WELCOME TO
THE GREEN VILLAGE
Presentatie netwerkbijeenkomst NAD

Den Haag, 6 oktober 2016
INTRODUCTION

This is what’s happening right now at TU Delft campus
The Green Village’s mission is to accelerate paradigm shifts that lead to a sustainable future.
Examples of paradigm shifts range from drinking water to grids for direct current

Examples

>> click to see the animations
Successfully initiating and accelerating paradigm shifts requires *all* stakeholders to join forces.
The Green Village provides a platform to connect stakeholders in a unique and inspiring setting.
Timely involvement of all stakeholders ensures early insights and shortens the time to market

*Acceleration (illustrative)*

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**Traditional**

- Technology
- Business model
- Market embrace
- Regulation

*Effective market introduction*

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**Modern**

- Technology
- Business model
- Market embrace
- Regulation

*Effective market introduction*

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**The Green Village**

- Technology
- Business model
- Market embrace
- Regulation

*Effective market introduction*

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*Time*
At The Green Village, government has a dual role with respect to legislation and regulation

TGV as a lab for government

Providing freedom & flexibility to develop innovative concepts

» All technology and activities are allowed at The Green Village…
» …as long as they are safe and clean

Participating in innovation and developing fitting frameworks

» Identify legislative hurdles
» Formulate new, structural solutions to accelerate implementation

Crisis- en Herstelwet ✔
Switching off several laws and regulations, including most articles in Bouwbesluit

Green Deal ✔
The Green Village acts as a platform that hosts innovation programmes and projects.
The Green Village provides a platform that hosts projects – Test beds for specific domains are set up with partners

*Layers*

**General platform (TGV responsibility)**
- Overall vision and cooperation principles
- Basis infrastructure on site and online
- Matchmaking & communication

**Common test beds (joint partner-TGV responsibility)**
- Facilities specific to research or innovation domains (e.g. DCgrid, homes & office, co-creation centre, H$_2$-infrastructure)
- Shared between partners and projects
- Long-term presence on site

**Projects by users**
- Owned & managed by partners in consortium or individually
- Grouped in innovation programmes

![Diagram showing platforms, projects, and partnerships.](image-url)
The Green Village’s role is to help paradigm shifting technologies and systems from lab to market.

**Innovation process**

- **Theory & lab**
  - Proof of technological principle
  - Develop and demonstrate reliability and robustness in systems context

- **Pilot locations**
  - Demonstration and optimisation of product/service/system in real-life setting

- **Market/general application**
  - Increased scale and commercialisation

**Support by The Green Village team**

**Early adopter examples**
- University campus
- City of Amsterdam
- Rijksvastgoedbedrijf
- Sites of customers of TGV users
- …

**PROPOSITION**

- **Technology**
  - Systems unknowns
  - Robust technology

- **Business model**
  - Business model tbc
  - Sound business case

- **Societal embrace**
  - Societal concerns
  - Willing users

- **Regulation**
  - Existing framework n/a
  - Regulatory exceptions
Residential Living Lab and Office Lab
In addition to the Prêt-à-Loger house, TGV is planning to host modular, flexible homes and offices

**Residential living lab and Office Lab facilities**

**EXISTING: Prêt-à-Loger**

- Solution for 1.4 million energy consuming Dutch row houses from around 1960
- Second prize winner at Solar Decathlon
- On The Green Village site since October 2014
- Attracting hundreds of visitors each year

**NEW: Modular housing and office units**

- Real-life test bed for research and innovation in homes & offices—technological, social, business models
- Residents (16-18 students) actively participate in projects, and share data for research in other projects and innovations on site (in energy, water)
- Working and meeting space for 12 persons
- Showcase for businesses, public, government
The Co-Creation Centre will be the local and regional home for innovators from all directions

» World’s largest glass construction
» Unique invention from Delft
The building is a dynamic and flexible test bed for innovations, especially on heat – The Temple of Heat

*Test bed for heat research and innovations*

As the **Temple of Heat**, the building allows researching, testing and demonstrating simultaneously various technologies related to heat and energy.
Find us, contact us and participate!

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