

kadaster



How we develop the national Digital Twin of the Netherlands

and our role as Kadaster

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Investment proposal

Development Dutch National Digital Twin Infrastructure

Stimulating an Ecosystem for use and application

Digital Twin Physical Living Environment

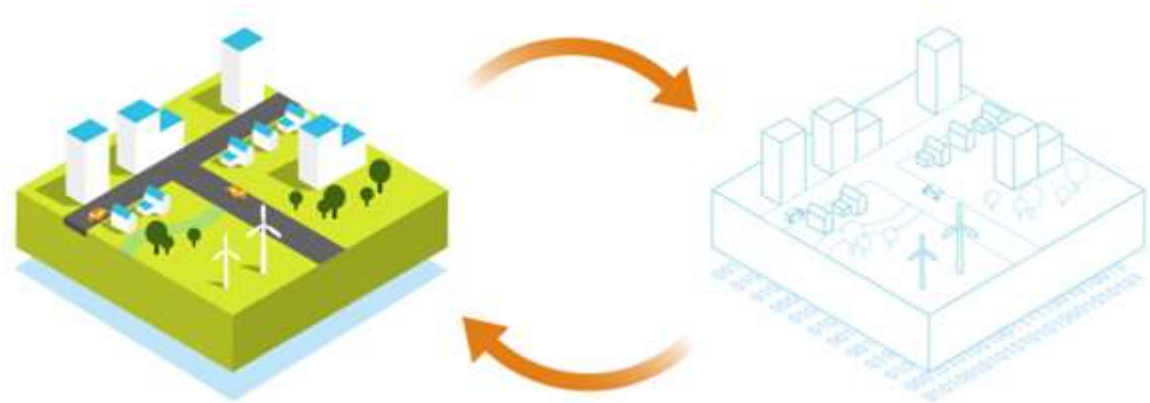


The Netherlands are working on five major challenges

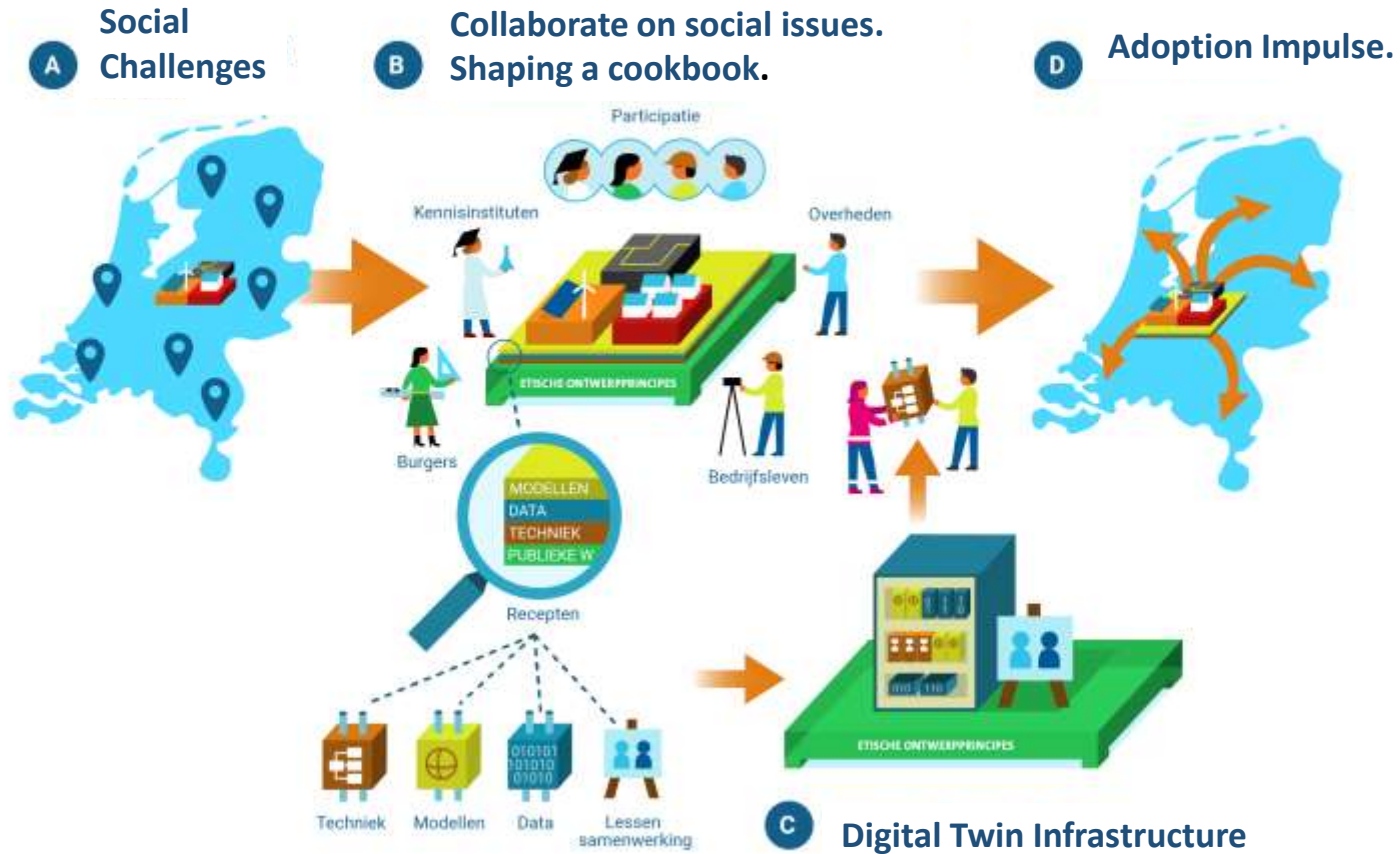
Social challenges Physical Living Environment

Why a Digital Twin

- Reliable facts based on Geo & building information
- Visualisation of the planned situation for awareness and a common shared picture
- Calculation & prediction of alternatives for solving the challenges and their fit to each other using models.
- Binding the stakeholders & those involved around the challenge
- Creating a transparent process of balancing interests based on public values



'Digital Twinning' in a National perspective

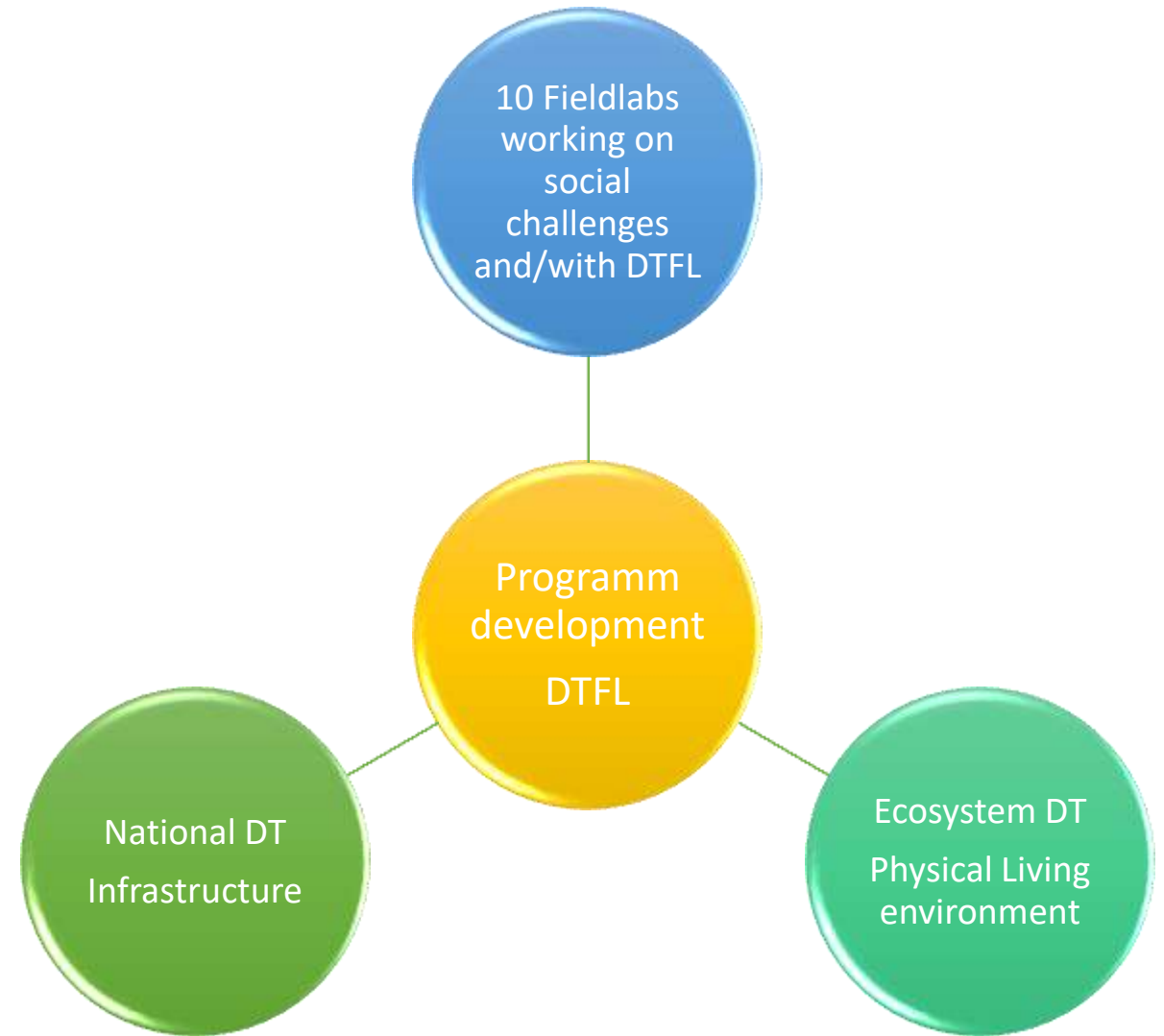


'If applying this technology and knowledge on a national scale with a public instrument, solutions become smarter, faster and more social.'

How to develop the National Digital Twin

Programmatic approach by three focus points:

1. **10 field labs** will work on the social challenges and deliver parts of the Digital Twin Physical Living Environment
2. Upscaling to a national level requires a **National DT infrastructure**
3. Stimulating access to calculating, predictive models and simulating all aspects of the physical living environment **together with existing stakeholders and ecosystems on the social challenges and available DT's**

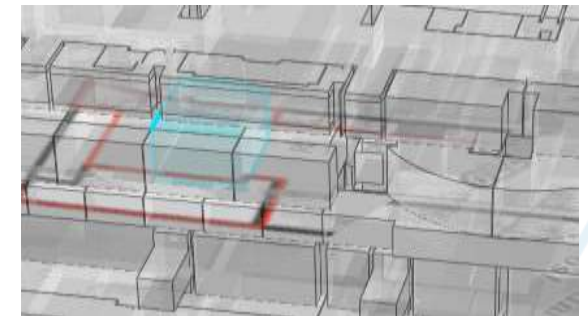


Involved public organisations



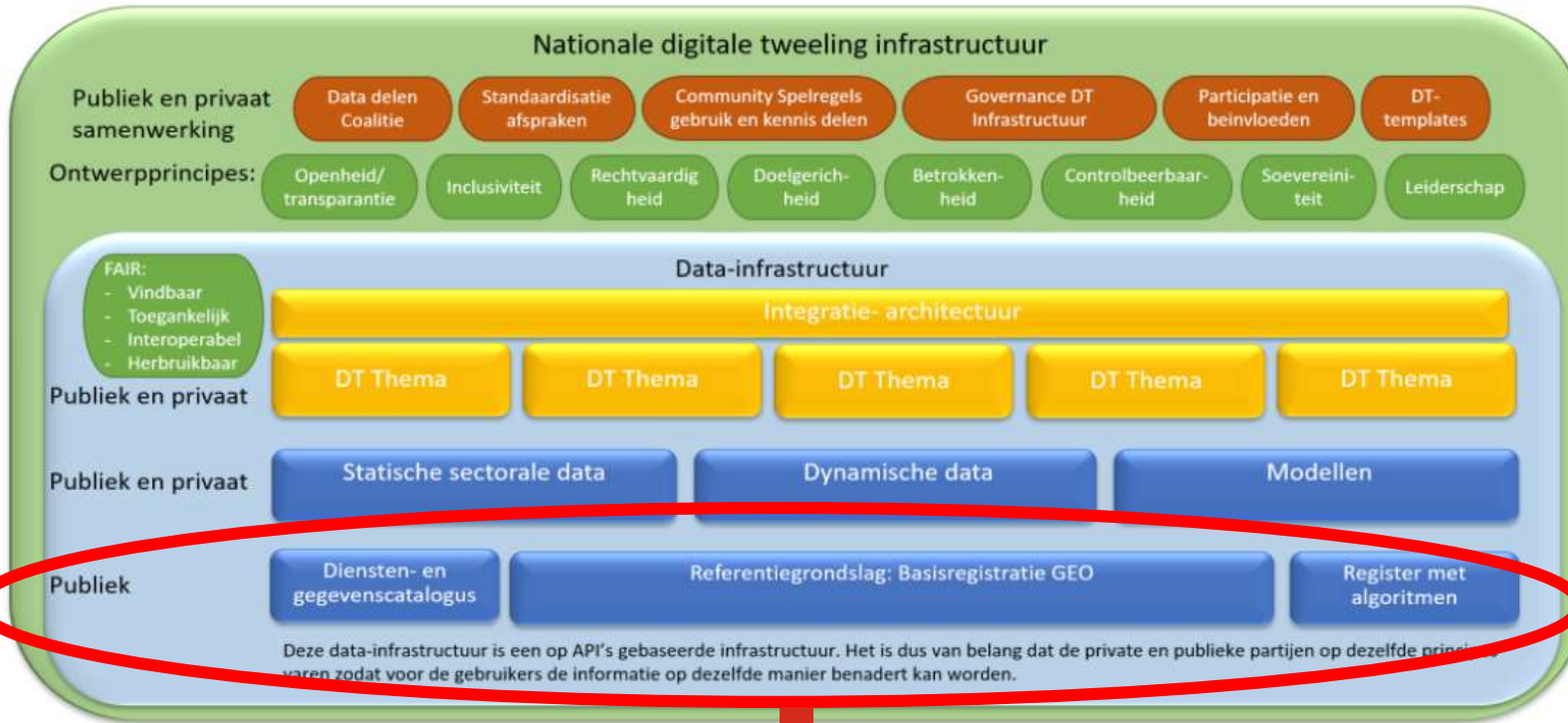
Our roles

1. Co-developer and manager foundation digital twin (ambition)
2. User of the digital twin as registration holder
3. Projects and advice in which we, together with others, work on digital twins for certain social themes



National Digital Twin and Kadaster

1. Co-developer and manager foundation digital twin (ambition)





BIM Legal

2. User of the digital twin as registration holder

- Notariat is making use of BIM
- By adding notarial rules to the IFC BIM model
- The notarial deed can be generated and shall be input to the Land registration

