RESERARCH THROUGH DESIGN

• NL2120

Perspective of climate adaptation

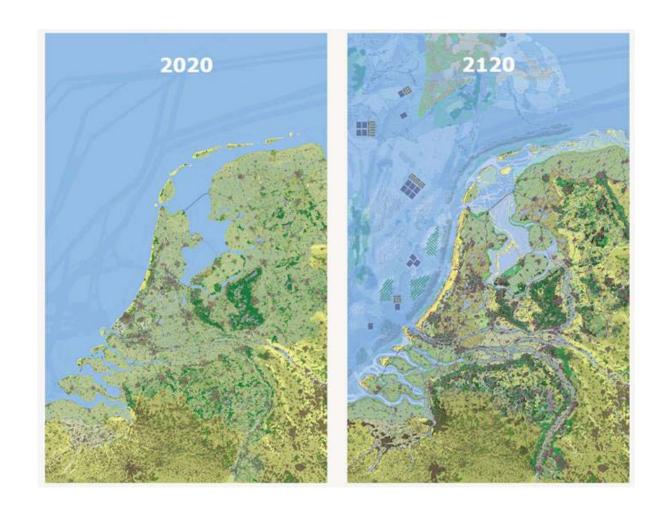
So deal with:

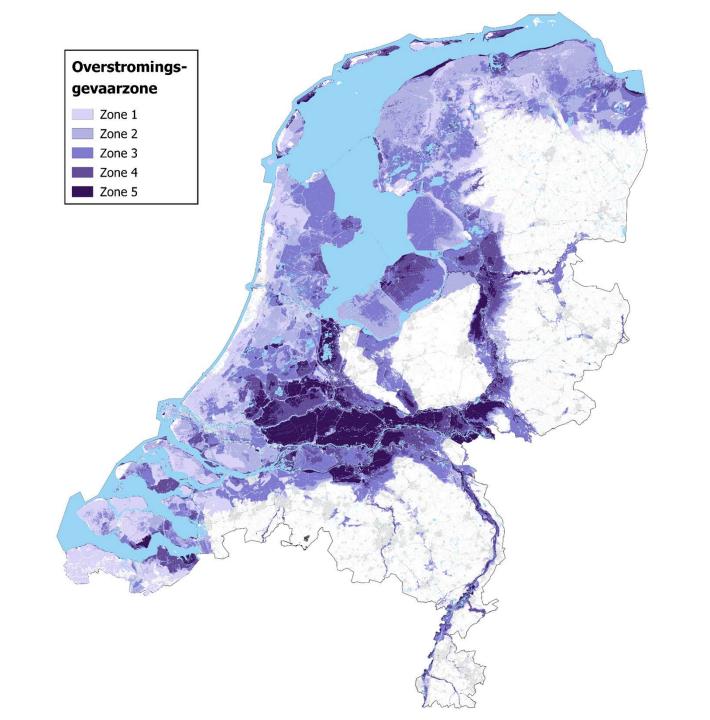
• Sea level: 1.5m higher

• River Rhine: rain river

• Urban temperature: 3 to 4

degrees higher

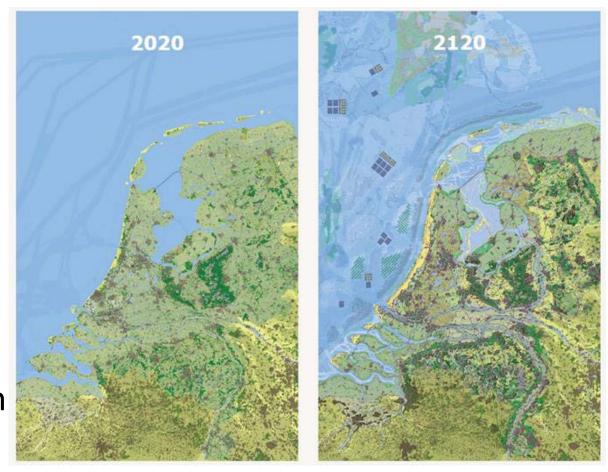




NL2120 scenario

- Positive
- Adaptive
- Inspiring
- Realistic

 Principle: follow the existing natural system

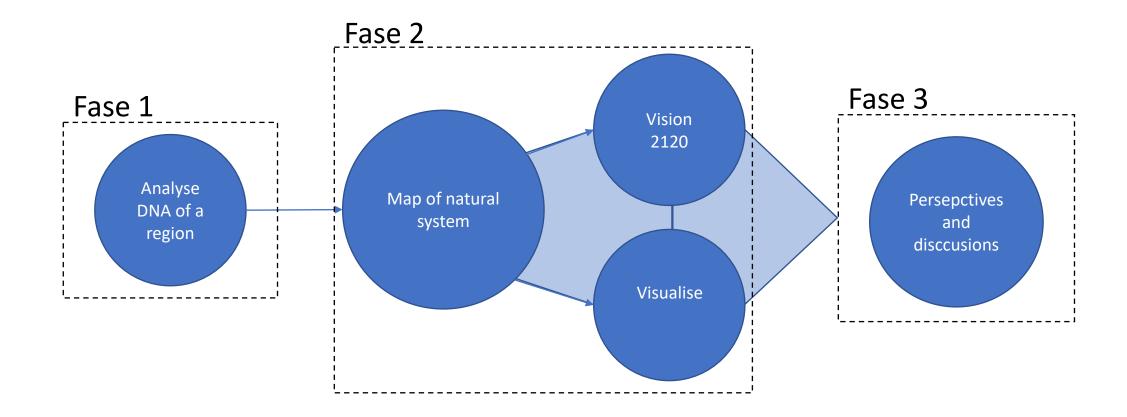


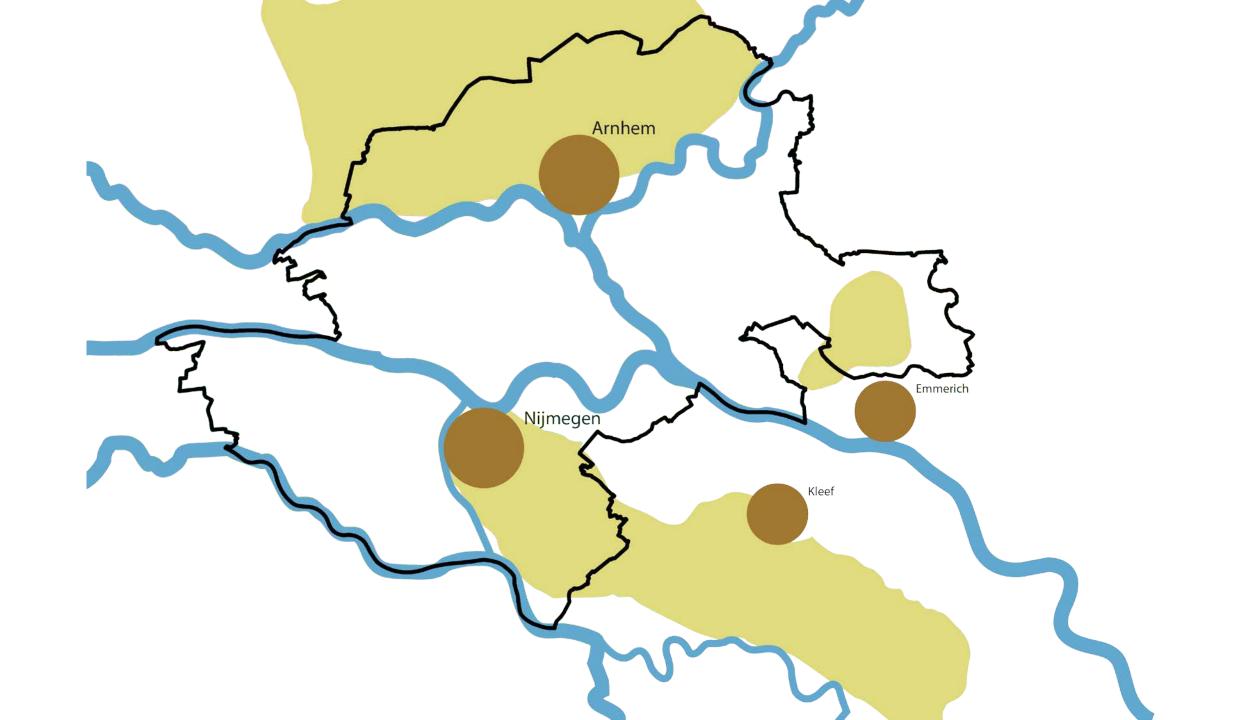
NL2120 scenario: Arnhem

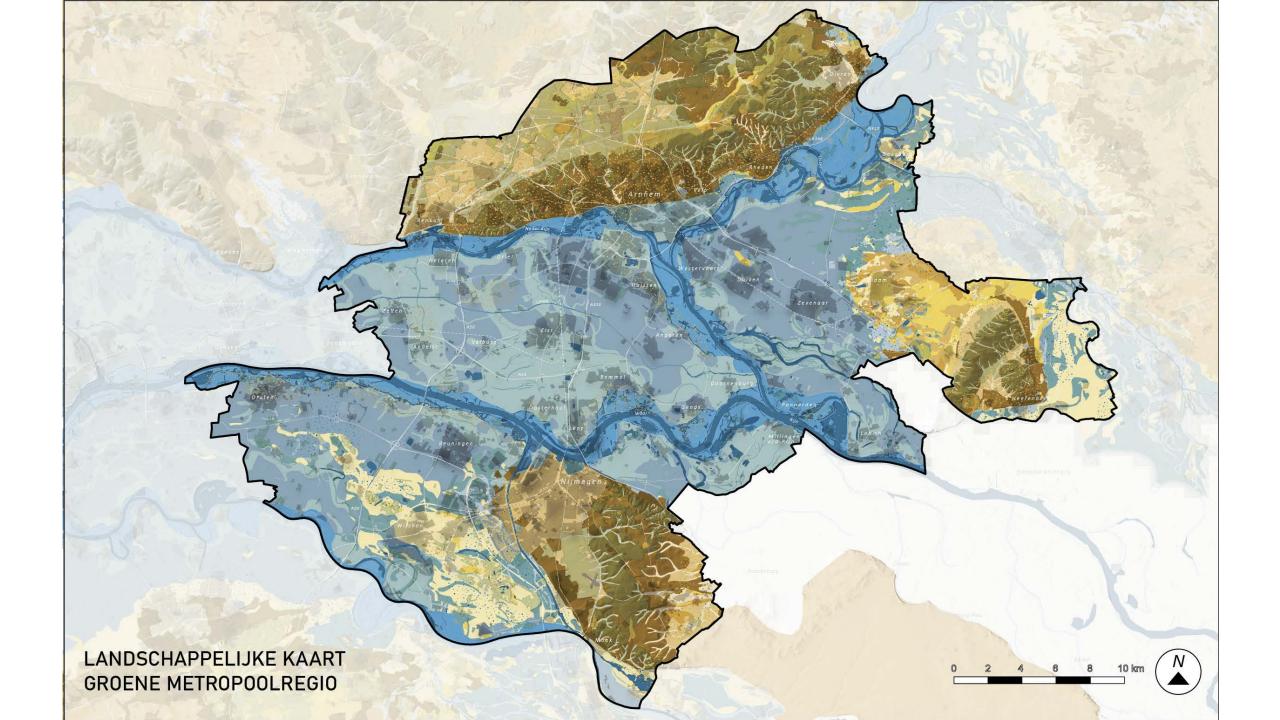
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Approach



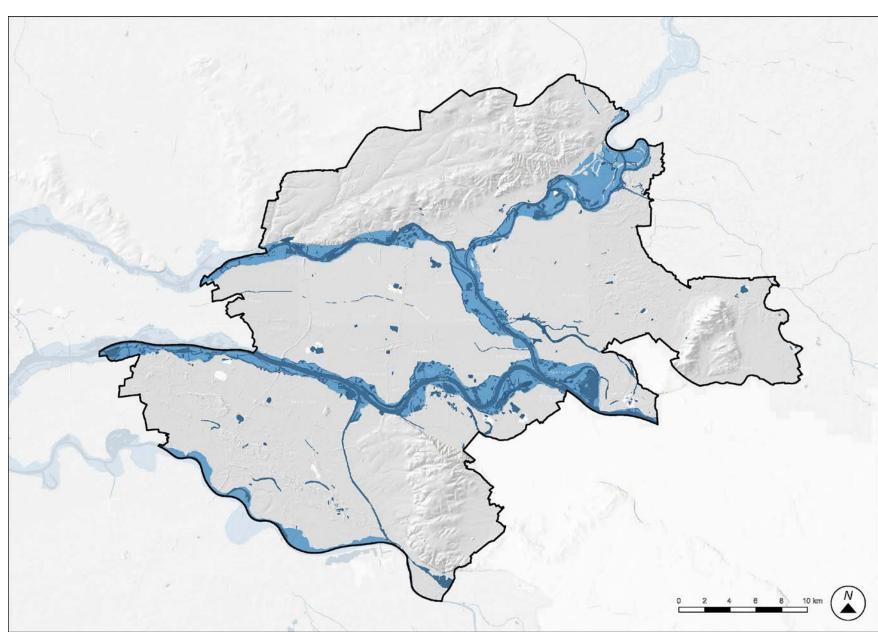




Select a future for the rivers





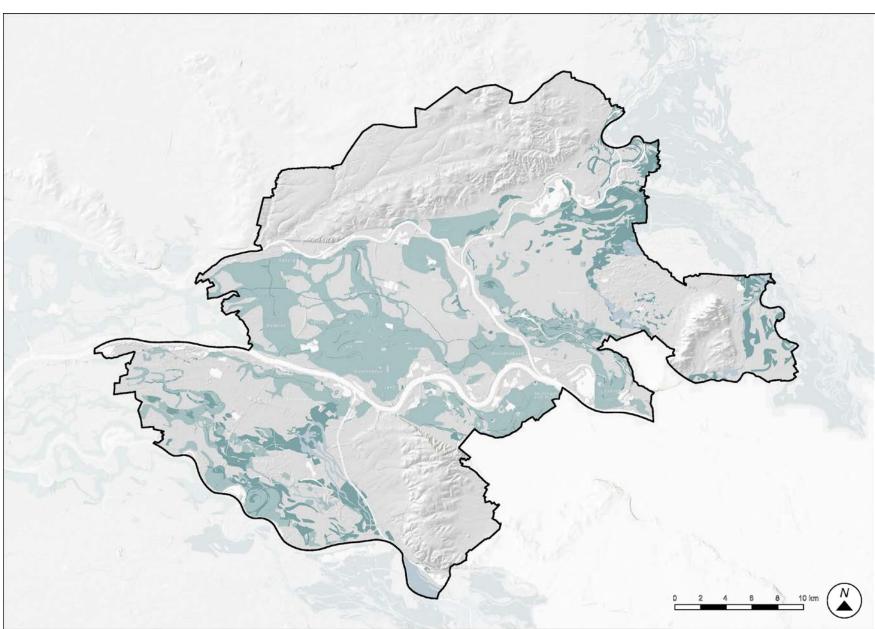


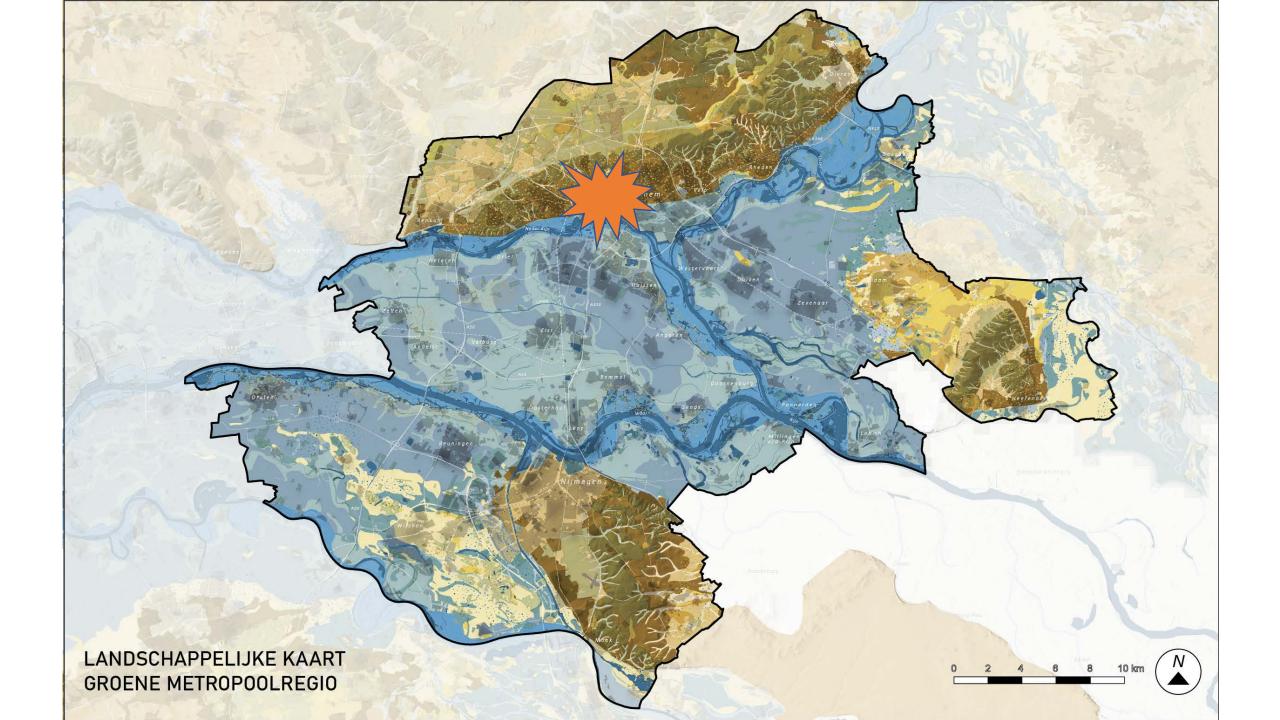


Best agricultural soils

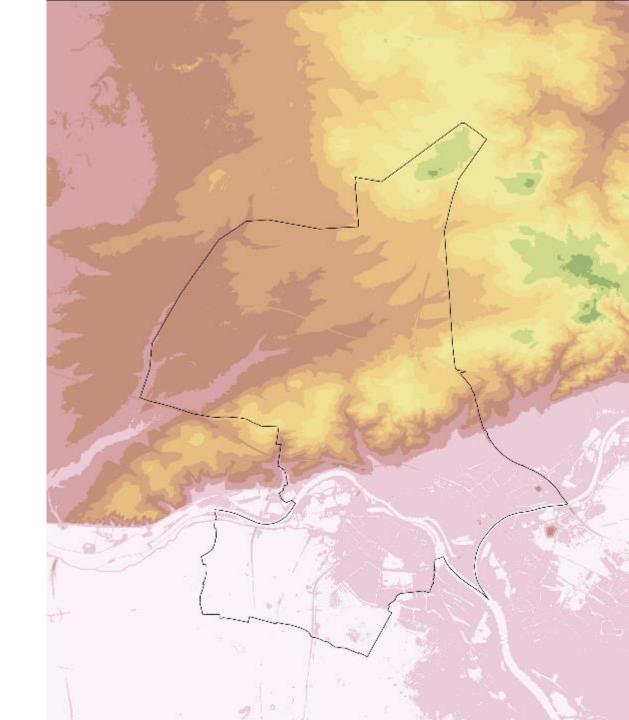


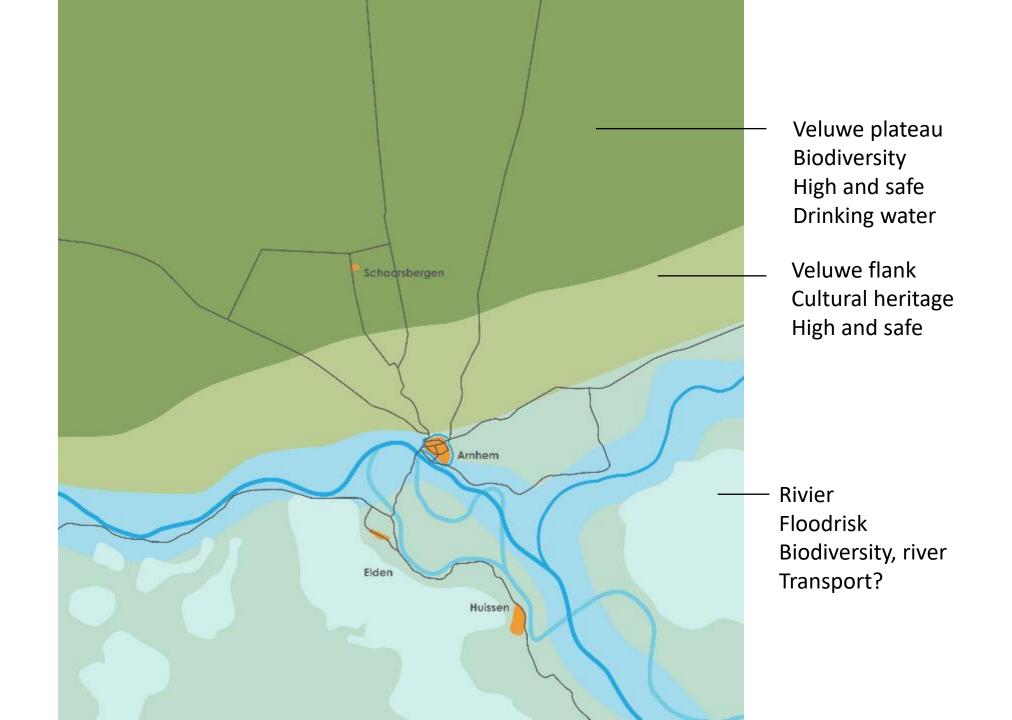


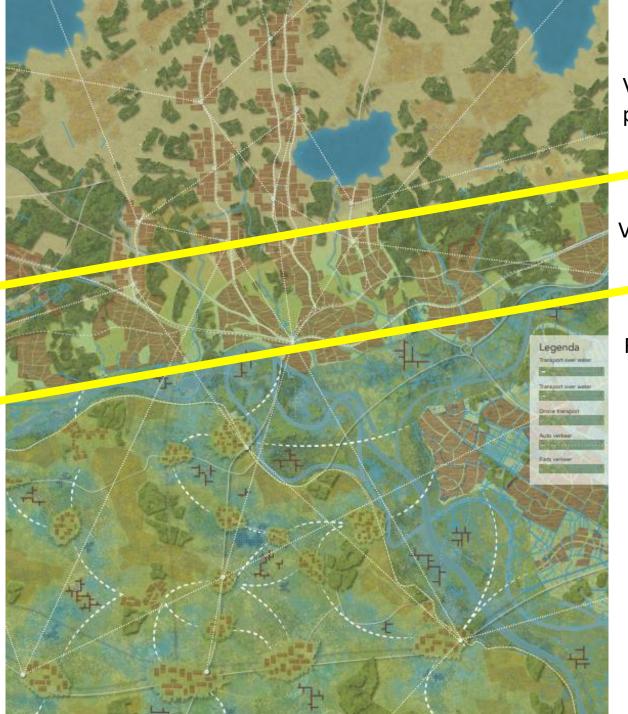




Case study Arnhem







Veluwe plateau, push moraine

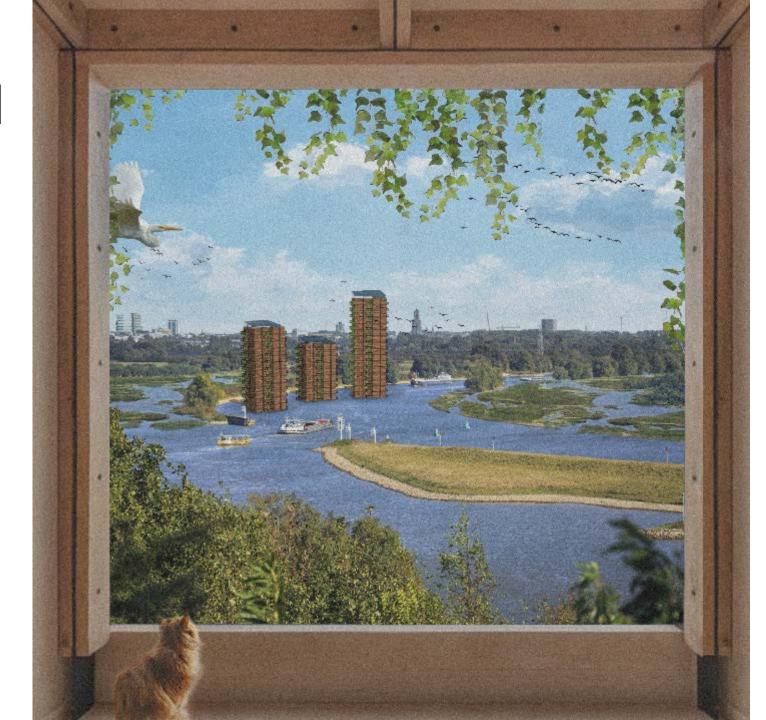
Veluwe fringe

River area

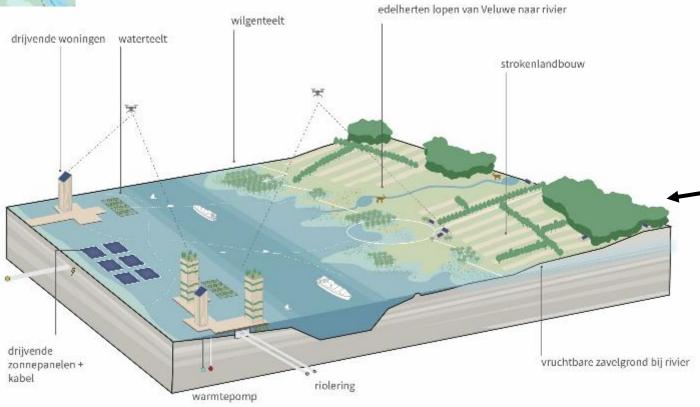




Rivierengebied

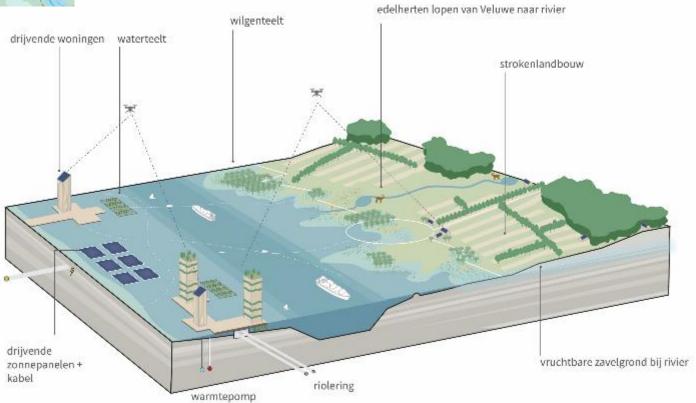


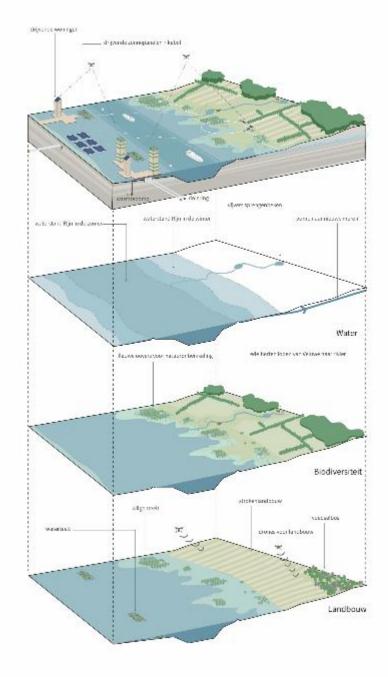








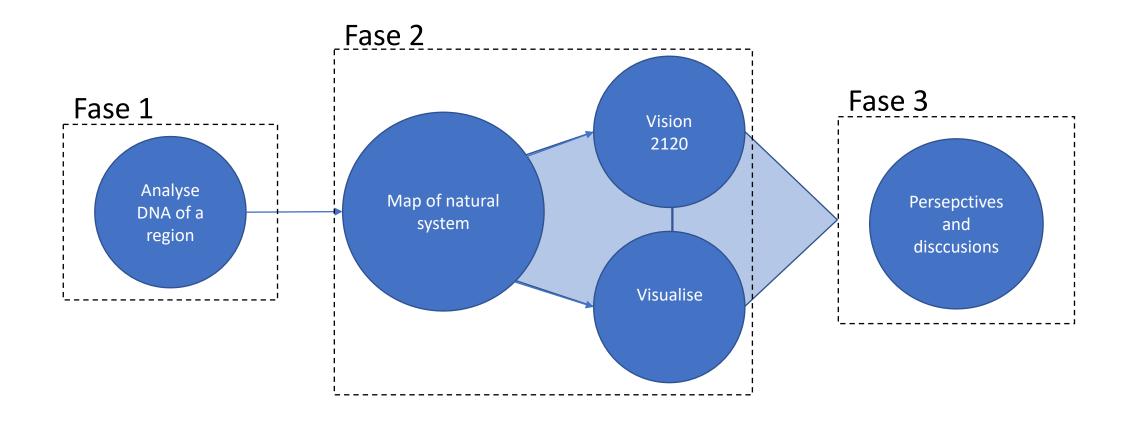




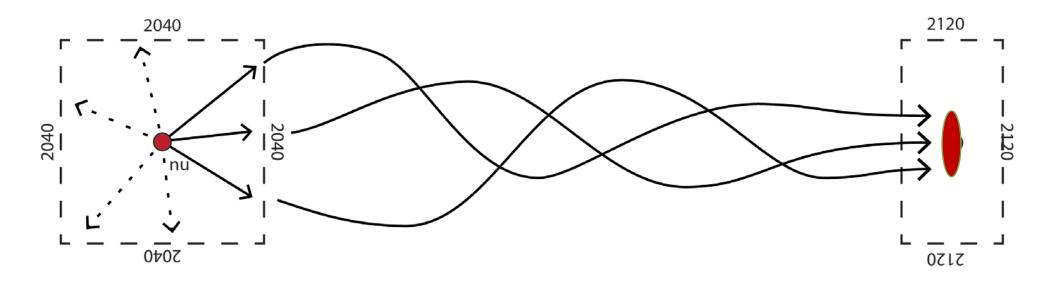
Arnhem 2120

- 1. National level: Redirect urban planning to the East
- 2. Roads narrowed, greene, self dtiving cars, drone transport.
- 3. Routes for cool air from the forest
- 4. One river and river metropole Arnhem Nijmegen
- 6. Nature 2100: combining dela nature with Veluwe

Approach

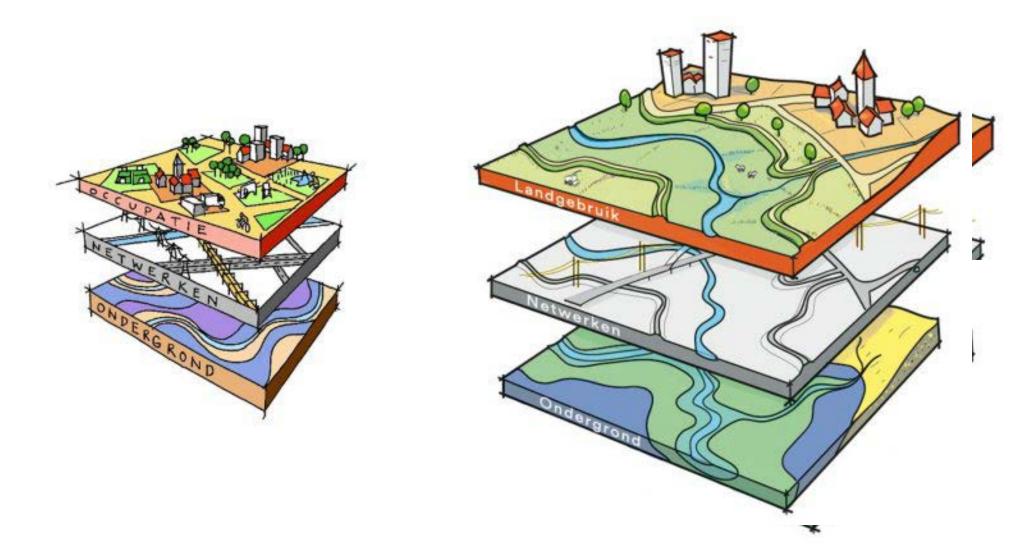


Conclusion 1: design a long term vision for discussion

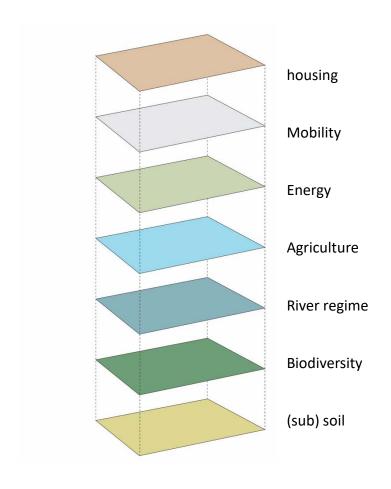


- Ver vooruitblikken is nodig én biedt kansen:
 - ontstijging huidige dossiers/problematiek
 - voedingsbodem voor planvorming nu

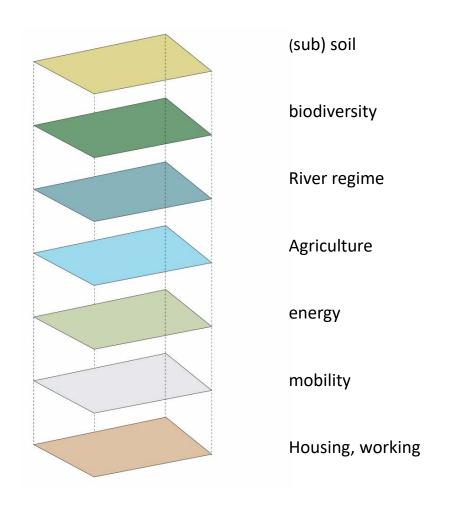
Conclusion 2: Re-install the natural system



What to plan first?



What to plan first? The natural system!



Conclusion 3: actively involve politicians









If you know that:

- The housing areas that you build now are still there in 100 years
- Sea level will be 1.5m higher
- Rivers will be sometimes dry and sometimes over-full and gorgious
- City temperature will be degrees higher

Do you think that you do enough now if you supply every new house wiyh a solar panel, an extra tree and a rain barrel?

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 - Use existing highway structure for economic and housing redevelopment.
 Avoid valleys and coastal deltas
 - Restore 10.000 abandoned villages: 300 inhabitants as an average

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- Relax: in 2120 Godello can be provided to you by The Netherlands

