

ROTTERDAM MAKERS DISTRICT

M4H
ROTTERDAM

RDM
ROTTERDAM



WELCOME TO THE
MAKERS DISTRICT

HOTSPOT FOR INNOVATIVE MANUFACTURING

LONG TERM CHALLENGES

CITY - PORT



Energytransition



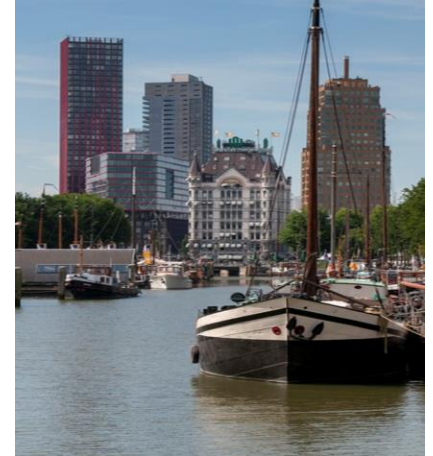
Digitalization



Employment & skills



Attractive city



CROSSOVERS AND SYNERGY

NOT: PORT OUT, CITY IN



- 1400 – 1800
- 1800 – 1900
- 1920 – 1940
- 1946 – 1960
- 1960 – 1970
- 1970 – heden
- 2008+

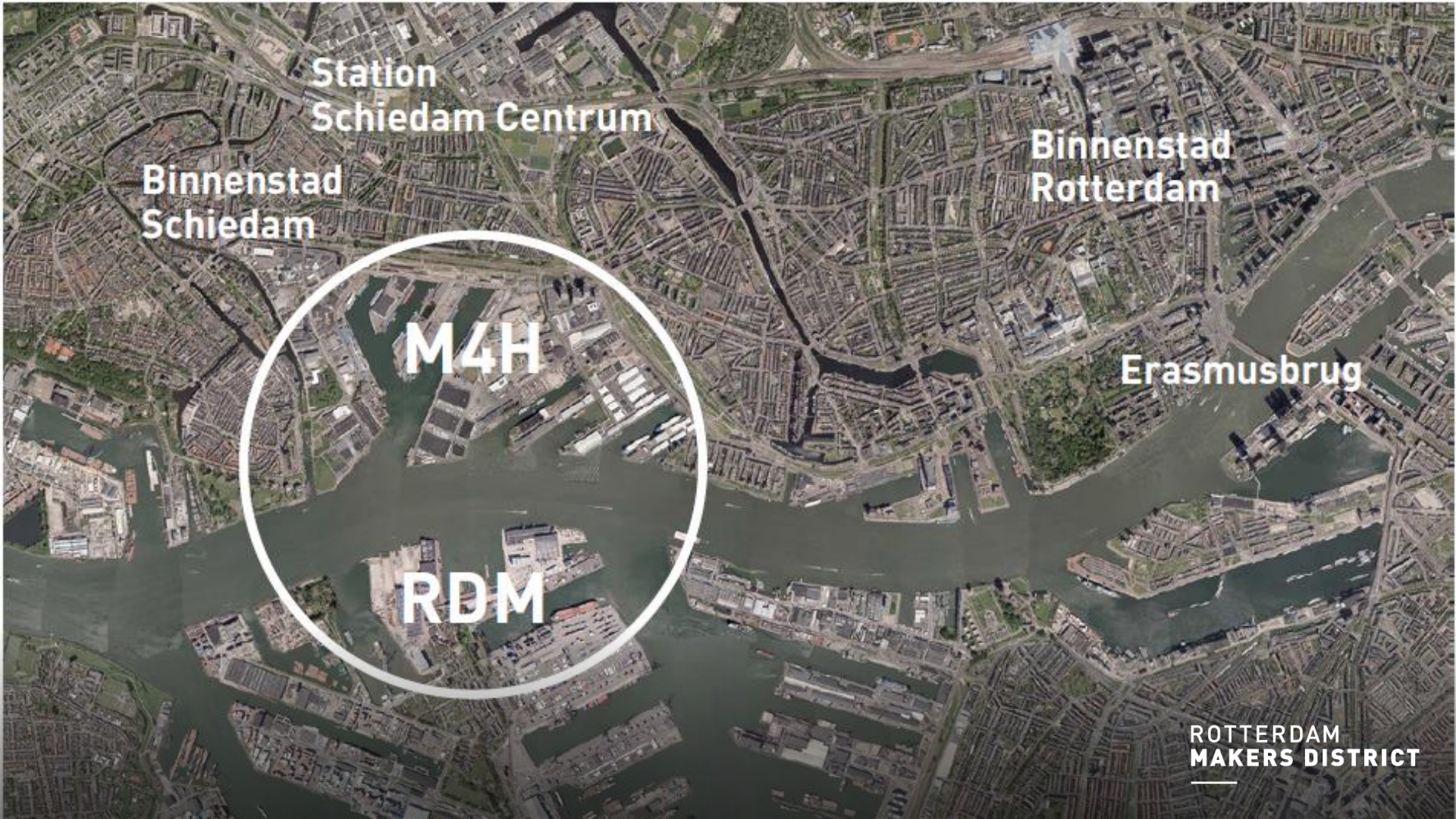
PORT DEVELOPMENT

MAKERS DISTRICT

ROTTERDAM
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M4H AND RDM: THE MAKERS DISTRICT





Station
Schiedam Centrum

Binnenstad
Schiedam

M4H

RDM

Binnenstad
Rotterdam

Erasmusbrug

ROTTERDAM
MAKERS DISTRICT

VISION AND STRATEGY

The Rotterdam Makers District is the ultimate location for the innovative manufacturing industry. This is where, in practice, the transition is made to the new economy. It's where young businesses grow into large, established enterprises and young people are introduced to technology. It's where new technology is not only invented, but also tested and applied. Innovative living-working environments are taking shape here. This makes the district a testing ground and showcase for the circular economy of city and port.

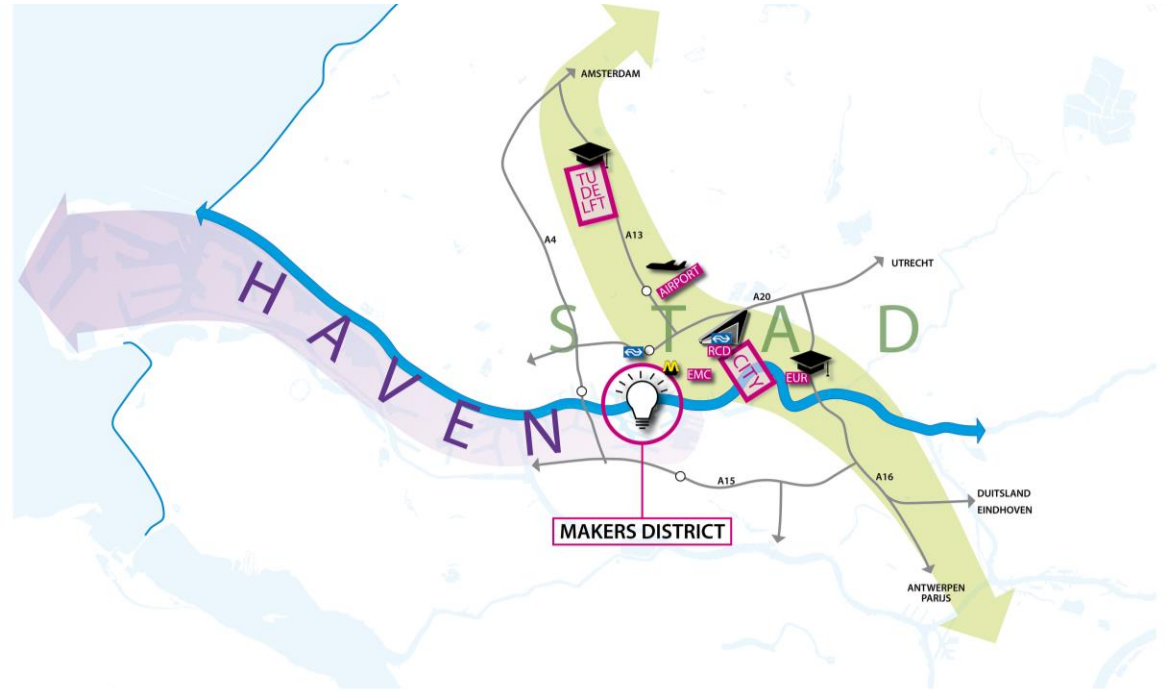
GOALS MAKERS DISTRICT

VISION & STRATEGY

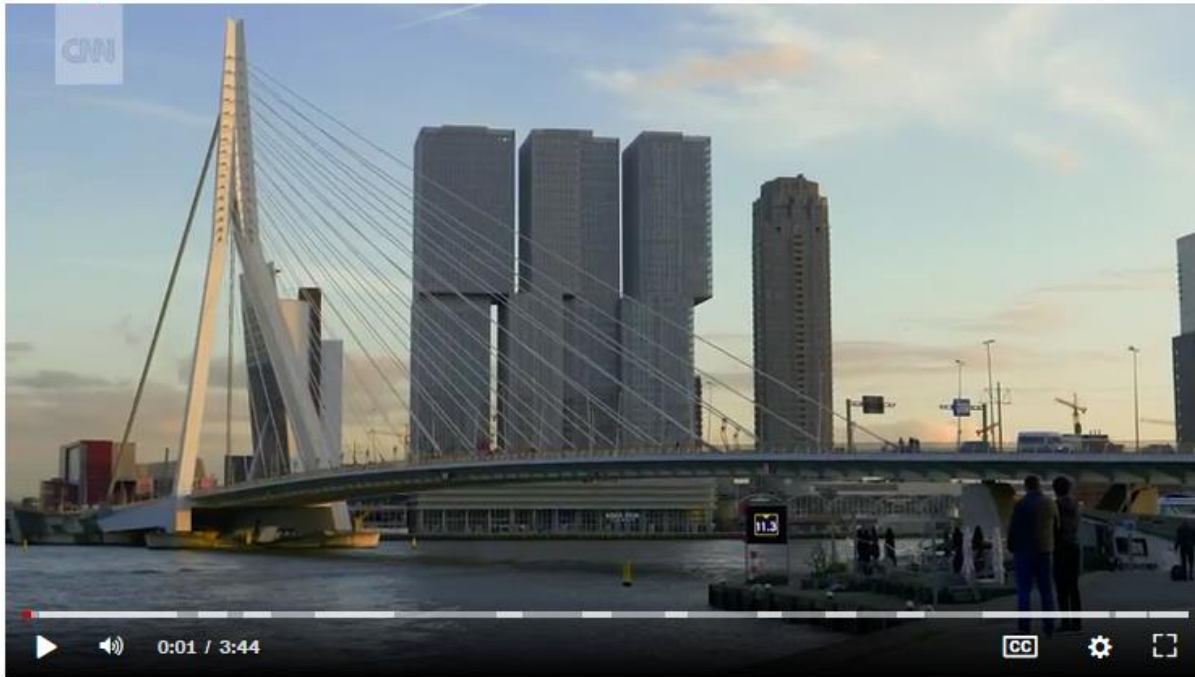
- Attract and facilitate innovative manufacturing companies and supporting services
- Employment for the population of the Rotterdam region
- An open innovation environment with a mix of companies, educational and knowledge institutions
- The area as a testing ground and showcase for the circular future of the city and port
- An urban living environment on and around the Merwe-piers

INNOVATION ECOSYSTEM

THE DEVELOPMENT OF THE ROTTERDAM MAKERS DISTRICT FILLS A GAP IN THE REGIONAL AND NATIONAL INNOVATION ECOSYSTEM.



A COMMUNITY OF MAKERS



A community of makers

Creating a hub for innovative start-ups and large corporations in Rotterdam, Netherlands. Source: CNN



**ROTTERDAM
MAKERS DISTRICT**

INNOVATIVE MANUFACTURING INDUSTRY

KEY TECHNOLOGIES

- Robotization
- Additive manufacturing
- Material science

CHARACTERISTICS

- Flexible
- Shared facilities
- Open innovation

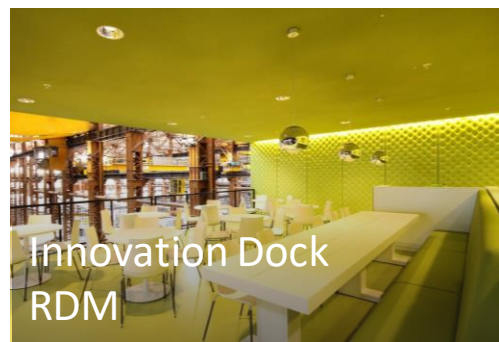




Erasmus Center of Entrepreneurship M4H



Keilewerf M4H



Innovation Dock RDM



Fair Design Plein M4H



Aqualab RDM



SuGu club M4H



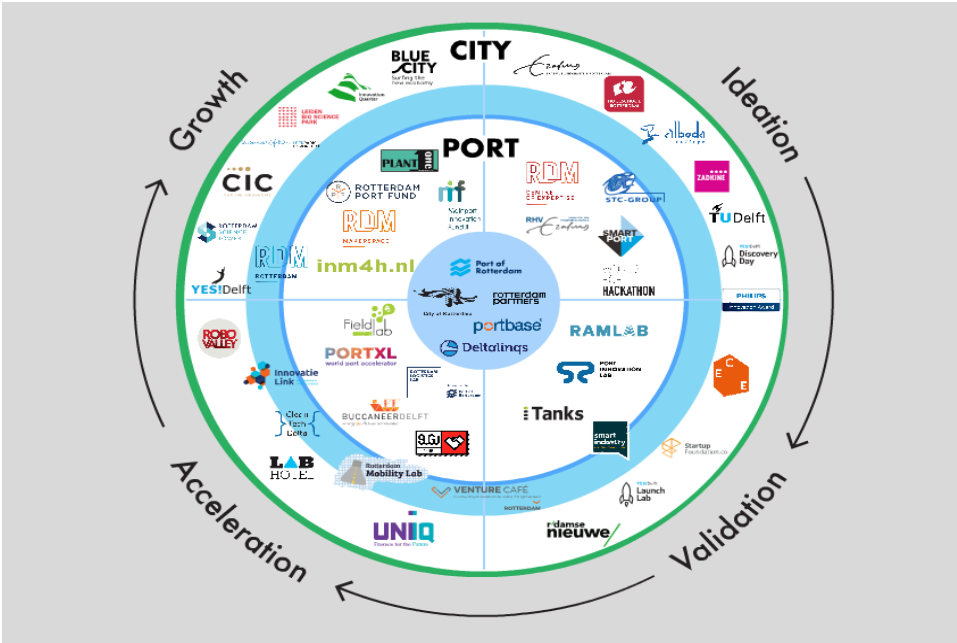
Labhotel M4H

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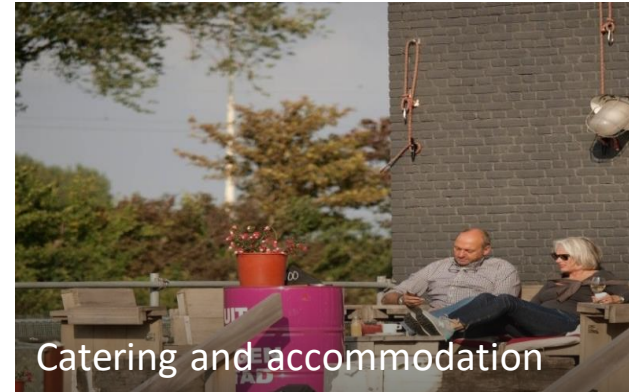
SUCCESS FACTORS

THE ADDED VALUE OF THE MAKERS DISTRICT IS NOT ONLY THE PHYSICAL SPACE, BUT ALSO A BUSINESS CLIMATE THAT STIMULATES AND STRENGTHENS COOPERATION AND ENTREPRENEURSHIP.

NETWORK & COMMUNITY



MEETING POINTS, CATERING, LIVING, EVENTS, GOOD CONNECTIONS AND OTHER PUBLIC FACILITIES.



RDM ROTTERDAM






































**ROTTERDAM
MAKERS DISTRICT**





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STATISTIEKEN RDM ROTTERDAM

	2014	2016	2018
SCHEEPSBOUWLOODS (30.000M2)	 22000	 28000	 30000
INNOVATION DOCK (23.000M2)	 17000	 20000	 22000
ONDERZEEBOOTLOODS (10.000M2)	 3000	 10000	 10000
GROFSMEDERIJ (15.000M2)	0	 12000	 15000
BEDRIJVEN	 20	 40	 50
MEDEWERKERS	 100	 300	 400
ONDERWIJSINSTELLINGEN	 3	 4	 5
OPLEIDINGEN	 9	 24	 40
SCHOLIEREN/STUDENTEN	 1600	 1700	 2450
INNOVATIETEAMS	 56	 88	 150
BEZOEKERS	 48500	 87400	 105000
RONDLEIDINGEN	 100	 200	 250

PARTNERS



Hier wordt gesteund in uw toekomst.
Dit project is mede gefinancierd met steun
van het Europees Fonds voor Regionale
Ontwikkeling van de Europese Commissie.

ROTTERDAM.
MAKE IT
HAPPEN.

RDM

ROTTERDAM

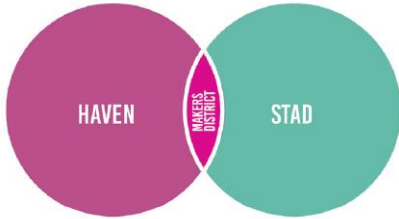
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M4H: DEVELOPMENT CHALLENGE



- The Development Vision M4H (2015) was based on organic growth, with **three development scenarios**.
- Nowadays, market interest (creative industry, maritime industry and housing) and the success of RDM give reason for **Port Authority** and the **municipality** to develop the area **together and more actively**.

M4H: SPATIAL FRAMEWORK



M4H

ROTTERDAM

- **On the boundary between city and port, outdated port areas offer the perfect conditions for an innovation environment.**
- With M4H, the Port Authority and the municipality have entered into a unique collaboration.
- New manufacturing industry brings the economy of the city and port together and contributes to the expansion and sustainability of both. It boosts the region's innovative capacity and creates new jobs.

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INNOVATION: DYNAMIC LIVING ENVIRONMENT



- Innovative manufacturing industry flourishes in a vibrant urban environment, rich in catering, educational and cultural facilities. Such an environment is only created if people also live there.

M4H

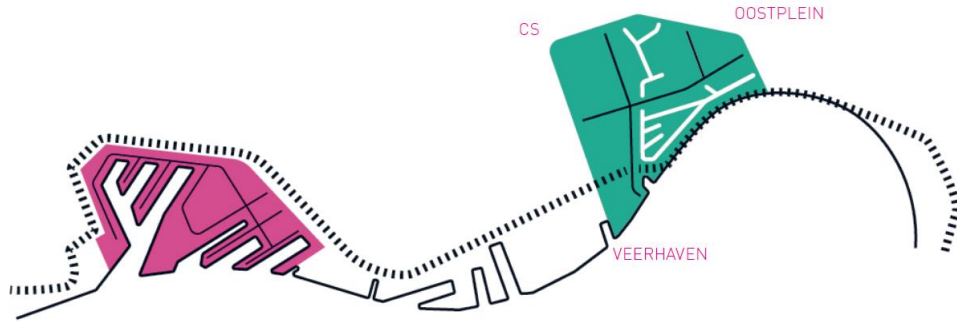
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PURPOSE OF THE SPATIAL FRAMEWORK

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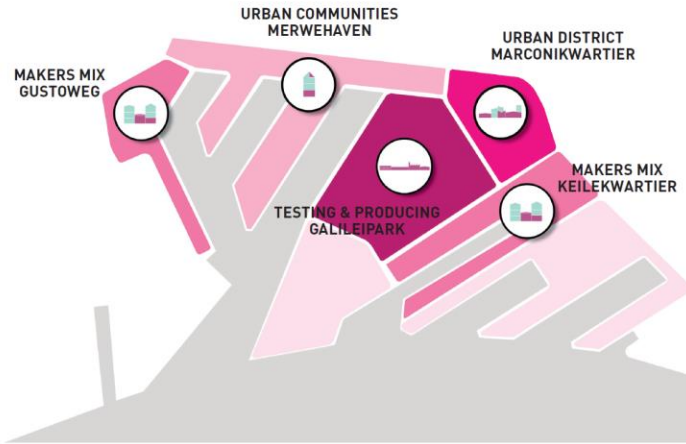
- A successful development of M4H requires varied business environments, greening, well-organised traffic flows, focal points for meeting, sufficient critical mass and a good connection with the environment. The spatial framework provides for this.

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VARIATION IN (BUSINESS) ENVIRONMENTS

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- The business environments in M4H reinforce each other and are complementary to other innovation environments in the region and in the surrounding neighbourhoods. In the programmatic main structure, four have been discerned, divided into five sub-areas.

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GALILEIPARK



- Galileipark: larger manufacturing companies that need environmental space. Here there is also room for catering, culture, education, events and other forms of space usage that contribute to an energetic business climate for innovative companies. Living here is out of the question.

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MARCONIKWARTIER



- Marconikwartier: the most urban mix of living, working and provisions, with the highest building density, connecting to the Marconiplein intersection.

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KEILEKWARTIER AND GUSTOWEG



- Keilekwartier and Gustoweg: residential-work environments with space for craft enterprises and creative manufacturing businesses, on the transition to the work areas on both sides of M4H.

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MERWEHAVEN



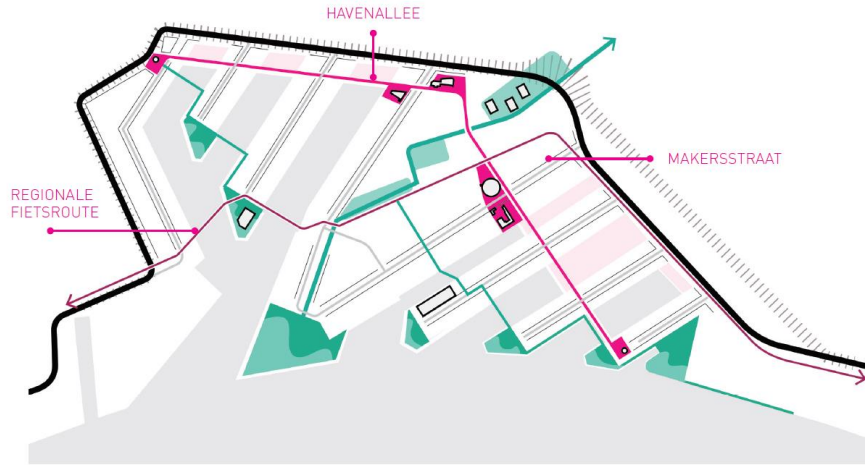
- Merwehaven: urban residential-work environment where the emphasis is on housing and supporting facilities such as schools, shops and catering establishments.

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PUBLIC SPACE AND INFRASTRUCTURE



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- The second set of starting points concerns the spatial main structure: public space and infrastructure. It lays the connections between the five sub-areas and with the surrounding neighbourhoods.

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STRUCTURE PICTURE 2035



GUIDING AMBITIONS

The starting points restrict themselves to the programmatic and spatial main structure. Many choices still need to be made with regard to the interpretation and elaboration. However, for some points, detailed examples have already been developed or a guiding ambition has been set in other ways.



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GUIDING AMBITIONS

It is about the elaboration of tasks at three levels of scale:

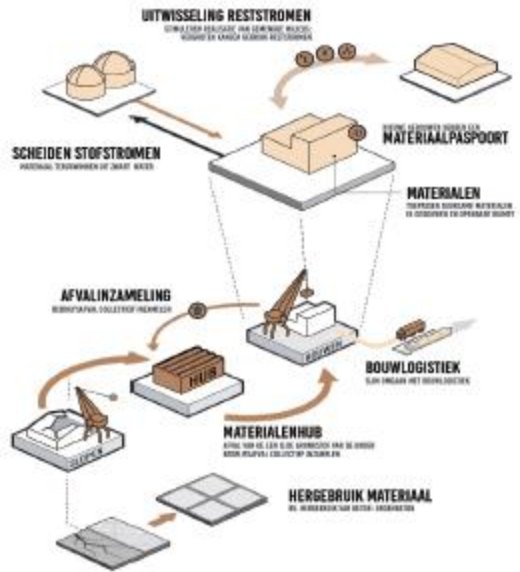
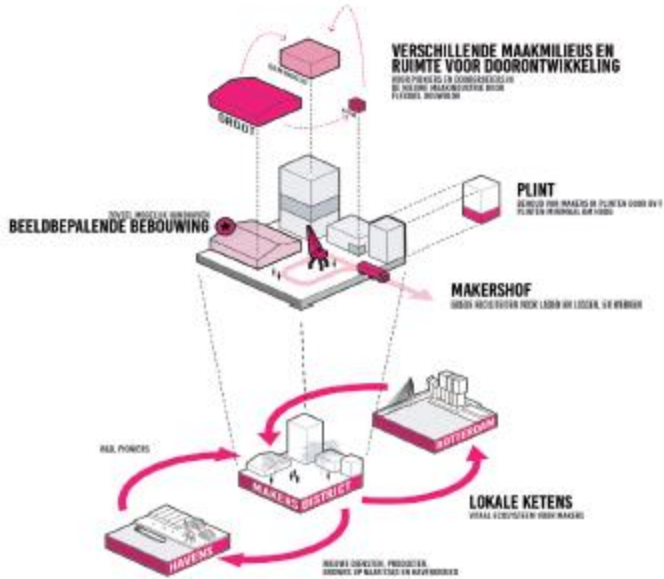
- tasks that exceed the scale of M4H, but are important for this area. Reorganisation and redevelopment of the Marconiplein and the regional cycle route.
- tasks that concern all of M4H. These include the programming of provisions, water safety, the materialisation of the spatial main structure, the concept of the mobility hubs in relation to a new parking regime and 'last mile' solutions and, finally, the basic profiles of the Makersstraat and the Havenallee.
- tasks that have a place in sub-areas. These include the elaboration of the build-up area structure, the function mix per sub-area and the elaboration of the basins.



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GUIDING AMBITIONS



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EIGHT PRINCIPLES FOR SUSTAINABLE AREA DEVELOPMENT

1. M4H offers permanent space to different types of makers.
2. M4H prefers the sharing of provisions to individual ownership.
3. M4H provides room for experimentation and learning.
4. M4H produces and uses renewable energy.
5. M4H values waste flows.
6. M4H makes it possible to opt for sustainable mobility.
7. M4H works as one resilient climate adaptive system.
8. M4H builds on the industrial capacity and quality of the area.



ROTTERDAM

LOOK AHEAD TO 2050



- The structure picture is based on the expected development up until 2035. The development of M4H by then is still not complete.
- Different future visions are conceivable for both areas. It is still too early to make choices concerning them. The 'structure picture for 2050' is nothing more than a possible interpretation.

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