















This is me

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Background in Civil Engineering









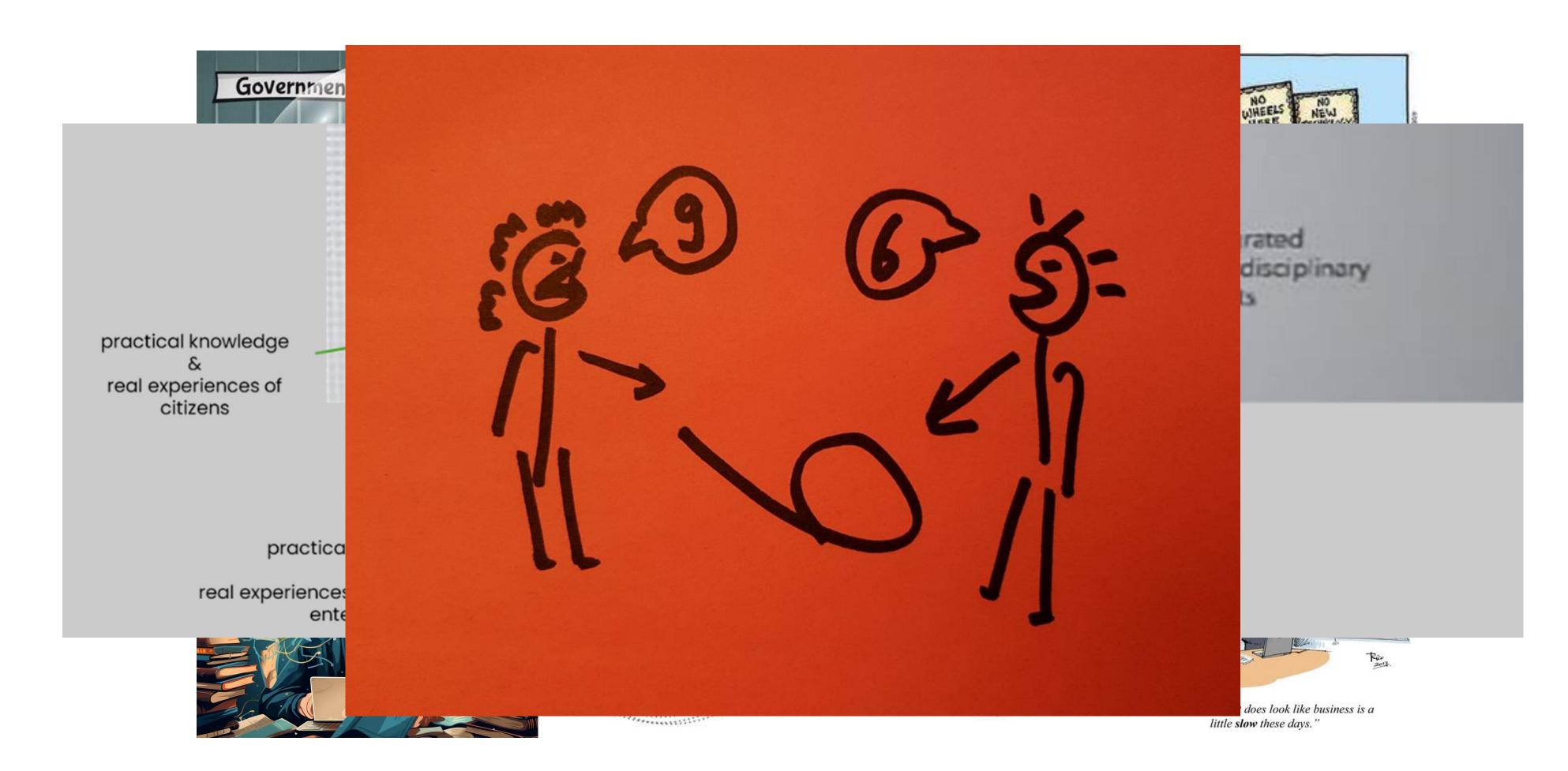








Our ULLB approach

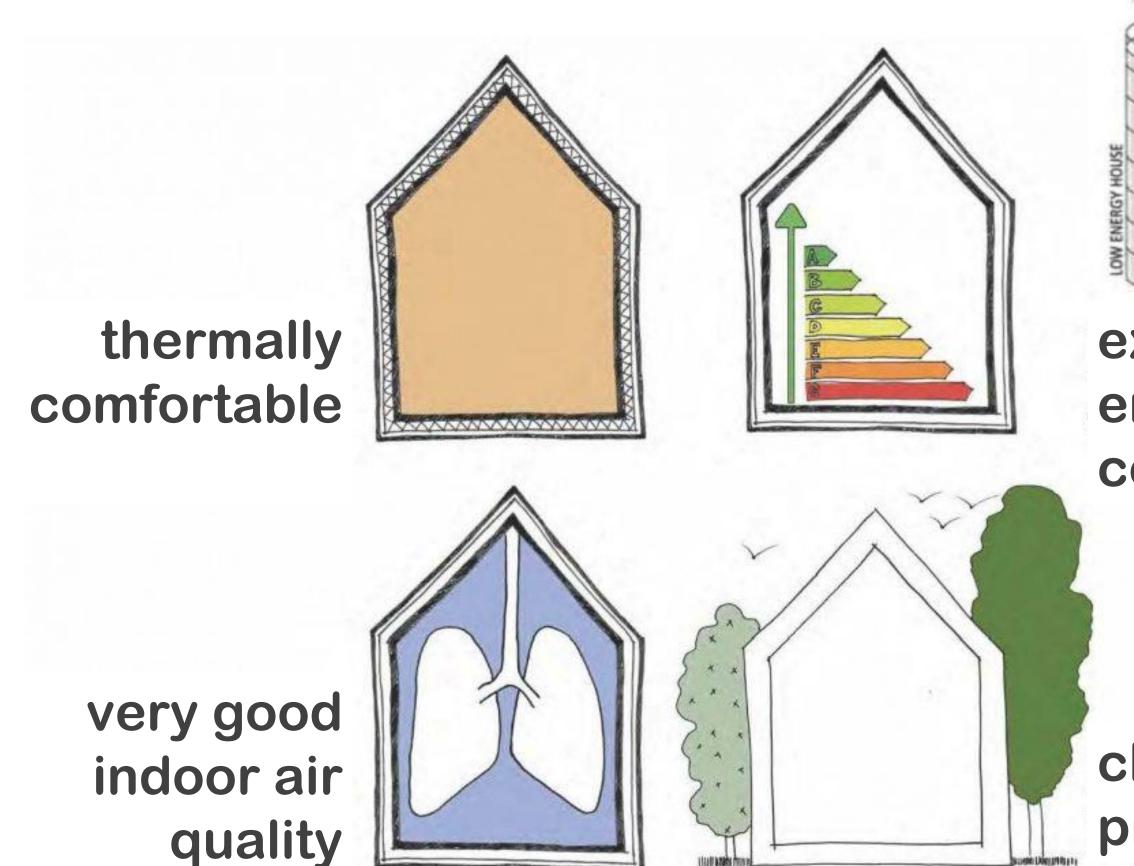






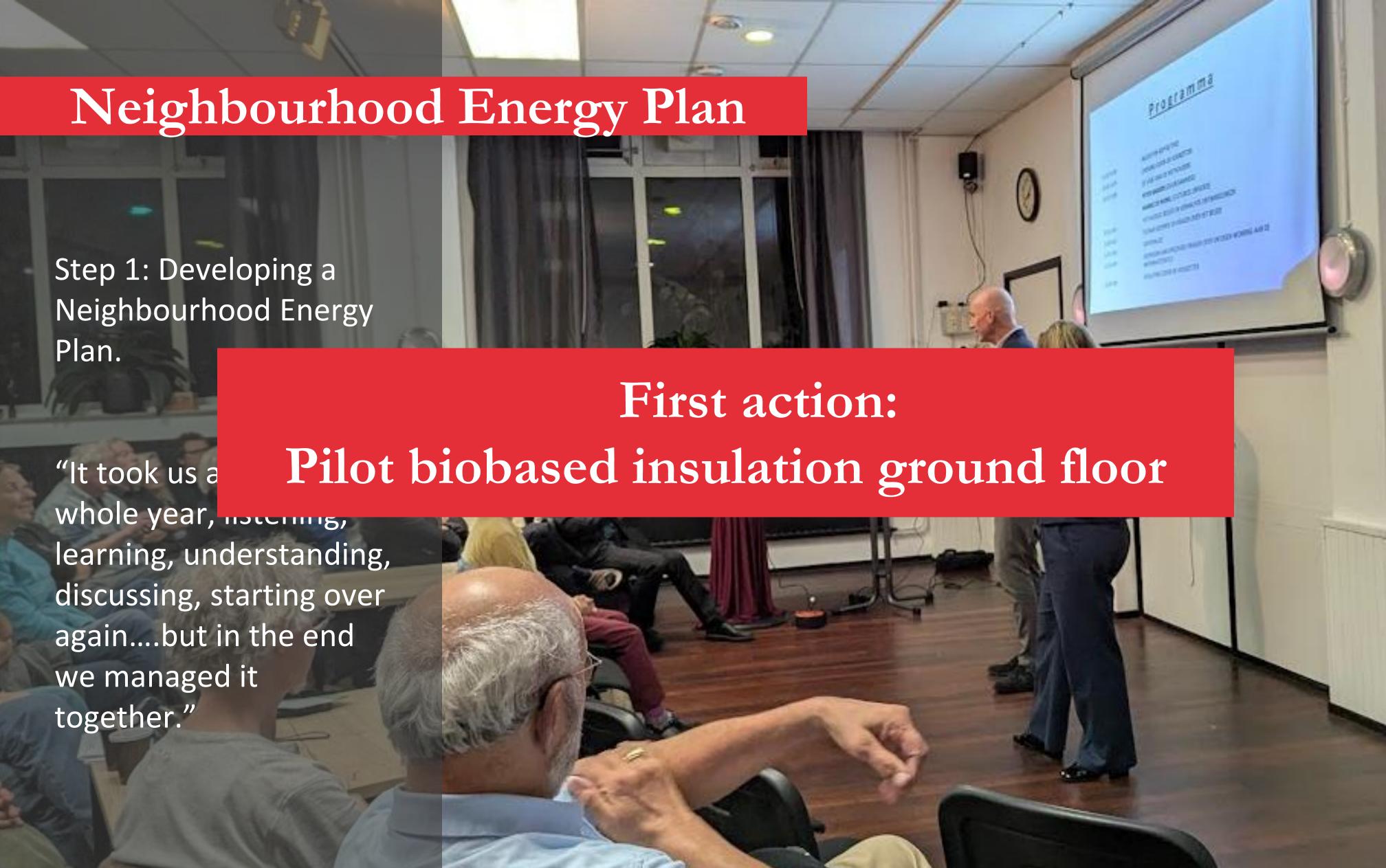


Their mission; Energy reduction & autonomy



extremely low energy consumption

climate protection









Pilot biobased insulation ground floor



The pilot starts with 1 + 3 pilot houses

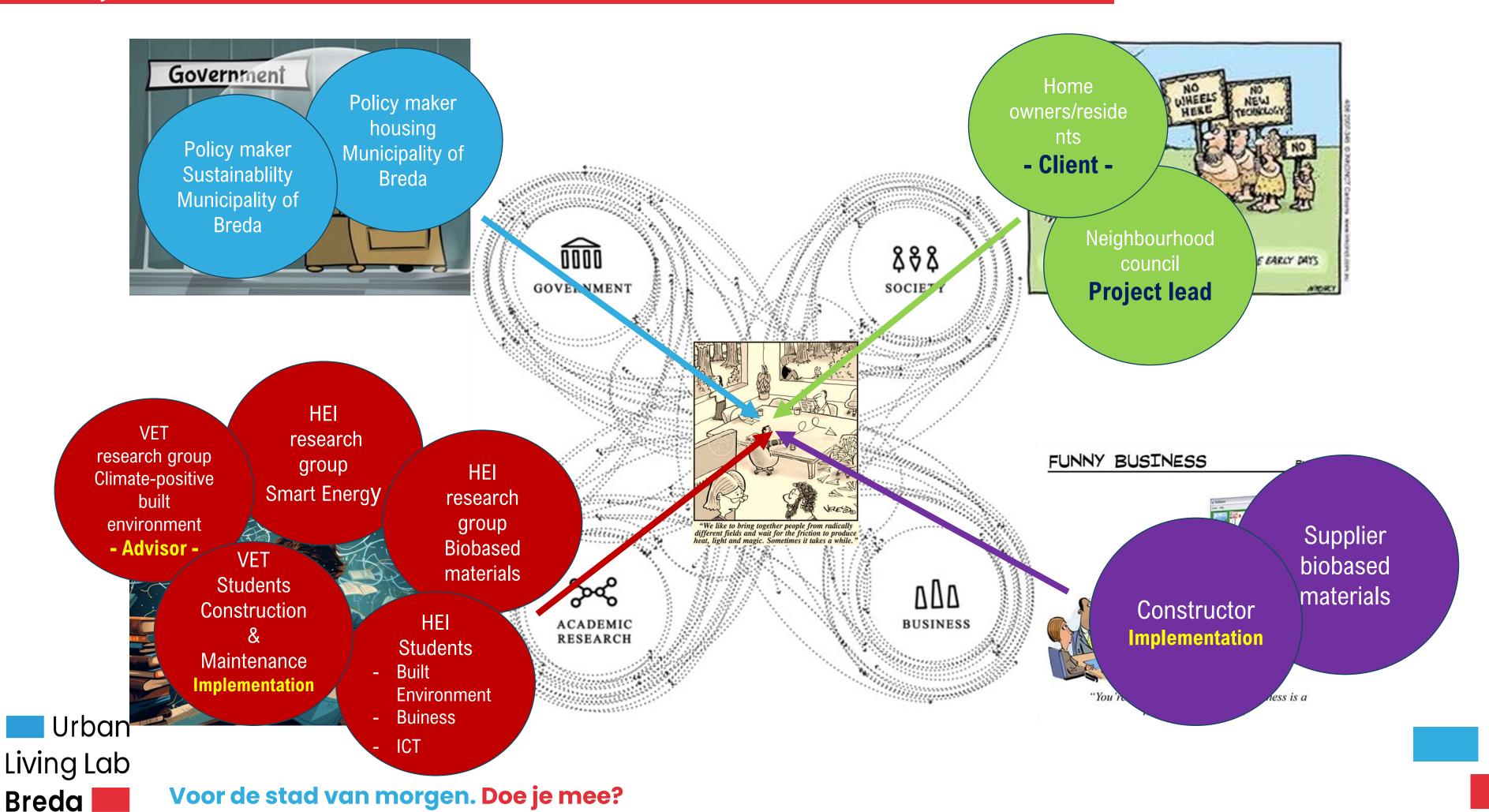




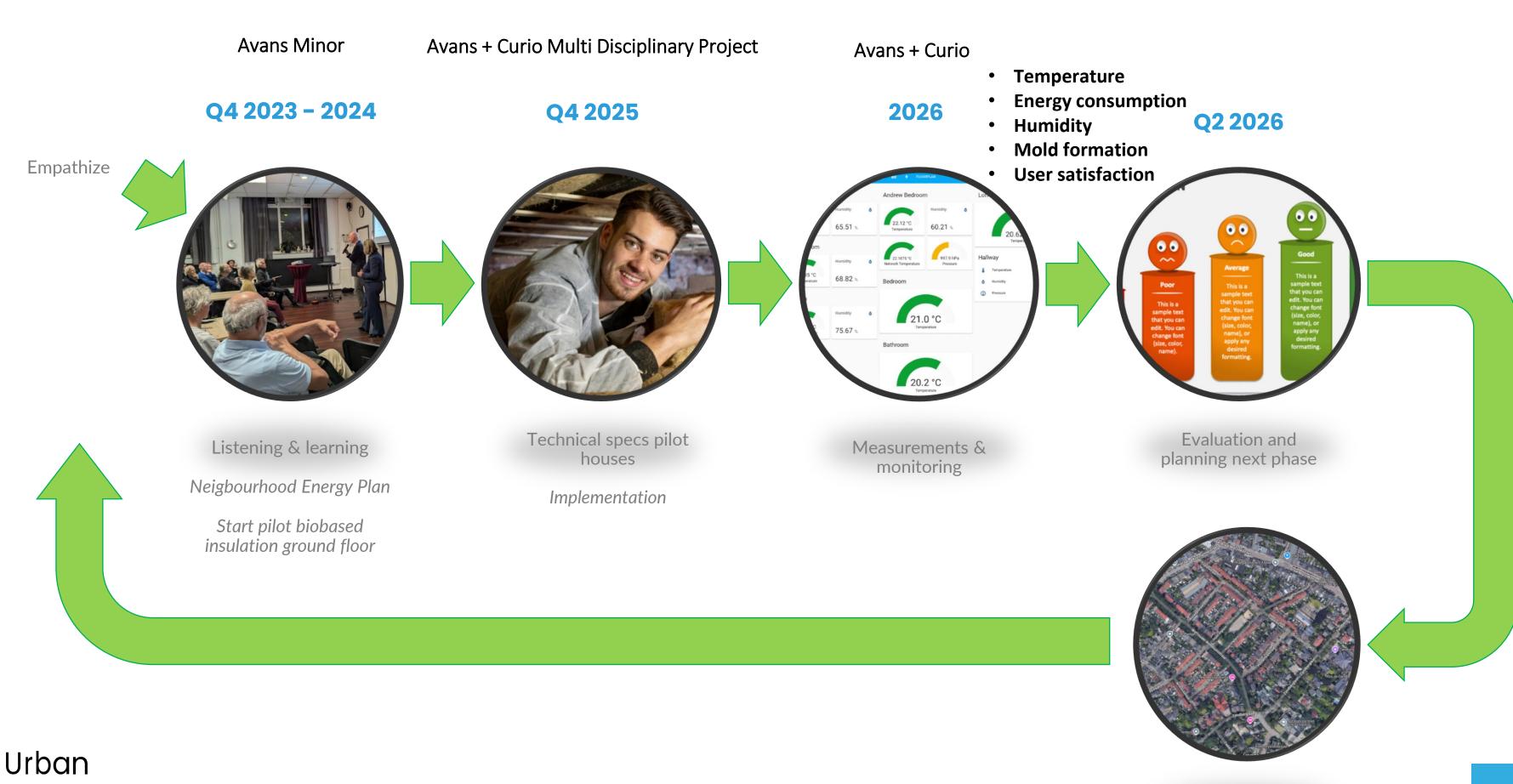




So, who are involved at this moment?



Education and research cycle

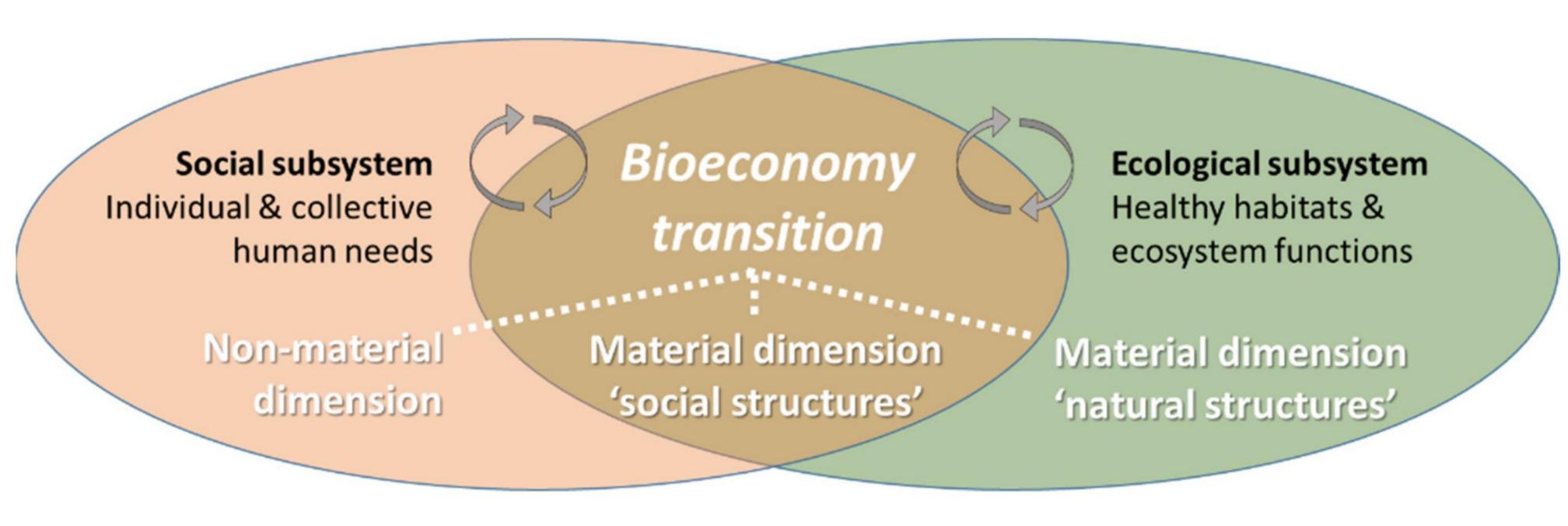


Living Lab

Breda

Next step in upscaling

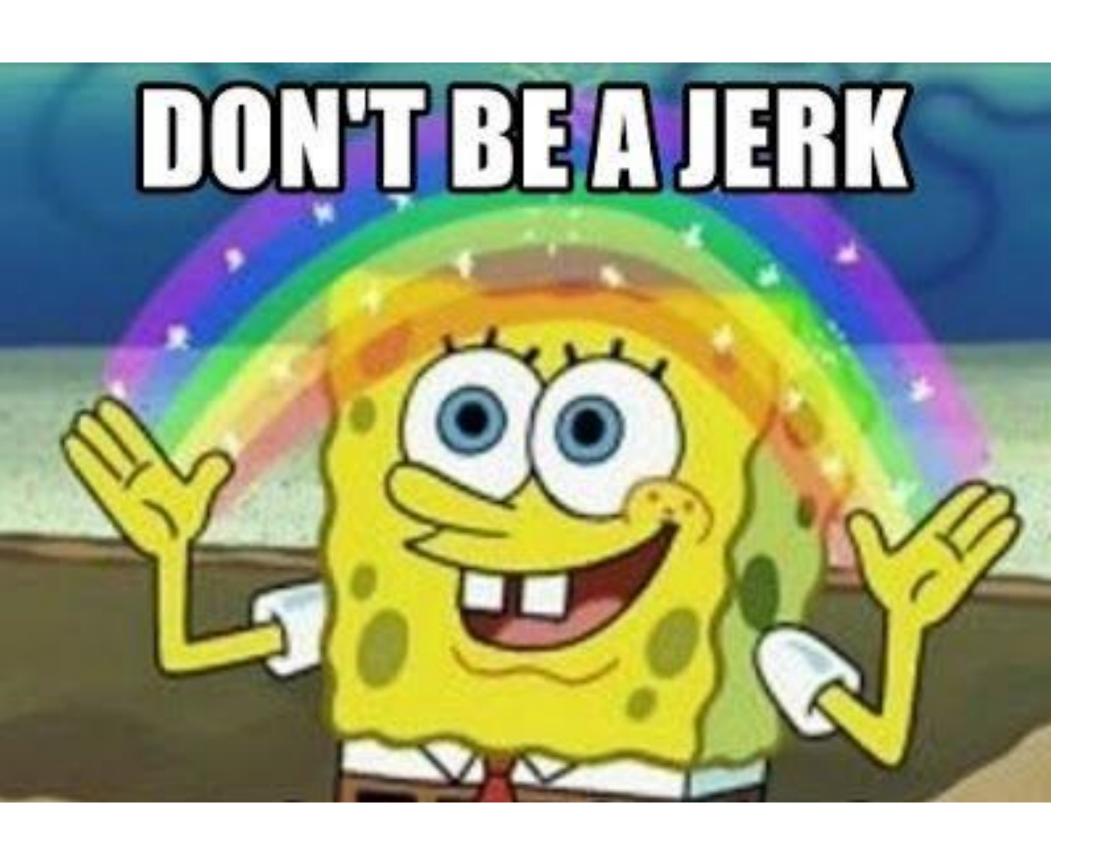
And step by step...



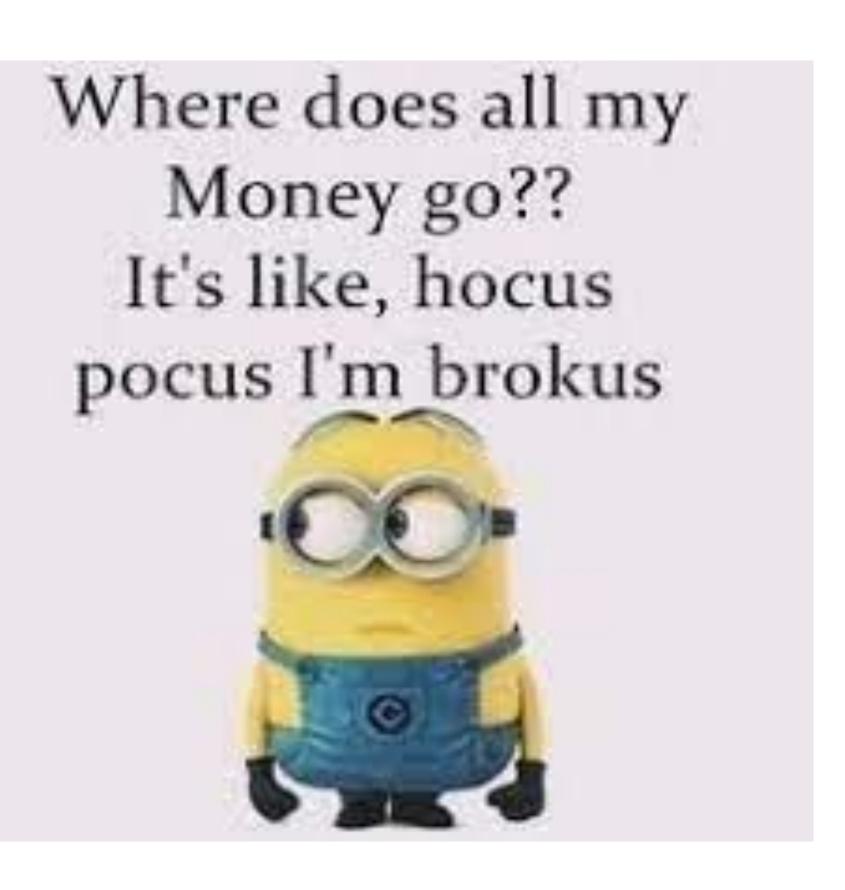
Source: Bioeconomy Transitions through the Lens of Coupled Social-Ecological Systems: A Framework for Place-Based Responsibility in the Global Resource System by Liesbeth de Schutter, et al; Sustainability 2019



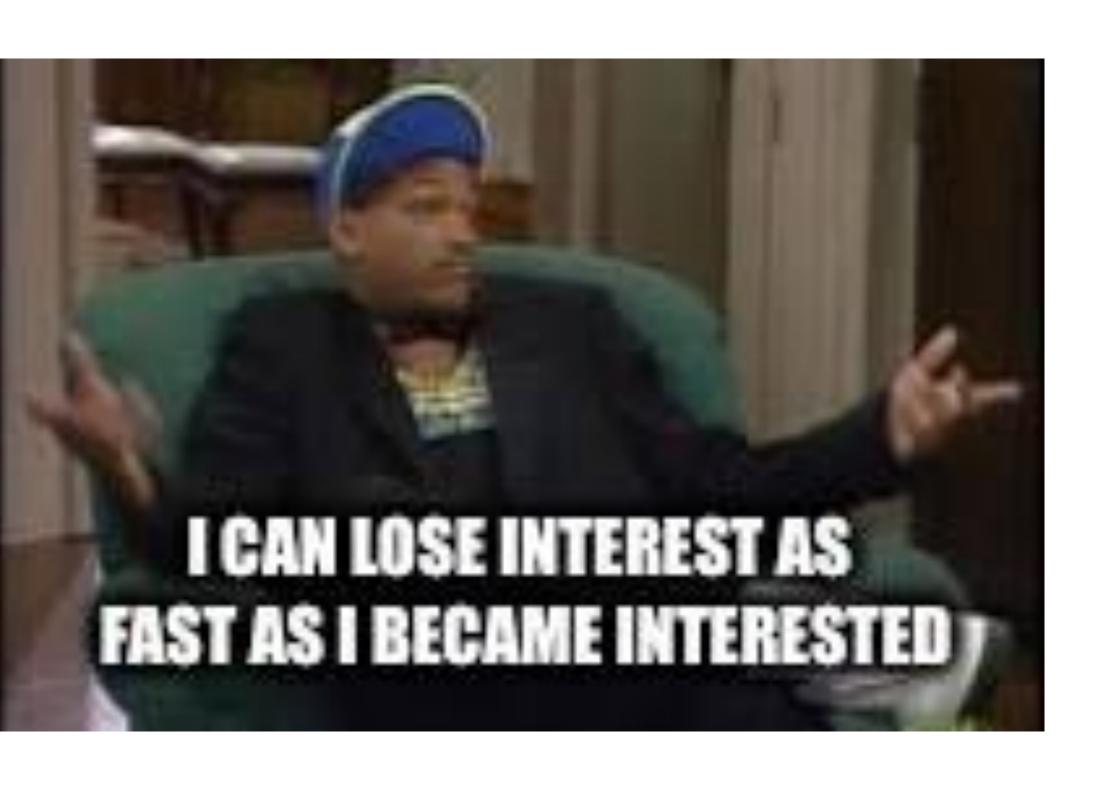




- Working with private persons = working and dealing with all sort of emotions
- What has been agreed upon today, can change overnight
- Be patient and don't push; more social work than solving technical challenges
- Trust once gained can be gone in a blink



- Neighbourhood councel and pilot group is not the majority
- Majority is not busy with being sustainable but with managing costs of living; "I have to much month left at the end of my money."
- Still no business model for permanent funding; 'affordable for all.'
- How to scale up?; Still no idea
- How to involve commercial and private landlords?



- Residents drop out because they lose interest
- How do we keep them on board?
- More and new efforts in communication
- What is the narrative?



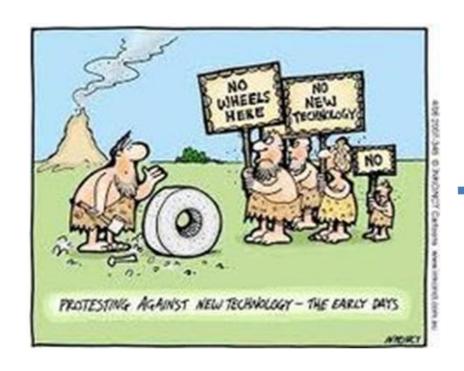
- How much we want no involvement of local government...in reality we can't
- Source for funding
- Is the authority to push the biobased agenda...but are unreliable; not consistent in their policy
- to much influenced by politics; how to deal with that?

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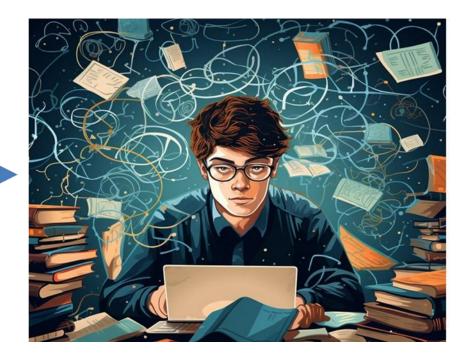


What if we would start all over again?



1st focus on the social process

- Social work
- Communication
- Social interaction
- Group dynamics
- Understand the narrative for individual and collective



2nd focus on the technical problem and stuff