

An aerial, top-down view of a futuristic urban development. The buildings are tall and feature extensive green walls and terraces. The architecture is integrated with nature, with lush greenery, trees, and water features (like a small lake or stream) woven into the urban fabric. The overall aesthetic is one of a sustainable, mixed-use urban area. A green banner with white text is overlaid on the top left of the image.

# STIMULATING SUSTAINABLE URBAN DEVELOPMENTS:

*INCENTIVES FOR SUSTAINABLE MIXED-USE URBAN AREAS*

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*The word sustainability is used more than ever before, and the more it seems to be used, the more it seems to be directed at rationalizing unsustainable development. Almost everybody is talking about sustainability, but despite this subjective awareness, the world is becoming objectively less sustainable.*

*So why are we not acting effectively to achieve this sustainability?*

– James Paul, 2015

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# Background





# Background

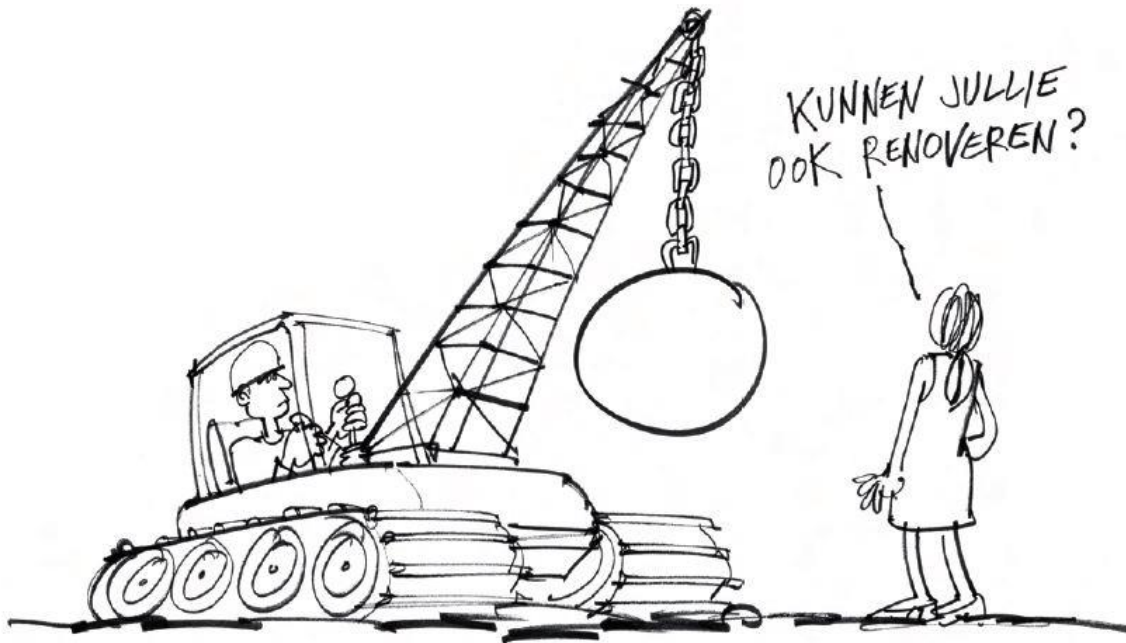
- Rapid urbanization
- Climate change
- Built environment responsible for up to 40% energy and 30% greenhouse gas emissions
- Urban scale leaves larger social, economic and environmental impact



# Problem analysis

# Problem analysis

Interests public parties



*"Can you also renovate?"*



# Problem analysis

## Interests public parties

- Increasing interest in sustainable urban areas in order to reach sustainable ambitions and policies
- Shift to facilitating role

# Problem analysis

## Interests private developers



*"I don't know...is it sure?" "And why do we have to invest? Why not someone else?"  
"If we could manage it..." "The GREX is also not looking so well"*



# Problem analysis

## Interests private developers

- Reputation
- Finance and risk
- Complexity and time in sustainable urban areas
- Unknowns about soft values, split-incentive and total cost of ownership

# Problem analysis

## Relevancy of incentives



*"Swimming pool The Sustainable Future"*



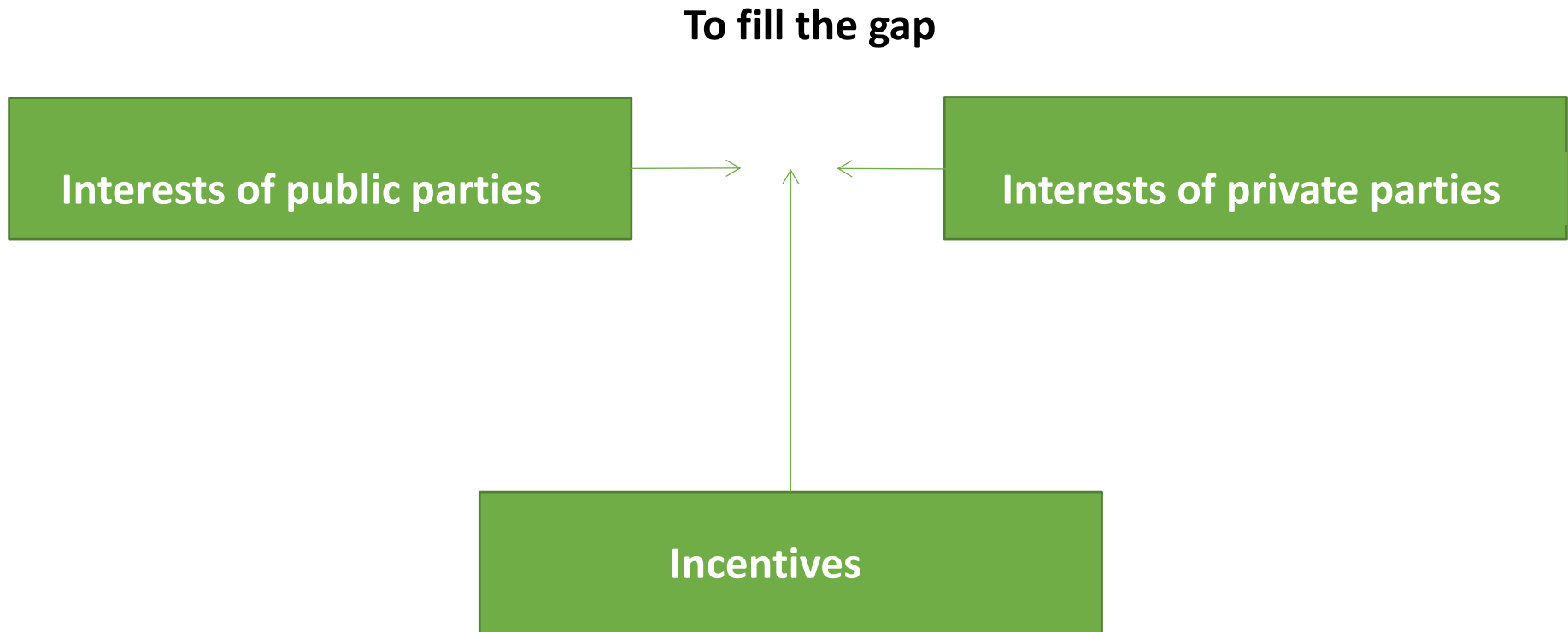
# Problem analysis

## Relevancy of incentives

- Developments occurring at too slow rate
  - Insight into drivers and barriers private developers
- Incentives to stimulate sustainable urban developments
  - How can municipalities steer for collective interest, not just box-ticking
- Different ways to stimulate; not just financial incentives
- Use of sustainable performance certificates like BREEAM to measure and demonstrate

# Problem analysis

Relevancy of incentives





# Problem statement

*There is a gap between sustainable ambitions from municipalities and the realization of these by private developers which can be bridged by acquiring knowledge about how incentives can be used to stimulate developers to sustainable urban developments.*

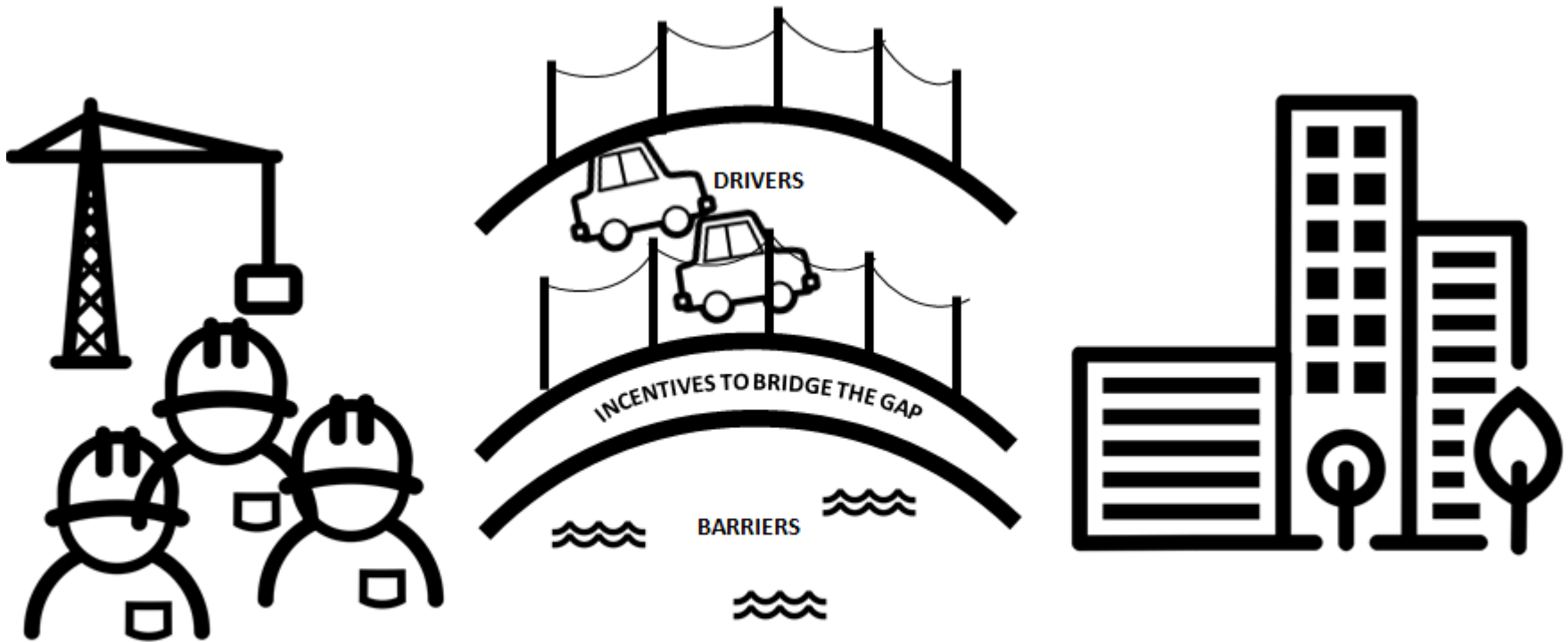
# Research goal

*Exploring how to bridge the gap between sustainable ambitions and implementation by getting a better understanding of how incentives can stimulate developers to sustainable investments. This can lead to recommendations to get one step closer to bridging this gap in the field.*



# Research goal

Incentives as a bridge



DEVELOPERS

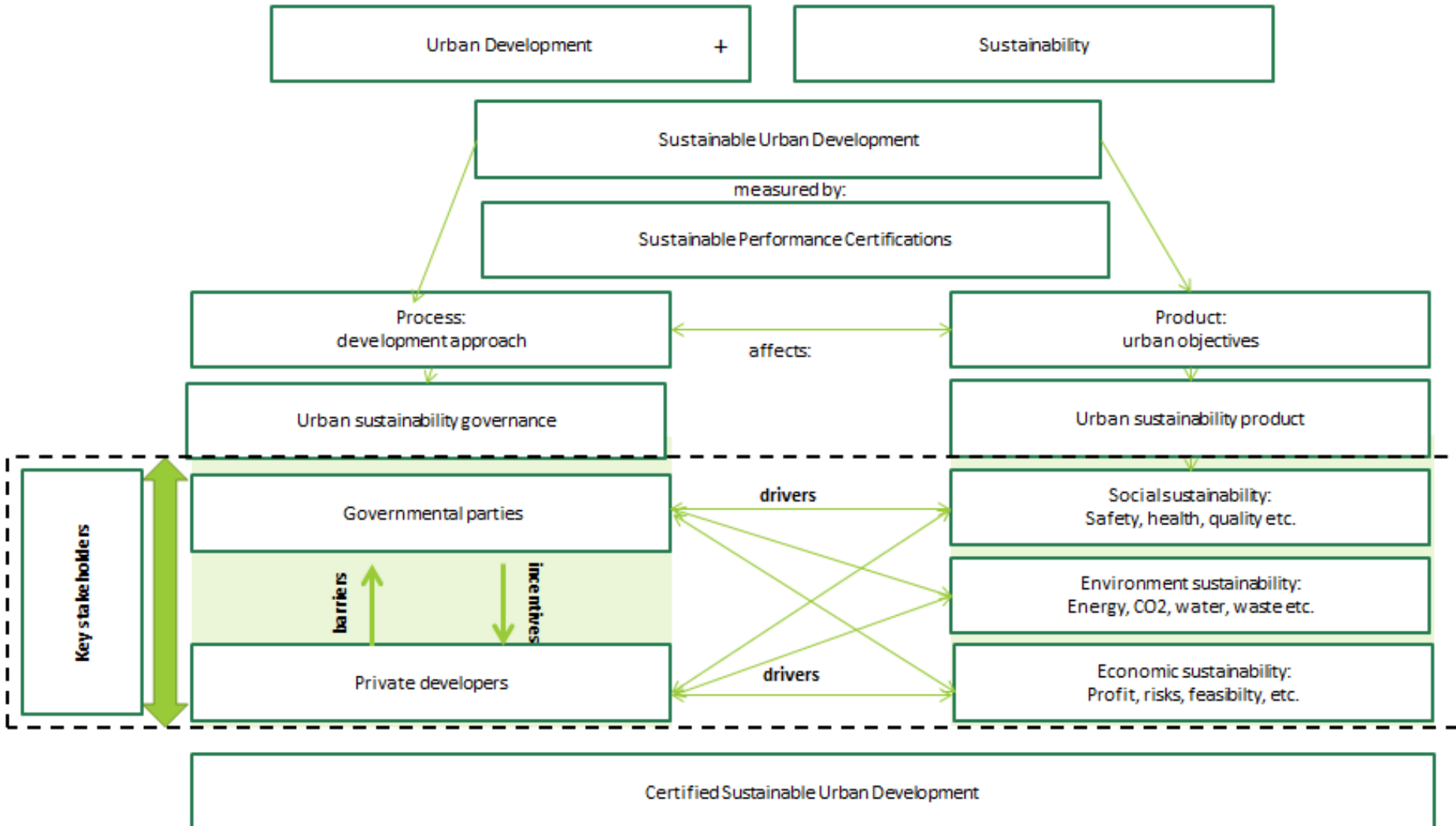
SUSTAINABLE URBAN DEVELOPMENT

Stakeholders


Drivers and barriers

Product

# Conceptual framework







**How can private developers be incentivized by governmental parties to invest in sustainable mixed-use urban development projects?**



# Research questions

**How can private developers be incentivized by governmental parties to invest in sustainable mixed-use urban development projects?**

1. How are the stakeholders' roles and partnerships structured within the development process?
  1. What are the drivers of the main actors involved?
  2. How is the partnership and collaboration in the development process?
  3. What is the role of BREEAM during the development process?
2. What barriers are encountered during the process of sustainable urban development?
3. What incentives are applied during the process of sustainable urban development?

A wide-angle photograph of a busy city square. In the background, several modern skyscrapers with glass and brick facades rise against a cloudy sky. The foreground is a paved plaza where many people are walking, some in business attire and others in casual wear. A green rectangular box is superimposed over the center of the image, containing white text.

# RESEARCH DESIGN & METHODOLOGY

# Research design and methodology

- Theory generating concept fits with qualitative character
- Explorative character: interpretations
- Actor's perception, role, behavior and process
- Cross-case comparison to gain deeper understanding



# Research design steps

## Step 1

### Theoretical framework

- Sustainable UD
- Stakeholders
- Drivers
- Barriers
- Incentives

## Step 2

### Empirical findings

- Case-studies approach
- Ecommunitypark
- Masthusen
- MediaCityUK

## Step 3

### Comparison findings

- Comparisons

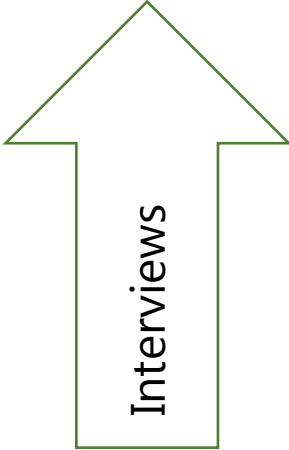
## Step 4

### Conclusion

- Conclusions
- Recommendations



Literature study



Interviews

# Theoretical framework



# Sustainable urban developments

- **Economies of scale;** infrastructure, services and technology
- Combining **environmental, economic and social sustainability** in one area



# Sustainable mixed-use developments

- **Broader social impact** on urban places
- More **efficient** use of the area; increase in economic activity, healthier lifestyle and social interaction
- Mixed-use is **in sync** with sustainability

# BREEAM certifications

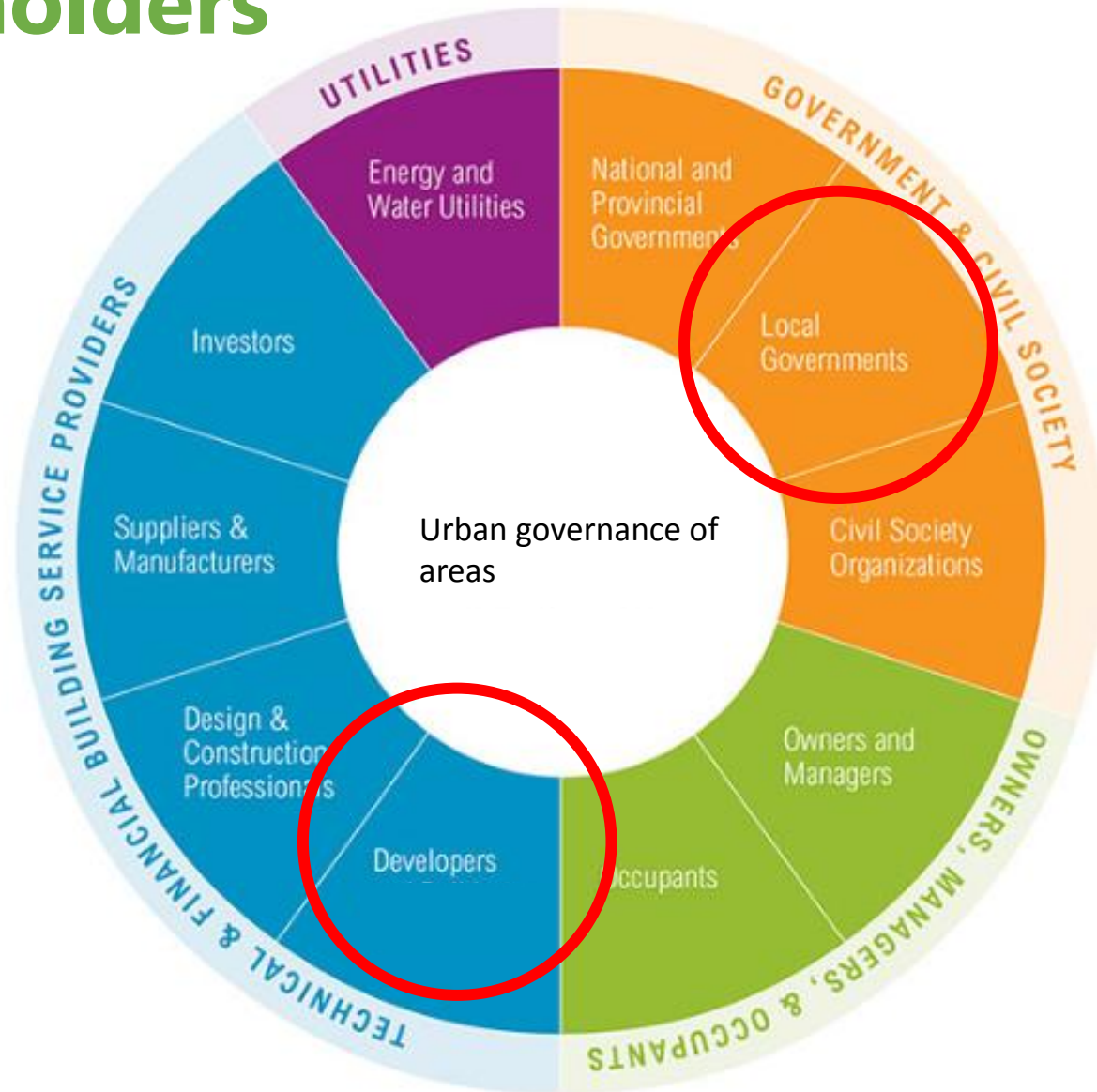
BREEAM is the most applied certificate to measure and demonstrate sustainability in the Netherlands.

## BREEAM is useful for:

- International recognition
- Communicating in one universal language
- Making the sustainable performance tangible and objective
- Analyzing and improving the sustainability level in an area
- Marketing and competitive edge
- Enhancing sustainable image
- Increase support from society and governmental authorities
- Benchmarking: comparing performance metrics to industry bests and best practices



# Stakeholders

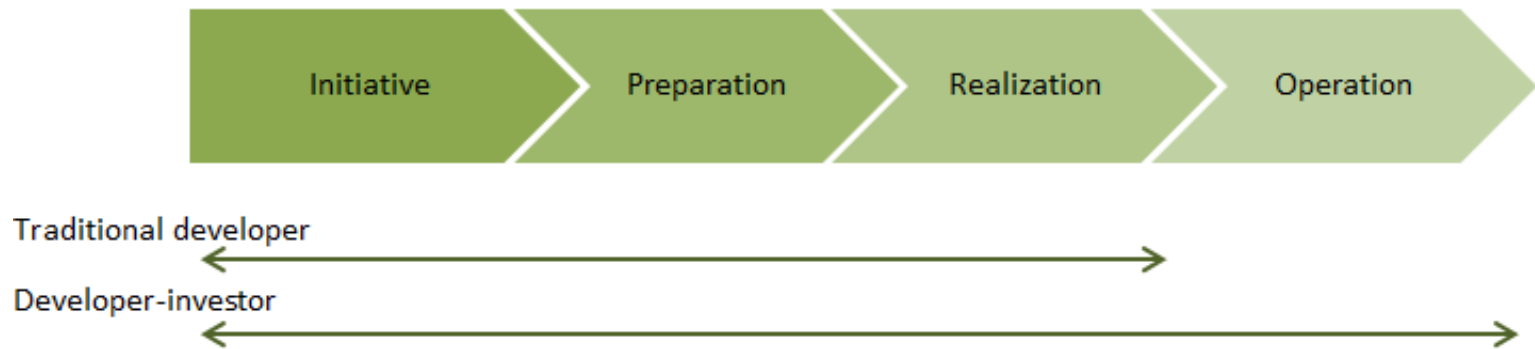


# Stakeholders

- Key stakeholders with different interests and goals
- Local planning authorities and developers collaborate on the operational level of urban development projects
- Shift between roles
- Private-led urban development: *"An urban development project in which private actors take a leading role and public actors adopt a facilitating role to manage the development of an urban area."* (Andersson & Moroni, 2014; Hackworth, 2007)



# Stakeholders



- **Different types of developers**

# Drivers

Stakeholders in each urban development process have different motivations for participation: the so-called *drivers*.

*Driver: a factor which causes a particular phenomenon to happen or develop*

# Drivers

Type of drivers	Examples
<b>Financial</b>	<ul style="list-style-type: none"><li>• Increase market value</li><li>• Attracting tenants</li><li>• Marketing</li><li>• Risk reduction</li><li>• Cost reduction /cost-efficiency</li><li>• Increase profit</li><li>• Faster sale/lease</li></ul>
<b>Reputational</b>	<ul style="list-style-type: none"><li>• Company strategy</li><li>• Corporate Social Responsibility</li><li>• Competition</li><li>• Innovation / front-runner</li><li>• Pressure from society</li><li>• Marketing</li></ul>
<b>Legislative</b>	<ul style="list-style-type: none"><li>• Planning requirements / permit</li><li>• Ahead of legislation changes</li><li>• Procurement</li><li>• Taxes and levies</li><li>• Administrative efficiency / planning efficiency</li></ul>
<b>Intrinsic</b>	<ul style="list-style-type: none"><li>• Intrinsic value</li><li>• Company culture</li><li>• Staff/organization</li></ul>



# Barriers

*Barriers: phenomena which actively counteract and are in the way of a desirable change which results in the change progressing slowly in relation to challenges and targets (Boverket, 2015)*

# Barriers

Type of barriers	Examples
<b>Financial</b>	<ul style="list-style-type: none"><li>• Sustainability measures are too costly</li><li>• No access to financing</li><li>• Lack of suitable business cases</li><li>• Risks perception</li><li>• Split-incentive</li><li>• Short term view/involvement</li></ul>
<b>Legislative</b>	<ul style="list-style-type: none"><li>• Regulations</li><li>• Lack of flexibility by law and regulations</li><li>• Lack of ambition / vision for sustainability</li><li>• Lack of coordination within and between different levels</li><li>• Limited stimulating instruments</li></ul>
<b>Knowledge</b>	<ul style="list-style-type: none"><li>• Lack of knowledge, awareness or expertise</li><li>• Insufficient support for research, learning and pilot projects</li><li>• Insufficient transfer of knowledge</li></ul>
<b>Organizational</b>	<ul style="list-style-type: none"><li>• Lack of coordination within and between different levels</li><li>• Sectoral responsibility versus collective interest</li><li>• Lack of leadership capacity and know-how for complex, cross-sectoral process</li><li>• Lack of courage</li><li>• Lack of support / direction</li></ul>

# Incentives

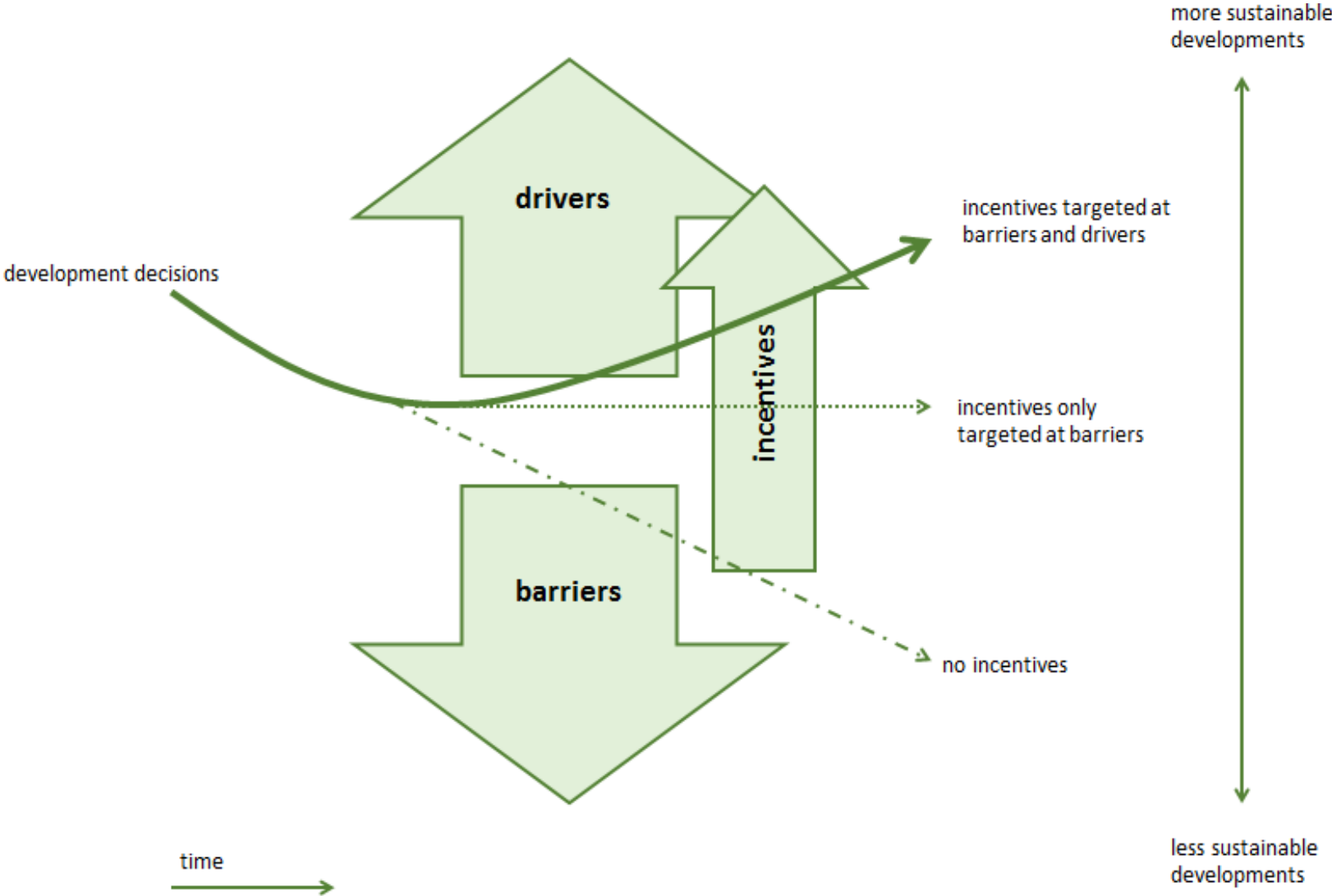
The value of incentives is their ability to affect the preference and perceptions of actors. Incentives should be seen as reasonable and effective tools for encouraging actors over the long term (Dorussen, 2001)

*Incentives: additional measures tailored to the specific needs of someone in order to encourage or motivate them to do something.*

Combination of carrots and tambourines to reduce box-ticking behavior

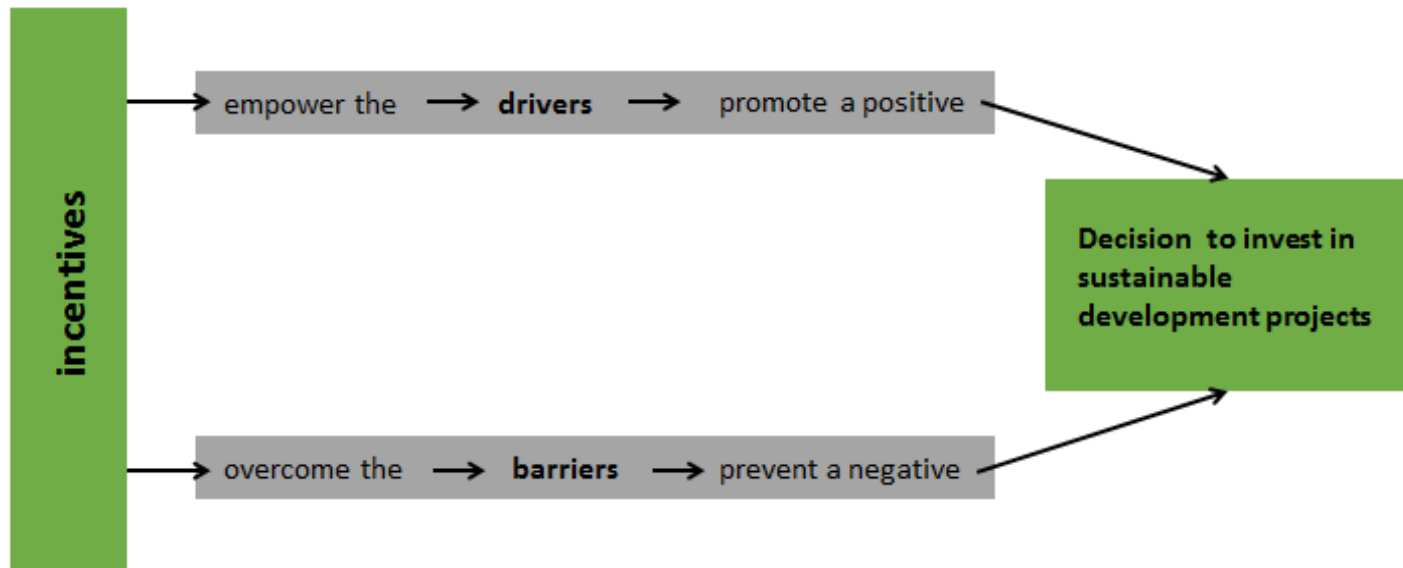


# Incentives

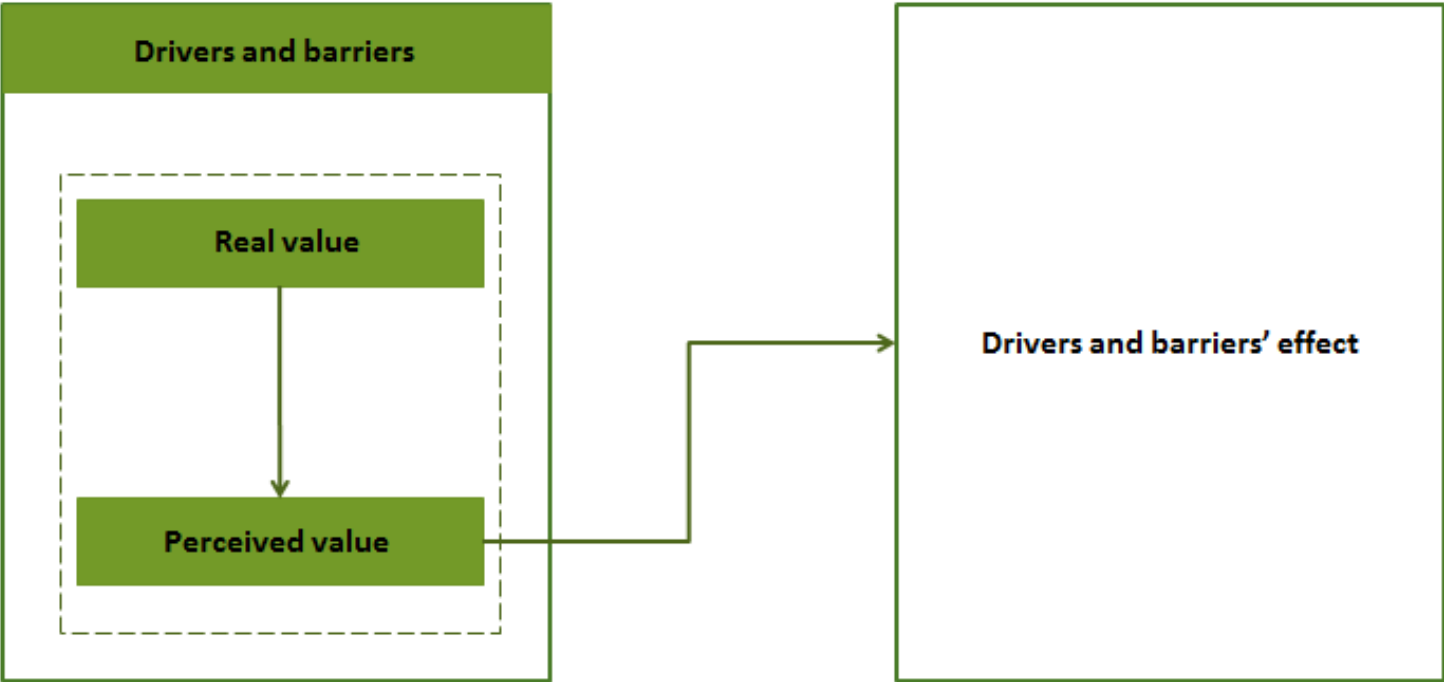


# Incentives

In general, incentives empower drivers and reduce barriers. Their role is to change the weight of the drivers and barriers.



# Incentives





# Incentives

Type of incentives	Examples
<b>Financial</b>	<ul style="list-style-type: none"><li>• Reduced costs</li><li>• Taxes</li><li>• Subsidies</li><li>• Public funding</li><li>• Access to private funds</li><li>• Total life cycle involvement</li><li>• Risk reduction</li><li>• Public investment</li></ul>
<b>Legislative</b>	<ul style="list-style-type: none"><li>• Strong vision/policies on sustainability</li><li>• Reduction in regulatory/administrative burden</li><li>• Collaboration between public and private</li></ul>
<b>Reputational</b>	<ul style="list-style-type: none"><li>• Publicity</li><li>• Awards and recognition</li><li>• Marketing</li><li>• Benchmarking</li><li>• Improved profile / branding</li></ul>
<b>Capacity-building</b>	<ul style="list-style-type: none"><li>• Facilitate access to development finance Sectoral responsibility versus collective interest</li><li>• Public support for new ideas / cultures</li><li>• Knowledge sharing</li><li>• Enhancing relationships with stakeholders</li><li>• Having skills and expertise</li></ul>



# EMPIRICAL FINDINGS

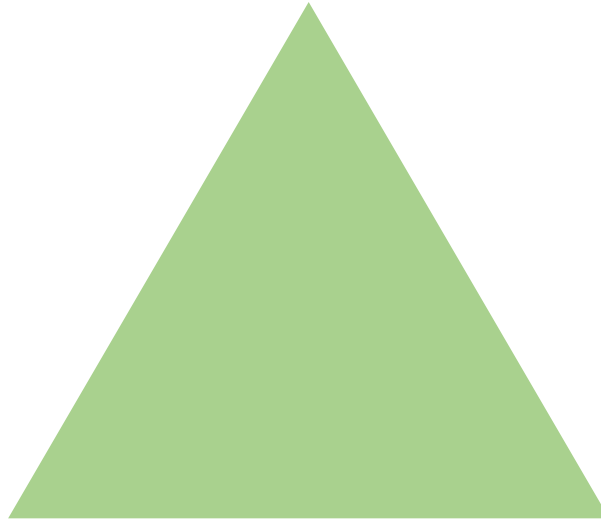
An aerial photograph of a modern, multi-story building with a dark glass facade. The building features several levels of green roofs and terraces, which are densely planted with various tropical plants, including palm trees and ferns. The greenery cascades down the sides of the building, creating a lush, vertical garden effect. In the foreground, a multi-lane road with several cars is visible, along with a small, circular structure that looks like a traditional thatched-roof hut. The overall scene is a blend of urban architecture and nature.



# Case-studies

Approach

**Documentation**



**Interview with developers**

**Interview with local planning authorities**

# Case-studies

	Project	Developer	Location	Scale	Function	Space division
1	Ecommunitypark	Ecommunitypark B.V.	The Netherlands	17 ha	Business park*	45% green and water, 55% built
2	Masthusen	Skandia Fastigheter	Sweden	11 ha	Mixed-use	70,000 m <sup>2</sup> offices 20,000 m <sup>2</sup> retail/services 700 residential units
3	MediaCityUK	Peel Group	UK	81 ha	Mixed-use	65,000 m <sup>2</sup> 80,000 retail/leisure 2,300 parking units 200 beds hotel plaza for 4,0000 people



**Ecommunitypark**



**Masthusen**



**MediaCityUK**



# Case-studies

Variables for cross-case comparison

## DRIVERS

financial

legislative

reputational

intrinsic

## INCENTIVES

financial

legislative

reputational

capacity-building

## BARRIERS

financial

legislative

organizational

knowledge

# Case-studies

## Semi-structured interviews

	Project	Title	Interviewee	Date
1	Ecommunitypark	Project manager Ecommunitypark	Bert Krikke	September 26 2016
2	Ecommunitypark	Gemeente Ooststellingwerf	Bart Sieben	October 18 2016
3	Ecommunitypark	Project manager ECOStyle	Deborah Goeree	October 18 2016
5	Masthusen	Project manager Skandia Fastigheter	Anna Barosen	October 21 2016
6	Masthusen	City Council of Malmö	Tor Fossum	October 14 2016
7	MediaCityUK	Project manager MediaCityUK (Peel Media)	Mark Robinson	October 24 2016
8	MediaCityUK	Salford City Council	Chris Findley	November 1 2016



# Ecomunitypark

# Ecommunitypark

- Business park in Oosterwolde, the Netherlands focused on bio-based industry
- Owner ECOStyle sought new establishment: developer is end-user
- Non-traditional developer
- 45% building, 55% green and water division
- One-on-one contact with municipality
- Received public funding; infrastructure, subsidies and buildings
- BREEAM-NL Gebiedsontwikkeling to demonstrate sustainability performance



# Masthusen





# Masthusen

- Mixed-use urban area in Masthusen, Malmö, Sweden
- Traditional developer with large area to secure and market
- Challenges to adapt BREEAM Communities to Swedish context
- Progressive municipality; nearby projects also sustainable
- BREEAM Communities as strong tool in decision-making and sell to others
- Long processes to take all stakeholders' opinion in consideration

# MediaCityUK



# MediaCityUK

- Mixed-use urban area focused on media in Salford, Manchester, UK
- Developer/investor won bid set up by end-user BBC
- First to use BREEAM Communities- flexibility of early-adopter
- Strong anchor BBC to attract other corporate tenants
- Strategic partnerships with Salford City Council
- Focus on life cycle benefits; from construction to operational phase
- Public investment: infrastructure, public transportation, public realm and incubator





## Comparison findings

# Comparison

## Stakeholders

Type of developer	Ecommunitypark	Masthusen	MediaCityUK
Name developer	Ecommunitypark B.V.	Diligentia	Peel Group
Single or multiple	Single developer	Single developer	Single developer
Type of developer	Developer/investor	Traditional developer	Developer/investor
Duration involvement	Long term: Involved in operational phase with park management and owner's association	Short term: Involved only in development phase	Long term: Involved throughout life cycle- asset management
Key stakeholders	ECOSstyle, Ecommunitypark B.V. Municipality of Ooststellingwerf	Skandia Fastigheter and City of Malmö	BBC, Peel and Salford City Council
Public or private-led	Private-led	Private-led	Private-led
Role of municipality	Facilitating	Facilitating	Facilitating
Collaboration	Worked together on sustainable plans/vision	Worked together on sustainable plans/vision	Worked together on sustainable plans/vision
Use of BREEAM	BREEAM as guiding tool, suggested by municipality	BREEAM as guiding tool, suggested by developer	BREEAM as guiding tool, suggested by bid

- Type of developer (short vs long term)
- Facilitating yet active municipalities
- BREEAM as guiding tool during process



# Comparison

## Stakeholders' drivers

Type	Ecommunitypark	Masthusen	MediaCityUK
Financial	<ul style="list-style-type: none"> <li>Commercial drivers (D)</li> <li>Job creation (L)</li> </ul>	<ul style="list-style-type: none"> <li>Secure risks large-scale development (D)</li> </ul>	<ul style="list-style-type: none"> <li>Costs and asset value (D)</li> <li>Job creation (L)</li> </ul>
Reputational	<ul style="list-style-type: none"> <li>Reputation of ECOStyle (D)</li> <li>Setting an example (L)</li> <li>Image improvement (L)</li> </ul>	<ul style="list-style-type: none"> <li>Demonstrating sustainability (D)</li> <li>Publicity (D)</li> <li>Corporate Responsibility (D)</li> <li>City profile (L)</li> </ul>	<ul style="list-style-type: none"> <li>Image (D)</li> <li>Front-runner (D)</li> <li>Profiling (L)</li> </ul>
Legislative	-	-	<ul style="list-style-type: none"> <li>Anticipation on legislative changes (D)</li> </ul>
Intrinsic	<ul style="list-style-type: none"> <li>Initial drive (D)</li> </ul>	<ul style="list-style-type: none"> <li>Interest to learn (L)</li> </ul>	<ul style="list-style-type: none"> <li>Company values (D)</li> </ul>

- Financial and reputational drivers most addressed
- Financial and reputational drivers create shared interests between public and private
- Legislative drivers least addressed
- Long term developers share intrinsic values

# Comparison

## Barriers

Type	Ecommunitypark	Masthusen	MediaCityUK
Financial	<ul style="list-style-type: none"> <li>Ratio buildings-land</li> <li>Split-incentive</li> <li>Costs and time BREEAM</li> <li>Unwillingness to pay for residential</li> </ul>	<ul style="list-style-type: none"> <li>Costs and time BREEAM</li> <li>Time delays and do-overs</li> <li>Unwillingness to pay for residential</li> </ul>	<ul style="list-style-type: none"> <li>Budget decisions for total life cycle</li> <li>Public realm is invaluable</li> <li>Tight deadline</li> </ul>
Legislative	<ul style="list-style-type: none"> <li>Flexibility of zoning plan</li> <li>Protests of nearby residents (NIMBY)</li> <li>Integrating BREEAM in planning</li> <li>Ratio buildings-land</li> </ul>	<ul style="list-style-type: none"> <li>Contextual barriers – BREEAM</li> <li>Paper work BREEAM</li> <li>Integrating BREEAM in planning</li> <li>Democratic actors' participation</li> <li>Unable to operate public realm</li> </ul>	-
Knowledge	<ul style="list-style-type: none"> <li>Lack of knowledge/education</li> <li>Incorporation soft values</li> </ul>	<ul style="list-style-type: none"> <li>Adoption BREEAM (unprepared)</li> </ul>	<ul style="list-style-type: none"> <li>Lack of knowledge/education</li> <li>Incorporation soft values</li> <li>Unable to transfer experience</li> </ul>
Organizational	<ul style="list-style-type: none"> <li>Inefficient municipal organizational structure</li> </ul>	<ul style="list-style-type: none"> <li>Internal resistance due to costs and time</li> </ul>	-

- Financial barriers are most common- yet not a major barrier
- Legislative and knowledge barriers are important to address (by local planning authorities)
- High costs and time related to BREEAM also a main barrier

# Comparison

## Incentives

Type	Ecommunitypark	Masthusen	MediaCityUK
Financial	<ul style="list-style-type: none"> <li>Economies of scale (DE+BR)</li> <li>Obtaining permits faster (DE)</li> <li>Incorporating soft values (BR)</li> <li>Subsidies (DE)</li> <li>Costs land value (DE+BR)</li> <li>Long term operator/ end-user (DE+BR)</li> <li>Municipality also invests/contributes (DE)</li> </ul>	<ul style="list-style-type: none"> <li>Risk reduction (DE+BR)</li> <li>Economies of scale (DE+BR)</li> </ul>	<ul style="list-style-type: none"> <li>Risk reduction due to end-user(DE)</li> <li>Long term operator/ end-user (DE+BR)</li> <li>Scale to keep growing (DE)</li> <li>Willingness to pay/cooperate established corporates (DE+BR)</li> <li>Municipality also invests/contributes (DE)</li> <li>Maintaining public realm(DE+BR)</li> <li>Subsidies (DE)</li> </ul>
Reputational	<ul style="list-style-type: none"> <li>BREEAM to profile (DE)</li> <li>BREEAM to make sustainability tangible (DE)</li> </ul>	<ul style="list-style-type: none"> <li>Publicity (DE)</li> <li>Demonstrate sustainability (DE)</li> <li>Company with right mindset/skills (DE+BR)</li> </ul>	<ul style="list-style-type: none"> <li>Company with right mindset/skills (DE+BR)</li> <li>Anchor end-user to attract other tenants (DE)</li> <li>Marketing of area BREEAM (DE)</li> <li>Shared visions corporates(DE+BR)</li> </ul>
Legislative	<ul style="list-style-type: none"> <li>Change of zoning plan (BR)</li> <li>BREEAM to guide actors and process (DE)</li> <li>Municipal contact person to assist (DE+BR)</li> </ul>	<ul style="list-style-type: none"> <li>BREEAM to guide decision-making and negotiations with others (DE)</li> </ul>	<ul style="list-style-type: none"> <li>Bid with clear requirements (DE)</li> <li>BREEAM to guide decision-making and negotiations with others (DE)</li> <li>Faster approval for permits (DE+BR)</li> </ul>
Capacity-building	<ul style="list-style-type: none"> <li>Positive attitude and support municipality (DE)</li> </ul>	<ul style="list-style-type: none"> <li>Exemplary projects nearby(DE)</li> <li>Progressive/supportive municipality (DE)</li> </ul>	<ul style="list-style-type: none"> <li>Supportive/ partner-like municipality (DE)</li> </ul>

- Financial incentives are most common to both empower drivers and reduce barriers
- Reputational drivers also popular-mostly aimed to empower drivers
- Legislative and capacity-building incentives related to role municipality (and other actors)





# Conclusion and recommendations



# Research questions (recap)

**How can private developers be incentivized by governmental parties to invest in sustainable mixed-use urban development projects?**

1. How are the stakeholders' roles and partnerships structured within the development process?
  1. What are the drivers of the main actors involved?
  2. How is the partnership and collaboration in the development process?
  3. What is the role of BREEAM during the development process?
2. What barriers are encountered during the process of sustainable urban development?
3. What incentives are applied during the process of sustainable urban development?



# Stakeholders

## Partnerships:

- Private-led by single developer and facilitated by municipality.
- Municipalities must have a facilitating yet active role in collaboration and support

## Role of BREEAM:

- BREEAM as strong tool to guide decision-making and negotiation process between actors- especially to make sure new developers/tenants follow requirements
- BREEAM used to demonstrate sustainability achievements

## Drivers:

- Combination of finance and reputational drivers are regarded most important
- Reputational drive can be affected by function (business versus residential)
- Intrinsic driver can possibly be linked to long term commitment of developer

# Barriers

- Financial barriers are most commonly addressed and continues to be important
  - BREEAM costs and time
- Yet, financial barrier did not pose as major risks to the developments
- Financial barriers are affected by the perceived market acceptance based on different types of end-users
- Knowledge barriers are not be underestimated- as they often lead to financial barriers
- Legislative barriers often included BREEAM and its integration in the planning framework
  - Can also be contextual
- Organizational barriers were not common, but could be due to the reputational drivers of these front-runner developments.

# Incentives

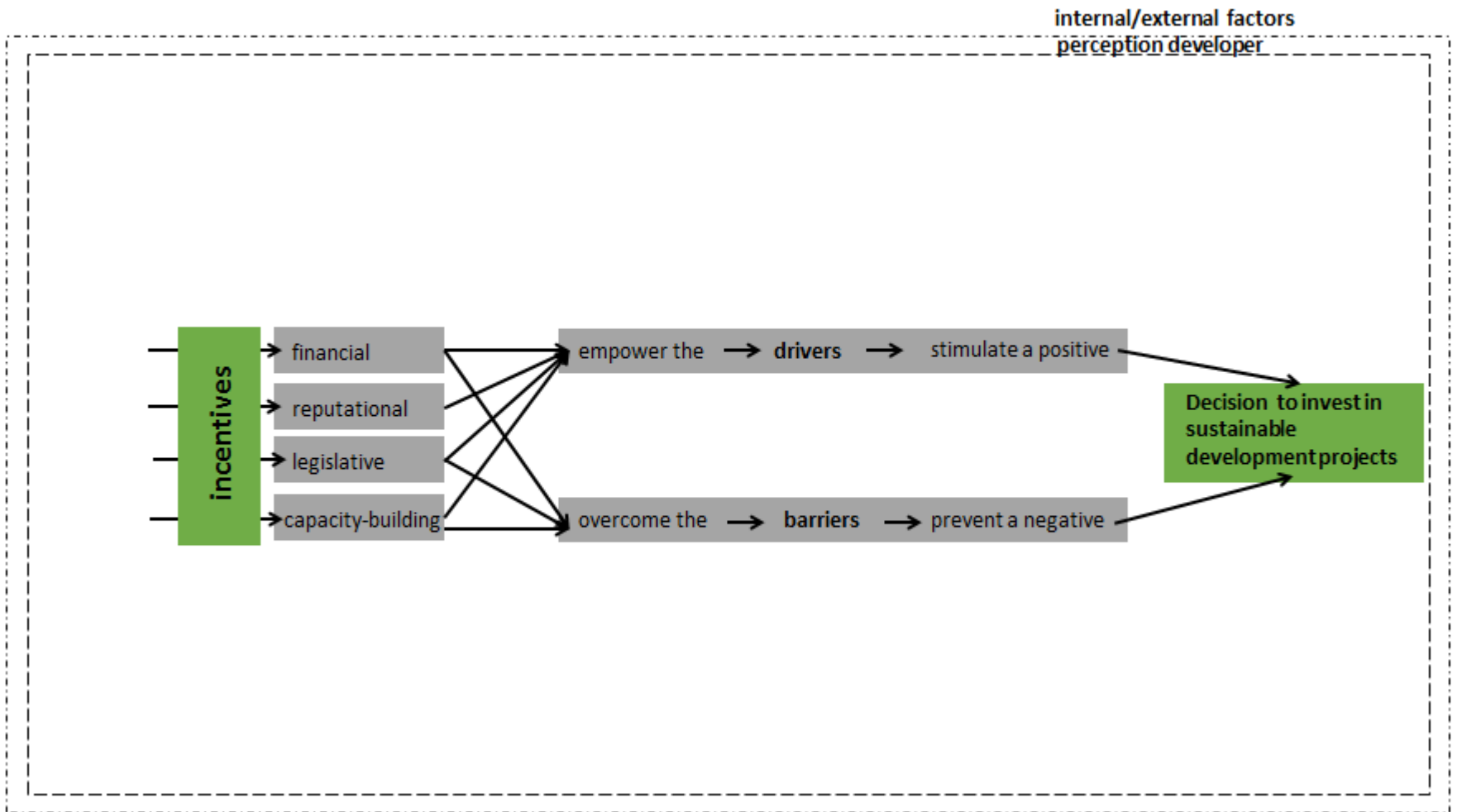
- Incentives can be used to empower drivers and/or to reduce barriers
- Combinations of incentives are applied
- **Financial incentives:**
  - Most relevant and often targeted to both empower drivers and reduce barriers
  - More likely to empower drivers for long term developers
  - Secondary to other incentive types
- **Reputational incentives:**
  - Mostly to empower drivers- becoming more important (in particular for companies)
  - Use of BREEAM to achieve this
  - Can help create shared interests
- **Legislative incentives:**
  - Mostly associated with BREEAM and its integration in planning procedures, and more efficient permit procedures – to empower drivers
  - Contextual factors can also play a big role
- **Capacity-building incentives:**
  - Active role of municipality in supporting and contributing to the development (exemplary role)
  - Support in knowledge, partnerships and funding to empower drivers

# Conclusion

- Private developers can be stimulated to with a **combination of financial, reputational, legislative and capacity-building incentives**
- Incentives targeted to **empower the drivers of developers** appear most stimulating
- The focus on **financial and reputational drivers and incentives** appear most interesting for developers
- By actively being involved, municipalities can **empower drivers with legislative and capacity-building incentives**
- The **type of developer**- short versus long term commitment- or front-runners versus followers can affect – including their **individual perceptions**
- **Internal/external factors** can also affect the outcome



# Conclusion



# Recommendations

## Stakeholders

*“Municipalities can facilitate by creating demand or necessary scale for the certification to become interesting.”- Barenbrug*

*“With financing the most important driver, banks can play a big role”.*  
*– Sieben*

# Recommendations

## Barriers

*“There is still much of an educational process to go through...You are trying to educate people that if you invest in a more efficient building, it will drive you year-on-year savings on energy bills. But it is not easily translating to values at the moment.” – Robinson*

*“Soft values for the environment are hard to translate and explain.” – Barenbrug*

# Recommendations

## Incentives

*“Incorporate the BREEAM-NL Gebiedsontwikkeling in the Dutch planning process to make approvals more efficient.” – Marcelis*

*“It is a mix of a lot of things that need to be thrown in there to incentivize developers. You have to have a bit of different elements to help make it work.” – Robinson*



# Recommendations

## For further research

- Translating the added value of soft values into calculation models
- The ownership and maintenance of public areas by private parties
- Sustainable urban re-development
- Change management and decision-making process for sustainable urban developments
- Explore health and well-being in urban development projects

An aerial, high-angle view of a futuristic, green-covered skyscraper complex. The buildings are covered in lush greenery and have a grid-like facade. In the background, a city skyline is visible across a body of water, with wind turbines on a nearby island. The overall scene is a blend of nature and advanced urban architecture.

**QUESTIONS?**

**FEEDBACK?**

**THANK YOU!**