# **IEA-EBC Annex 61 Graz**





# Social urban retrofit – the future of our energy bills



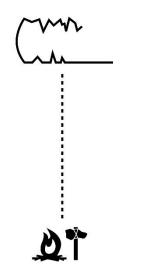
# about systemchanges and where to start

# a mixture of vision and experience

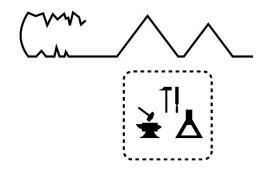
#### It all started in a cave



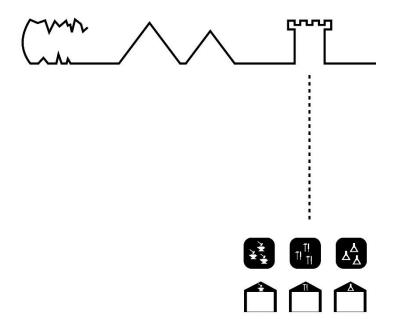
The ultimate do it yourself



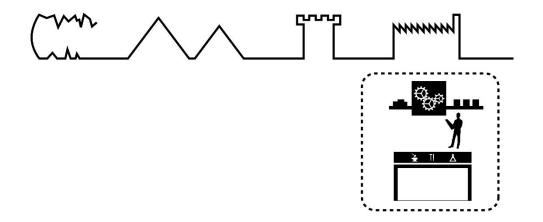
# Specialization



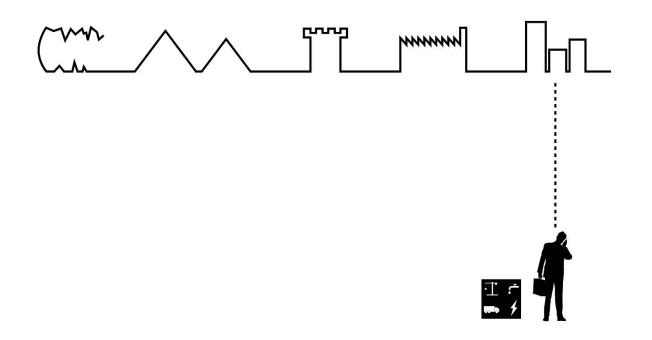
#### Cooperation



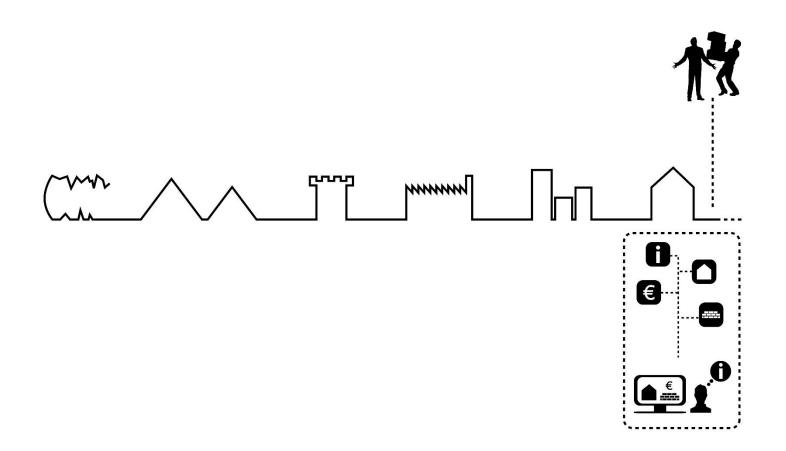
#### Industrialization



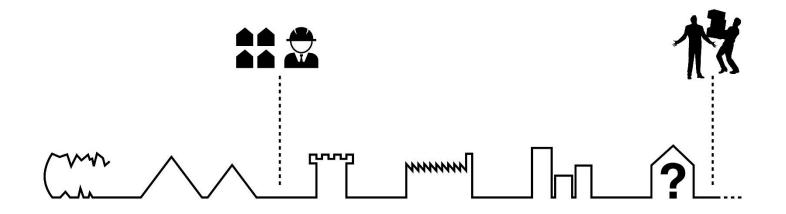
Service



# Information



# Why are our homes still medieval?



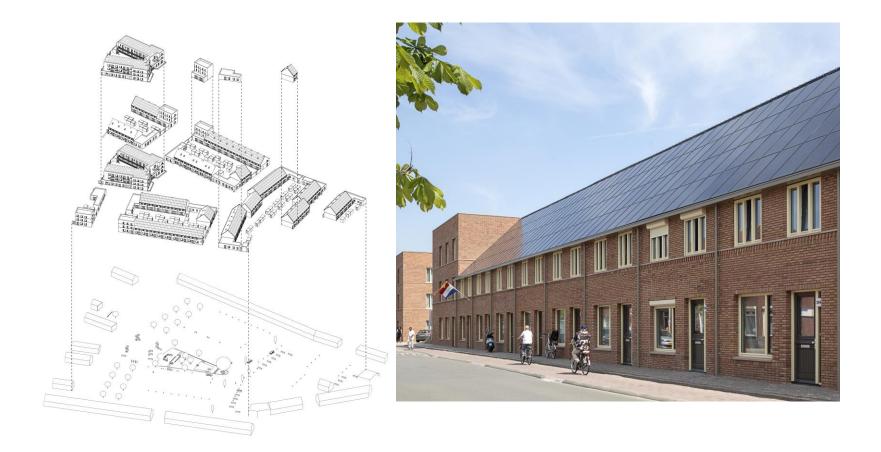
# 111 energieneutral social homes

Demolition and building proces within 25 days



#### **111 energieneutral social homes**

Demolition and building proces within 25 days



# 111 energieneutral social homes

Demolition and building proces within 25 days



#### additional investment

sustainability | living quality | organization | contextual quality of architecture



building | social | sustainable | economic

Development & Design Building construction

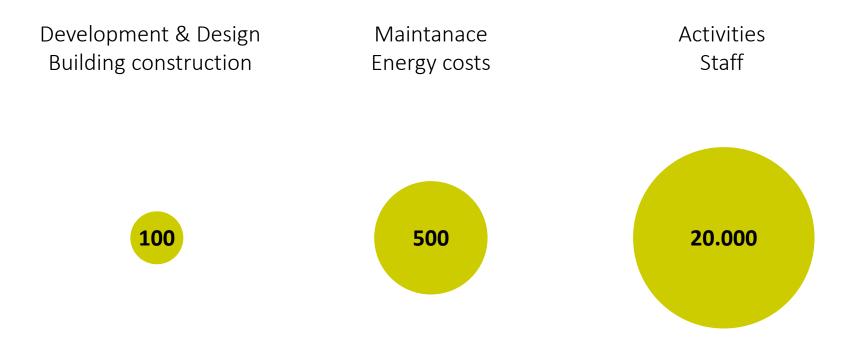


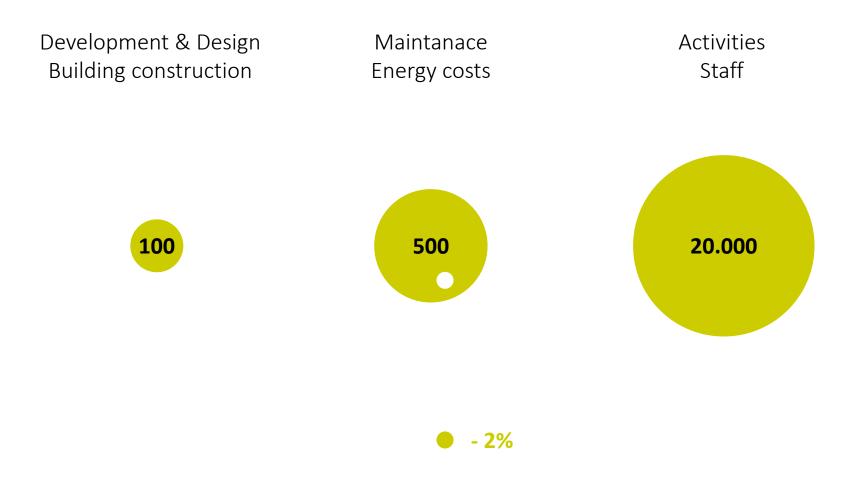
building | social | sustainable | economic

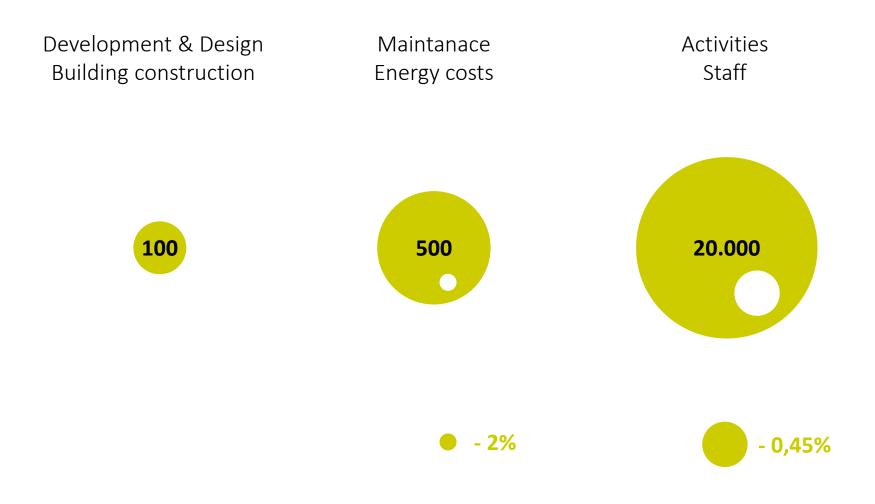
Development & Design Building construction Maintanace Energy costs

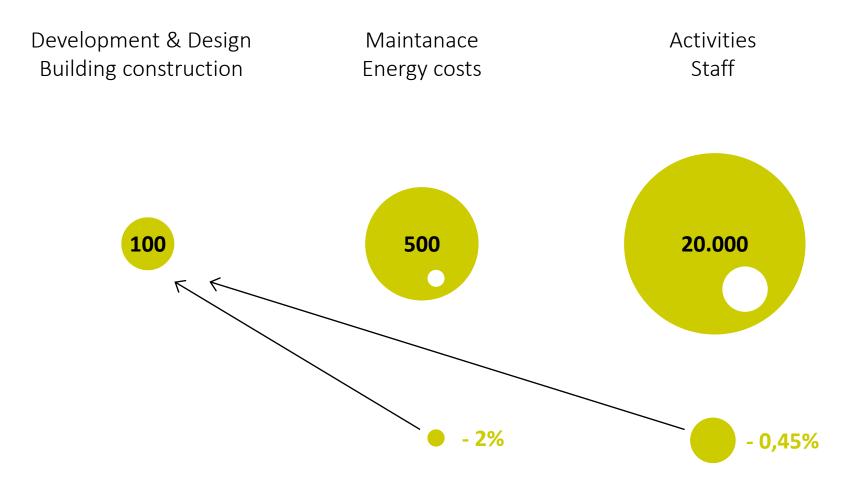












# "Veilige Veste" [Safe Fortress]

A home for victims of violence, prostitution and human trafficking



# The old policestation Leeuwarden

How we found it



# The "new" Veilige Veste

How we left it



# The "new" Veilige Veste

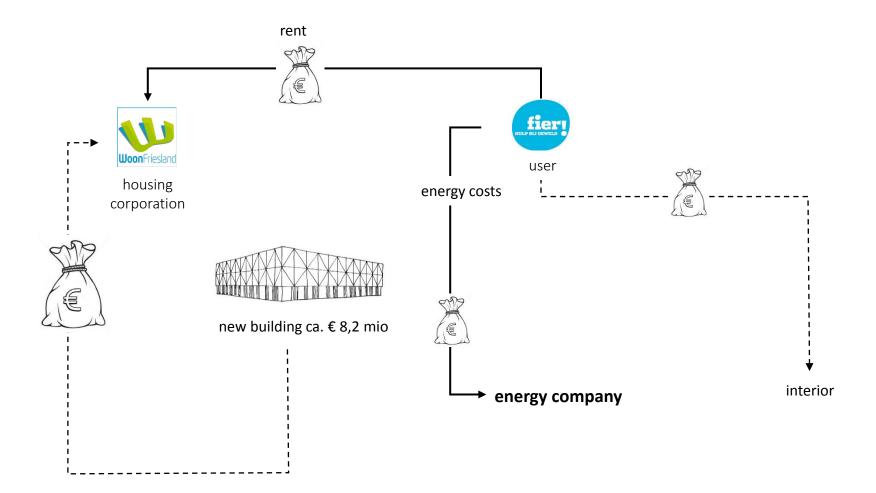
From prison cells to home





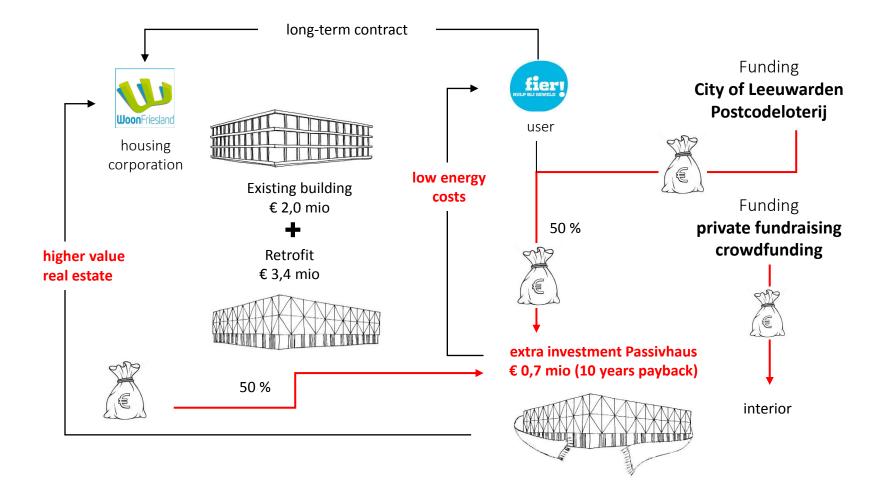
#### **Financial relations**

Investments and results through sustainable, high-standaard energy-saving retrofit



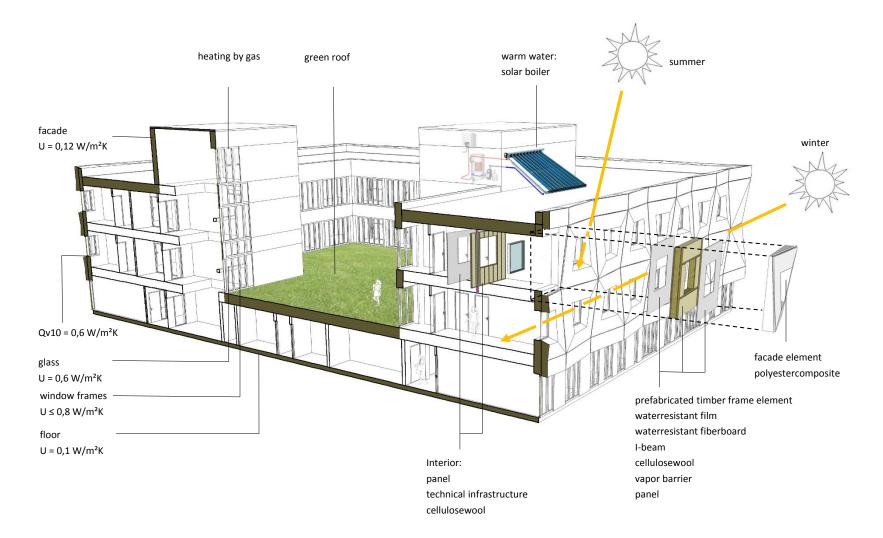
# **Financial relations**

Investments and results through sustainable, high-standaard energy-saving retrofit



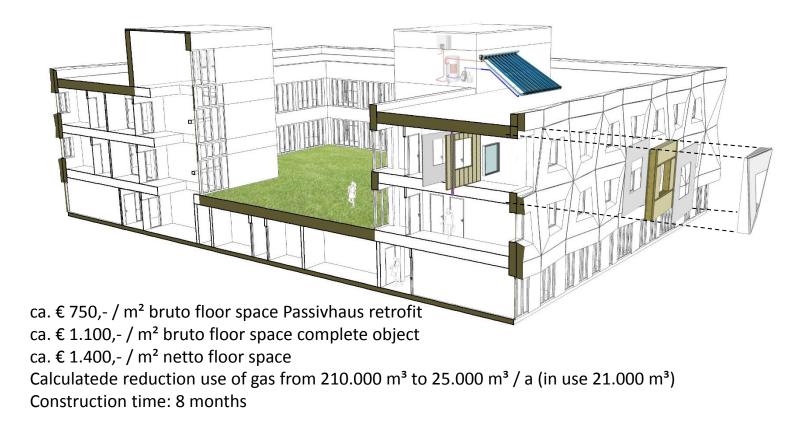
#### The concept

low costs | high quality



#### The concept

low costs | high quality



#### A cooperative perfomance



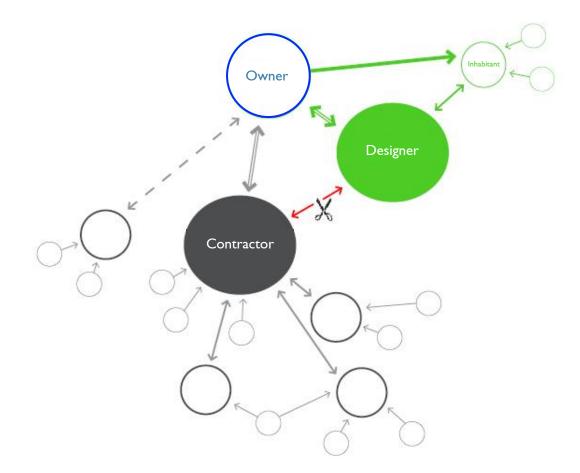
#### **Kooperative Architecture Workshop**

Start: 1. May 1976



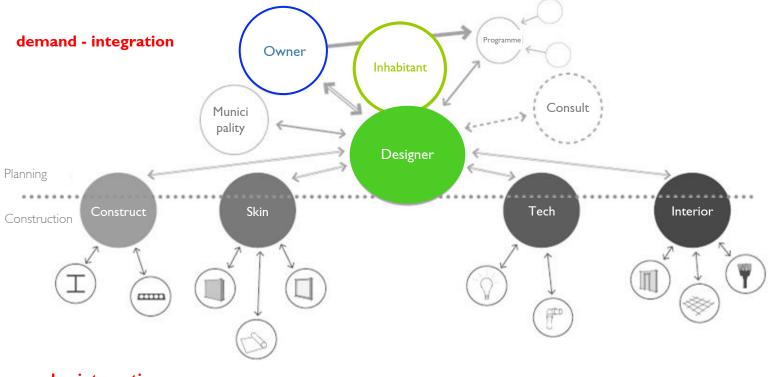
#### **Traditional model**

Against each other | competition



#### Innovative

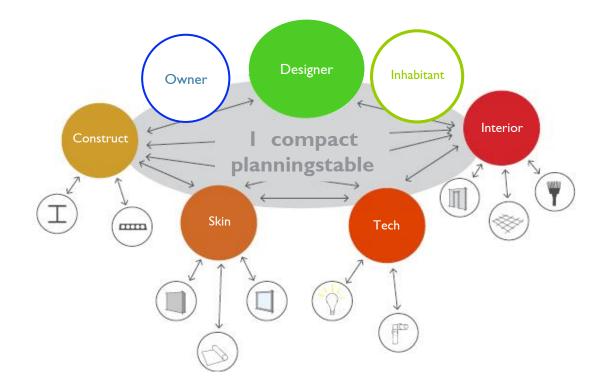
Together | cooperation | integral team



supply - integration

#### Cooperative

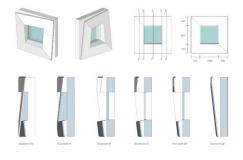
Working together for the same goal

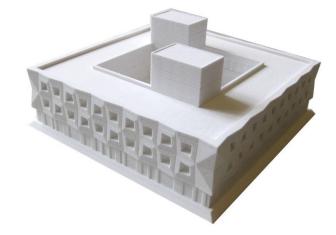


#### **Process tools**

What we use







3D print models



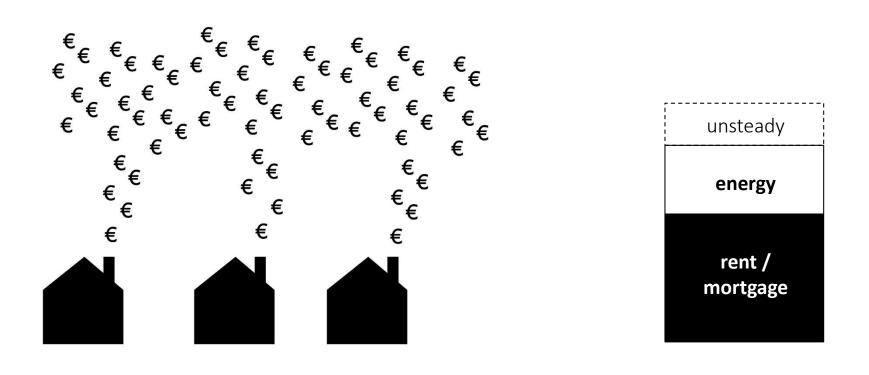




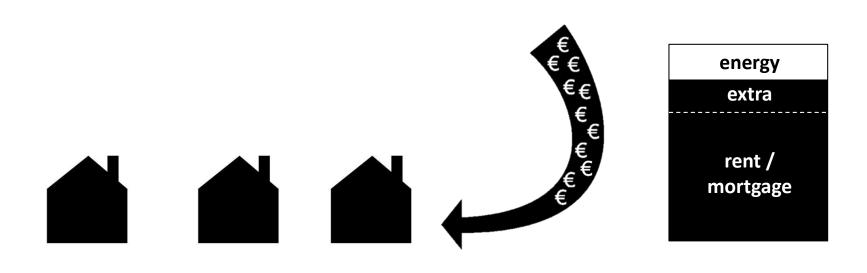
Communication strategy

Online Platform

#### The future of our energy bill



#### Why not spend the money better?



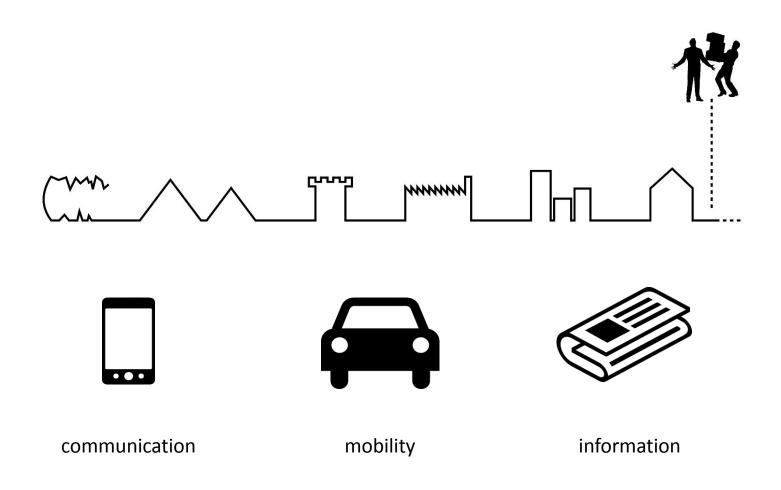
#### Nul-op-de-meter (NOM) as funding for sustainable retrofit

about € 45.000,- invest fixed price energybundle





#### Why not bring home to the present times?



#### Why not buy retrofit like a regular product in a supermarket?



# REIMARKT



### Retail store in 4 Dutch cities 1st shop worldwide to buy sustainable retrofit



#### **Reasons to buy**

"it's maintanance-free"



"you get more comfort"

"bigger value"







**Reasons to use** 













"I can stay home"

"I can chose"

"my house can grow with my family"



#### Live with less energy





#### Stay as long as you want



SAFE

ALLROUND

## **REIM**<u>A</u>**RKT**

#### Let your home grow





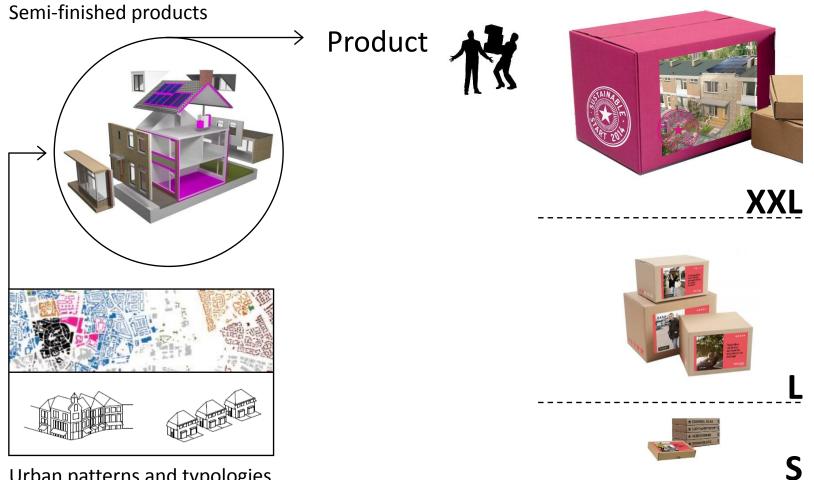
LANGER WONEN XXXXX





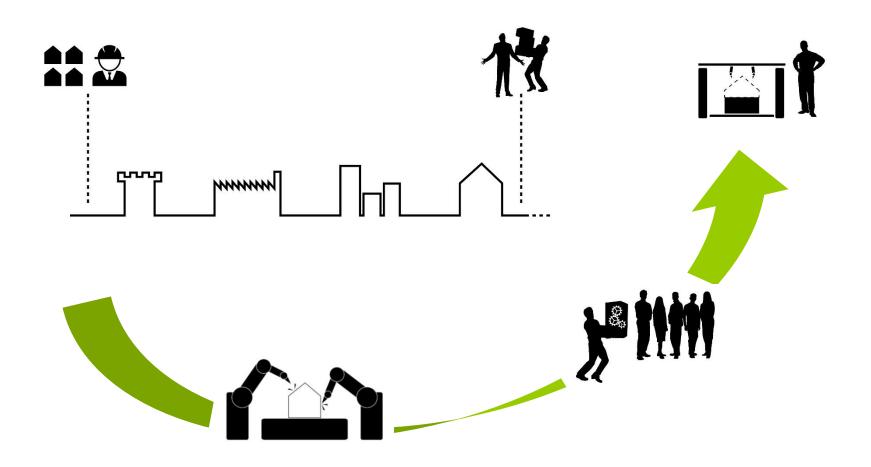


#### From proces to product



Urban patterns and typologies

#### The next steps



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