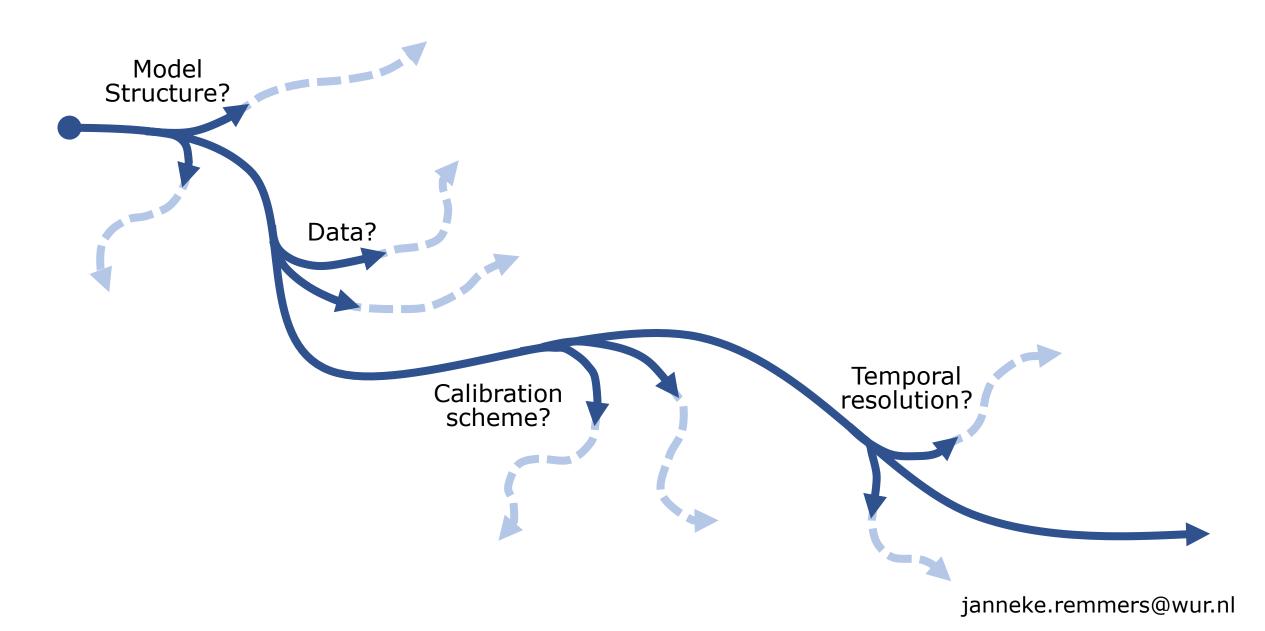




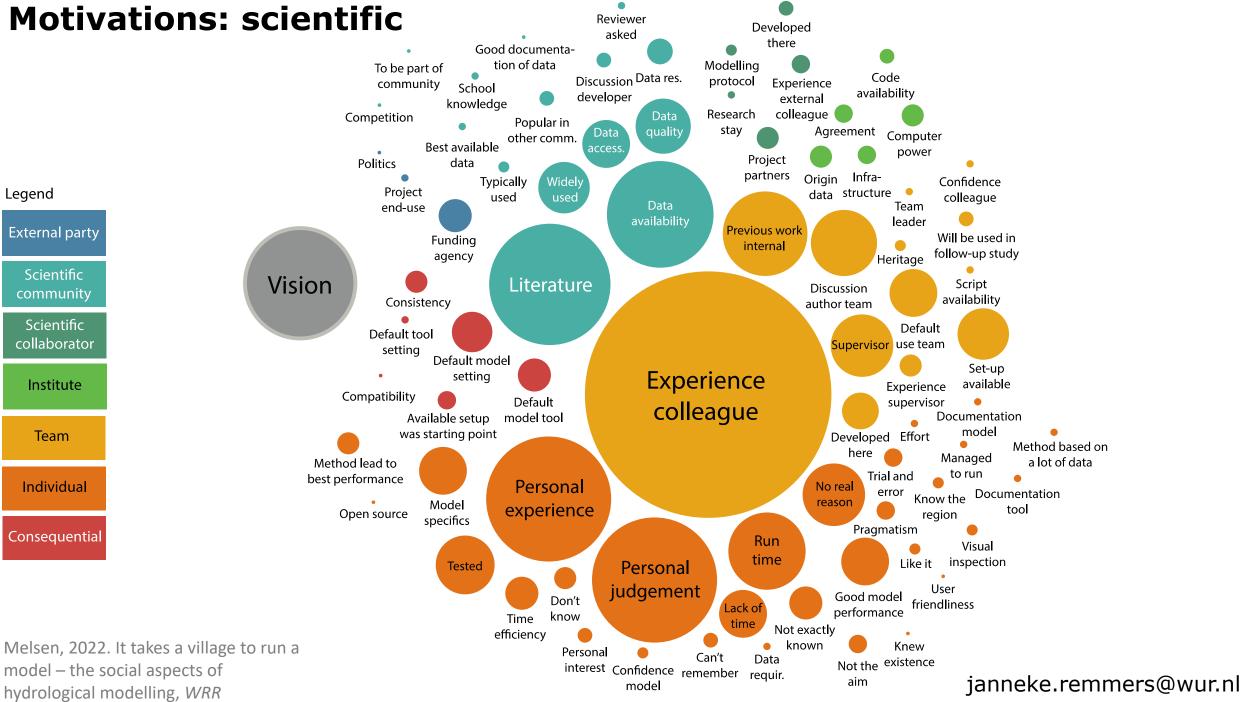
26-04-2023



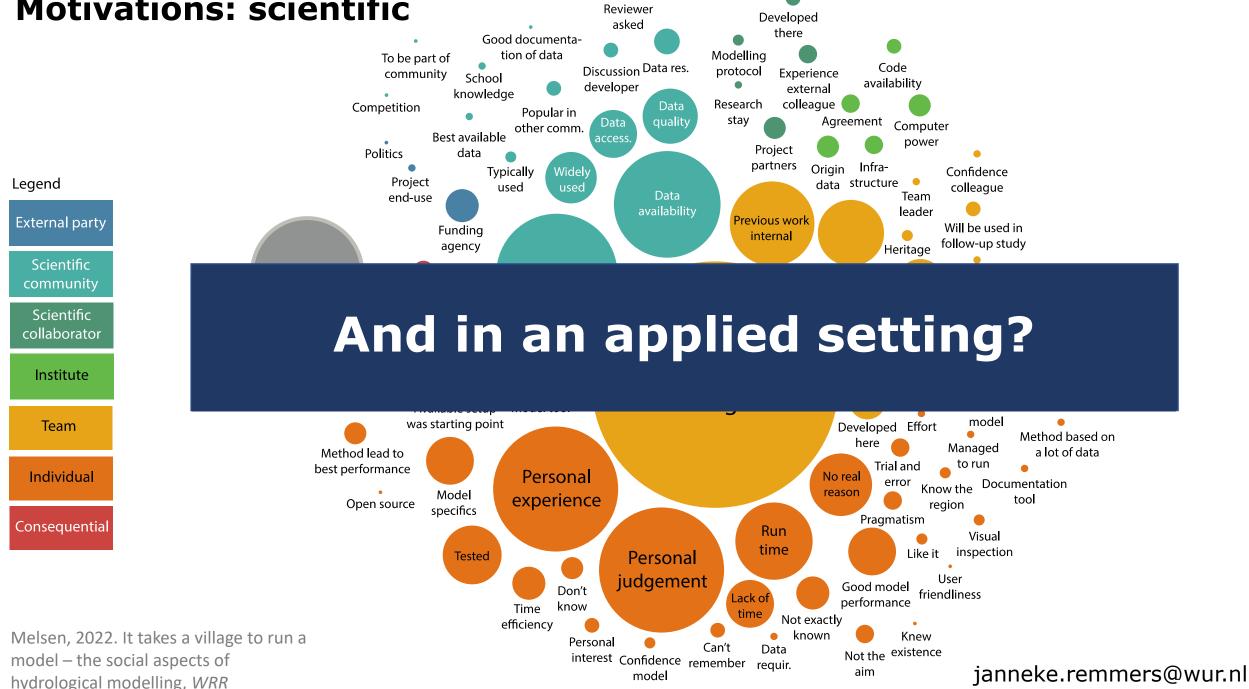
Modelling process: path dependency



Motivations: scientific



Motivations: scientific

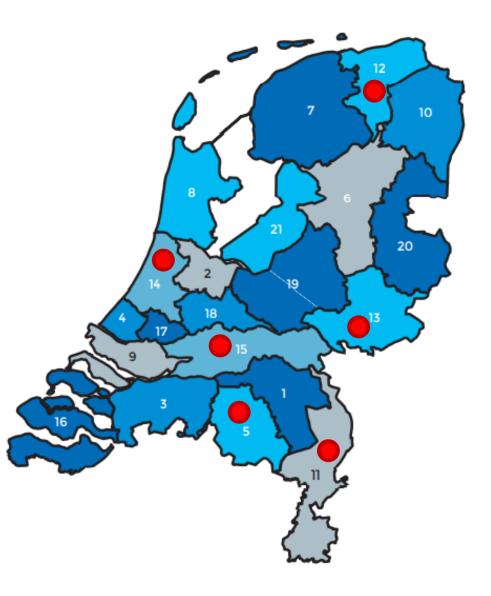


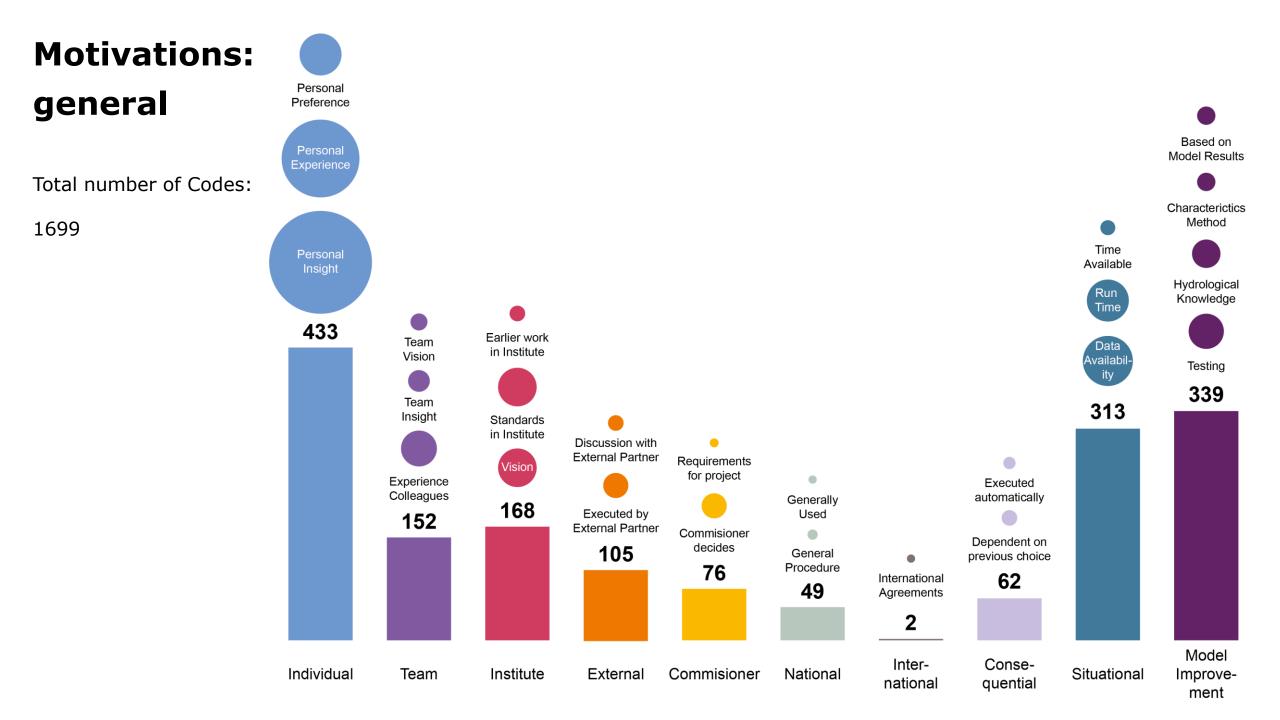
My study

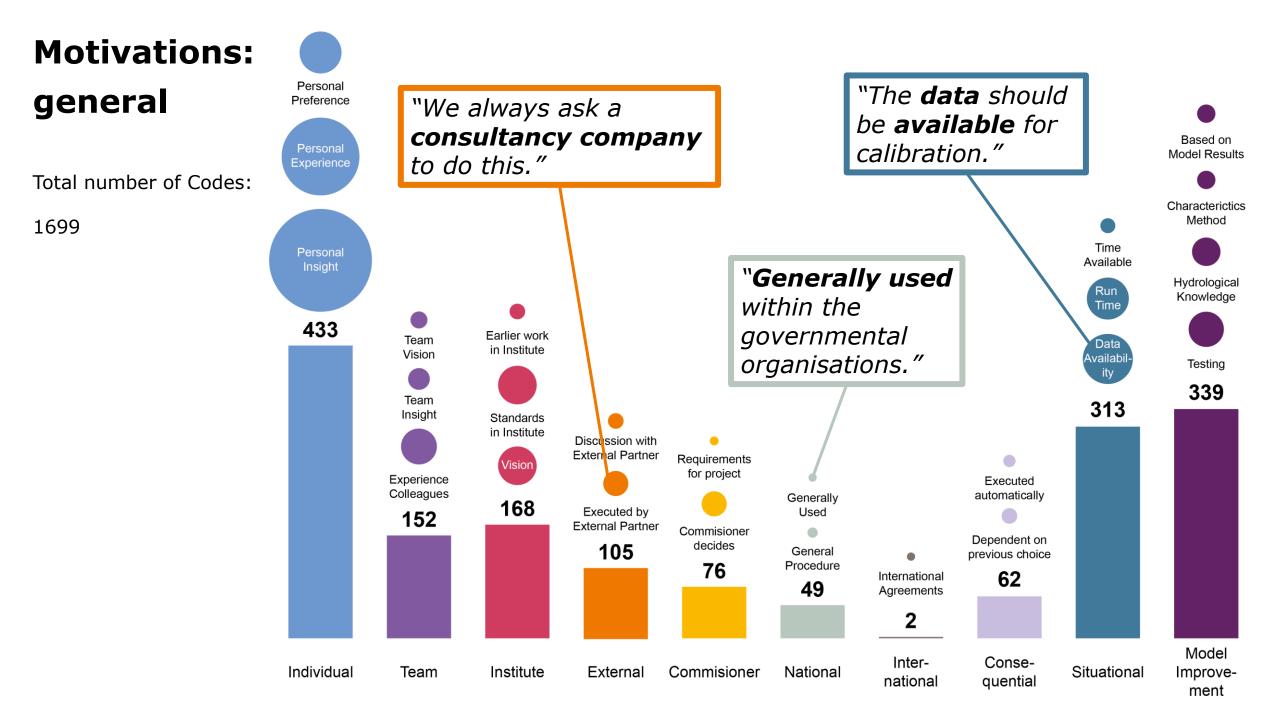


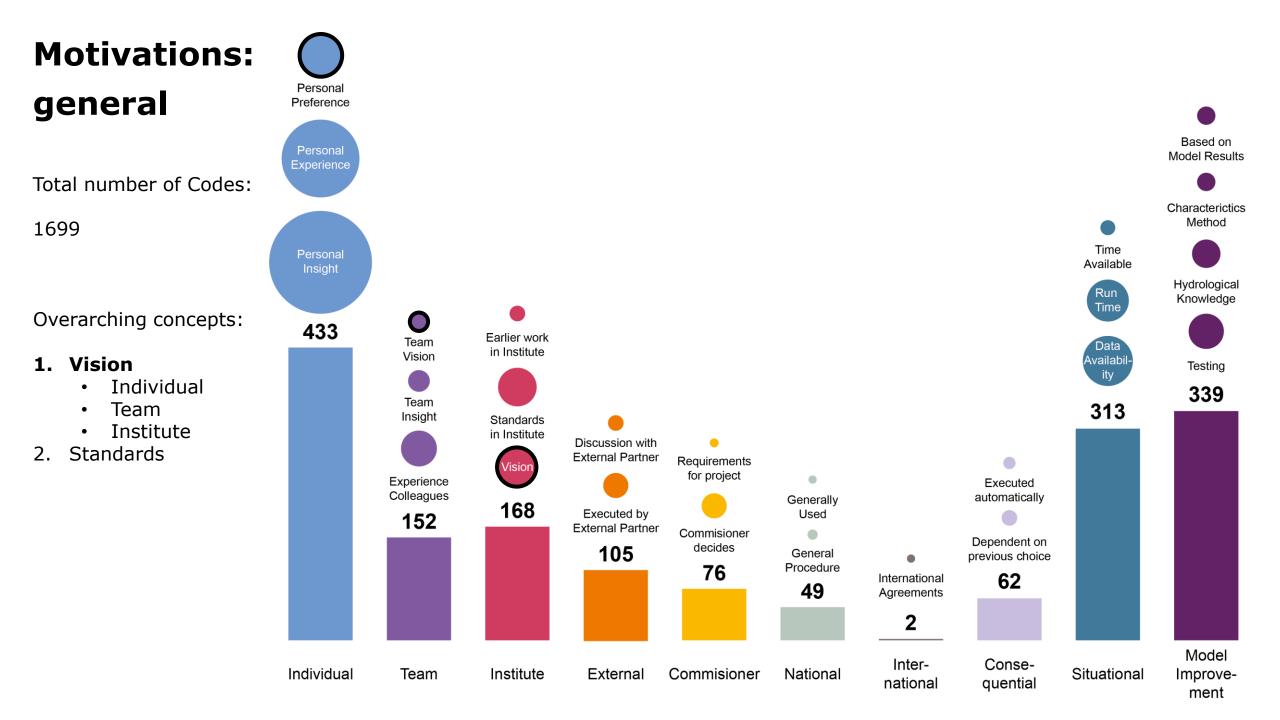
14 interviews ~ 1400 minutes ~ 350 pages

Inductive Content Analysis

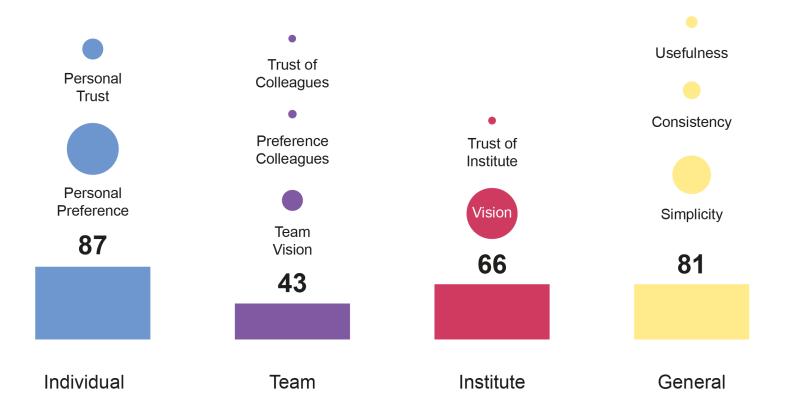




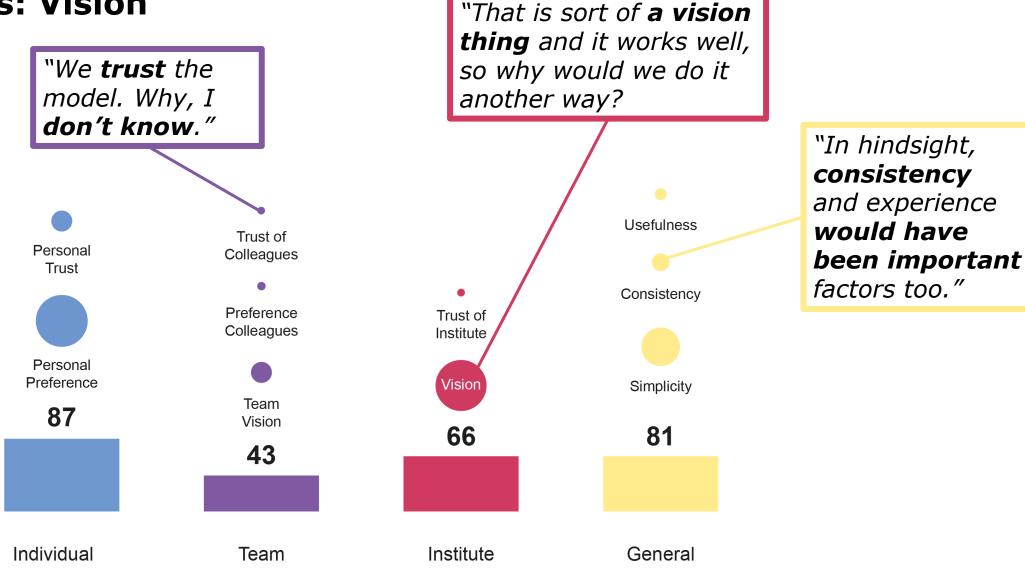


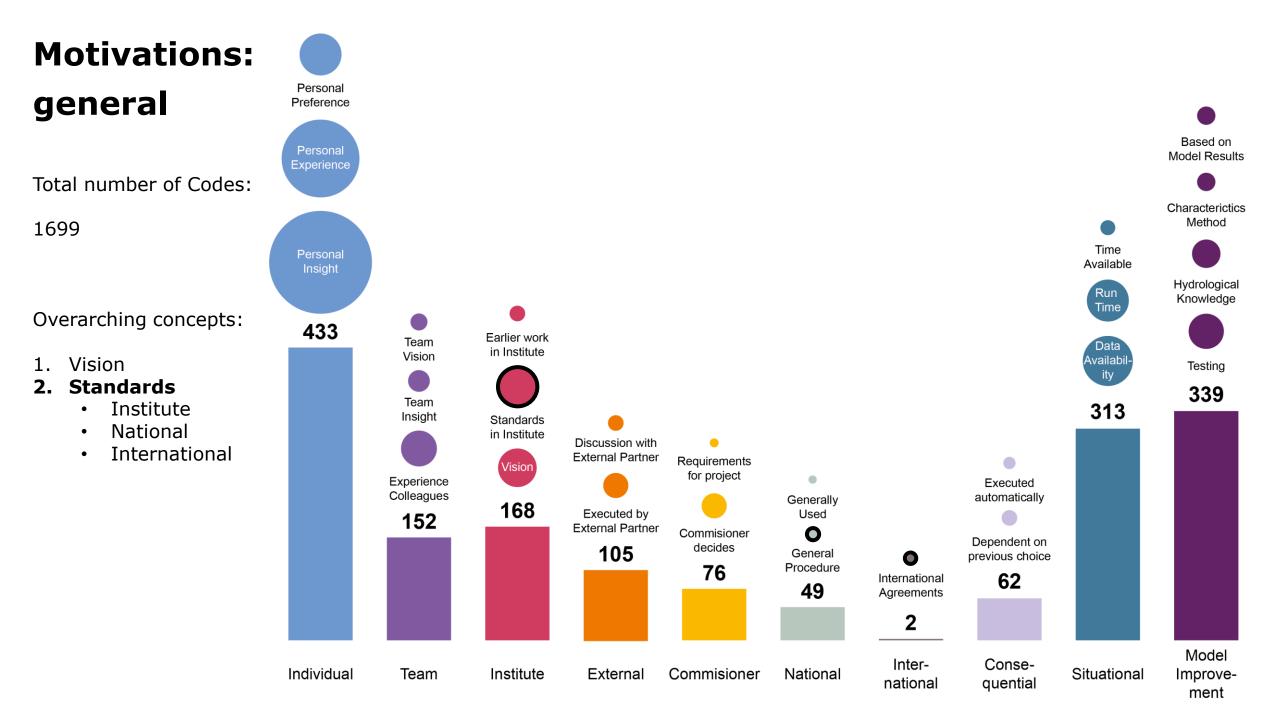


Motivations: Vision



Motivations: Vision





Motivations: Standards

Institute

Codes:

"Standards in institute"

"We mostly choose to run the model in **1D as a standard**."

National

Codes:

- "General procedure"
- "National laws/norms"
- "Nation-wide agreement"
- "Based on handbook"

"They have to adhere to certain **national norms**."

International

Codes:

• "International agreements"

Motivations: Standards

Institute

Codes:

"Standards in institute"

National

Codes:

- "General procedure"
- "National laws/norms"
- "Nation-wide agreement"
- "Based on handbook"

International

Codes:

• "International agreements"

Not mentioned in the following groups, but possibilities for standards too:



Good Modelling Practice?

Different approaches:



"Based on handbook"

Good Modelling Practice?

Different approaches:



Current/future research:

- Perception of GMP approaches in NL and Australia
- Automation case study NL

Thank you!

Any questions?

Feel free to reach out:



Motivations: Water Authorities & Consultancy Companies

Additional slide

