

# From urban experimentation to management transformation:

Applying urban living lab findings to challenge business-as-usual management practices

**Feike Jansen**

Graduation research | P5  
June 2024

In collaboration with  
**Dr. A (Aksel) Ersoy & Prof. Dr. P.W. (Paul) Chan**

In the past decades,  
**technological innovation changed the modern world**  
at a growing speed **adding new systems**  
to all areas **of human activity.**



1970



1970



2024

(Delft)



1970

(Delft)



1970

(Amsterdam)



2024

**Innovations come forward from try-outs.**

---

1970

2024

**Our cities are not directly sensitive to innovation flows  
and are dependent on long-term processes.**



1970

2024

Our cities are not directly sensitive to innovation flows and are dependent on long-term processes.

**Cities must change** their business-as-usual **to meet the sustainability goals** to prevent further climate change.

### High energy consumption

two-third of  
global energy demand

### CO2 emissions

ca. 70% of  
global CO2 emissions

### Population growth

58% of people will live  
in cities by 2070

1970

2024

**Experimentation is a proven method to start such change.**



ng L

(The green living lab, Amsterdam)

**But how** can we **implement the lessons learned**  
from this urban experimentation **to seek change?**

# In the next 30 minutes...

## 1. Why research transforming business-as-usual?

Problem statement

## 2. Theory: learning vs transforming

Context, process and actors: definitions

## 3. How is the research executed?

Research method: theoretical and empirical

## 4. Empirical research: three nested case-studies

Cases: Haven-Stad, M4H and Binckhorst

Findings: Focus on inner-organizational transformation

## 5. Synthesis: Transformation strategy

Starting point: Organization as an island

Elaboration: three phases in non-linear process

## 6. Discussion & conclusion

Research gap

Very briefly (2 min.)

Theory elaboration

Explanatory (5 min.)

Research set-up

Explanatory (3 min.)

Work elaboration

Explanatory (5 min.)

Recommendations

Advice (10 min.)

Wrap up (5 min.)

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2. Theory: learning vs transforming	Theory elaboration Explanatory (5 min.)
3. How is the research executed?	Research set-up Explanatory (3 min.)
4. Empirical research: three nested case-studies	Work elaboration Explanatory (5 min.)
5. Synthesis: Transformation strategy	Recommendations Advice (10 min.)
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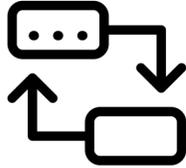
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# **Why** research transforming business-as-usual?

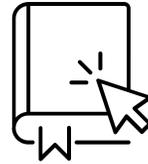
Research gap

# Why research transforming business-as-usual?

Problem statement



Concern about the **lack of information transfer of knowledge** we learn from experimental projects to practice.



Previous studies have focused on **what we learn** in experimental projects.



We know little about **how to implement the lessons learned in business-as-usual** management practices

to catalyze sustainable transitions in the construction sector.

# Main research question

Problem statement

How can management practices  
**learn from experimental projects to transform business-as-usual**  
to stimulate sustainable urban transitions?

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concept 1

Learning from  
experimental  
projects

concept 2

Transforming  
business-as-usual  
(BAU)

context of research

Sustainable urban  
transitions

empirical context

Urban living labs

# 2

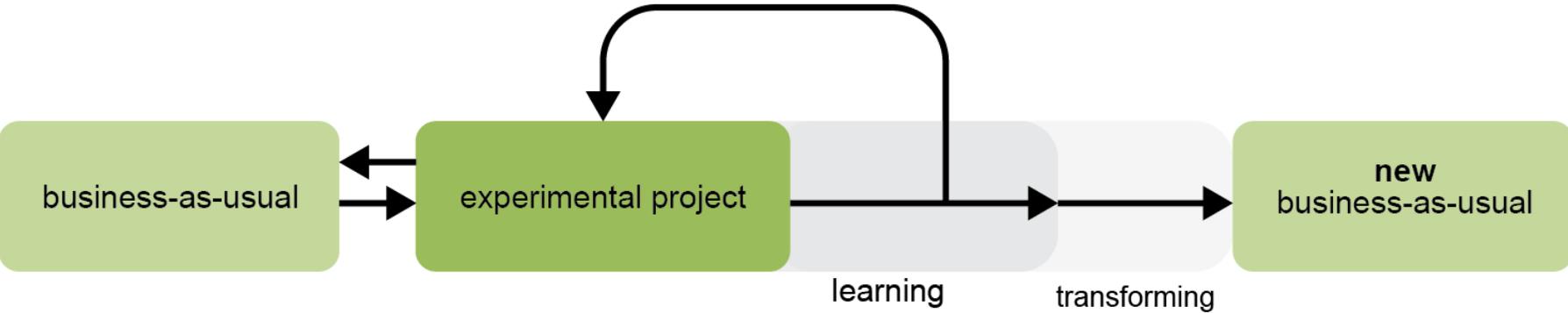
## **Theory:** learning vs transforming

Context, process and actors

# Conceptual model

Theory

How can management practices  
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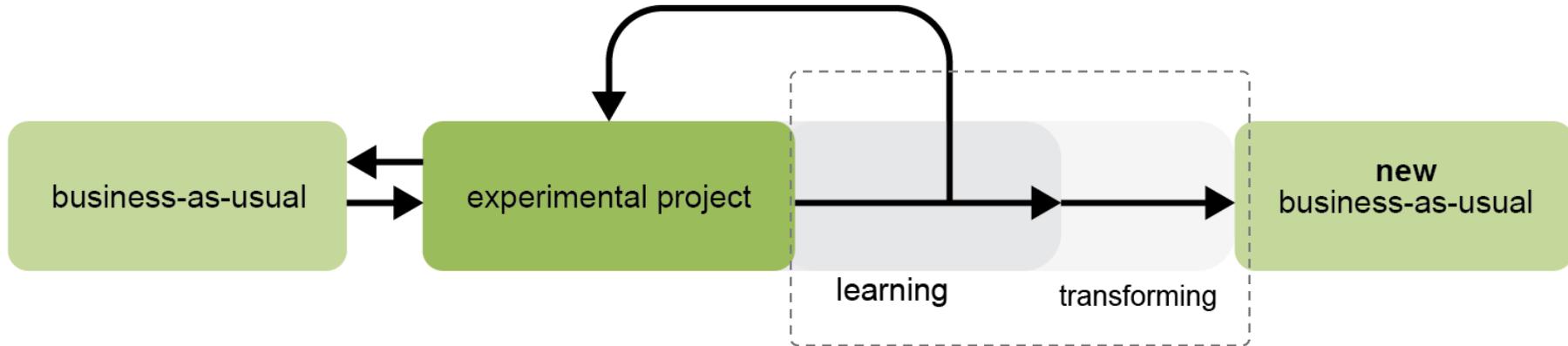
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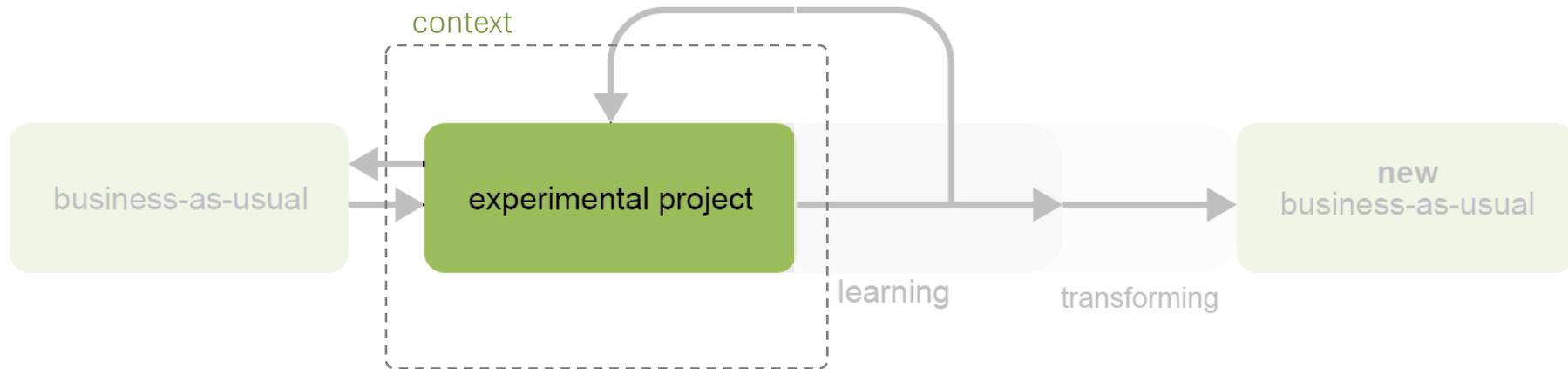
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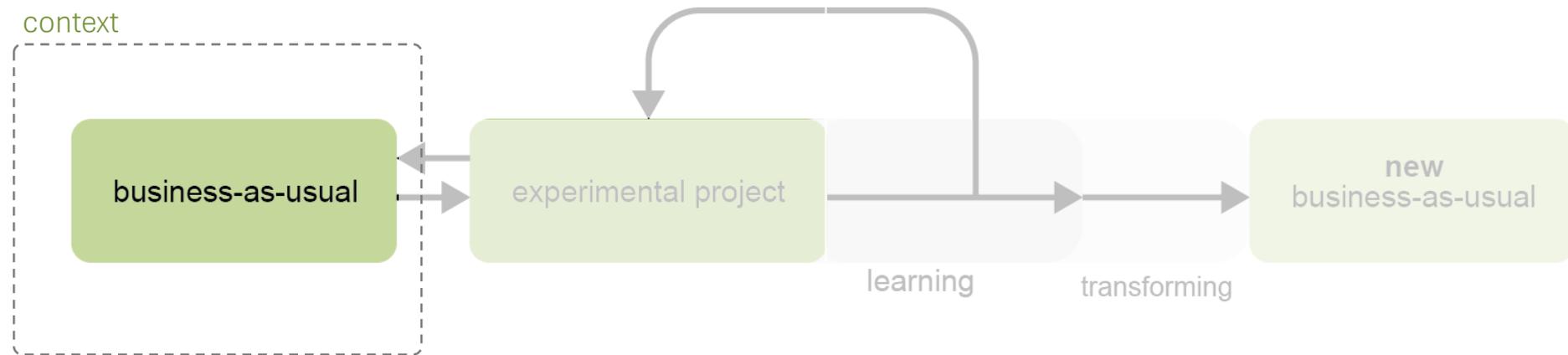
An experimental project is **an open innovation ecosystem** where people employ methods to **explore, experiment, and test new products, systems, services, and processes** in real-life urban communities.

The project aims to integrate research and innovation processes **to design, evaluate, and implement creative solutions.**

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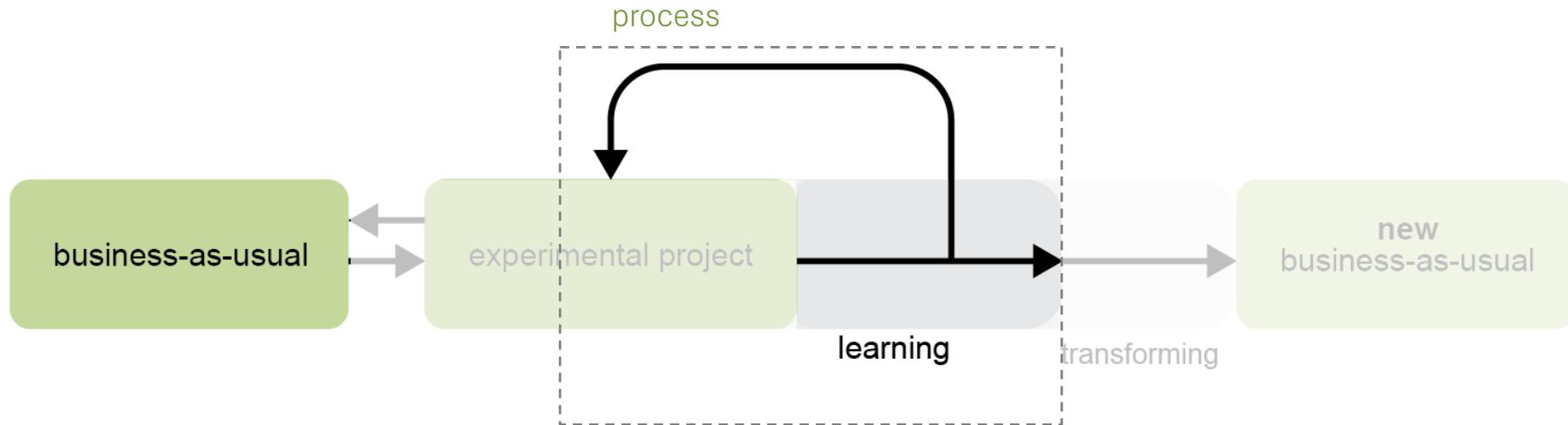
The term business-as-usual refers to **the normal way of working**, how people do work now, and form the counterpart of the experimental project.

Business-as-usual will be used **to define a process**, not a project.

# Conceptual model

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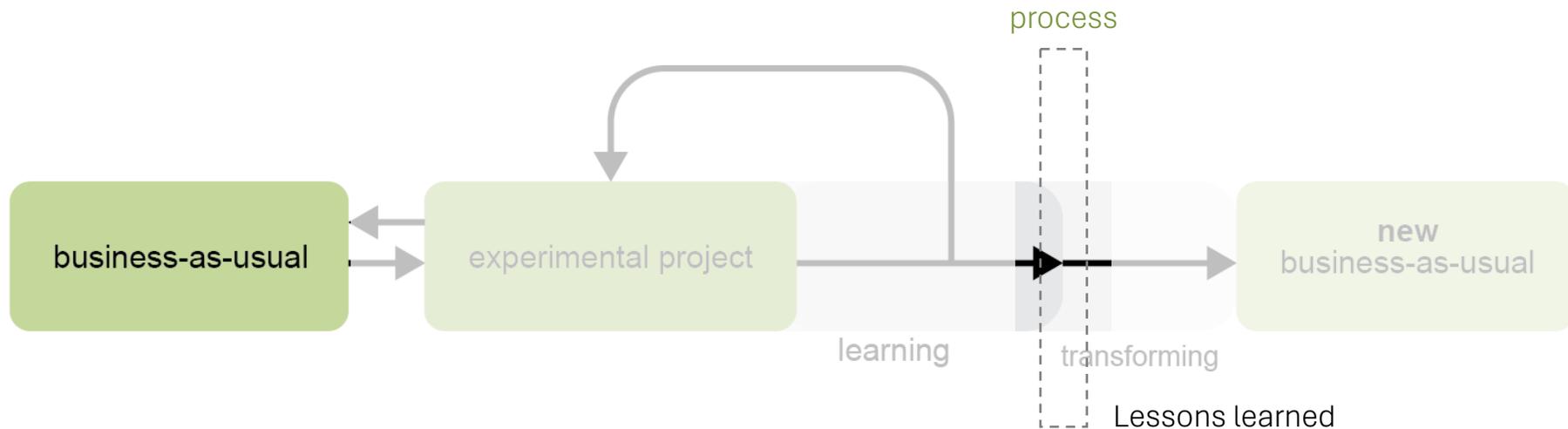
The term learning refers to the process of **gaining new knowledge through (social) network interaction.**

Learning is categorized into different types.

# Conceptual model

Theory

How can management practices  
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Lessons are defined as learned when **a lesson has changed something**.

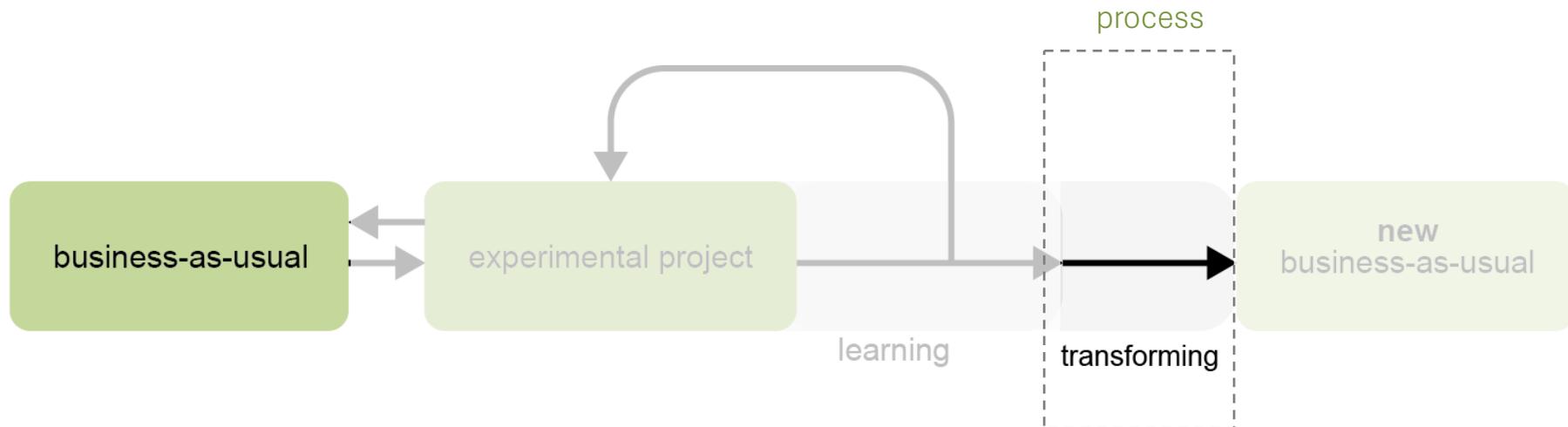
Lessons learned are used to **translate findings** that are tested in an experimental project to a different scale or transform business-as-usual.

It is a starting point for transformation.

# Conceptual model

Theory

How can management practices  
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Transforming is the **process of improving performance**. Creating a **behavioral change** is key to transforming a process.

It is important to be aware of **the difficult and long-term process** requiring persistent effort to make this change possible.

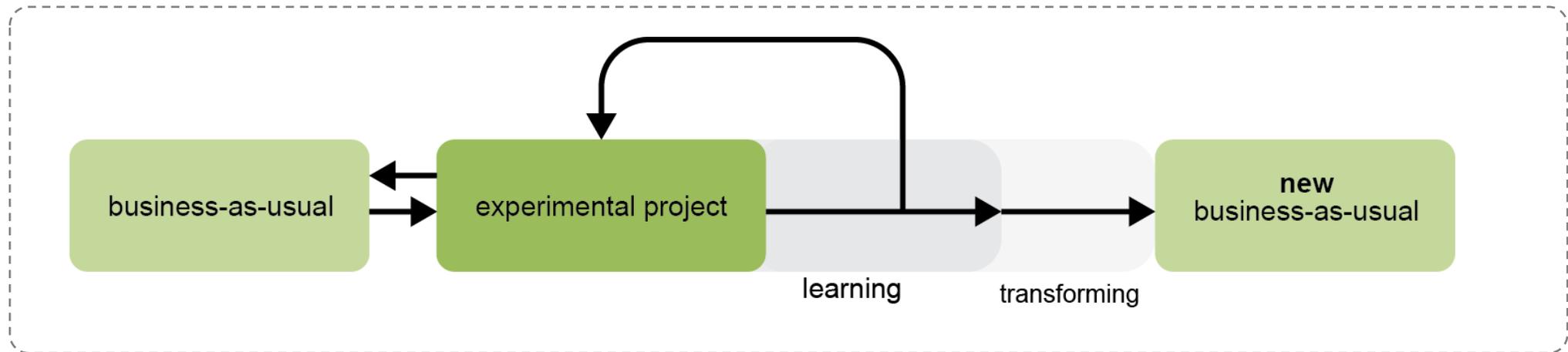
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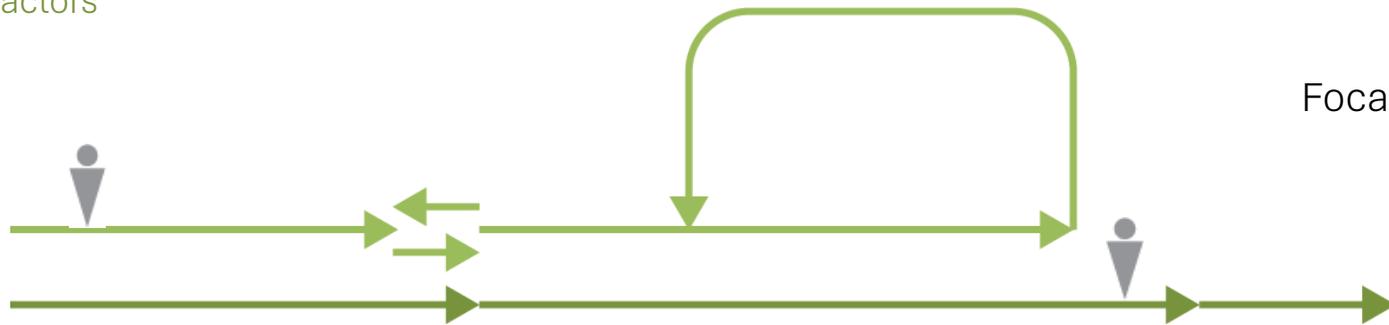
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actors



Focal actor: **individual or organization**

# 3

**How** is the  
research executed?

Research method

# Sub research questions

Research method

How can management practices **learn from experimental projects to transform business-as-usual** to stimulate sustainable urban transitions?

theoretical  
research

- 1 | **What lessons are learned** from experimental projects?
- 2 | What are the current **challenges, barriers, and drivers to implementing new knowledge** concerning sustainable urban transitions in projects?
- 3 | How can lessons **from a niche level** be translated **to a regime level**?

empirical  
research

- 4 | How can the **knowledge transfer from experimental projects to business-as-usual** be facilitated?

synthesis

- 5 | How can a **framework** be designed to steer the learning of management practice to transform business-as-usual to stimulate sustainable urban transitions?

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# Research design

Research method

theoretical research

previous studies



empirical research

cases

interviews

findings

1



2



3



case analysis

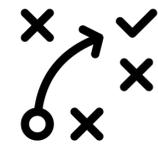
cross-case analysis



synthesis

design

validate



# Research design

Research method

theoretical research

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case analysis

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# Research design

Research method

theoretical research

previous studies



empirical research

cases

interviews

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cross-case

1



2



3



## Case selection criteria

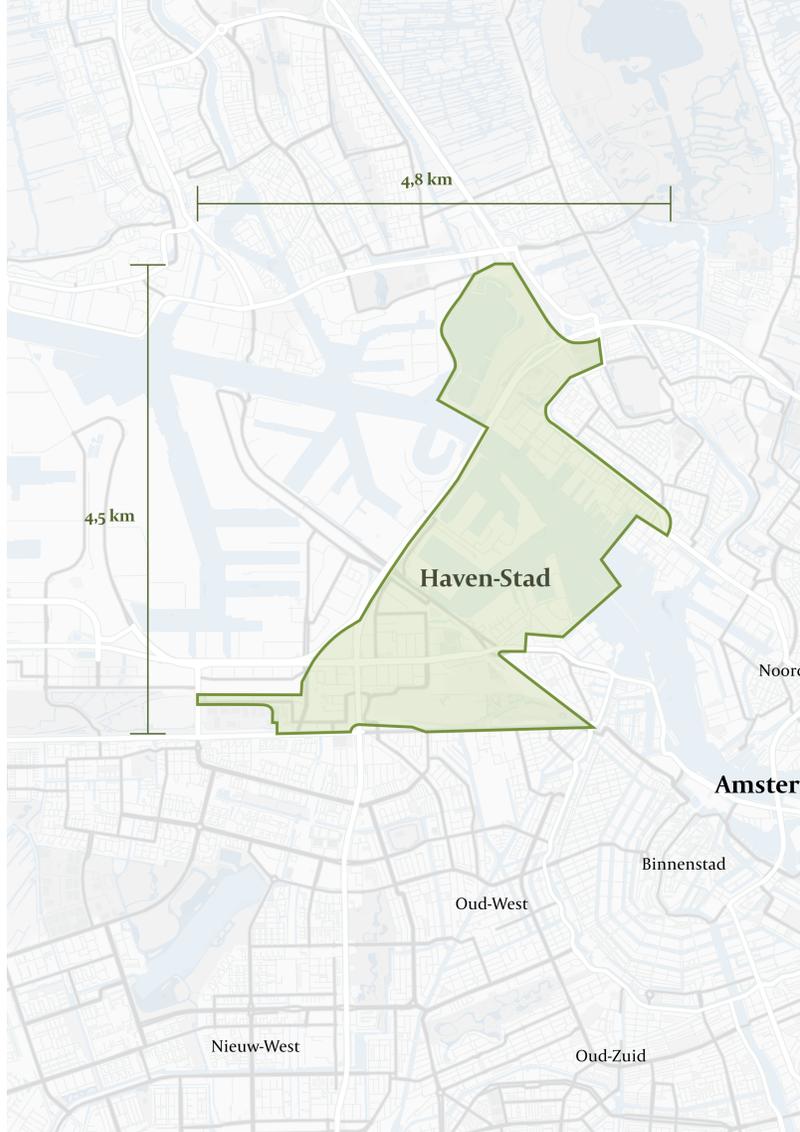
- Part of a sustainable urban transition.
- Part of an urban area development.
- A business-as-usual way of working is used or has been used.
- Includes an experimental instrument.
- Has a parent organization.

synthesis

design

validate





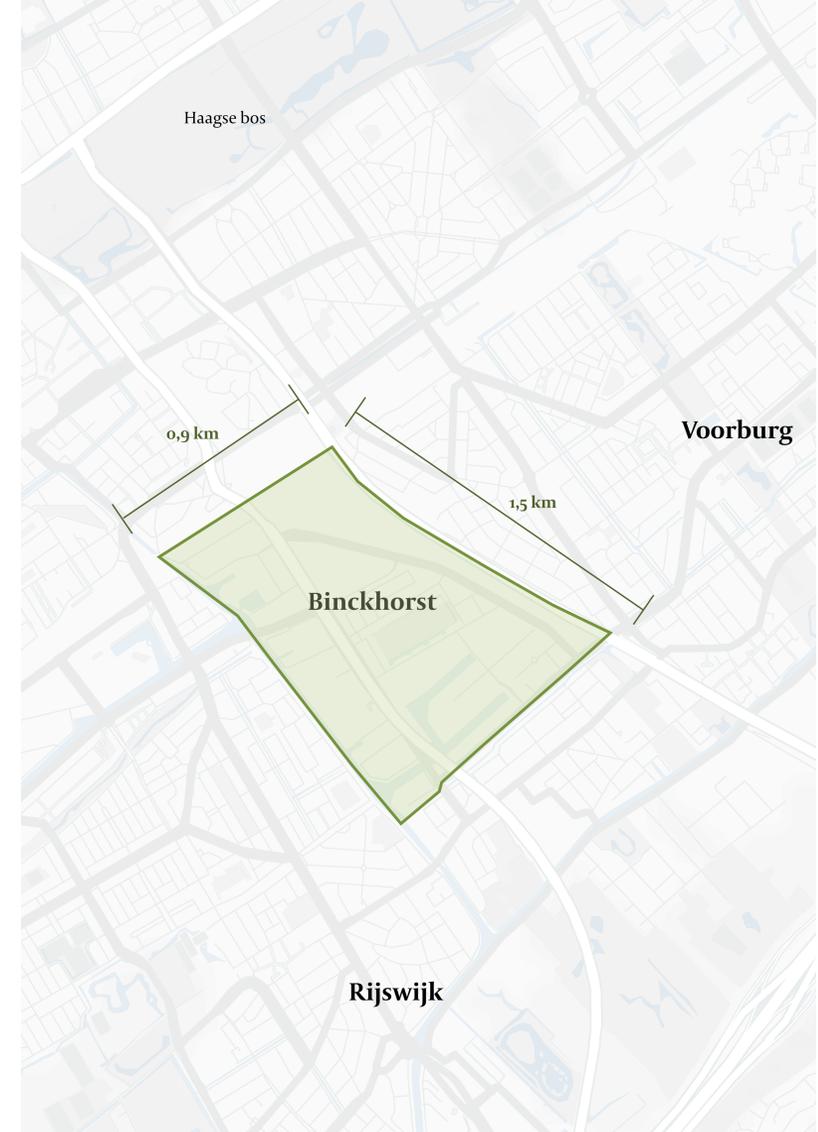
## Haven-Stad

Amsterdam



## Merwe-Vierhavens

Rotterdam



## Binckhorst

Den Haag

# Research design

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empirical research

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3



case analysis

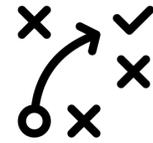
cross-case analysis



synthesis

design

validate



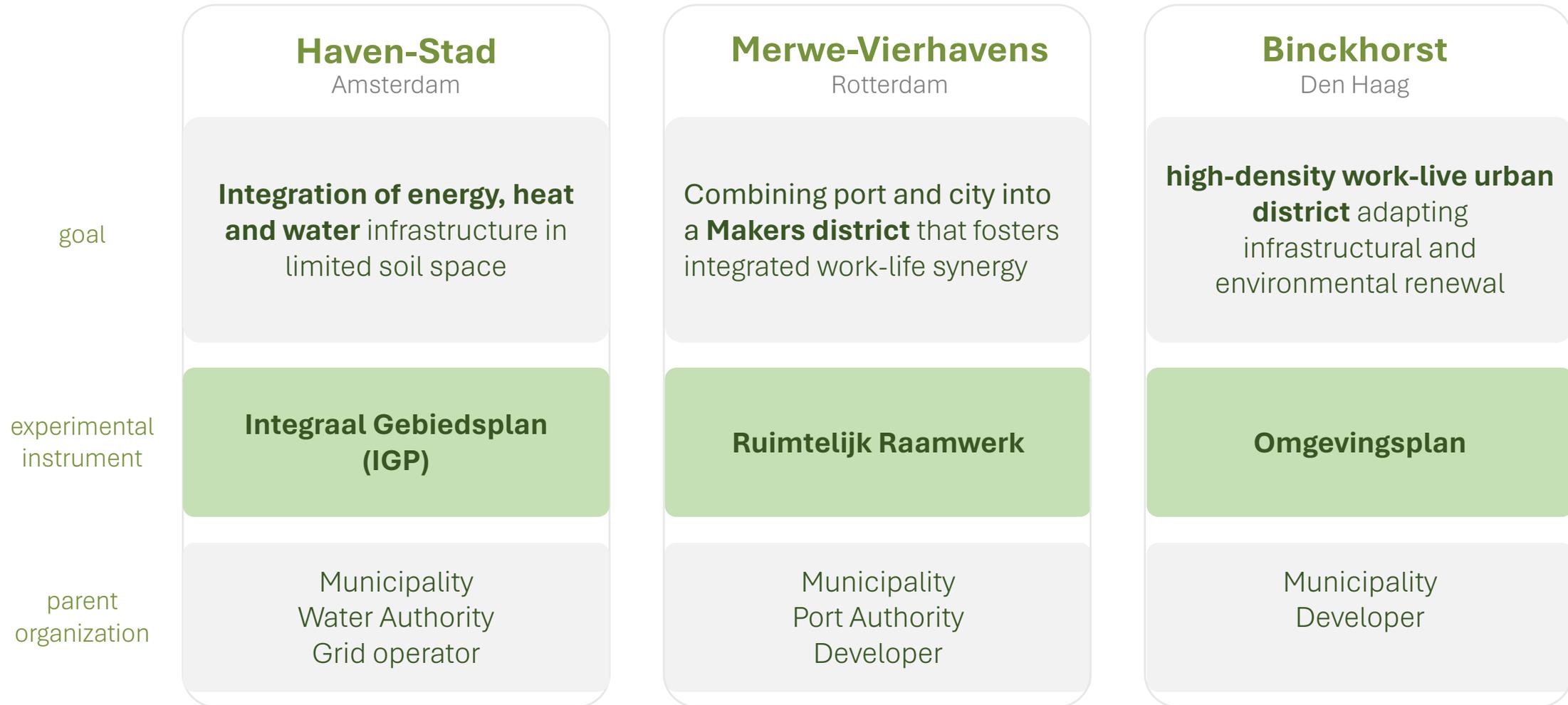
# 4

## **Empirical research:** three nested case- studies

Cases, analyses and findings

# Nested case-studies: three different experimental instruments

Empirical research



# Cross-case analysis

## Empirical research

### Learning

#### Learning-by-doing

Step out of own process	HAV	-	-
Internal process group	HAV	-	-
Trial and error	HAV	M4H	-
Step-by-step approach	HAV	M4H	-
Intensive cross-organizational collaboration	HAV	M4H	BINCK
Flexibility	HAV	M4H	BINCK
Crash tests	-	-	BINCK
Speedboat-principle	-	M4H	-
Learning-by-thinking			
Understanding other's needs	HAV	M4H	-
Thinking around	HAV	-	-
Awareness of possibilities	-	-	BINCK
Learning-by-researching			
Adjust from evaluation	HAV	M4H	BINCK
Learning-by-watching			
Knowledge sessions	-	-	BINCK

### Transforming

#### Individual

Timing of interventions	HAV	-	-
Perseverance	HAV	M4H	-
Physical presence	-	M4H	-
Intermediate reflection	-	-	BINCK
Organizational			
Shared financial interest	HAV	-	-
Common understanding	HAV	M4H	BINCK
Long-term capacity of manpower	HAV	-	BINCK
Transformative governance capabilities	HAV	-	BINCK
Flexibility in policies	-	M4H	BINCK

Case 1 | **Haven**-Stad

Case 2 | **Merwe-Vier**havens

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# Cross-case analysis

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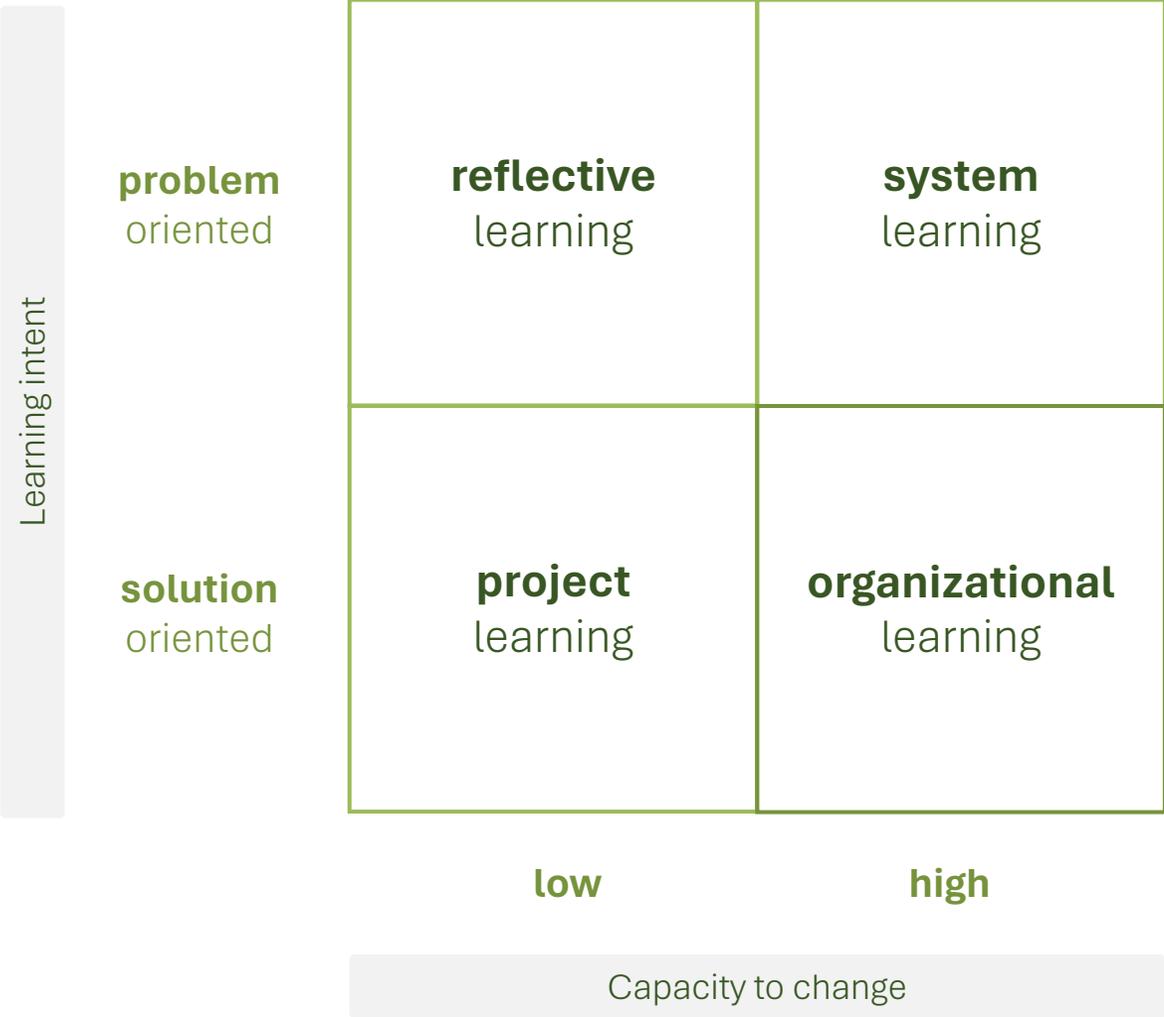
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# Transformation strategy for business-as-usual: starting point

Empirical research



# Transformation strategy for business-as-usual: starting point

Empirical research



## Learning intent

**How** an individual or an organization intends to learn.

**Solution-oriented** means one is focused on **coming to the solution** of an assignment, challenge, or task.

**Problem-oriented** means that one is focused **on solving the core problem** of an assignment, challenge, or task.

*It is not about the solution but how to solve the core of the problem.*

# Transformation strategy for business-as-usual: starting point

Empirical research



## Capacity to change

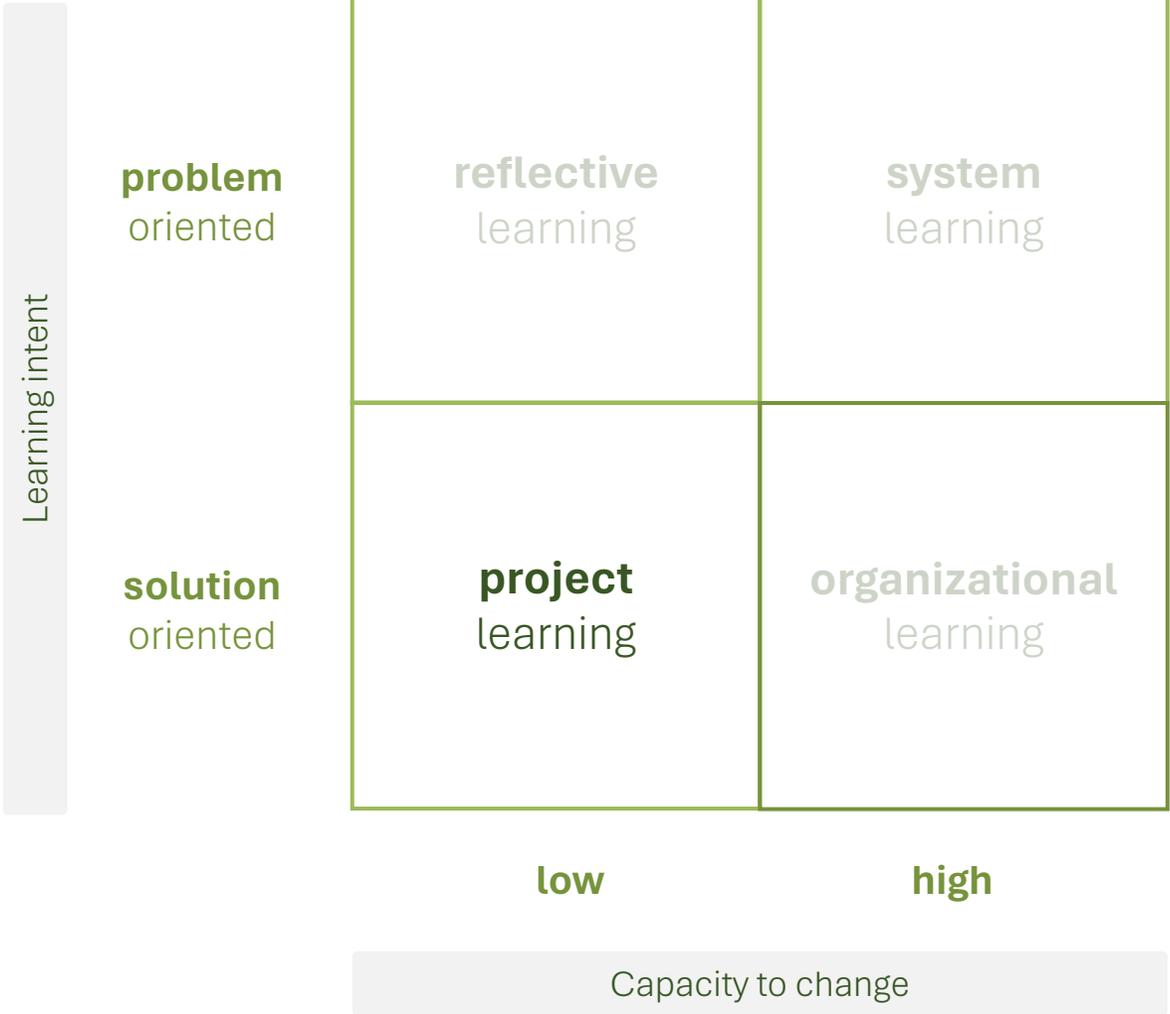
An individual or organization's **ability to adapt, evolve, and successfully navigate** through transitions or transformations.

With **low** capacity, one has **few resources and opportunities** to change the way of working.

**High** capacity refers to **many resources and opportunities** to change.

# Transformation strategy for business-as-usual: starting point

Empirical research

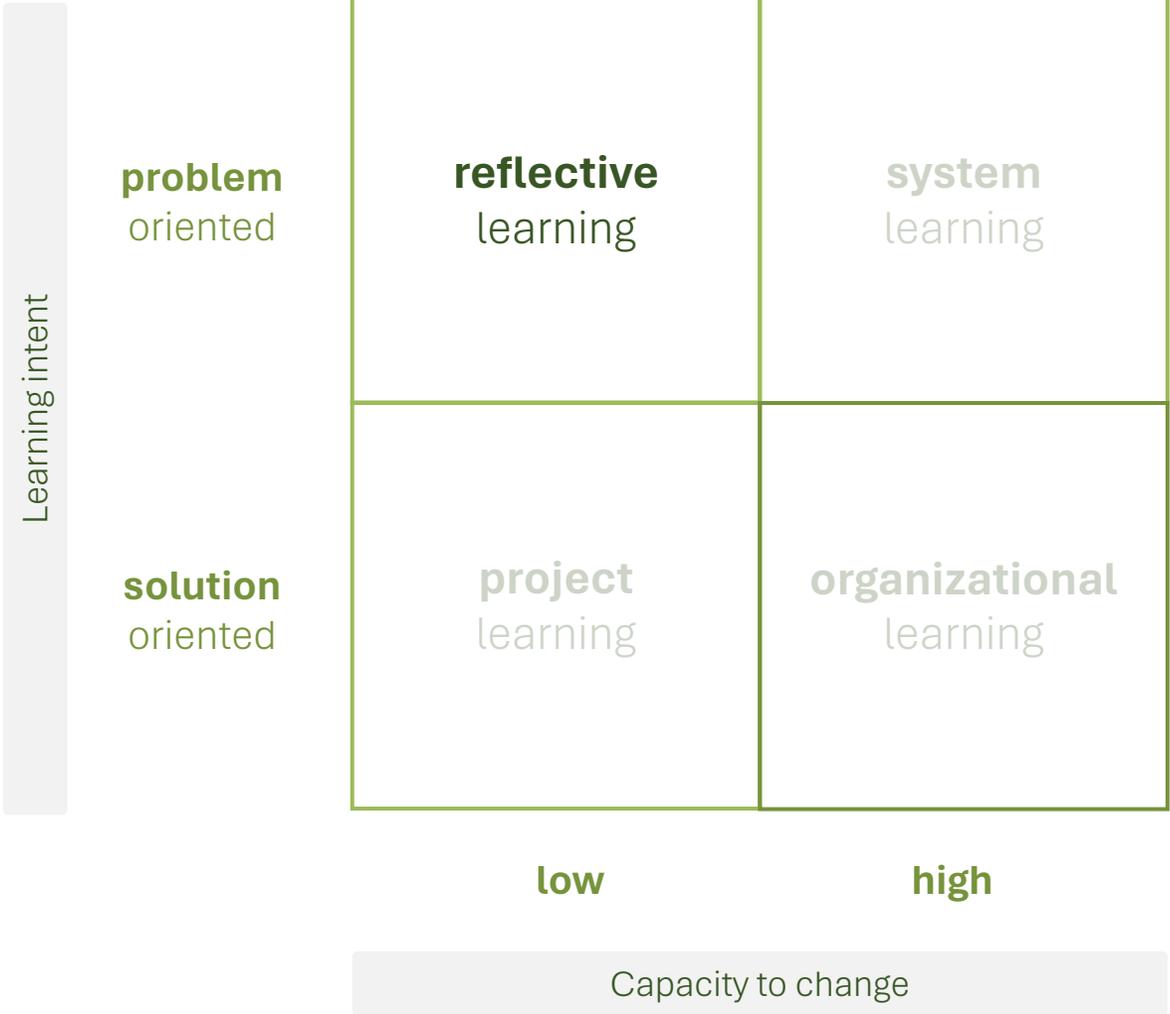


## Project learning

Engagement in an extended project to **explore and apply knowledge and skills** to foster a deeper understanding and practical application.

# Transformation strategy for business-as-usual: starting point

Empirical research

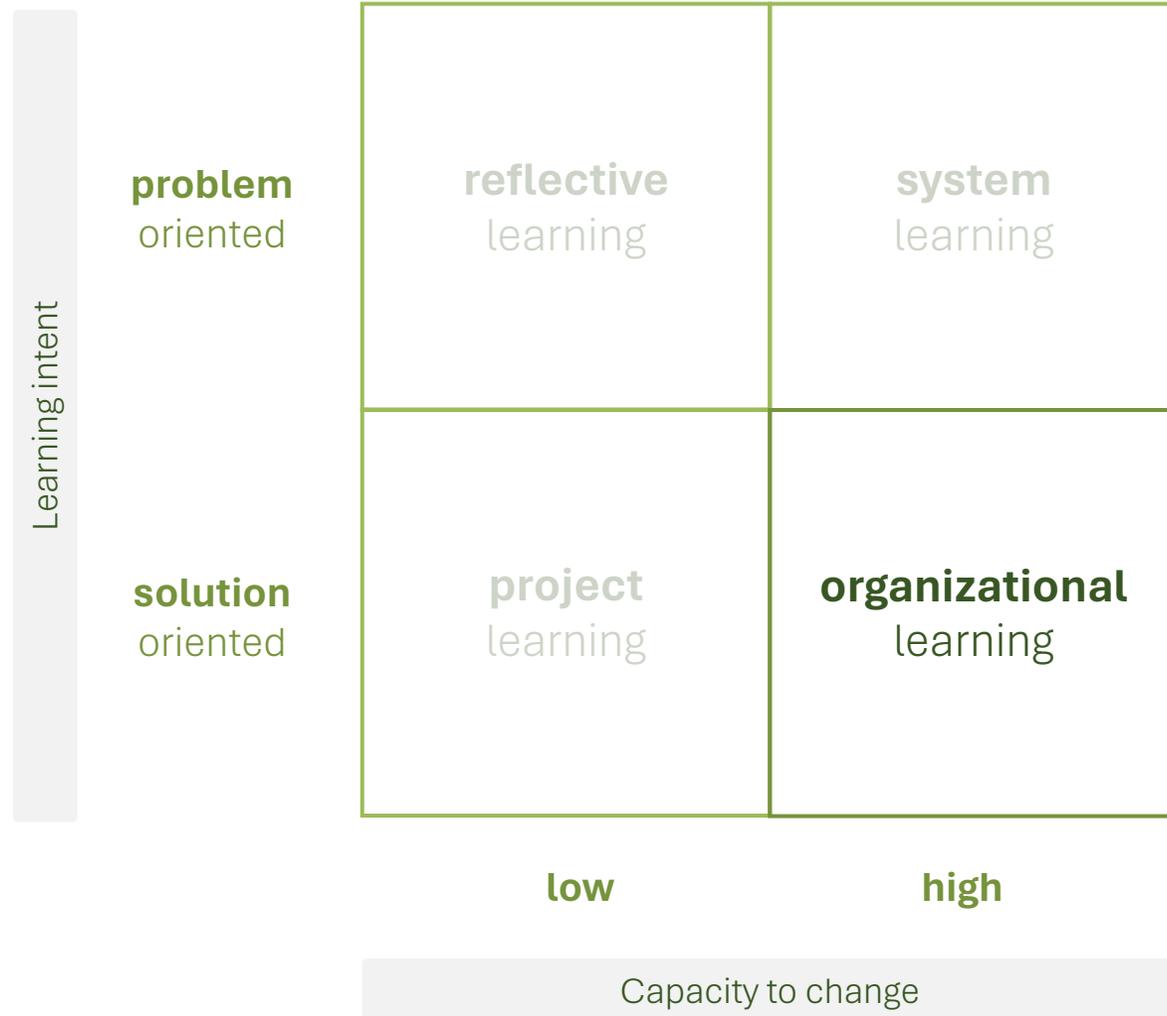


## Reflective learning

The practice of **self-evaluation** to gain insights and improve future actions

# Transformation strategy for business-as-usual: starting point

Empirical research

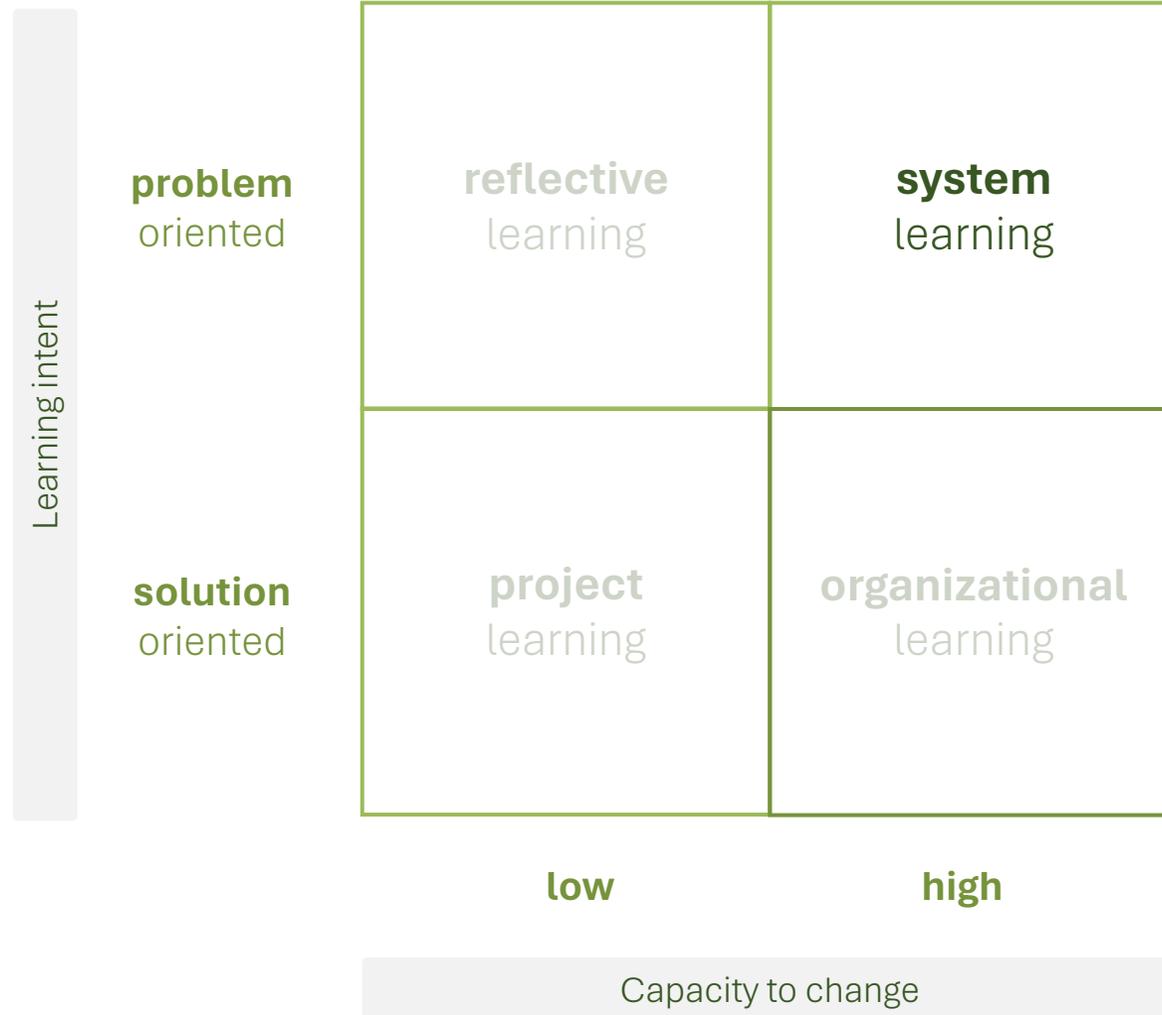


## Organizational learning

The process by which organizations acquire, create, and **transfer knowledge to adapt, innovate, and improve performance** through shared experiences, collaboration, and a culture of continuous learning and development.

# Transformation strategy for business-as-usual: starting point

Empirical research

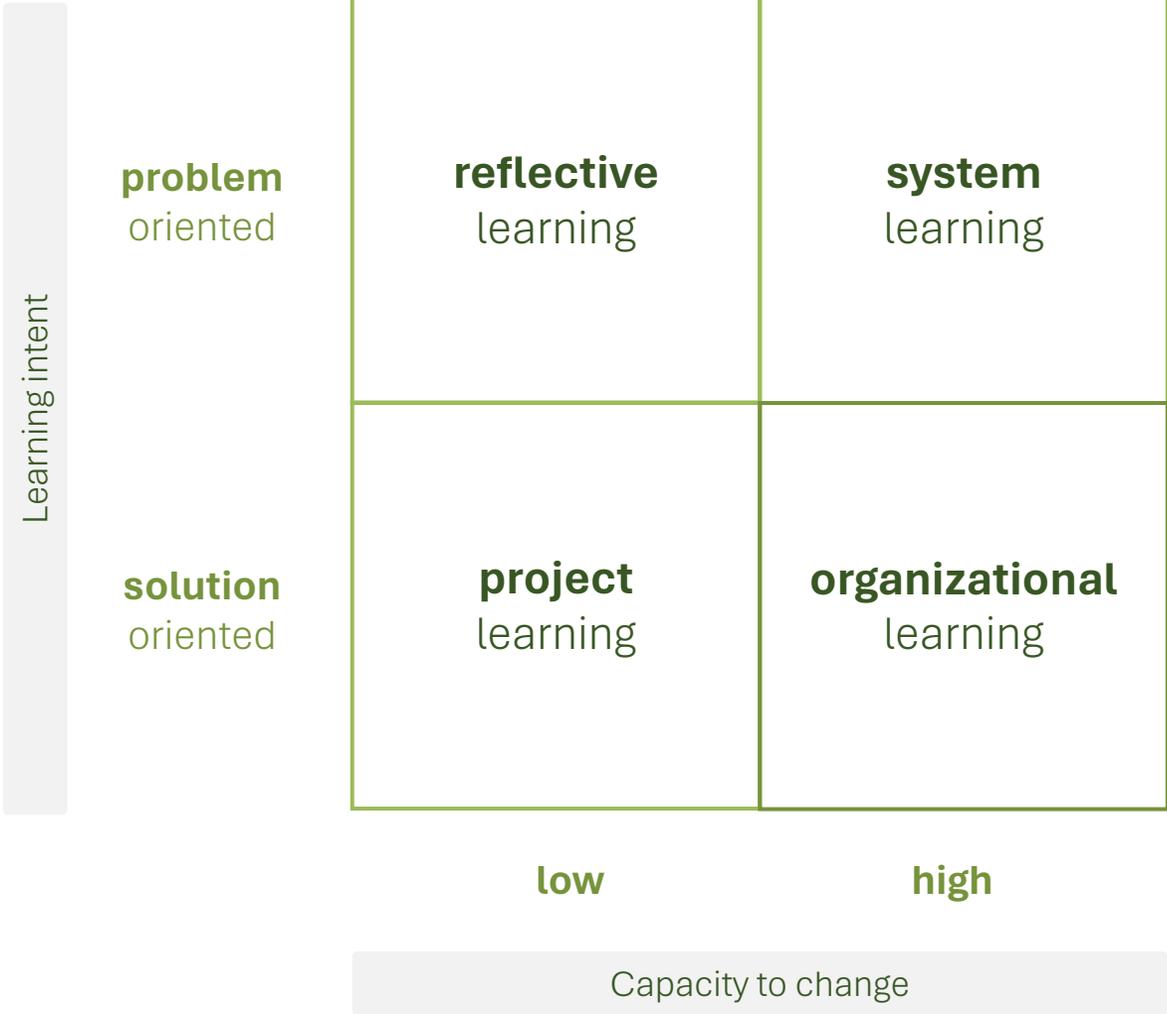


## System learning

Understanding the interconnectedness and dynamics of complex systems, emphasizing the **relationships and interactions between components to identify patterns** and leverage feedback for continuous improvement.

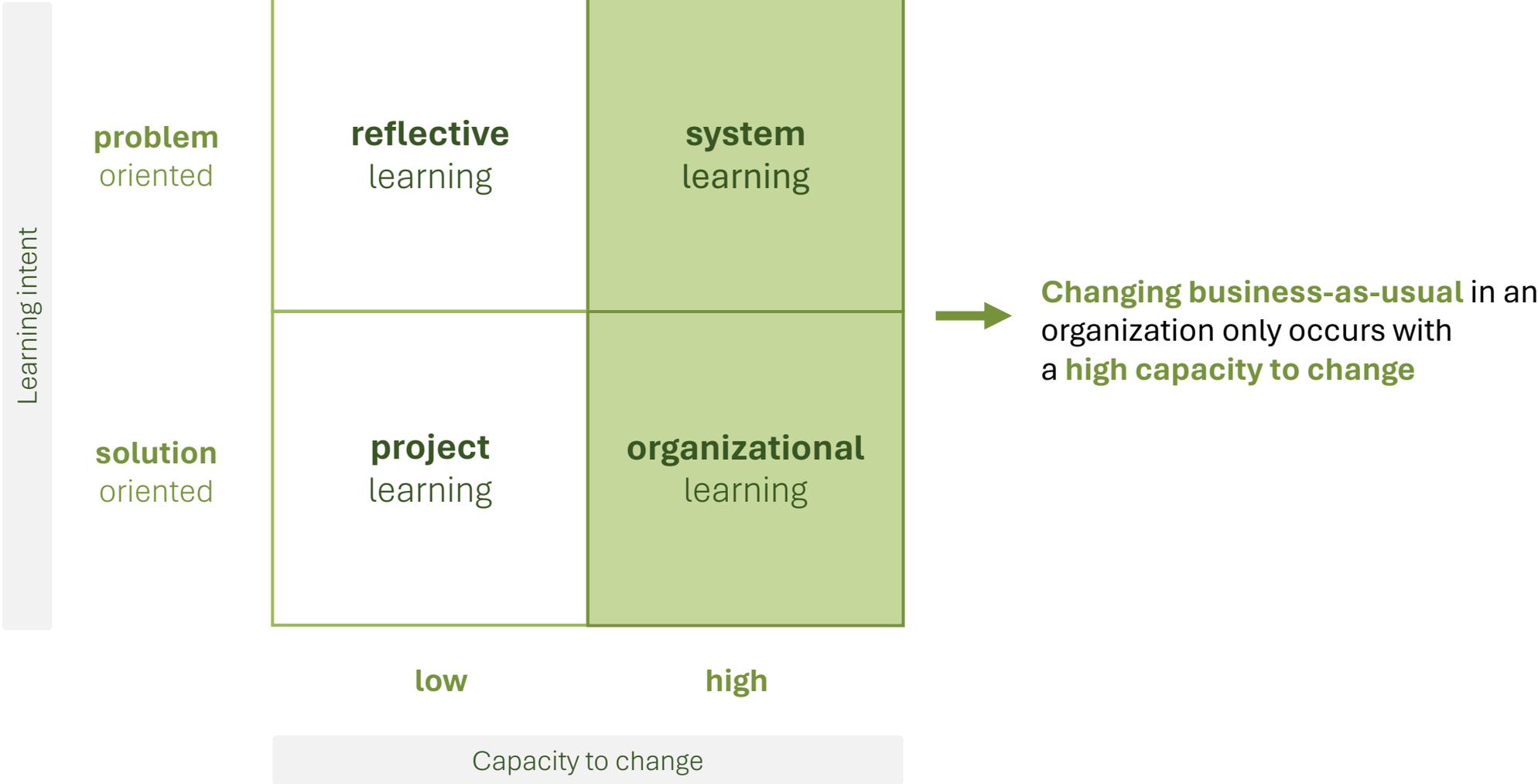
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Empirical research



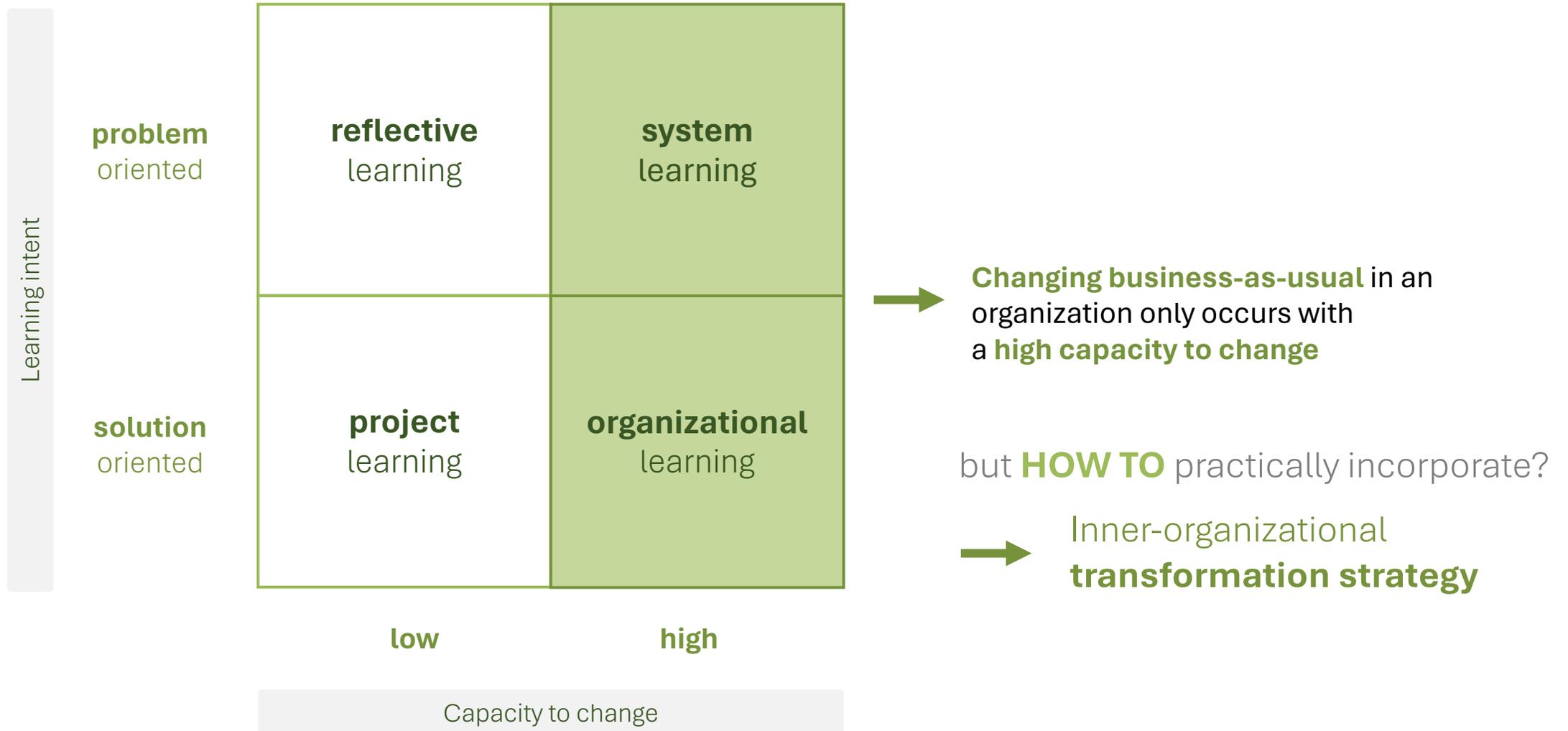
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Empirical research



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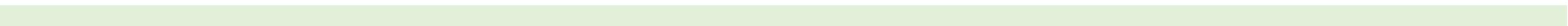
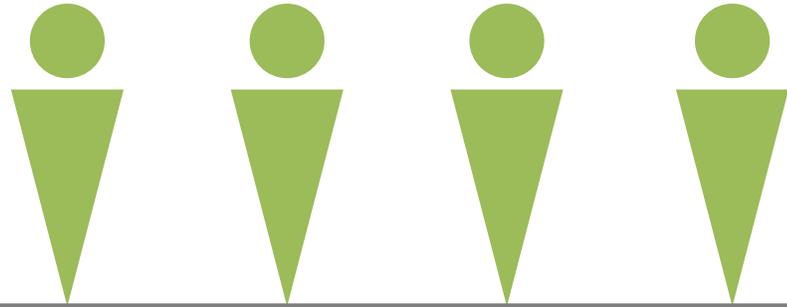
Empirical research



5

**Transformation strategy:**  
step-by-step approach how  
to transform business-as-  
usual

Synthesis





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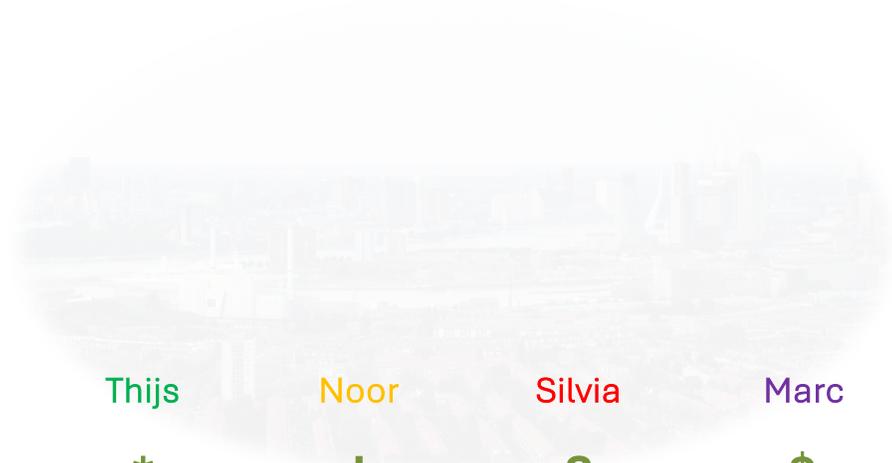


focal actor

enthusiastic  
employee

reserved  
employee

top leadership  
department



Thijs

Noor

Silvia

Marc

\*

!

?

\$



focal actor

enthusiastic  
employee

reserved  
employee

top leadership  
department

# Transformation strategy: Organization as an island

Synthesis

## Business-as-usual state

Starting point: *Parent organization*

Organization is seen as an island, this is business-as-usual:

- Normal way of working
- Established organizational culture
- Difficult to deviate from
- Stuck in its routine

State: **Business-as-usual**



Business-as-usual



# Transformation strategy: Organization as an island

Synthesis



## Business-as-usual state

Starting point: *Parent organization*

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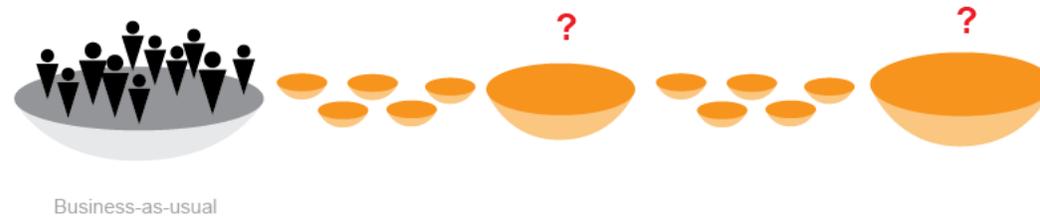
- Normal way of working
- Established organizational culture
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Running in parallel is the demand for renewal:

- Awareness of other islands
- Motivation comes forward from inner-organizational self

If this seed is planted, the process of transformation starts.

State: **Business-as-usual**



# Transformation strategy: three phases

Synthesis



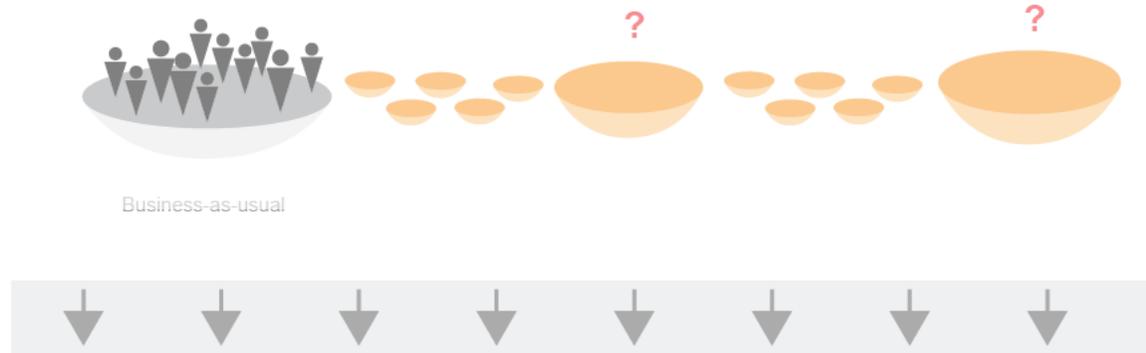
## Phase 1: Activate & Explore

Starting point: **Activation**

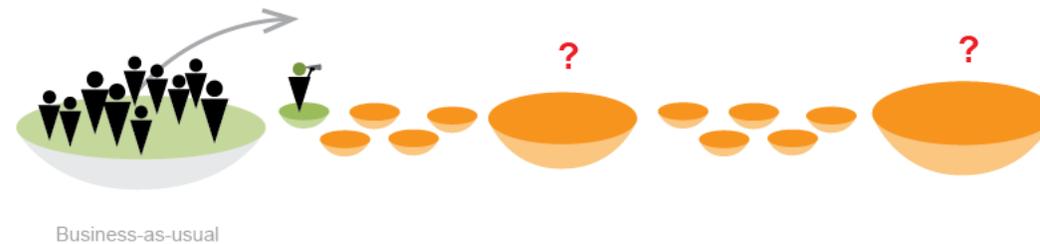
Desire for renewal carried by both organization and individual:

- Step off the island → focal actor(s)
- Pioneering
- Process of experimentation

State: Business-as-usual



Phase 1: Activate & Explore



# Transformation strategy: three phases

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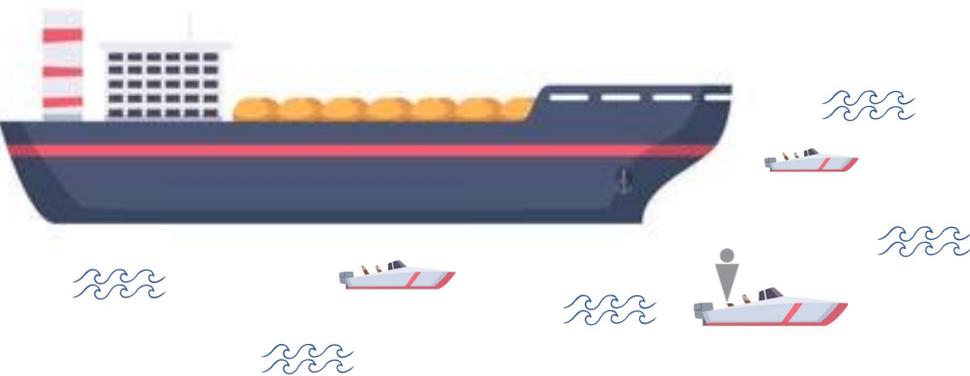
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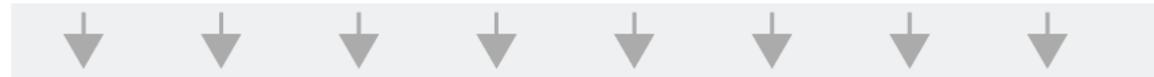
→ Speedboat approach



State: Business-as-usual



Business-as-usual



Phase 1: Activate & Explore



Business-as-usual

# Transformation strategy: three phases

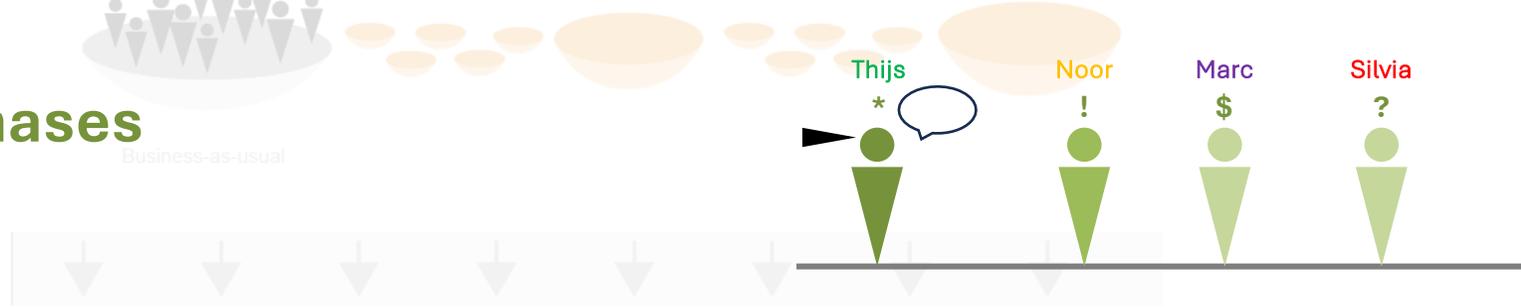
Synthesis

## Phase 2: Acquire & Exchange

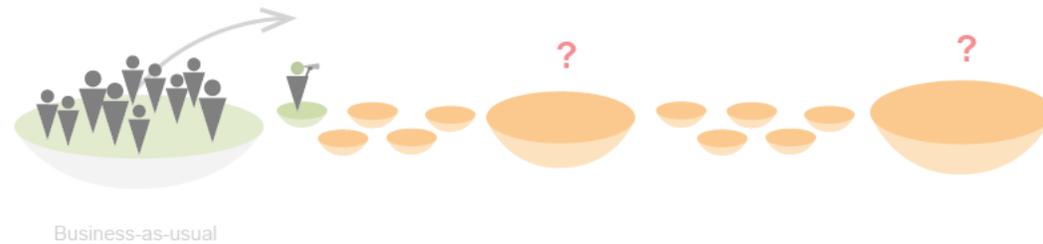
Start: **Acquire knowledge from lessons learned** in the urban experimentation

**Interact** with other organizations (islands) and **gain knowledge** from both technical and social perspectives:

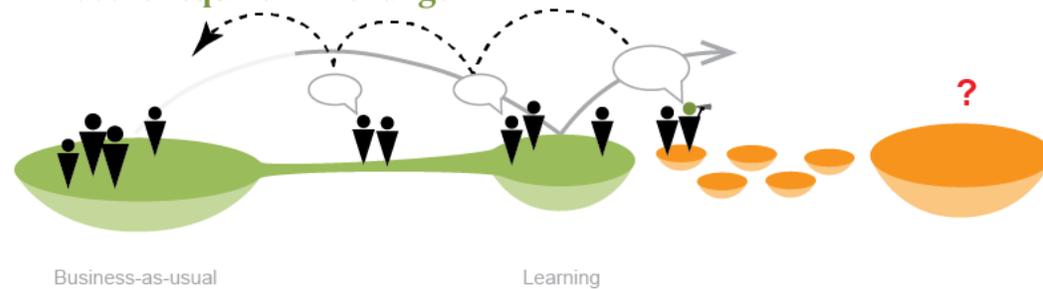
- Incorporate the learning by doing, thinking, researching, and watching
- **Sharing** new information within the organization → **knowledge sessions**
- Encourage others **to step onto the next island** → **make a change**
  - Added value is established by focal actor



## Phase 1: Activate & Explore



## Phase 2: Acquire & Exchange



# Transformation strategy: three phases

Synthesis

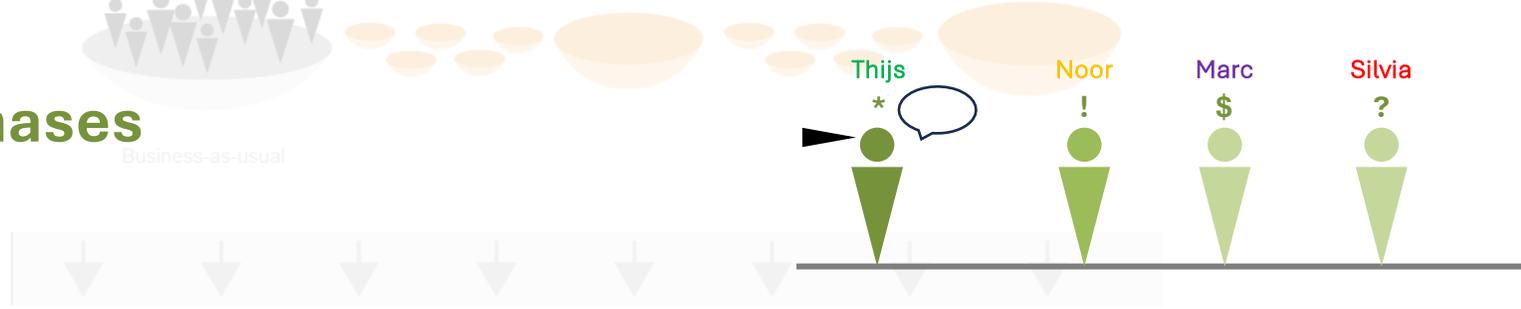
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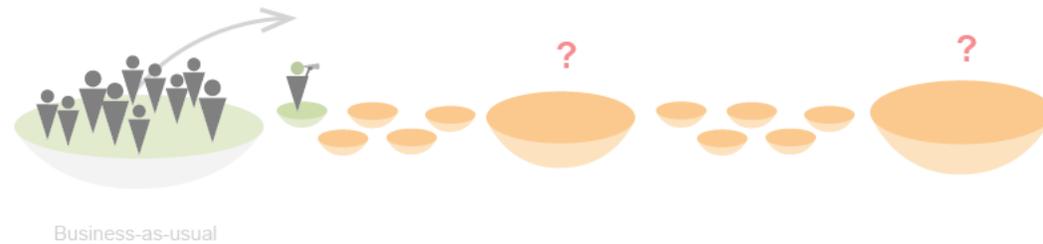
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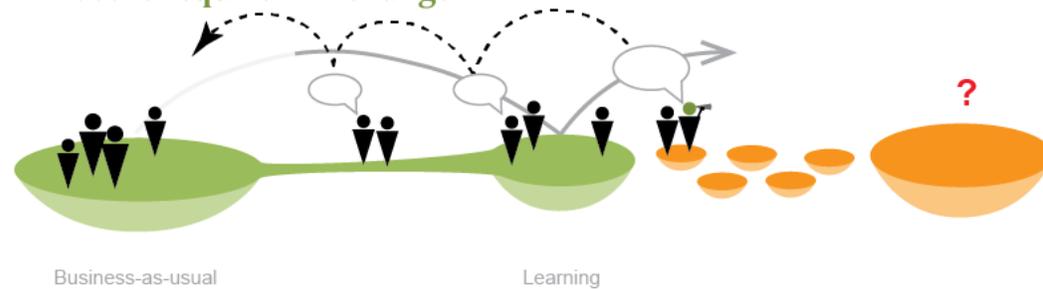
→ **Slow-dance approach**



## Phase 1: Activate & Explore



## Phase 2: Acquire & Exchange



# Transformation strategy: three phases

Synthesis

## Phase 3: Acknowledge & Evaluate

Start: lessons learned are **seen back in practice**

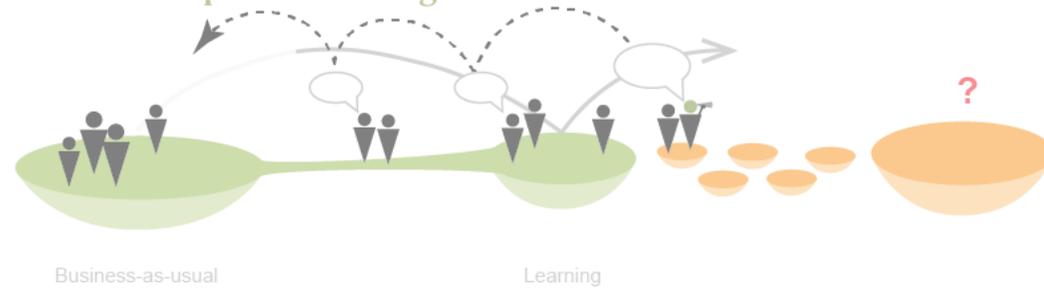
Employees have **collectively become the focal actors** of their renewed way of working:

- Pioneer is not a pioneer anymore
- Communicate from **the top leadership department**
  - Last push toward the acknowledgment of the steps that are made and **motivate stragglers**

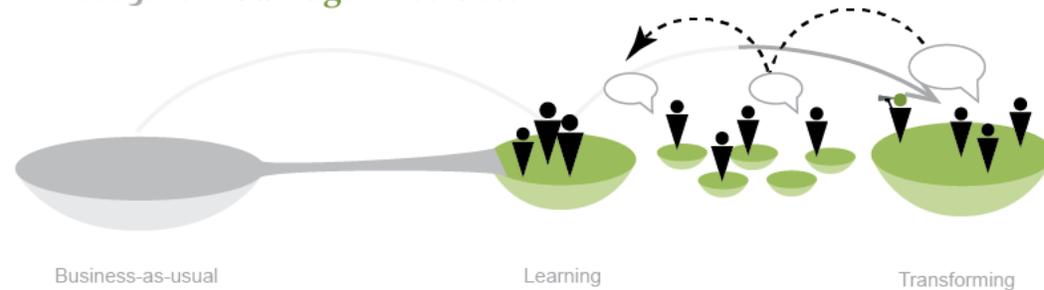
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### Phase 2: Acquire & Exchange



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# Transformation strategy: three phases

Synthesis

## Phase 3: Acknowledge & Evaluate

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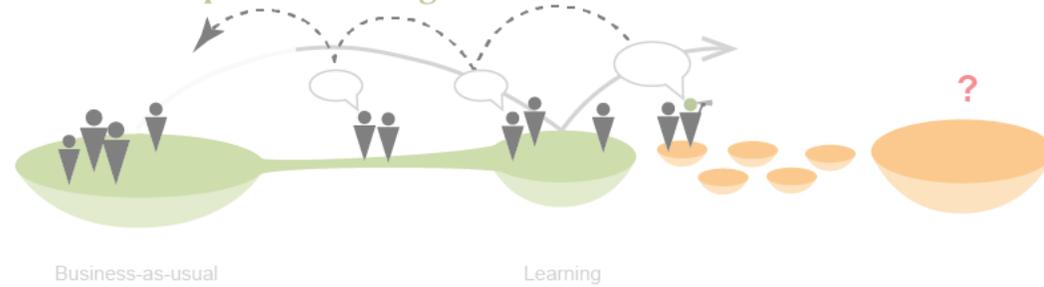
→ speedbird approach



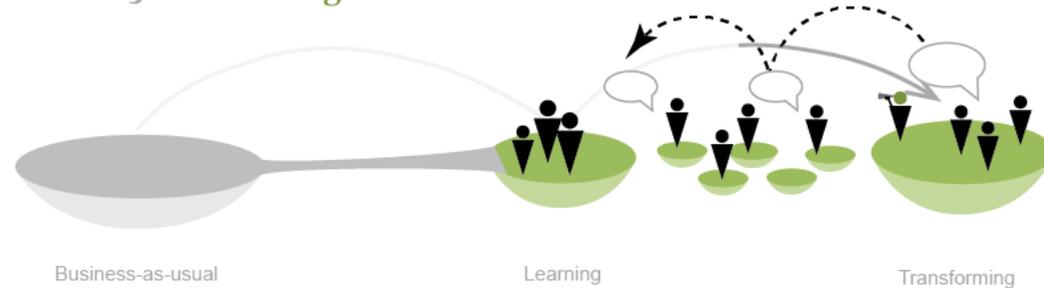
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# Transformation strategy: three phases

Synthesis

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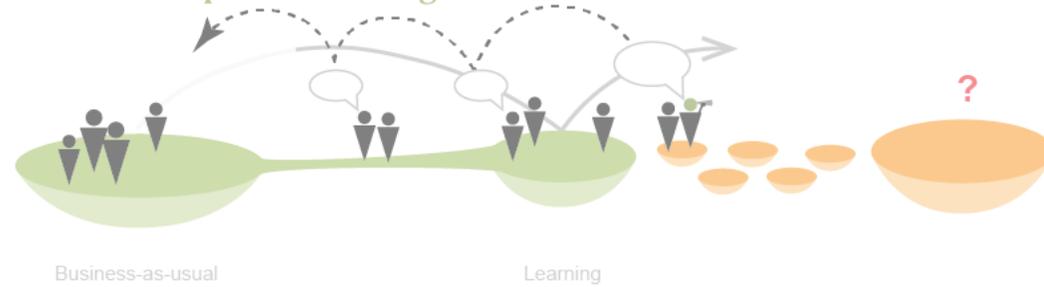
Transformation?

A rooted change in the way one works

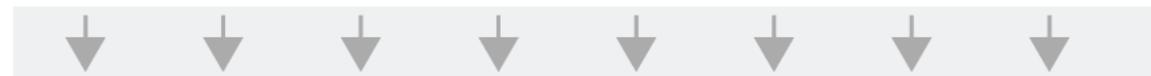
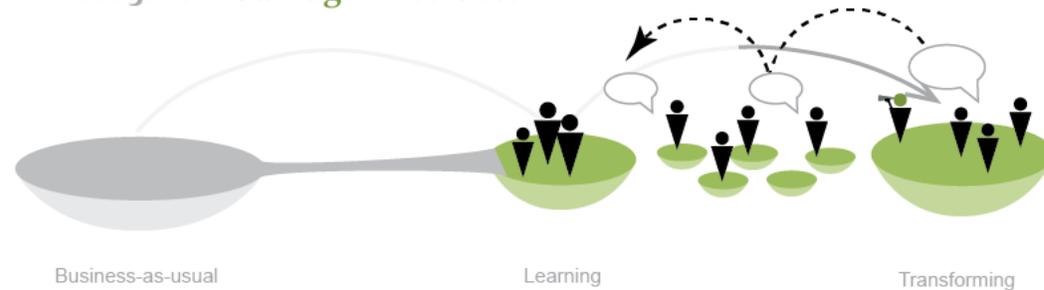
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# Transformation strategy: three phases

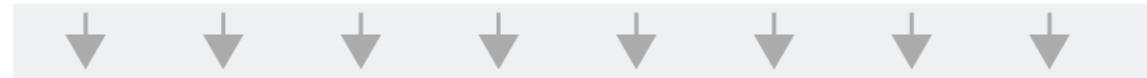
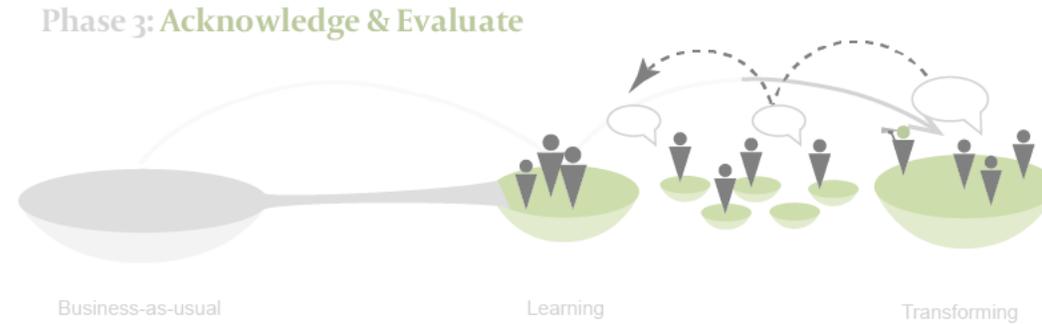
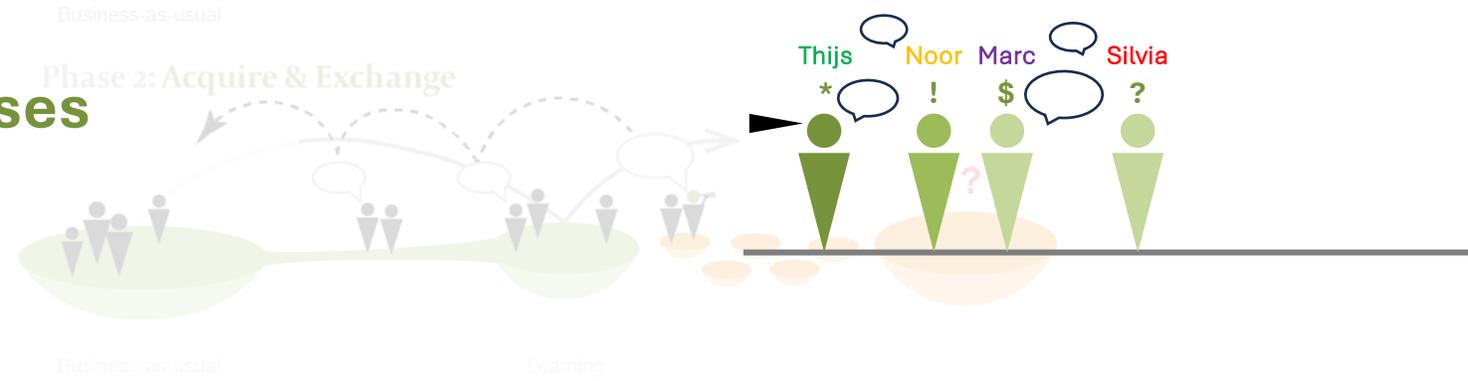
Synthesis

State: New business-as-usual

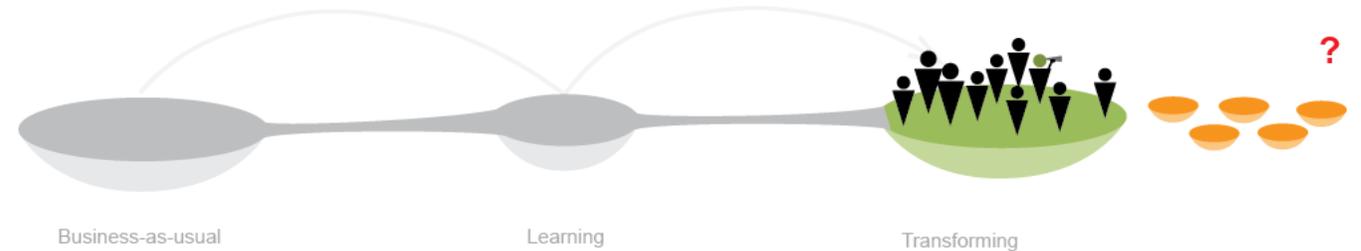
To maintain: **Keep evaluating** what, why, and how things have changed.

**Learning is an ongoing process** that continues to keep its importance in the phase of transformation.

Transformation is not an end position.



State: New business-as-usual



# Transformation strategy: three phases

Synthesis

State: New business-as-usual

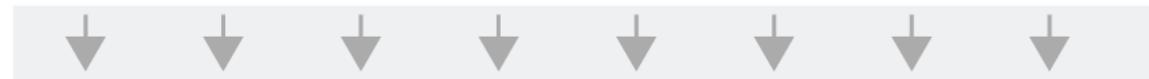
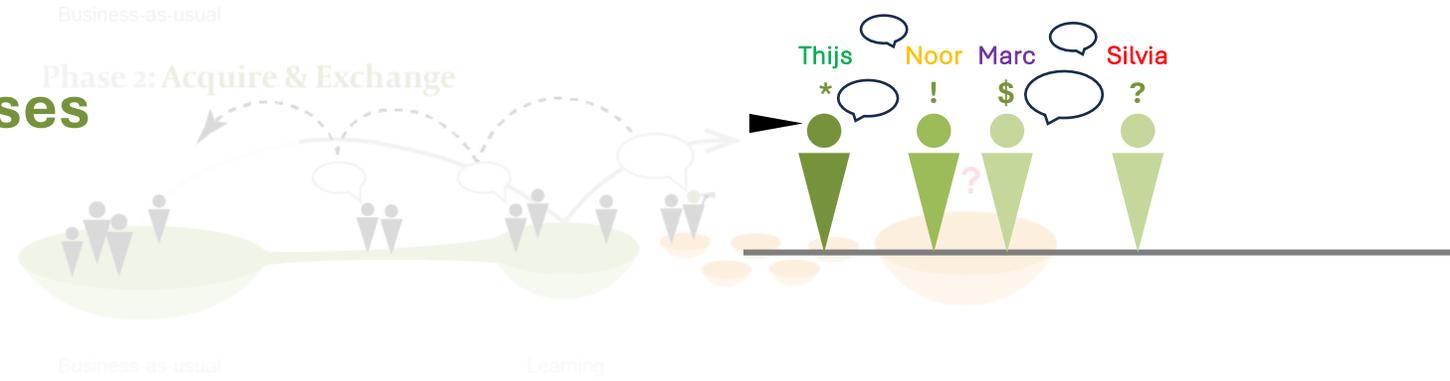
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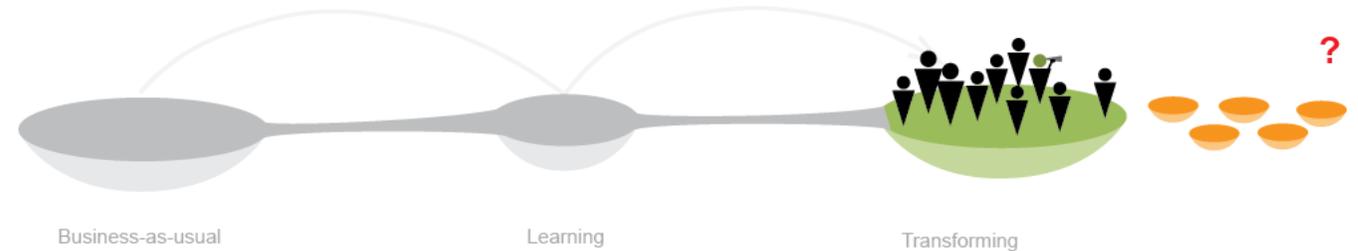
Transformation is not an end position.

Important note:

➔ The transformation process is **not linear**



State: New business-as-usual



# Transformation strategy: in a non-linear way

Concrete actions for organizations and individuals

Synthesis

## Phase 1: Activate & Explore



organizational

individual

action

elaboration

**Provide space to experiment**

Give individuals space in work to experiment, support and brain space to think. This kick-starts the learning process and provides room for making mistakes.

**Set-up a collective speedboat approach**

Actively drive out individuals from their comfort zone. Create cells at the edge of the organization where new ways of working can be tested. Organize a general meeting where people are inspired and encouraged to step out of their comfort zone. If necessary, remove (governance) barriers that inhibit change.

**Step off the island**

Distance yourself from the current way of working within the organization. Try something different from how you are currently doing it. Discover new ways of working and inspiration from others.

**Be persistent**

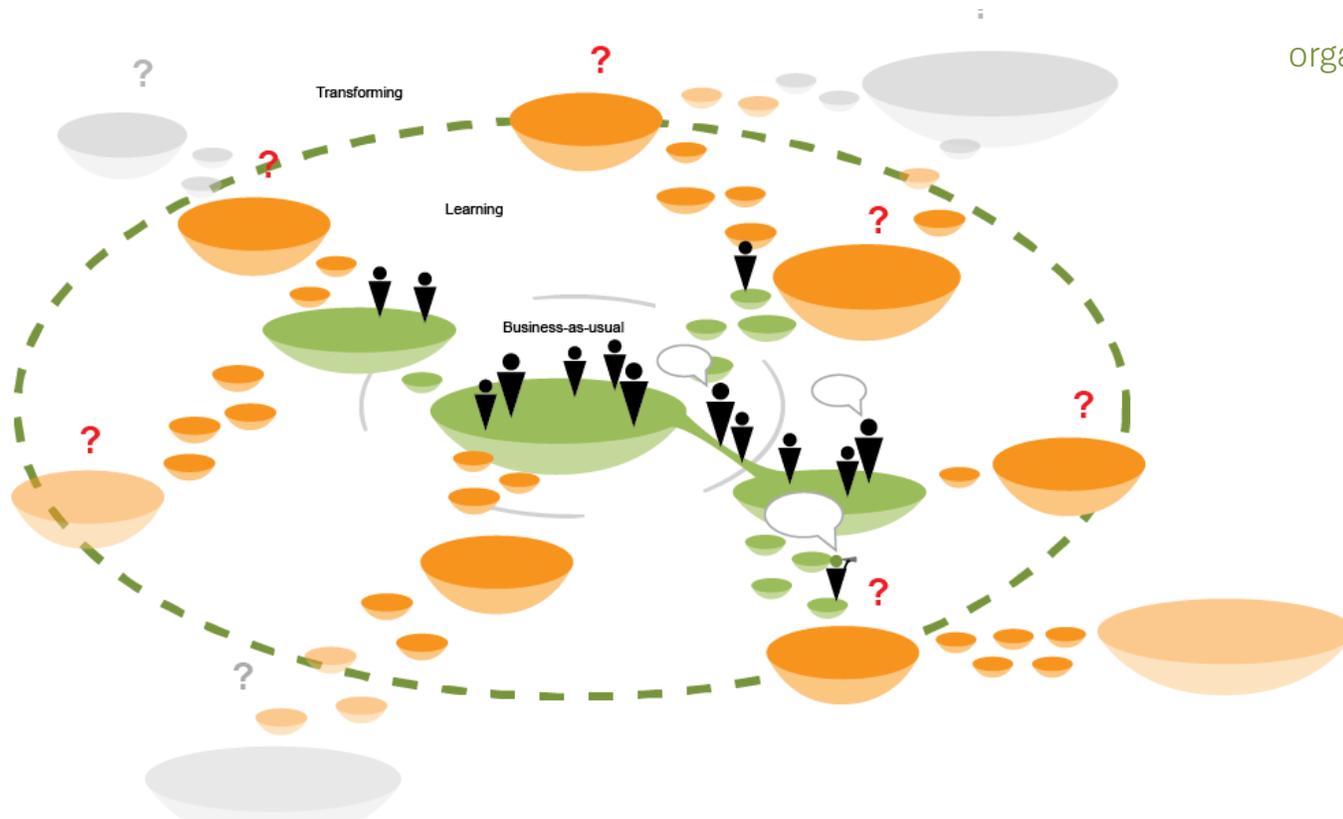
With experiments come failures. Don't stop trying new things. Take the short-term pain for long-term gain. Be creative. Without this persistence, transformation will get off the ground.

# Transformation strategy: in a non-linear way

Concrete actions for organizations and individuals

Synthesis

## Phase 2: Acquire & Exchange



organizational

individual

action

elaboration

**Encourage knowledge sharing**

Provide a stage for sharing knowledge and findings. Support the organization's knowledge and evaluation systems.

**Set up an internal process group**

Set up an internal process group to explore things that are explored, test, and monitor this at a central level. Capacities can be handled effectively. The process team can be scheduled for repeated short updates and/or organizing an online process is tracked.

**Learn**

Learn by doing, thinking, researching, watching. Get into the field, try on error. Be aware of the your own perspective. If a scenario for change comes up, perform.

**Capture lessons learned**

Gather knowledge gained from the project. What seems to work and what doesn't, both technical and social in nature.

**Share by spreading the word**

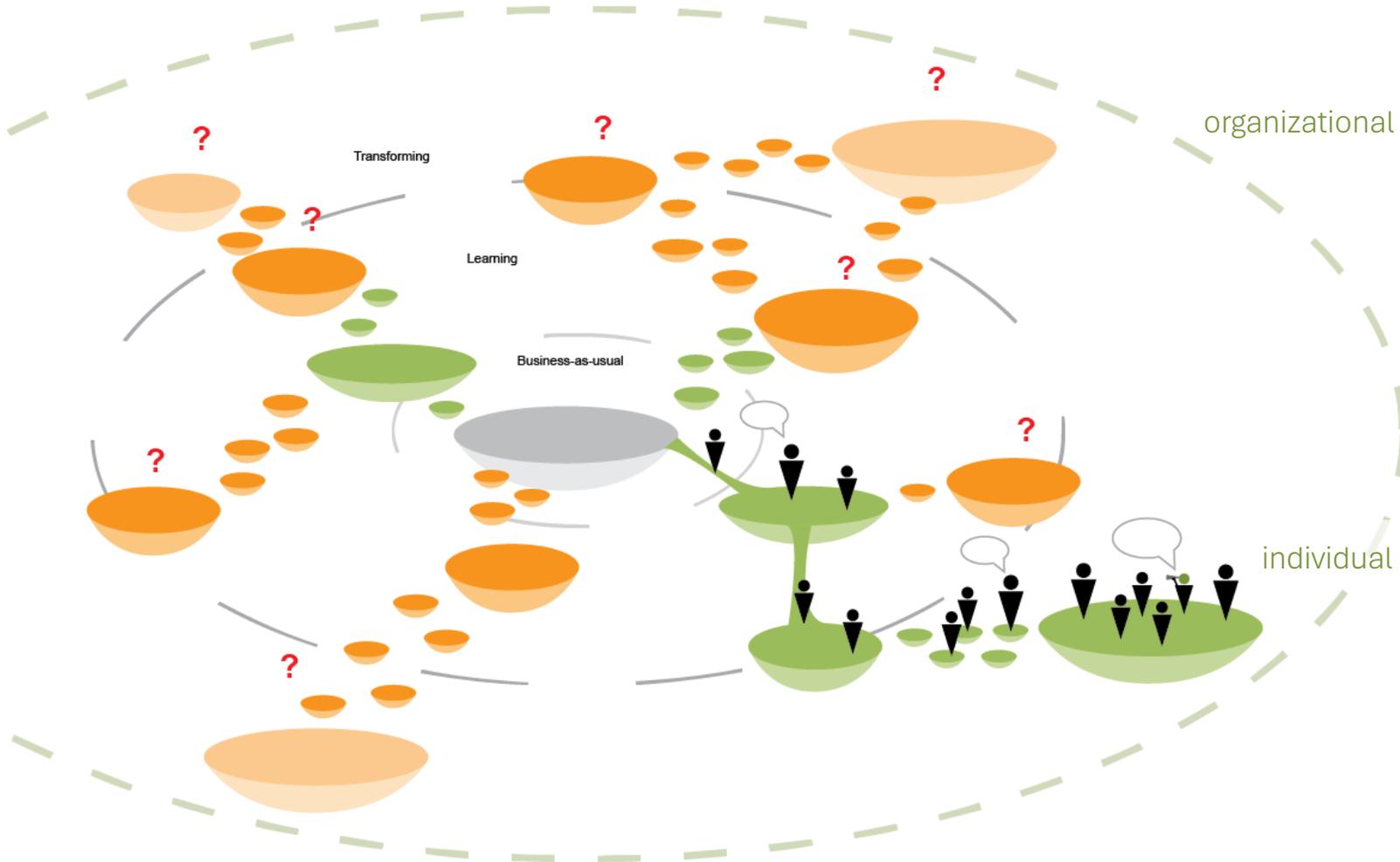
Share lessons learned with the organization. Feed back to top management to convey enthusiasm for the future. People know about new findings. Change is set in motion. Share should be done through internal knowledge evaluation sessions in project informal at the coffee or lunch.

# Transformation strategy: in a non-linear way

Concrete actions for organizations and individuals

Synthesis

## Phase 3: Acknowledge & Evaluate



action

elaboration

**Acknowledge change that has occurred**

By acknowledging changes individuals feel valued and satisfied as a result. Recognize what has been taken and link this back to the organization. Together with motivation that contributes

**Implement the new way of working from the top down**

Support from top management is more likely to be adopted by pioneers in implementing change. Thought well and develop the transformation. Transformation is underway

**Evaluate the acquiring and exchanging process**

By evaluation the process, you get an overall picture and be able to identify what are relevant to the question. Evaluating allows you to compare vision and re-evaluate what you are working toward or what you are doing. Acknowledge the change that has occurred and communicate it to both management.

**Continue learning**

The process of learning and evaluation is ongoing. Continue exploring and innovating oneself and the organization. This will ensure the organization transforms and keep up with the future.

# 6

**Conclusion:** importance of learning intent vs. capacity to change

Discussion & conclusion

## Overall conclusion

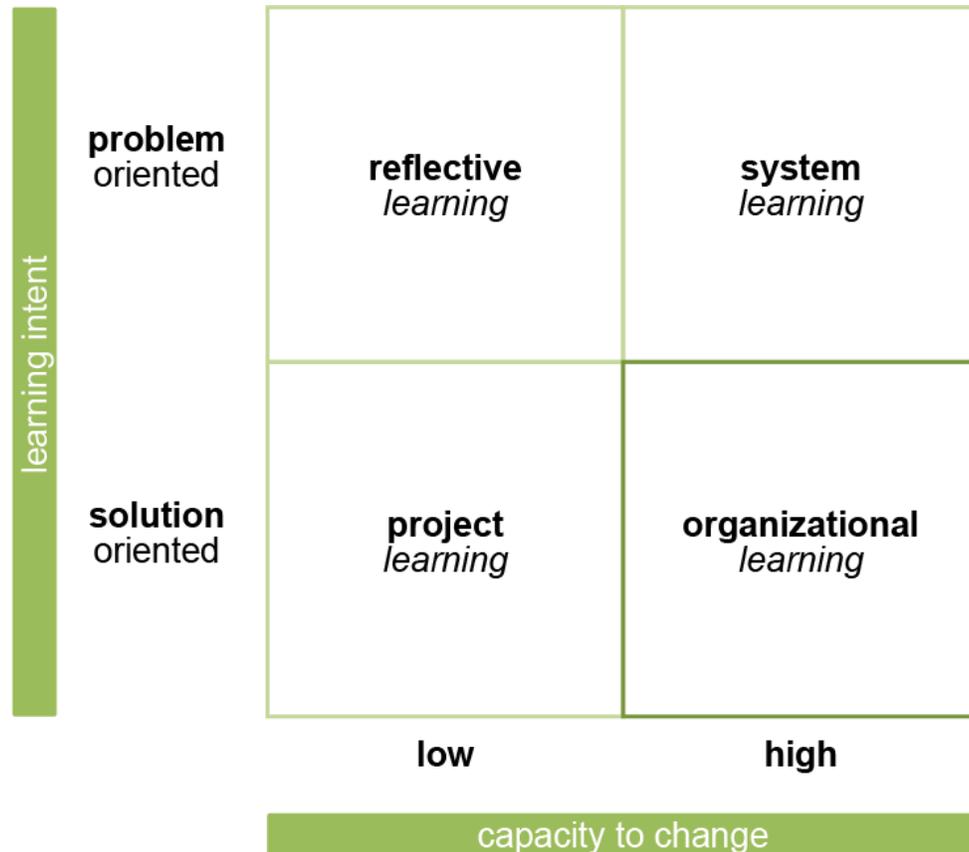
Conclusion

How can management practices  
**learn from experimental projects to transform business-as-usual**  
to stimulate sustainable urban transitions?

# Overall conclusion

Conclusion

How can management practices  
**learn from experimental projects to transform business-as-usual**  
to stimulate sustainable urban transitions?



Whether *learning from experiments* results in *transforming business-as-usual* depends on the **learning intent** and the **capacity to change**.

With a **high capacity to change**, the opportunity to learn and transform as an organization **significantly increases**.

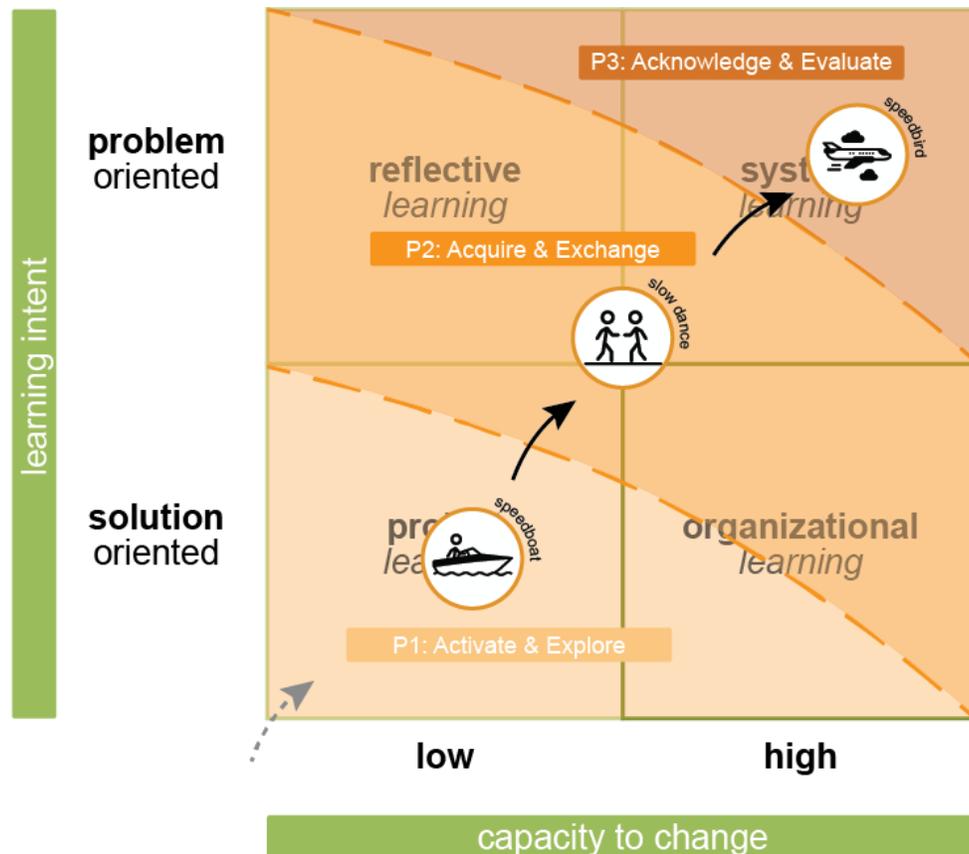
But to come to a transformed state, **multiple phases** must be passed.

Practically incorporate with Inner-organizational **transformation strategy**

# Overall conclusion

Conclusion

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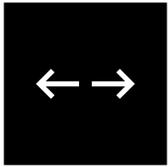
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# Recommendations for practise

Conclusion



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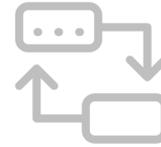
Give workspace, financial resources and social support

start



## Step off the island

Use the speedboat principle



## Encourage knowledge sharing

From top-down

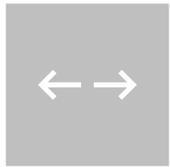


## Evaluate the acquiring and exchanging process

Know what is done

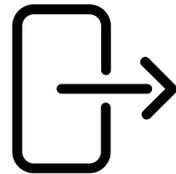
# Recommendations for practise

Conclusion



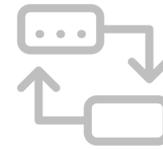
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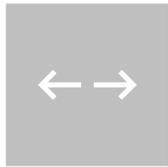
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speedboat

# Recommendations for practise

Conclusion



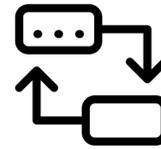
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Know what is done

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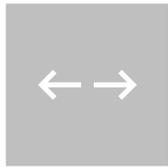
speedboat



slow dance

# Recommendations for practise

Conclusion



## Provide space to experiment

Give workspace, financial resources and social support

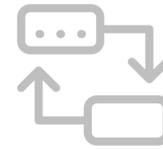
start



## Step off the island

Use the speedboat principle

speedboat



## Encourage knowledge sharing

From top-down

slow dance



## Evaluate the acquiring and exchanging process

Know what is done

speedbird



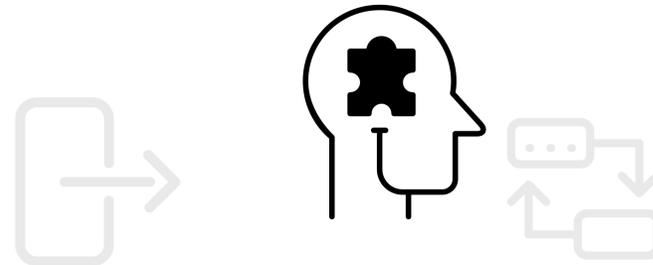
# Recommendations for practise

Conclusion



**Provide space to experiment**

Give workspace, financial resources and social support



**Continue learning**

Process of learning and transforming is ongoing



**Evaluate the acquiring and exchanging process**

Know what is done

**Cities must change** their business-as-usual **to meet the sustainability goals** to prevent further climate change



1970

2024

(Rotterdam)

**Cities must change** their business-as-usual to meet the **sustainability goals** to prevent further climate change.

**Change starts with action.**

**2024**

(Rotterdam)

# From urban experimentation to management transformation:

Applying urban living lab findings to challenge business-as-usual management practices

## Questions?

**Feike Jansen**

Graduation research | P5  
June 2024

# From urban experimentation to management transformation:

Applying urban living lab findings to challenge business-as-usual management practices

**Feike Jansen**

Graduation research | P5  
June 2024

In collaboration with  
**Dr. A (Aksel) Ersoy & Prof. Dr. P.W. (Paul) Chan**

## Additional slides

# From urban experimentation to management transformation:

Applying urban living lab findings to challenge business-as-usual management practices

**Feike Jansen**

Graduation research | P5  
June 2024

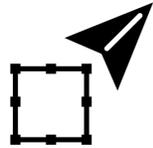
# Theoretical and empirical framework discussed

Discussion



## Pioneering

Step off the island



## Capacity to change

low vs high



## Sense of uncertainty

everything in the built environment is unique



## Scaling

not everything should be scaled

# Limitations

## Discussion



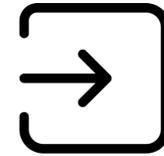
### Definitions

Learning from  
experimental projects;  
transforming  
business-as-usual



### Case studies

Limited findings;  
participants scope of  
the areas

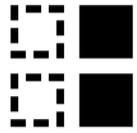


### Limited input

Availability and time of  
participants and  
research

# Recommendations for research

Conclusion



## Implementation in different contexts

Learning intent vs capability to change outside urban context



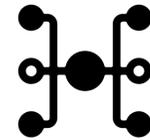
## Effectiveness on the long-term

Effectiveness of urban experimentation in driving organizational transformation



## Influence of external stakeholders

Other stakeholders than parent organizations



## System learning

Next level above organizational learning

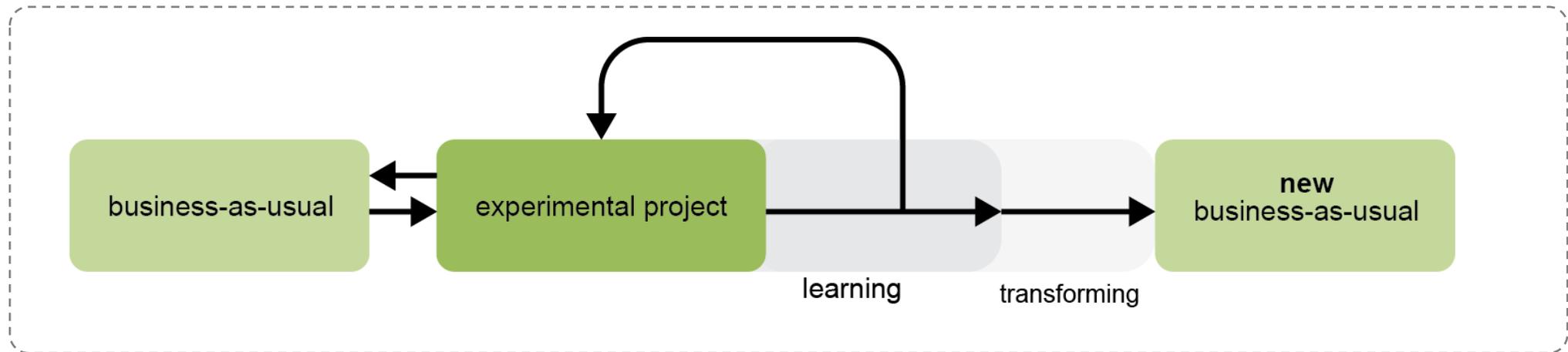
# Conceptual model

Theory

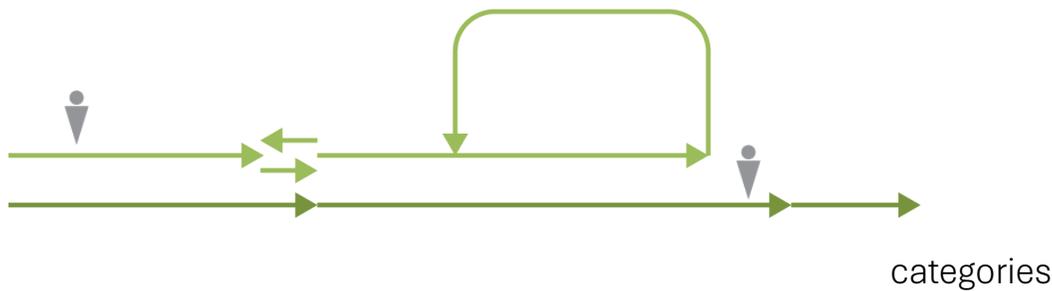
How can management practices

**learn from experimental projects to transform business-as-usual**

to stimulate sustainable urban transitions?



factors



challenges



barriers



drivers

Behavioral / educational / governance / regulatory

# Case analysis: Example

Empirical research

Case 2: finding

- **Effective communication and collaboration** are the key success factors in a transformative area development project (#5 - Municipality)
- Focus on **‘cross-organizational’ learning and ‘inner-organizational’ transforming** (#7 – Port Authority).
- Collaboration success by write down goals sharply and compare (#7 - Port Authority).
- **Balance flexibility and responsibility** (#7 - Port Authority)

Behavioral

- Pioneering **by telling the same story over and over** again (#7 - Port Authority).
- Understand each other’s needs (#5 - Municipality).
- **Communication is key** (#5 - Municipality).

Governance

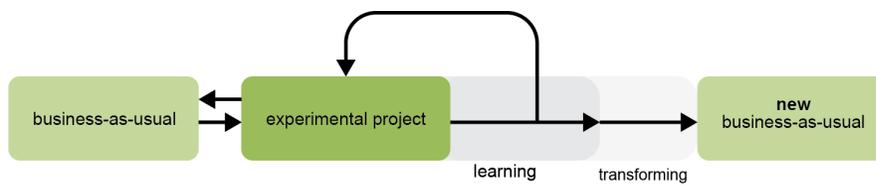
- Illusion that everything can be planned in advance (#7 - Port Authority).
- **Step-by-step approach** (#5 - Municipality).
- **Top-down support** for innovators / pioneering (#7 - Port Authority).

Educational

- **‘Doing is the best way of thinking’** (#7 - Port Authority).
- Trail on error (#7 - Port Authority).
- Finding the right equilibrium in enforcement (#7 - Port Authority)

Regulatory

- Avoid legal hassles with temporariness to get things off the ground (#6 - Developer).
- **Need for umbrella permits** to streamline processes (#6 - Developer).



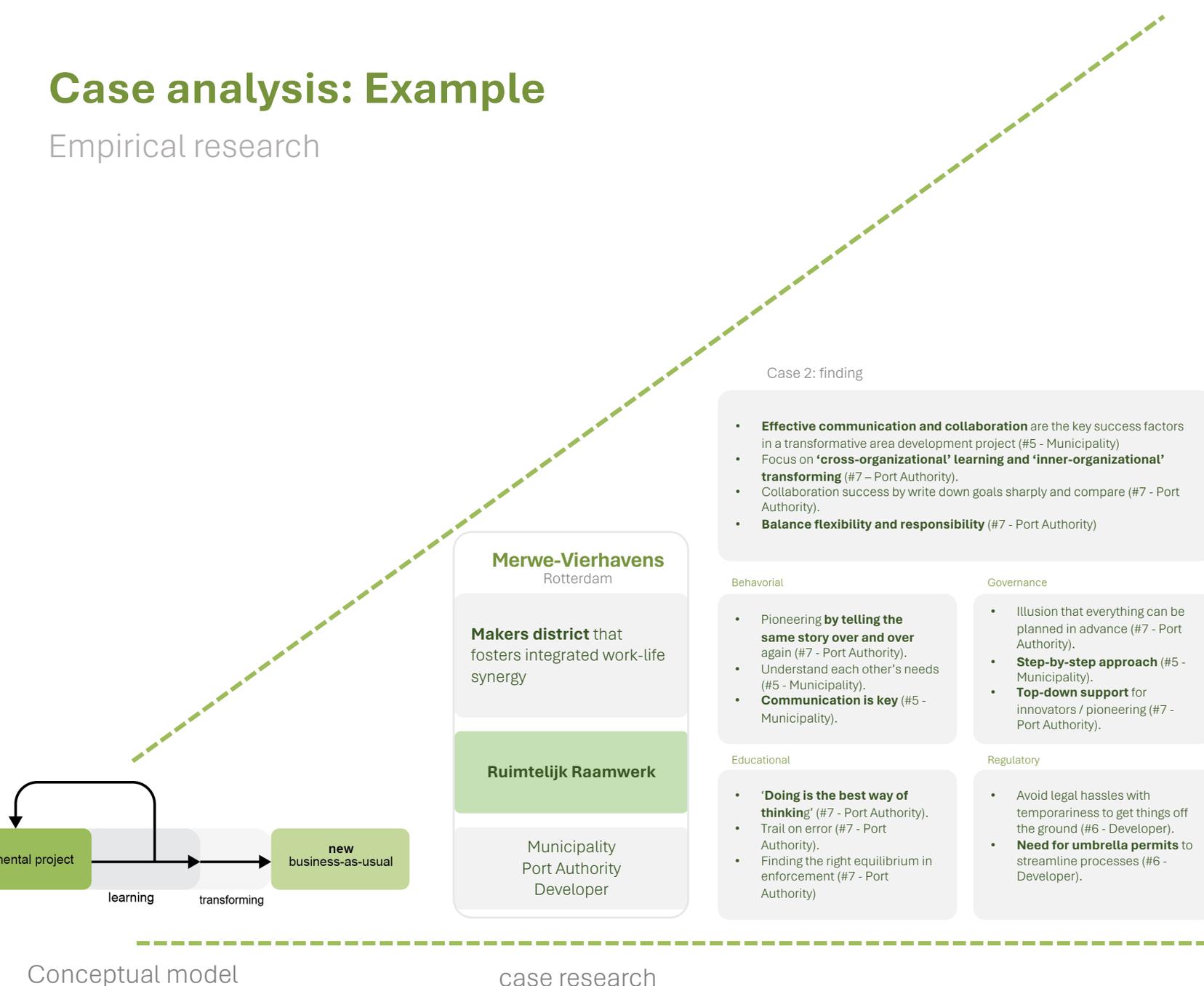
Conceptual model

case research

analysis findings

# Case analysis: Example

Empirical research



## Case 2: key take-aways

For transformation strategy

### Learning

- The **use of the speedboat-principle** stimulates capturing new knowledge (#7 – Port Authority)
- ‘Doing is the best way of thinking’ (#7 - Port Authority).
- Adopting a **step-by-step approach** in projects facilitates learning and progress (#5 - Municipality)
- Embracing a **learning-by-doing mentality** and learning from mistakes (#5 - Municipality, #7 - Port Authority)

### Transforming

- **Perseverance:** willing to tell the same story over and over again (#7 - Port Authority).
- Be in the middle of your attention area to make a change (#6 - Developer).

Conceptual model

case research

analysis findings

# Three nested case-studies: thee different experimental instruments

## Interviewees and expert panel

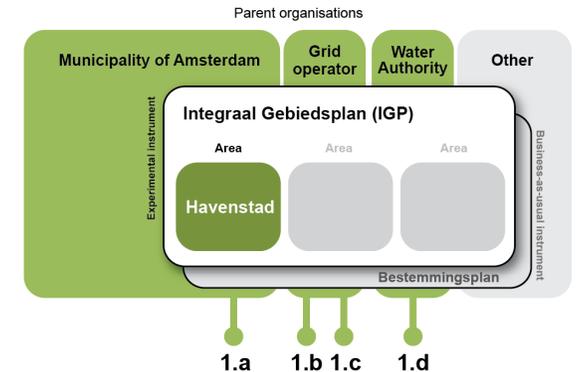
### Interviewees

#	Organization	Function	Case
1	Municipality	Project manager	Haven-Stad
2	Water Authority	Project developer (Sr.)	
3	Grid operator	Area director	
4	Grid operator	Project manager (Sr.)	Merwe-Vierhavens
5	Municipality	Project manager (Sr.)	
6	Developer	Concept developer (Sr.)	Binckhorst
7	Port Authority	Program manager (Sr.)	
8	Municipality	Project manager (Sr.)	Binckhorst
9	Municipality	Project manager (Jr.)	
10	Developer	Development manager (Sr.)	

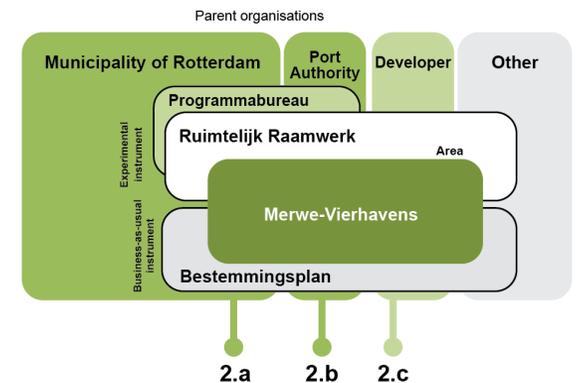
### Expert panel

#	Organization	Function	Field
1	Consultancy	Partner	Real estate and energy transition
2	Consultancy	Market director	
3	Consultancy	Consultant	

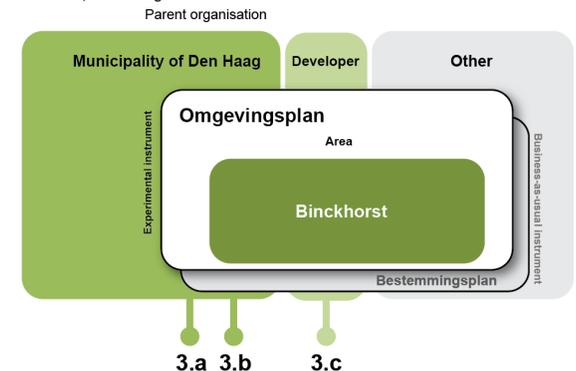
Haven-Stad, Amsterdam



Merwe-Vierhavens, Rotterdam



Binckhorst, Den Haag



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