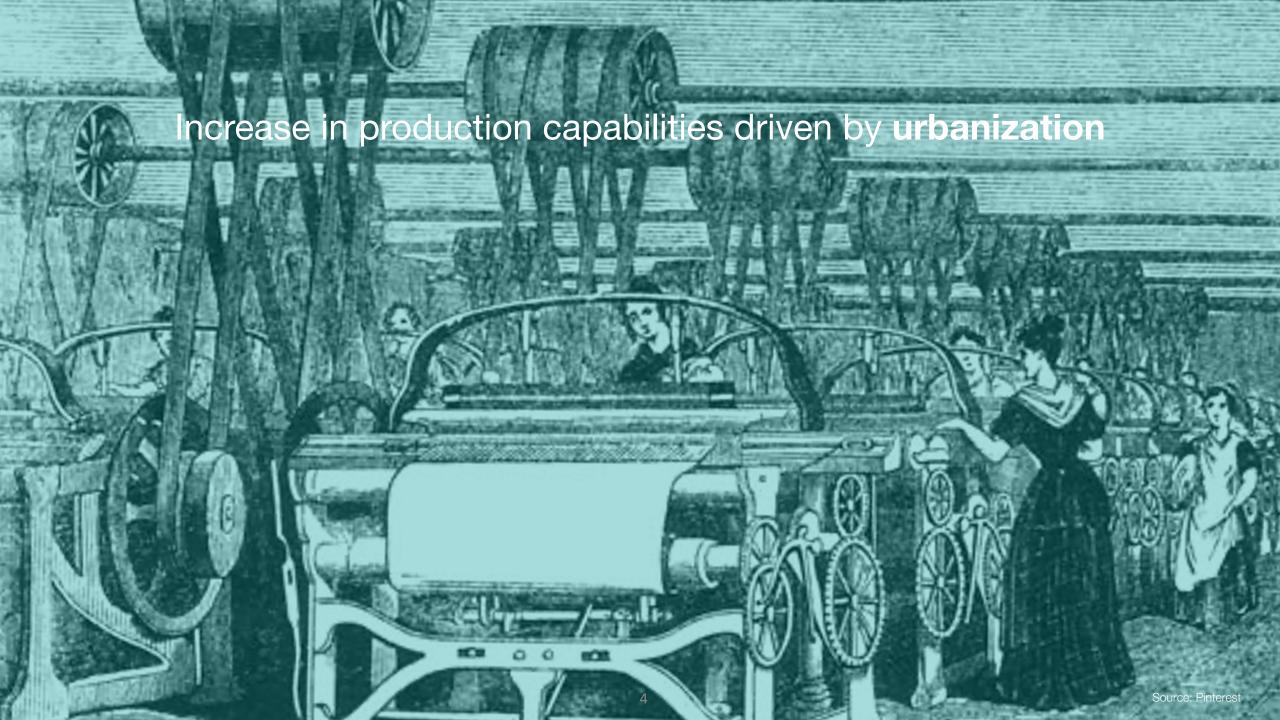


# The Situation



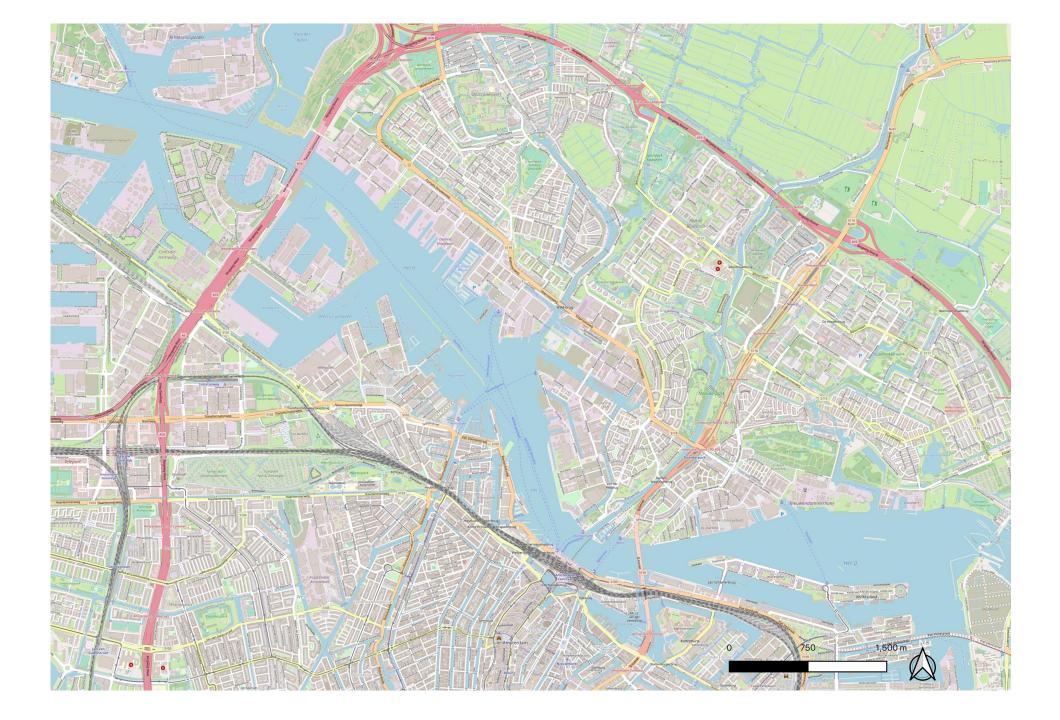


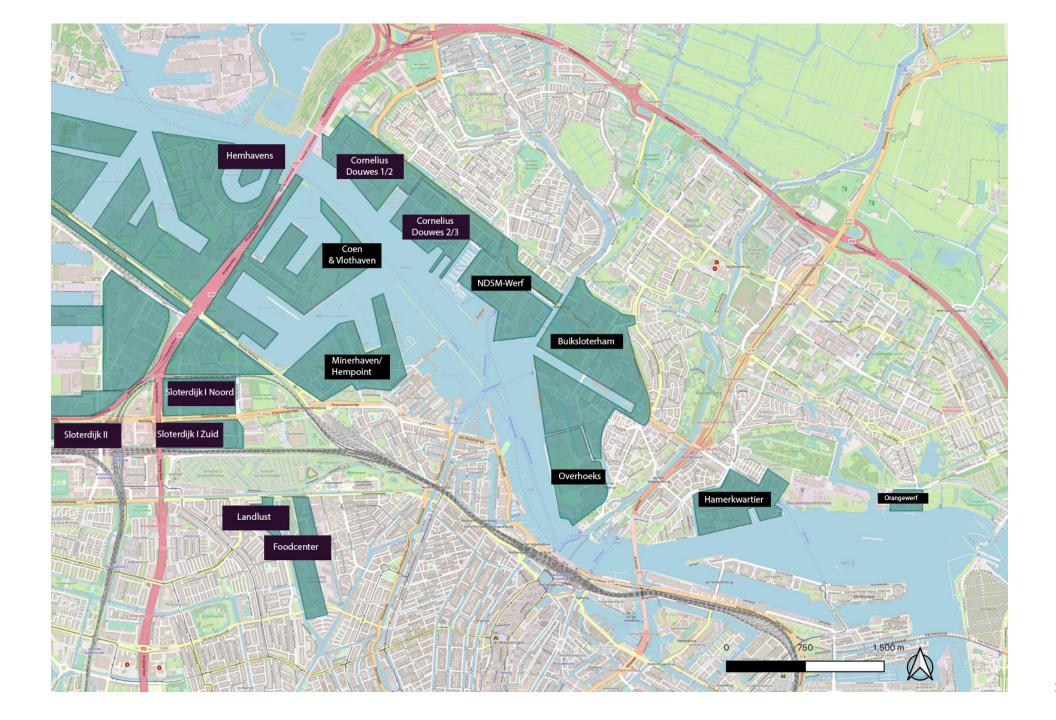




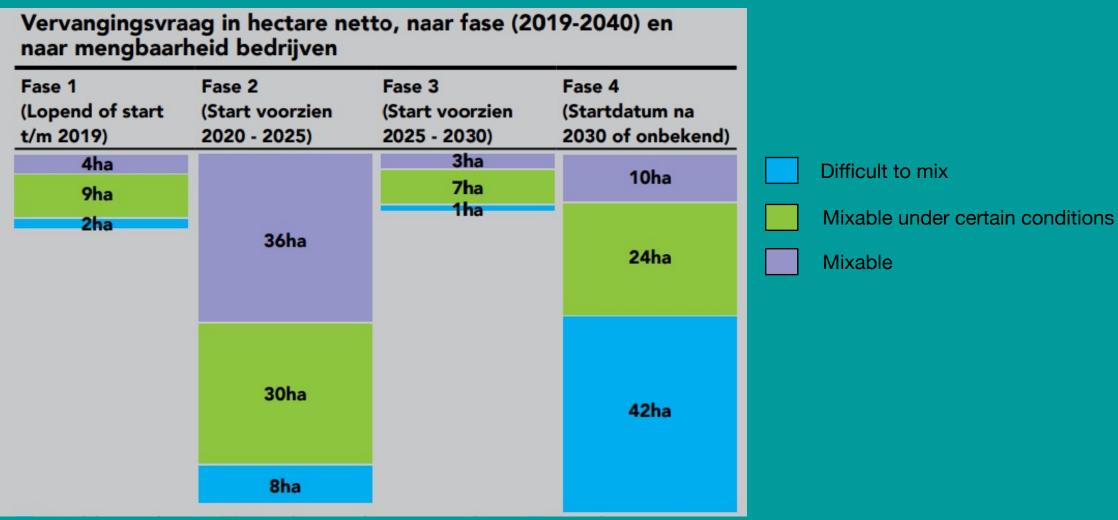


# Loss of industry: Amsterdam Situation





### Influences & Motivations to re-integrate Industry



Source: Bedrijvstrategie 2020-2030



### MAKING SPACE FOR LIGHT INDUSTRY

AN EXAMINATION OF LIGHT INDUSTRY INTEGRATION THROUGH MIXED-USE IN AMSTERDAM'S TRANSFORMATION AREAS



### Contents

Research Aims & Objectives

**Research Questions** 

**Key Definitions** 

Methodology

Case Study

Findings

Main Conclusions

Key Recommendations

### Research Aims & Objectives

Aim 1: To gain greater insight on Amsterdam's planning system & policy framework

Aim 2: To examine **feasibility** of light industry integration in urban mixed-use developments of transformations

Aim 3: To inform & help guide **key stakeholders** in developing proper interventions & strategies

### Research Aims & Objectives

Aim 1: To gain greater insight on Amsterdam's planning system & policy framework



Aim 2: To examine **feasibility** of light industry integration in urban mixed-use developments of transformations



Aim 3: To inform & help guide **key stakeholders** in developing proper interventions & strategies



### Research Aims & Objectives

Aim 1: To gain greater insight on Amsterdam's planning system & policy framework

 $\longrightarrow$ 

Objective 1: By understanding **influence** and **approach** by (local) public bodies

Aim 2: To examine **feasibility** of light industry integration in urban mixed-use developments of transformations



Objective 2: By capturing key stakeholders' interests, priorities & means

Aim 3: To inform & help guide **key stakeholders** in developing proper interventions & strategies



Objective 3: By identifying constraints & opportunities spatially and in roles/capacities of key stakeholders in transformations

### Main Research Question

What are the key **conditions** that need to be considered in the integration of **light industry** in urban **mixed-use developments** of **transformation areas** in Amsterdam?

#### LIGHT INDUSTRY

#### Within Scope of Research Study

- Broad reaching in scope
- Covers: range of industrial functions and activities that can be integrated in an urban mixed-use environment (in theory)
- Main point of reference:
  - Product Distribution Repair Classification used in SF, USA
- Max 3.1 Environmental category from VNG Guide

#### PDR Classifications INDUSTRY TYPE

PRODUCTION

Printing & Publishing
Other Printing & Binding

Photography Services

Graphic Design, Int.Design & Signs Radio, T.V. Stations & Comm Svcs

Garment Manufacturing

Other Apparel

Utilities

Sound Recording/Film Prod Catering & Food Processing

**Building Construction & Maintenance** 

Concrete Works

Furniture Mfg & Repair Woodwork
Landscaping/Horticulture & Animal Svcs
Chemicals/Plastics/Leather Goods Mfg

#### DISTRIBUTION

Wholesale Printing & Publishing

Wholesale Apparel

Transportation & Delivery Svcs

Taxi/Limo/Shuttle

Trucking, Freight, & Packing Parcel Shipping & Courier Svcs Public Warehousing & Storage

Wholesale Flowers

Food & Beverage Wholesale & Distribution Wholesale Construction & Distribution Furniture Wholesale & Showrooms

Interior, Household & Appliance Wholesale

Large & Heavy Equipment Wholesale

Wholesale Auto Parts

Export/Import Trading Companies

Jewelry Wholesale Mfg Waste Management

#### REPAIR

Auto Wrecking & Scrap Storage Yards
Furniture Mfg & Wood Work Repair

Appliance Repair

Auto & Boat Repair, Parking& Renting

### Makers specializing in creative production/crafts, repairs & refurbishment









### Urban Manufacturing: Traditional







### Urban Manufacturing: Advanced & high tech







### Supporting Activities



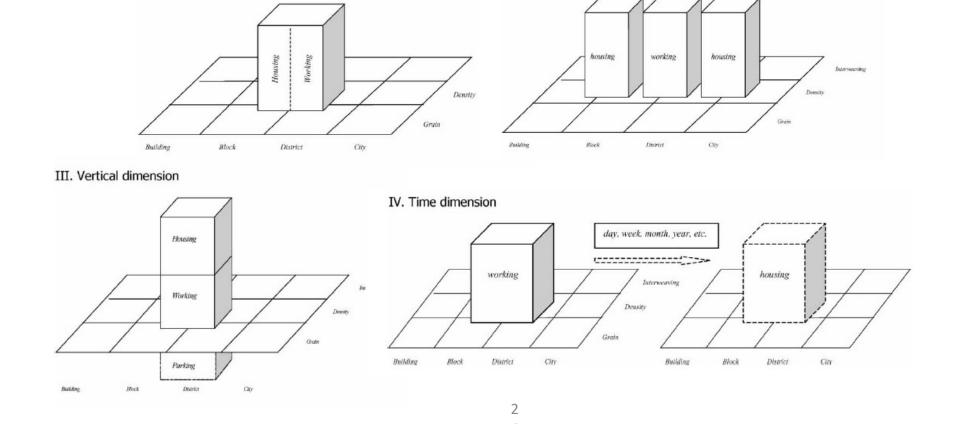




MIXED-USE (DEVELOPMENT)

### MIXED-USE (DEVELOPMENT)

I. Shared premises dimension (point)



II. Horizontal dimension

#### MIXED-USE (DEVELOPMENT)

#### Within Scope of Research Study

- Two or more land uses or functions in same vicinity
- Light industry functions & activities would ideally be accommodated for through the provision of suitable workspaces
- Applicable scales: District, neighbourhood, block & building
- Applicable dimensions: Horizontal & Vertical mixing





#### TRANSFORMATION AREAS

#### Within Scope of Research Study

- An industrial estate located within city boundaries
- Designated for transformation into a new urban mixed-use district/neighbourhood

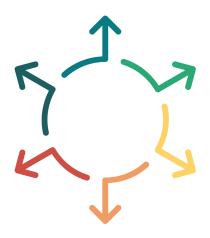




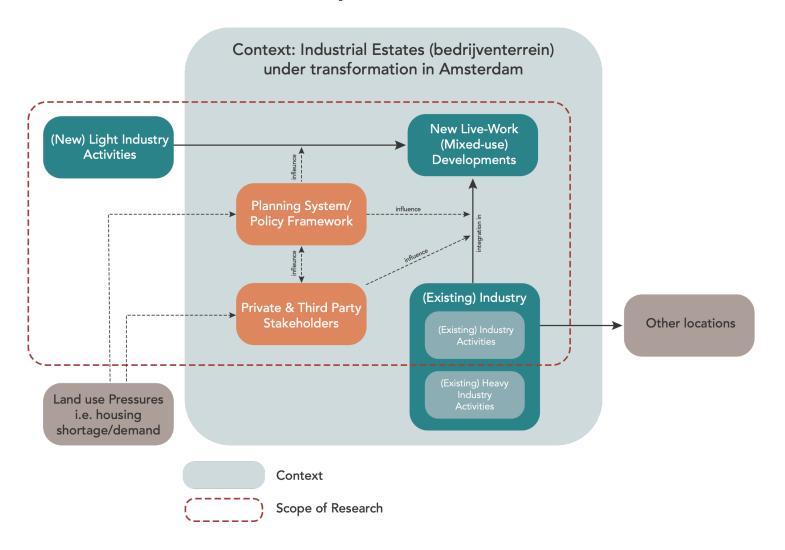
#### **CONDITIONS**

#### Within Scope of Research Study

 A circumstance or factor that can determine or have influence on a certain situation or outcome



## Conceptual Model



### Research Methodology

#### THEORETICAL SECTION



#### Literature Review

3 main topics:
 Industry | Mixed-use | Integration of Industry in Mixed-use Developments

#### **EMPIRICAL SECTION**



#### **Documentation Analysis**

 Multiple scales: General | Regional | City | Site | Block | External Docs



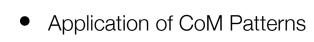
#### Semi-structured Interviews

4 interview groupings:
 Public | Private | Third Party|
 Users | Experts



#### Desktop Research







### Case Study Design

- Examination of one case in Amsterdam, NL
- To deeper explore the planning process, stakeholder interests & intentions surrounding light industry integration in an ongoing transformation site
- Justification for site selection:
  - An urban industrial area designated for (mixed-use) redevelopment
  - Comprised of existing (light) industry under threat of being pushed out
  - Stakeholders making efforts to support and safeguard light industry businesses



# Case Study: NDSM-Werf

Location: Northern banks of the IJ, Amsterdam

**Description**: Former shipyard; bedrijventerrein (industrial estate) designated for transformation

#### **Sub-areas:**

NDSM-Werf West (A- & B- blocks)

NDSM-Werf Oost

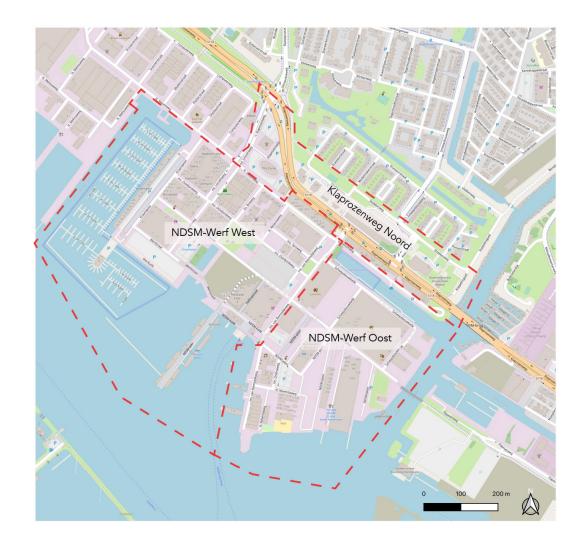
Klaprozenweg Noord

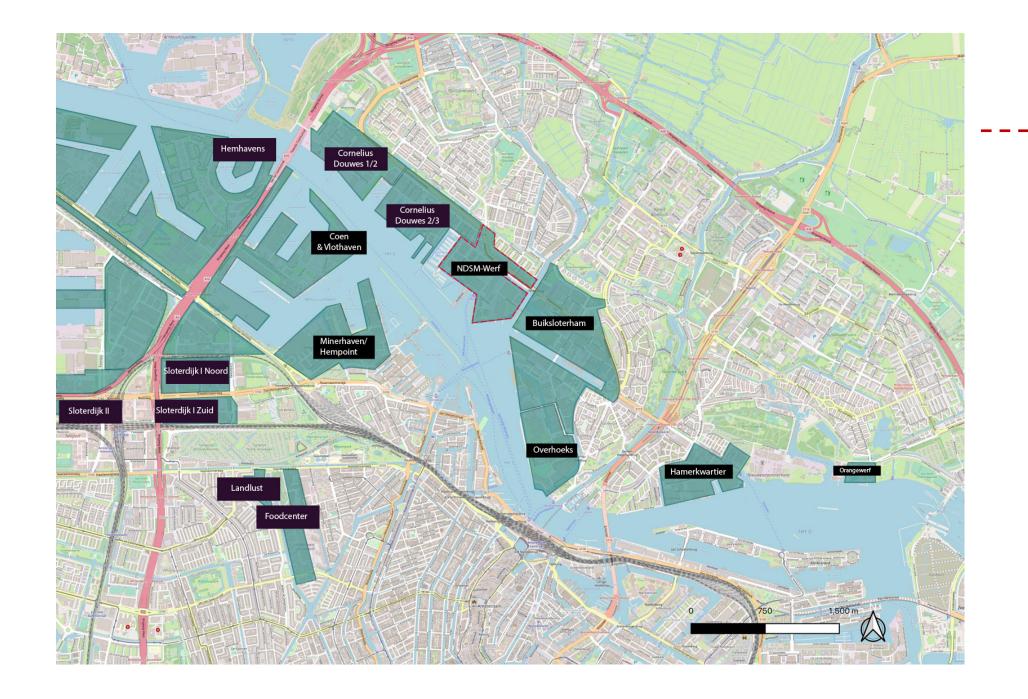
Land Ownership: Erfpacht (ground lease) system

**Development Status:** Ongoing transformation;

depends on sub-area

**Live-work designation:** Creative Neighbourhood





Case study

site





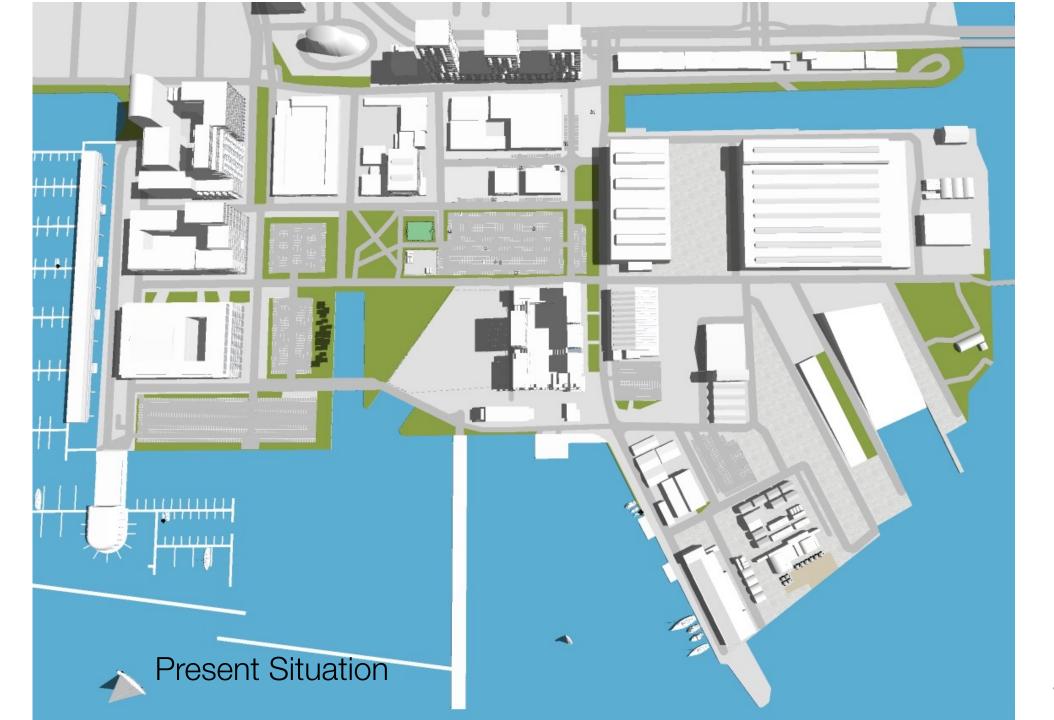


## Present: Ongoing transformation



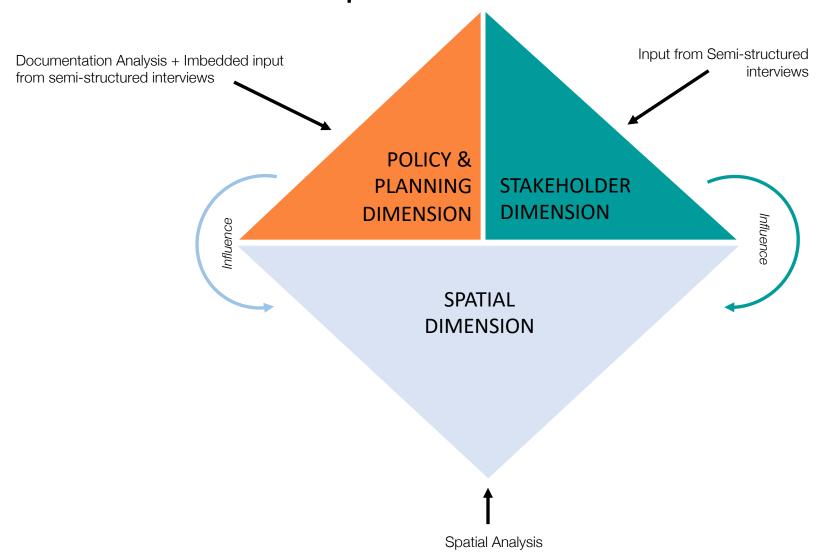








# Empirical Research





#### **DOCUMENTATION ANALYSIS**

Transformation Process Lens

Light Industry

Mixed-use Lens

#### CITY

- Transformation projects: redeveloping bedrijventerreinen into new live-work (mixed-use) districts
- Mixed-use classifications of transformation sites

#### SITE

- Initial intention for NDSM: accommodate interests of existing industrial businesses
- Priority of **realizing housing** increased significantly; transformation plans adjusted
- Limited insight on processes involved in steering/guiding development in transformations

#### **BLOCK**

- Municipality follows a **standardized roadmap** for transformation sites with steps involved in transforming per block/plot
- Kavelpaspoort key tool in the transformation process
- The erfpacht ground lease system critical milestone

#### **DOCUMENTATION ANALYSIS**

CITY SITE BLOCK

Transformation
Process Lens

Light Industry Lens

> Mixed-use Lens

- Early municipal research focused on **explicitly** safeguarding light industry
- Ruimte van de Economie van Morgen
   first key document that explicitly
  addresses the business/economic
  aspect at a broader scale; followed
  by spatial action plan more recently
- Initial plans for NDSM-Werf (West): To realize building blocks designed to accommodate existing industrial functions
- Narrative about preserving existing industrial operations was original captured, but changed in later documents
- Focus shifted to realize more housing than planned in additional blocks (A4-A7')

- No explicit emphasis on accommodating light industry activities at this scale
- Ground rent calculations: limitations for the business category (no distinction between different types)

#### **DOCUMENTATION ANALYSIS**

CITY SITE BLOCK

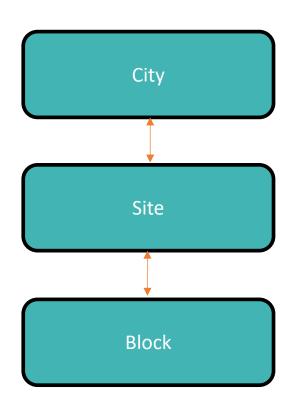
Transformation
Process Lens

Light Industry Lens

Mixed-use Lens

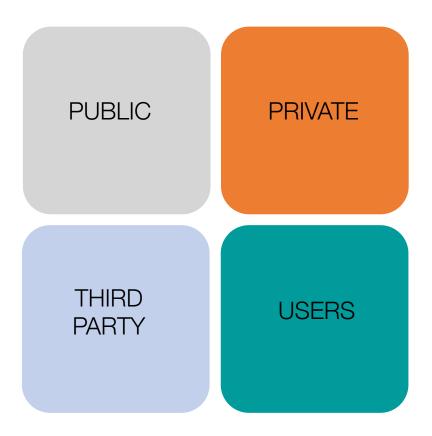
- Initial intention: to safeguard existing business types that can be mixed with living functions when transforming bedrijventerreinen
- Over time, housing became priority that overshadowed work functions (space and presenxe wise) in transformation sites
- **Intention & approach** to realizing mixed-use in NDSM-Werf has **fluctuated**
- **Definition/scope of mixed-use** in NDSM has **change** over time (live-work ratio)
- Mixed-use not explicitly captured
- Ground rent calculations: mixed-use developments are taken into account, but not explicitly involving light industry

#### **DOCUMENTATION ANALYSIS CROSS-EXAMINATION**



- Scale plays significant role in:
  - Addressing & accommodating light industry in industrial estates in Amsterdam under transformation
- More explicit emphasis on prioritizing existing industry through transformation efforts using mixed use by the municipality at city scale
- Not yet been fully developed at site or block scales within the case study site of NDSM-Werf

#### STAKEHOLDER ANALYSIS: IDENTIFICATION



#### STAKEHOLDER ANALYSIS: IDENTIFICATION

National Government

**Provincial Government** 

Metropool Regional Amsterdam

Gemeente Amsterdam

Area Developer

Other active developers

Development Consortiums

**Business Association** 

Foundation (NGO)

Foundation

Residents of NDSM-Werf (Existing & Future)

Light industry businesses Residents of NDSM-Werf (Existing & Future)

#### STAKEHOLDER ANALYSIS: INTERVIEWED



#### STAKEHOLDER ANALYSIS: INTERVIEWED





#### STAKEHOLDER ANALYSIS: POSITIONS

- Most were open to idea of mixing; had concerns related to long-term feasibility – conflicts with residential and business case
- Representative of the municipality: open to mixing light industry, but had environmental and development-related arguments

A. Mixing (light) industry in new live-work developments

B. Municipality's priorities & efforts in retaining/supporting light industry businesses in NDSM-Werf

C. Safeguarding industrial space & maintaining affordability "Yes, I think it can be feasible. The developers do have to change their mindset and understand that they are making a different kind of neighborhood then maybe then there used to. It's not going to be Overhoeks. So they have to accept lower revenues in some of the spaces. In the end, I think it will make [a] much better neighborhood with a mixed-use of working and living" – The Land Development Project Leader of NDSM (Personal communication, 2021)

"Mixing is because there's no other alternative, you know? You have to mix because there's too many houses in this area, so now we must find out what kind of work can we do in these densely populated and built environments. [...] In my opinion, that's [...] the wrong way around, because yeah, you should start with combining all these things and that's a big worry." – Director of ORAM, personal communication, 2021

#### STAKEHOLDER ANALYSIS: POSITIONS

- Mixed response from nonmunicipal stakeholders
- Critical remarks
  - zoning designations
  - planning tools
- Municipality plays limited role in retaining existing light industry businesses as part of transformation plans

A. Mixing (light) industry in new live-work developments

B. Municipality's priorities & efforts in retaining/supporting light industry businesses in NDSM-Werf

C. Safeguarding industrial space& maintaining affordability

"The needs for houses is so big so that [the realization of industrial/manufacturing spaces is] a secondary request I think." – Owner of CHASE/Leaseholder, personal communication, 2021

"Well, it is a priority to maintain these companies, also for the employment in these kinds of businesses. We don't want to chase all these companies out of the city, because that's what usually happens, and that's what we've seen happening, they go to Zaandam or to other parts in the area of Amsterdam, and they all leave the city because they can't afford to pay the rent anymore. And that's, that's quite difficult for the city to have influence on because, well, in this case of NDSM, you see that first thing before the new buildings out there, you have to tear down the old buildings. So where do users go? And will they come back after the new development is realized? And that's a bit hard for the city to control. So, we try to make the conditions for them to return, but we cannot really make them do that." - Land Development Project Leader of NDSM (Personal communication, 2021)

#### STAKEHOLDER ANALYSIS: POSITIONS

- Affordability very important for certain stakeholders
- Municipality has existing tools (planning & financial) that are considered as appropriate to accommodate light industry

A. Mixing (light) industry in new live-work developments

B. Municipality's priorities & efforts in retaining/supporting light industry businesses in NDSM-Werf

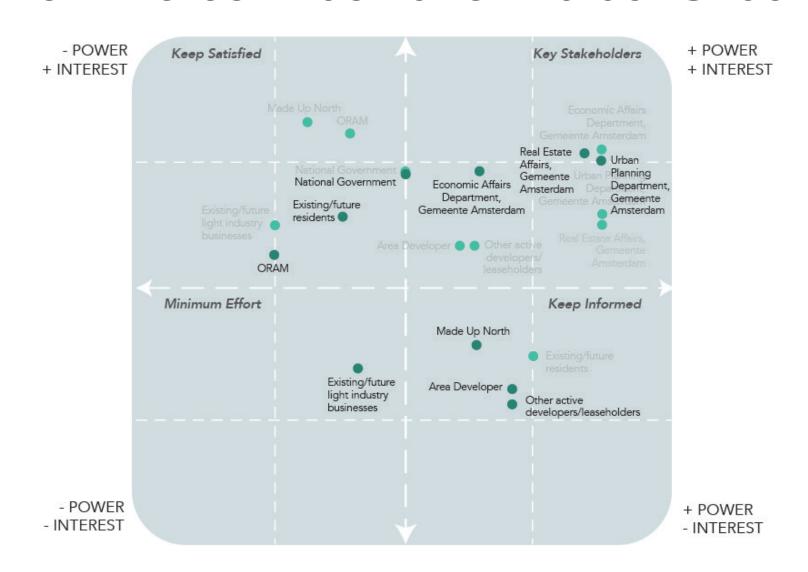
C. Safeguarding industrial space & maintaining affordability

"Well, it's good [that] you mentioned [cross subsidies] because we suggested that actually. We said, what if we say [...] we use other turnover in the building to lower the rents for the makers [to put it] very simply. Or that we say these workspaces are not being used, after six o'clock in the evening so we can sort of double use [and] we rent out certain spaces so that we maximize the value per square meter so we minimize the rent. [...] now in the legislation, in the Erfpacht, it's not possible they told me, because then they would have to make it mixed-use, and then you get the highest erfpacht [...]" – Co-founder of Made up North, personal communication, 2021

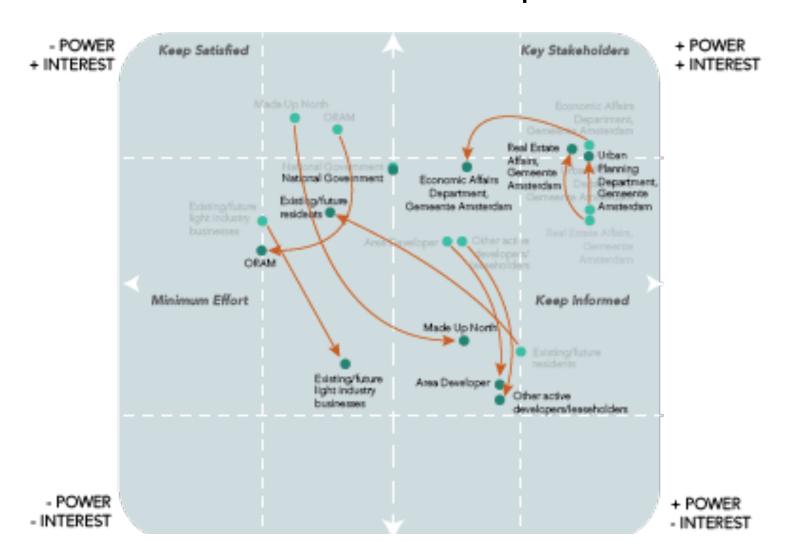
# Power-Interest Positions: Expected Situation



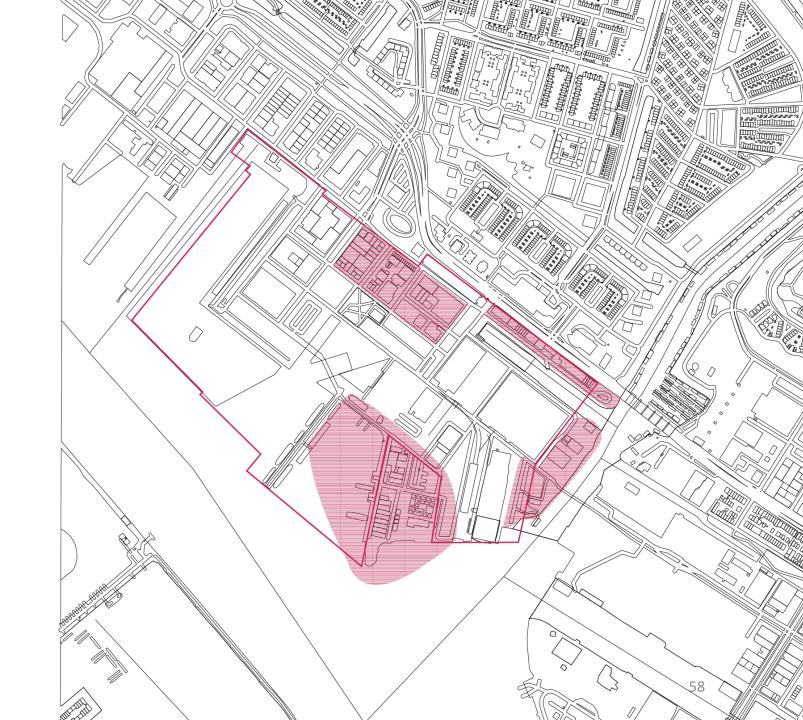
### Power-Interest Positions: Actual Situation



# Power-Interest Positions: Expected vs Actual

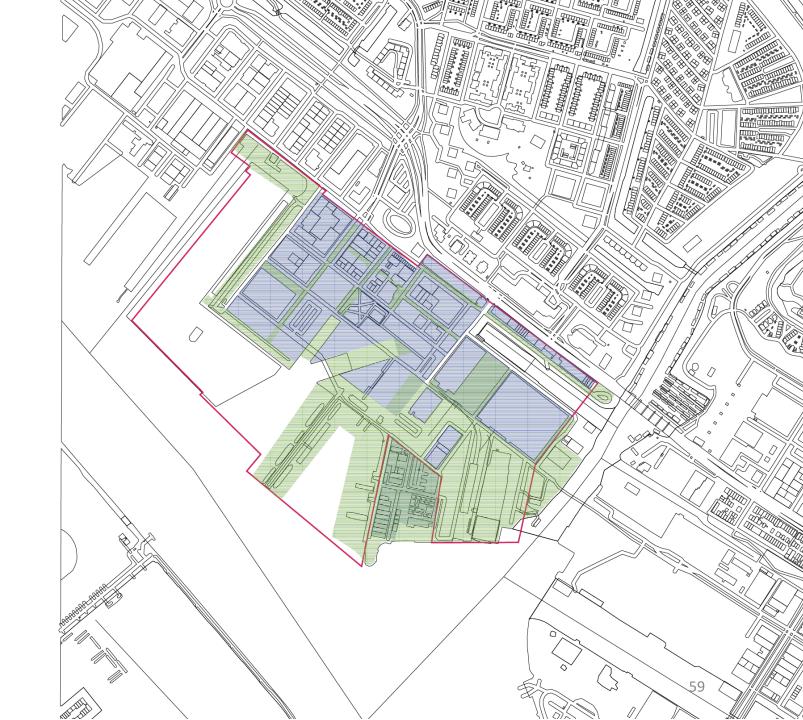


# Spatial Claims Light industry businesses

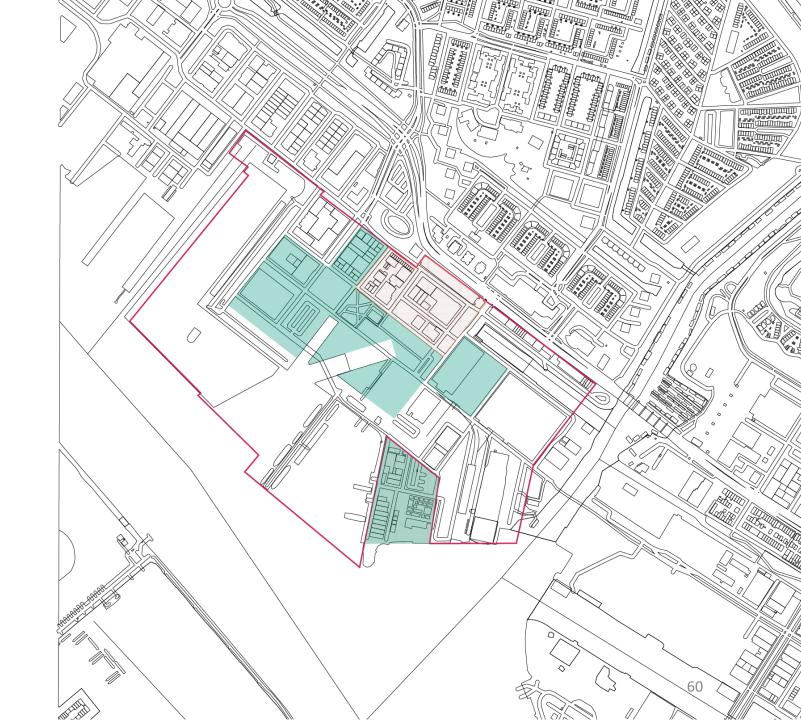


# Spatial Claims

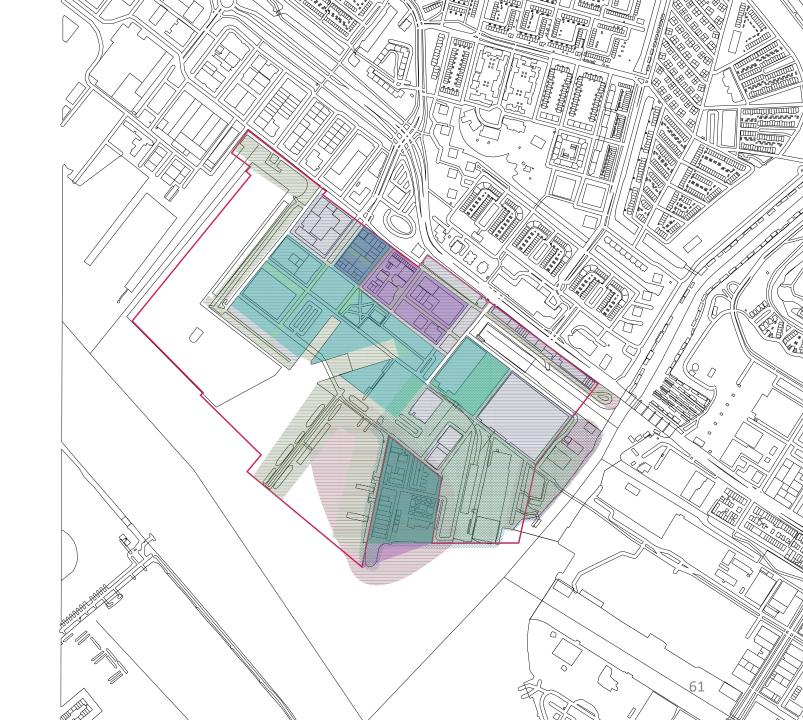
Gemeente Amsterdam



# Spatial Claims Developers

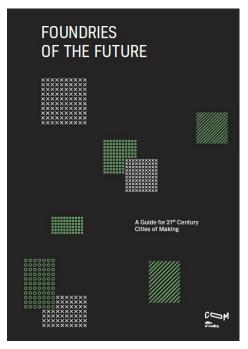


# Spatial Claims OVERLAID



# City of Making (CoM) Pattern Language





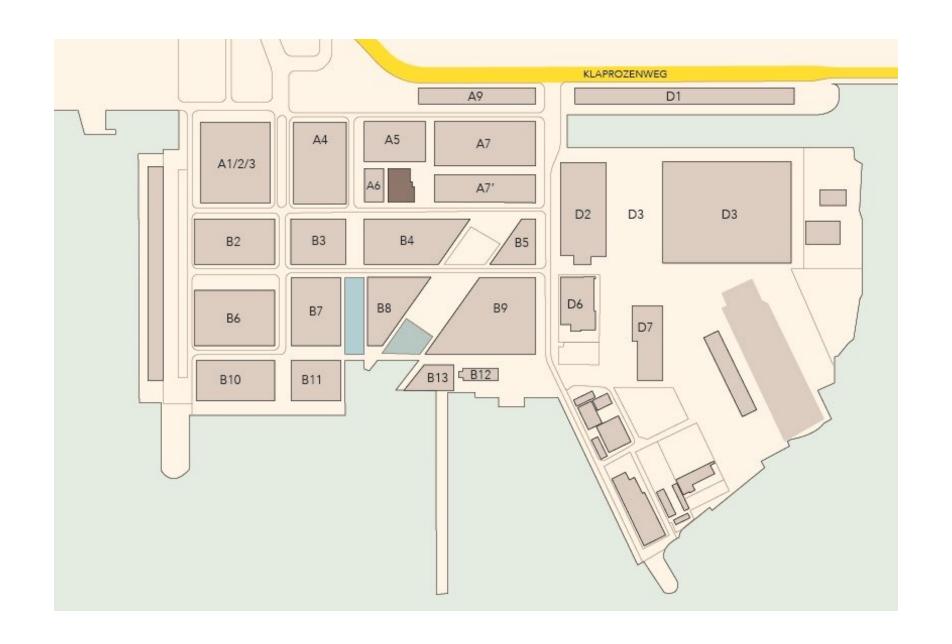
R = Transcalar

**C** = City/Neighbourhood

N = Neighbourhood/Block

B = Block/Building

P = Programme



#### **Examined Plans**



## Helling 5 Extension



### Present Situation



## Municipality's Plans

**Taking advantage of** 

**Place Conditions** 







## Identified Opportunities

**Quality Urban Environment** 

in Making Areas











## Identified Opportunities

**Quality Urban Environment** 

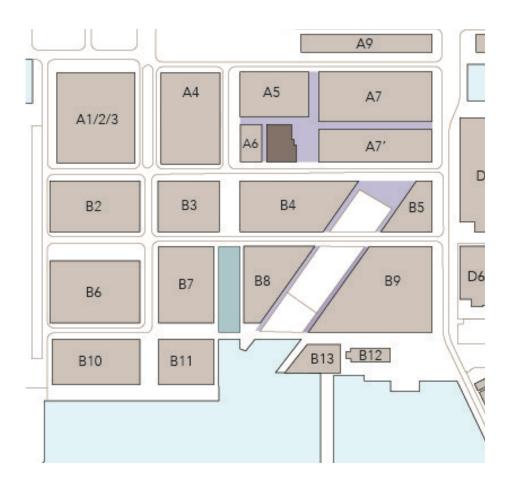
in Making Areas







#### Blocks A4-A7'



### Present Situation



## Municipality's Plans









Local Design

& Prototyping







**Varying** 

**Unit Sizes** 











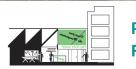




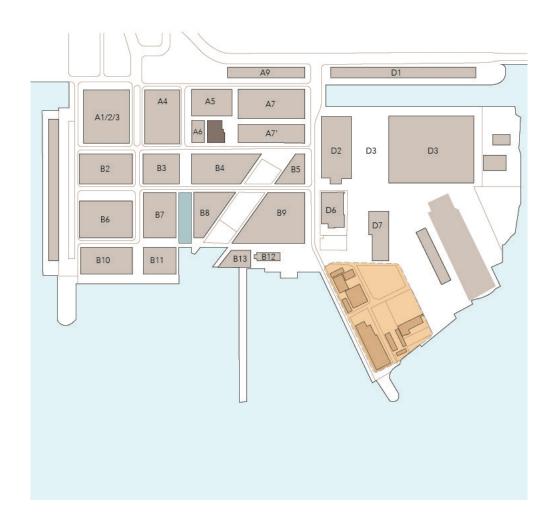
**Local Design** 

& Prototyping





# Creative-Maker District in NDSM-Werf Oost



### Present Situation



## Made up North's proposed plans



Quality Urban Environment in Making Areas



Public Face









Meanwhile spaces for Transitional Uses



The Work Home





**Making around** 

courtyards



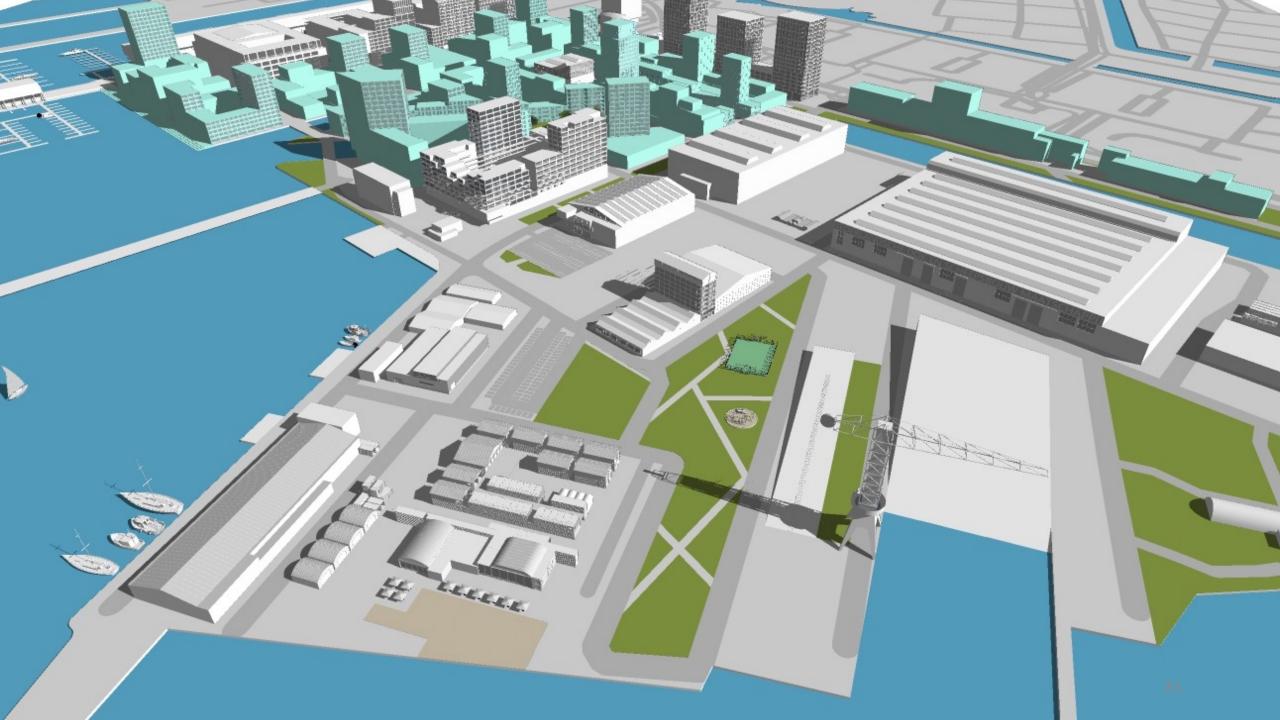




Meanwhile spaces for Transitional Uses



The Work Home







#### Conclusions

#### Main RQ:

What are the key conditions that need to be considered in the integration of light industry in urban mixed-use developments of transformation areas in Amsterdam?

#### 6 Conditions were captured:



Source: Hatteomeom (Sy Freepin)



Source: flaticon.com (by ultimatearm)



Source: flaticon.com (by surang)

Collaboration





Source: flaticon.com (by Eucalyp)

Spatial (Design)
Considerations of
Light Industry



Source: flaticon.com (by Eucalyp)

#### Recommendations

#### CITY SCALE

- Implement a structured, city-wide planning procedure directed at retaining & supporting light industry (existing and new) in industrial estates under transformation
- Find solutions to retain and maintain existing buildings in which light industry activities currently operate in to safeguard affordability
- Debunk the perception of nuisance surrounding (light) industry by increasing transparency

#### SITE SCALE

Apply spatial-related opportunities identified where still possible