



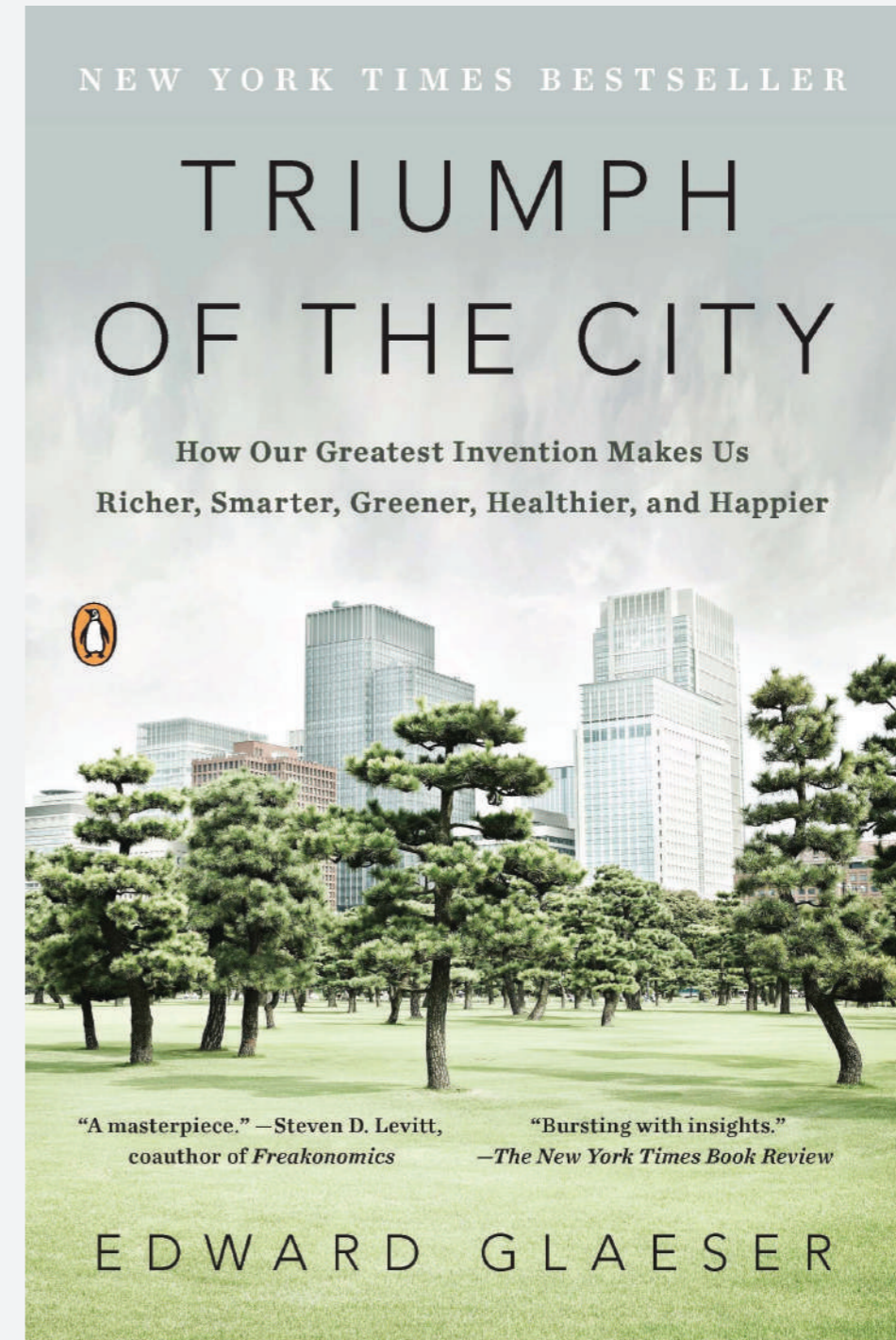
**Toward sustainable urban development -
A design-led and integrated masterplanning approach**

Jeroen Dirckx, Partner
KCAP Architects & Planners

Triumph of the City

*According to UN surveys, 55% of people lives in urban area's. By 2050, two-third of the population will live in urban area's **

* Growth primarily in Asia and Africa



Challenges

In terms of size, cities occupy only two percent of the world's landmass.

But they consume over two-thirds of the world's energy and account for more than 70% of global CO2 emissions.

C40 Cities

Larger, denser cities are cleaner and more energy efficient than smaller cities, suburbs, and even small towns.

Richard Florida

Challenges

- Accommodating urban growth
- Inclusive and social
- Community building
- Economic prosperity
- Energy transition
- Circular economy
- Climate change
- Nature inclusive
- ...

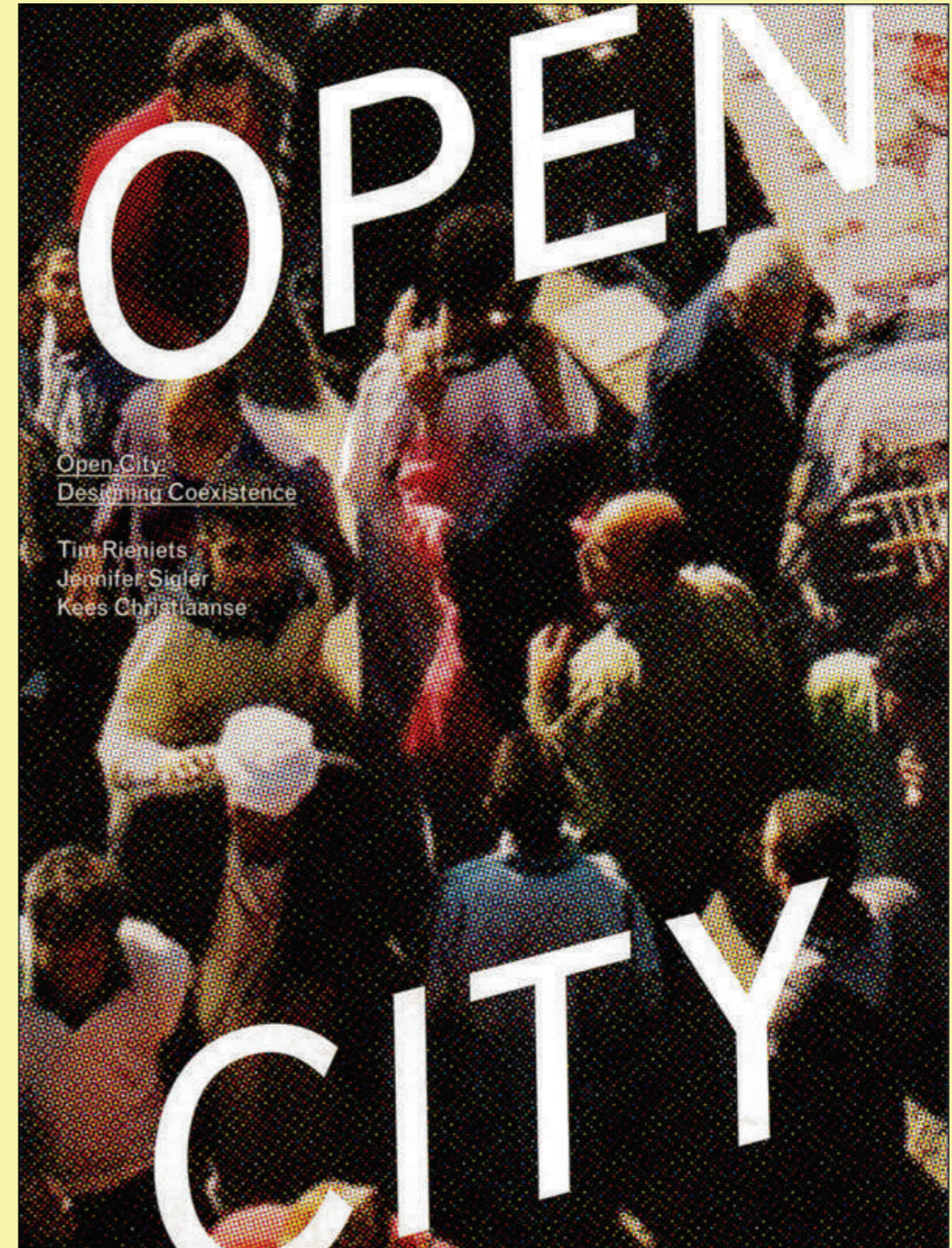


4th Rotterdam Architecture Biennale

Curated by prof. Kees Christiaanse, founder of KCAP

Open City:

*Designing
Coexistence*



GWL-Terrein Amsterdam [NL]

Ecological and car-free residential neighbourhood



GWL-Terrein Amsterdam [NL]

Pioneer in car-free and sustainable masterplanning



GWL-Terrein Amsterdam [NL]

Lively community



HafenCity Hamburg [DE]

Redevelopment of former port area for new city district



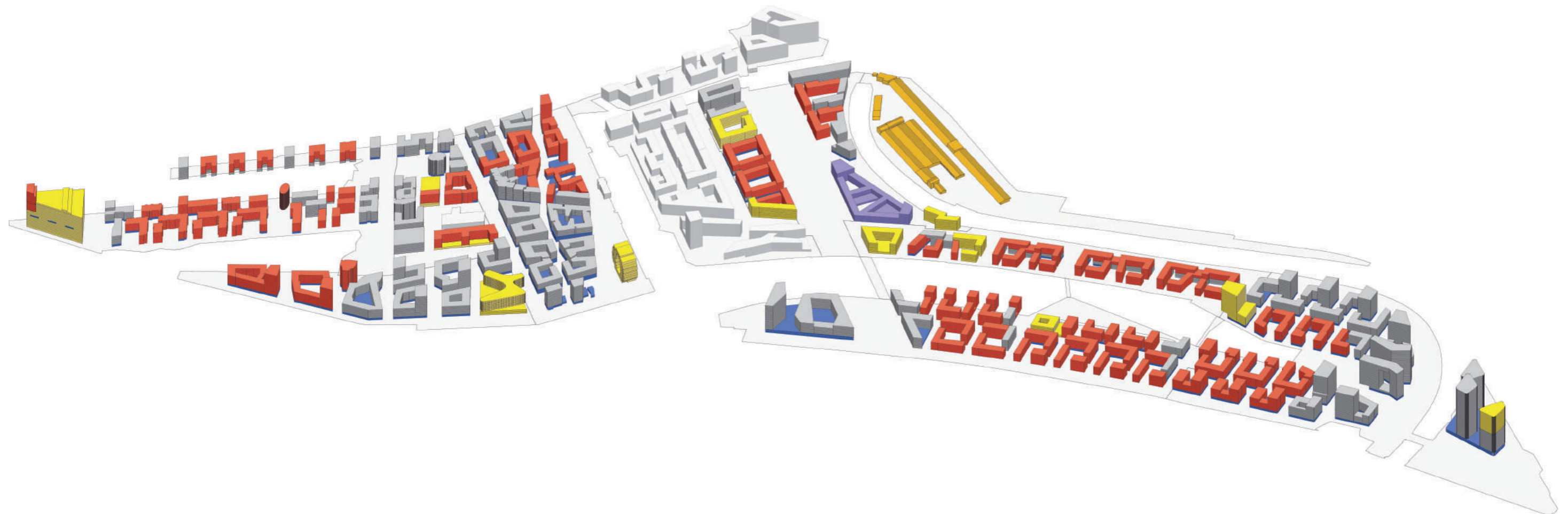
HafenCity Hamburg [DE]

Planning approach towards a living city district








HafenCity Hamburg [DE]

Mixed use - liveliness



Nutzungsverteilung

-  Handel, Dienstleistungen, Gastronomie und Freizeiteinrichtungen
-  Schule
-  Kultur, Hotel und sonstige Nutzungen
-  Bestandsnutzung Lager / Kultur geplant
-  Wohnen
-  Büro

HafenCity Hamburg [DE]

Mixed use - prosperous city



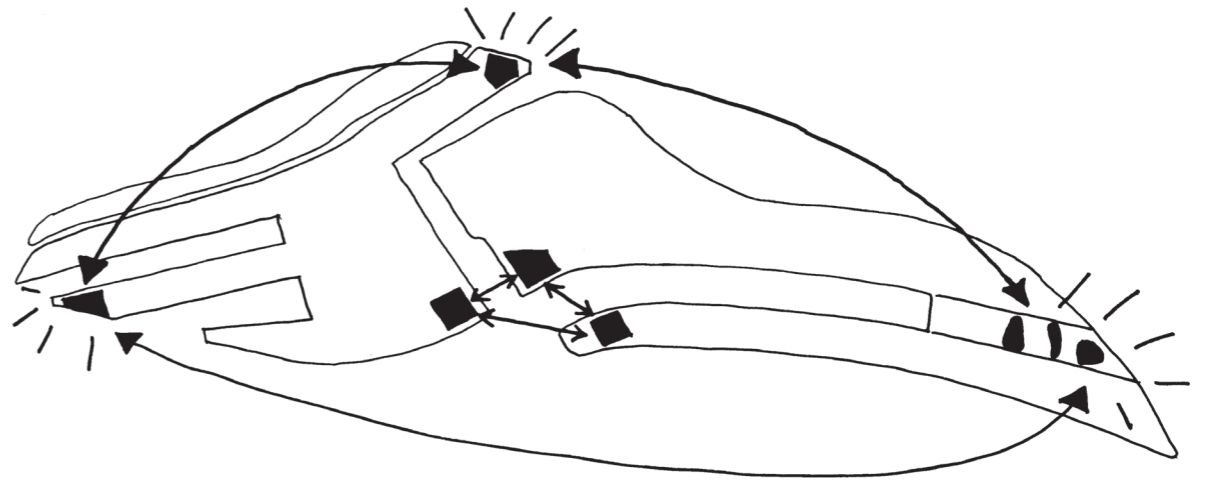
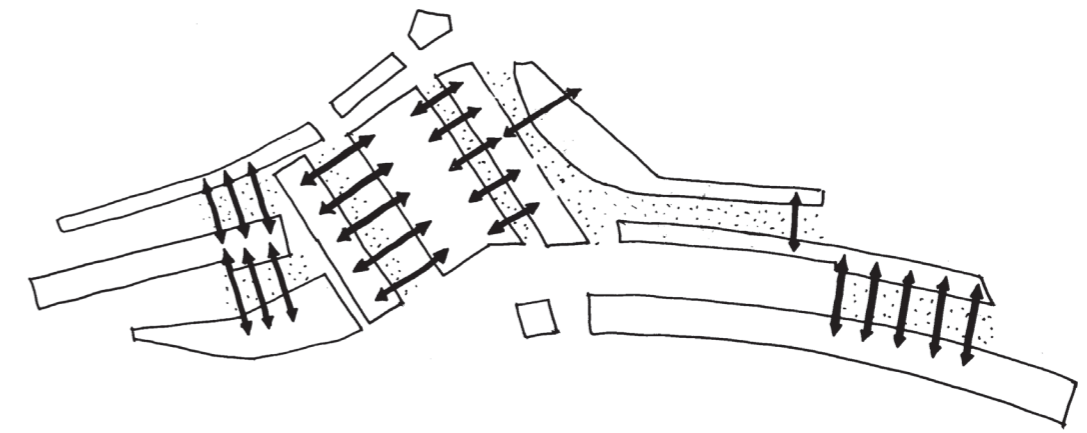
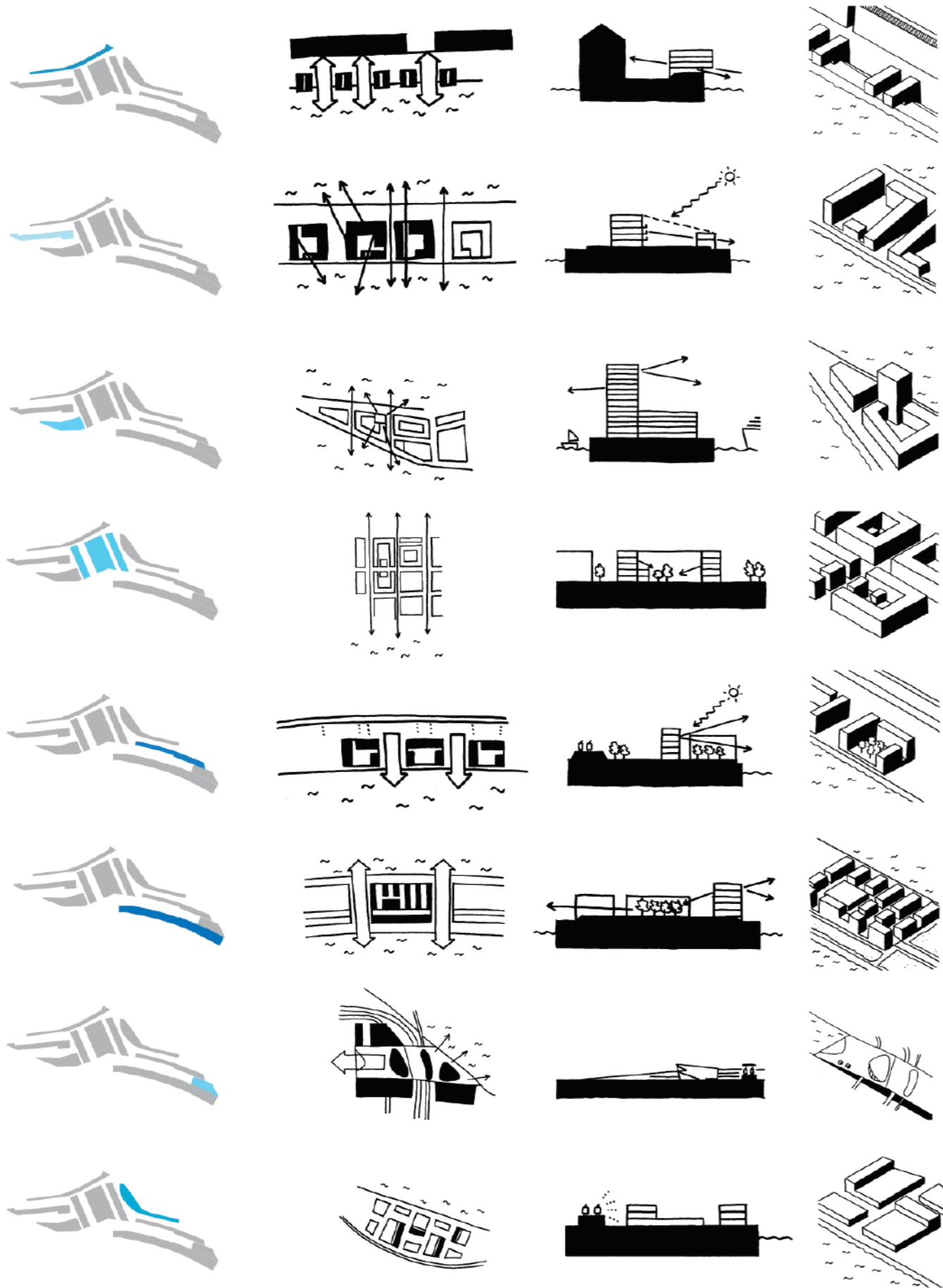
HafenCity Hamburg [DE]

Sustainable mobility concept - TOD; public transport, walking, biking



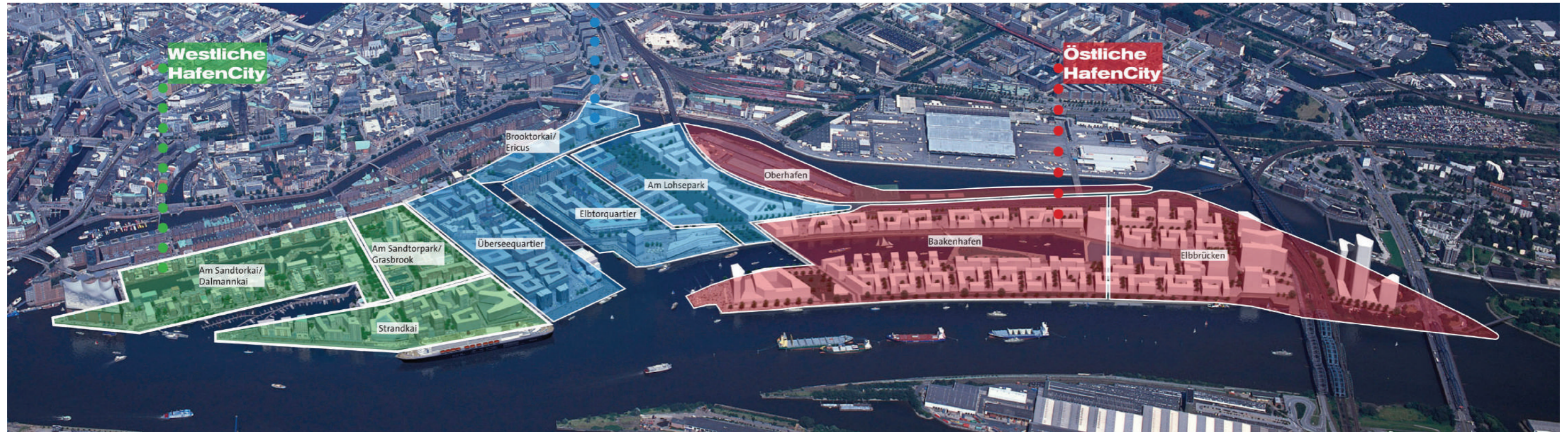
HafenCity Hamburg [DE]

Flexible framework masterplan



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Integrated masterplanning approach



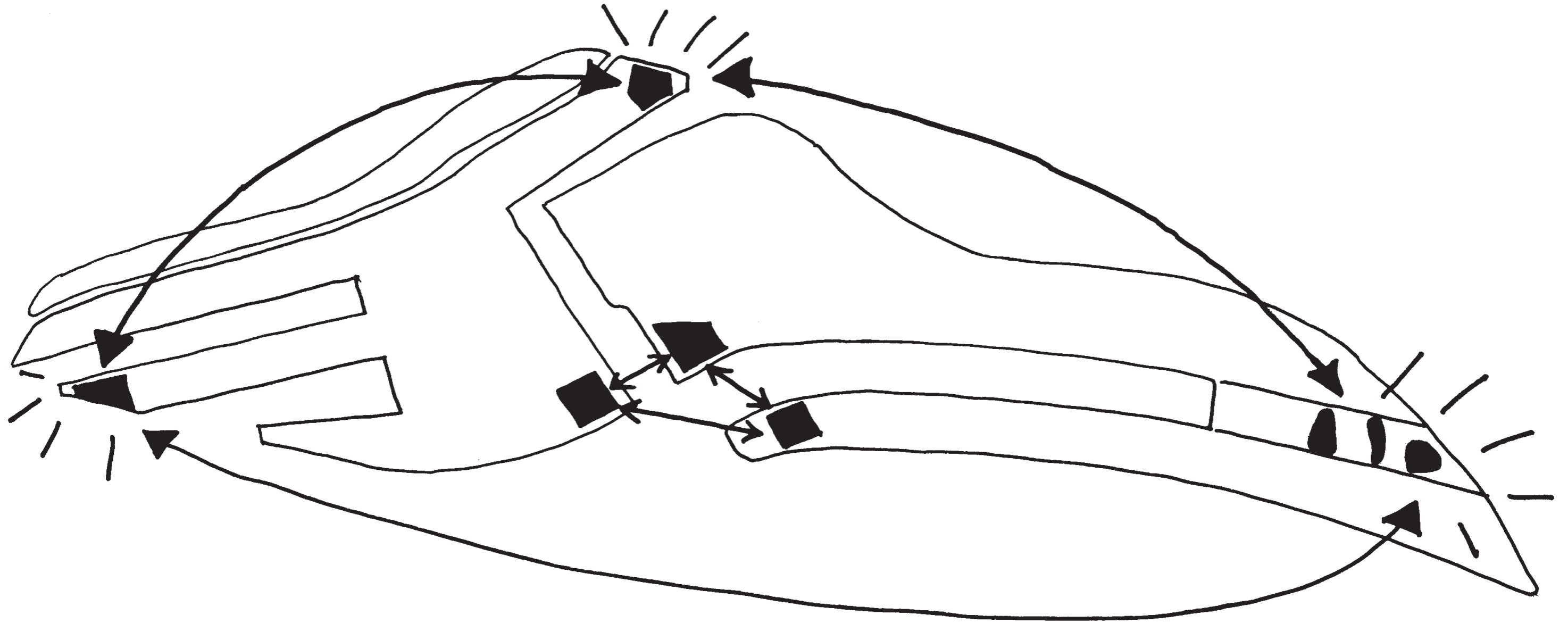
Hafencity Hamburg [DE]

Adaptability of the plans

- Continuity in ambitions and goals for a long term
- Proces of quality driven updates and elaborations of plans
- Collaboration between public sector, market parties, knowledge institutions and citizens

HafenCity Hamburg [DE]

Mixed use - anchor program



HafenCity Hamburg [DE]

Anchor program - seizing opportunities



HafenCity Hamburg [DE]

Information and co-creation



Europaallee Zurich [CH]

Flexible redevelopment of station area into a mixed-use urban quarter



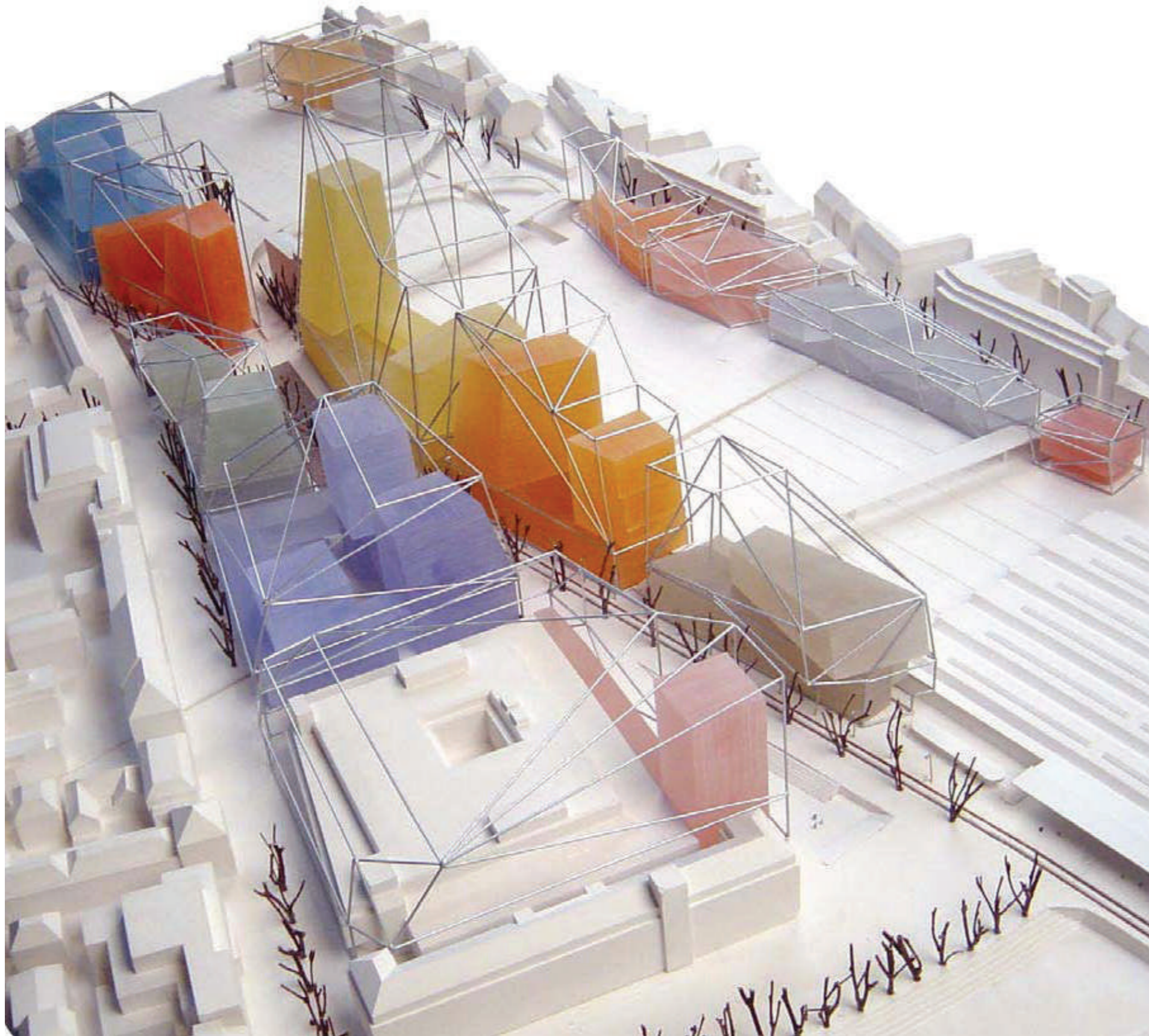
Europaallee Zurich [CH]

Flexible redevelopment of station area into a mixed-use urban quarter



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Flexible redevelopment of station area into a mixed-use urban quarter



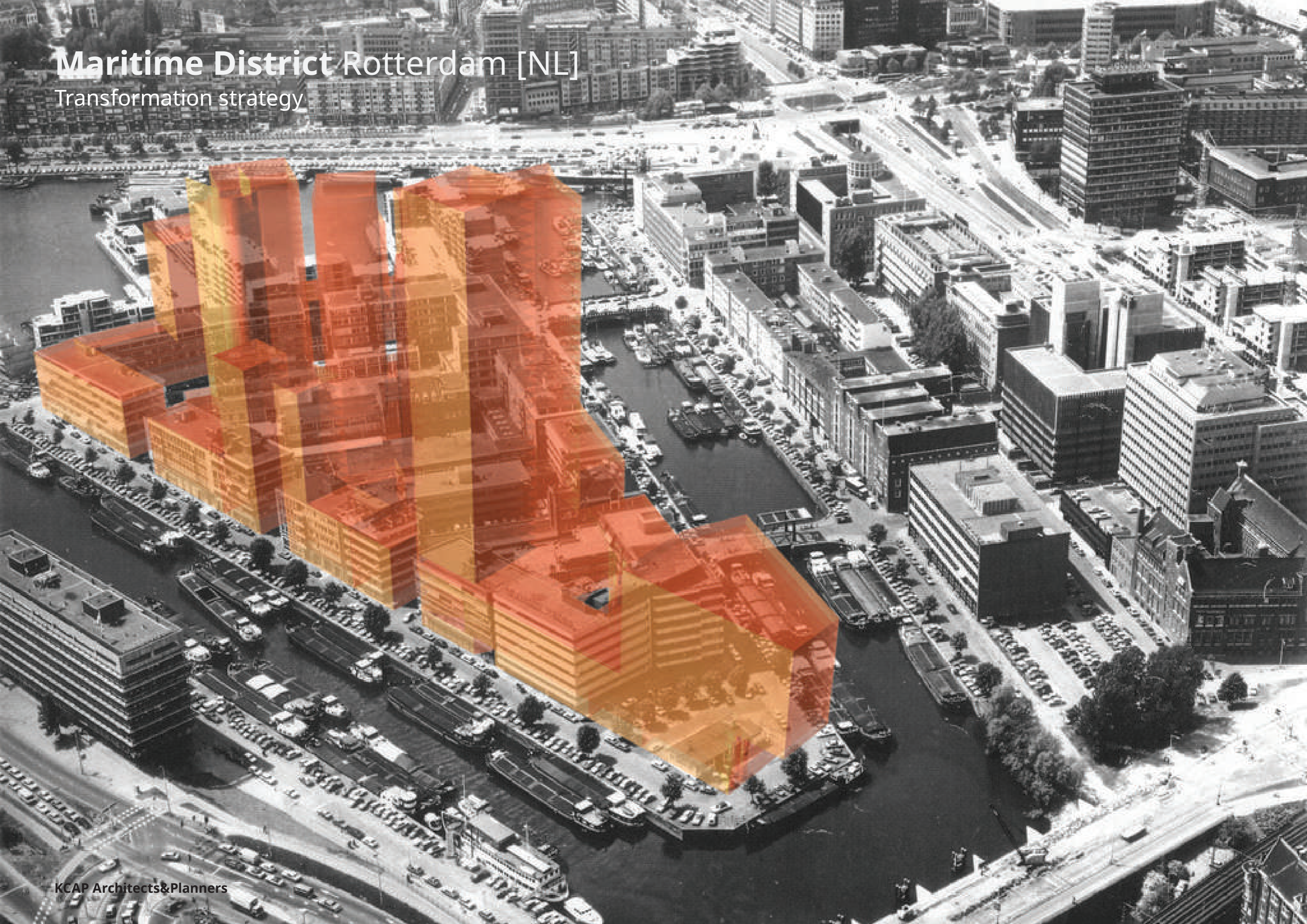
Europaallee Zurich [CH]

Flexible redevelopment of station area into a mixed-use urban quarter

- Framework plan
- Clear building regulations: control and laissez faire
- Quality driven selection process
- Supervision of developments

Maritime District Rotterdam [NL]

Transformation strategy

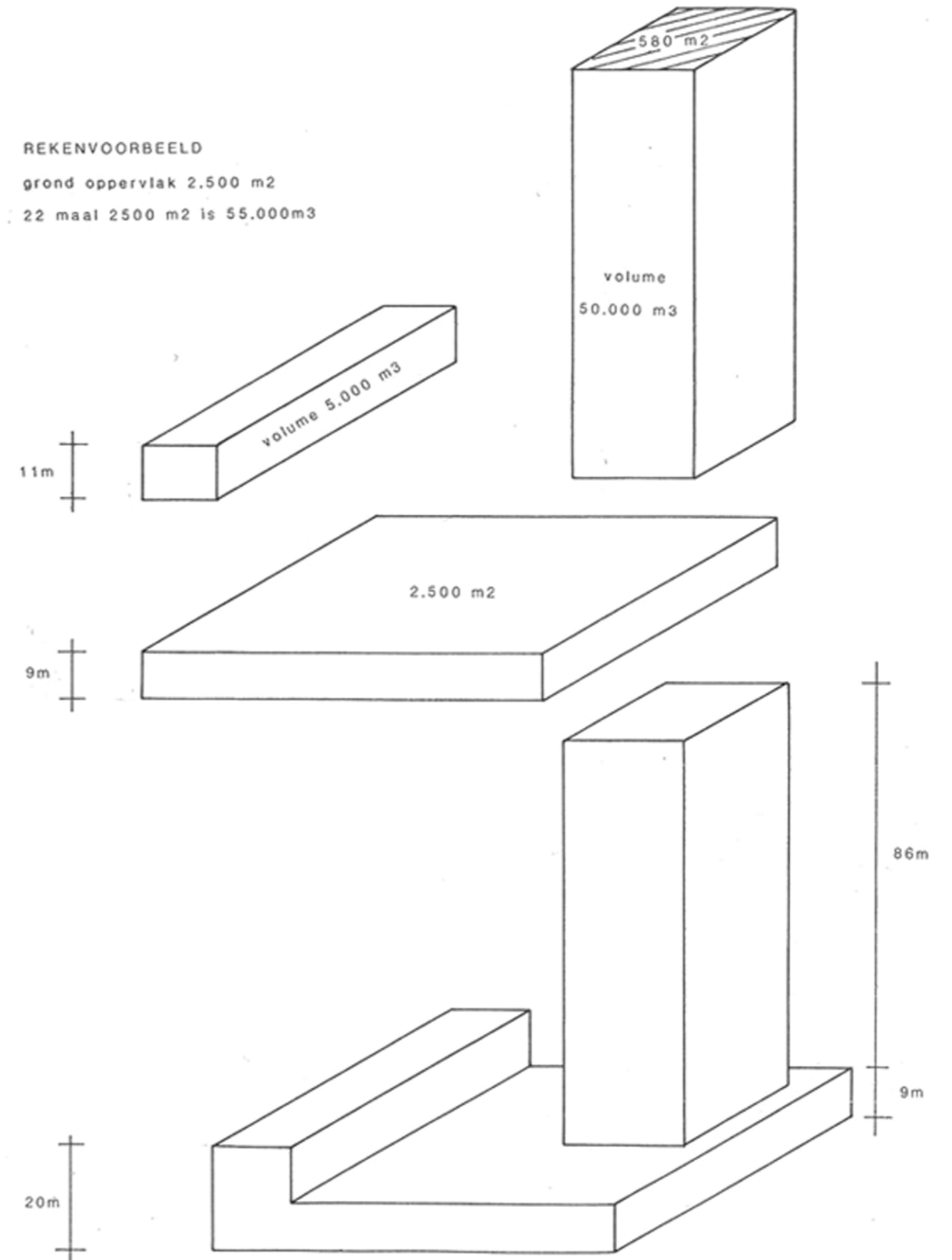


Maritime District Rotterdam [NL]

Urban rules

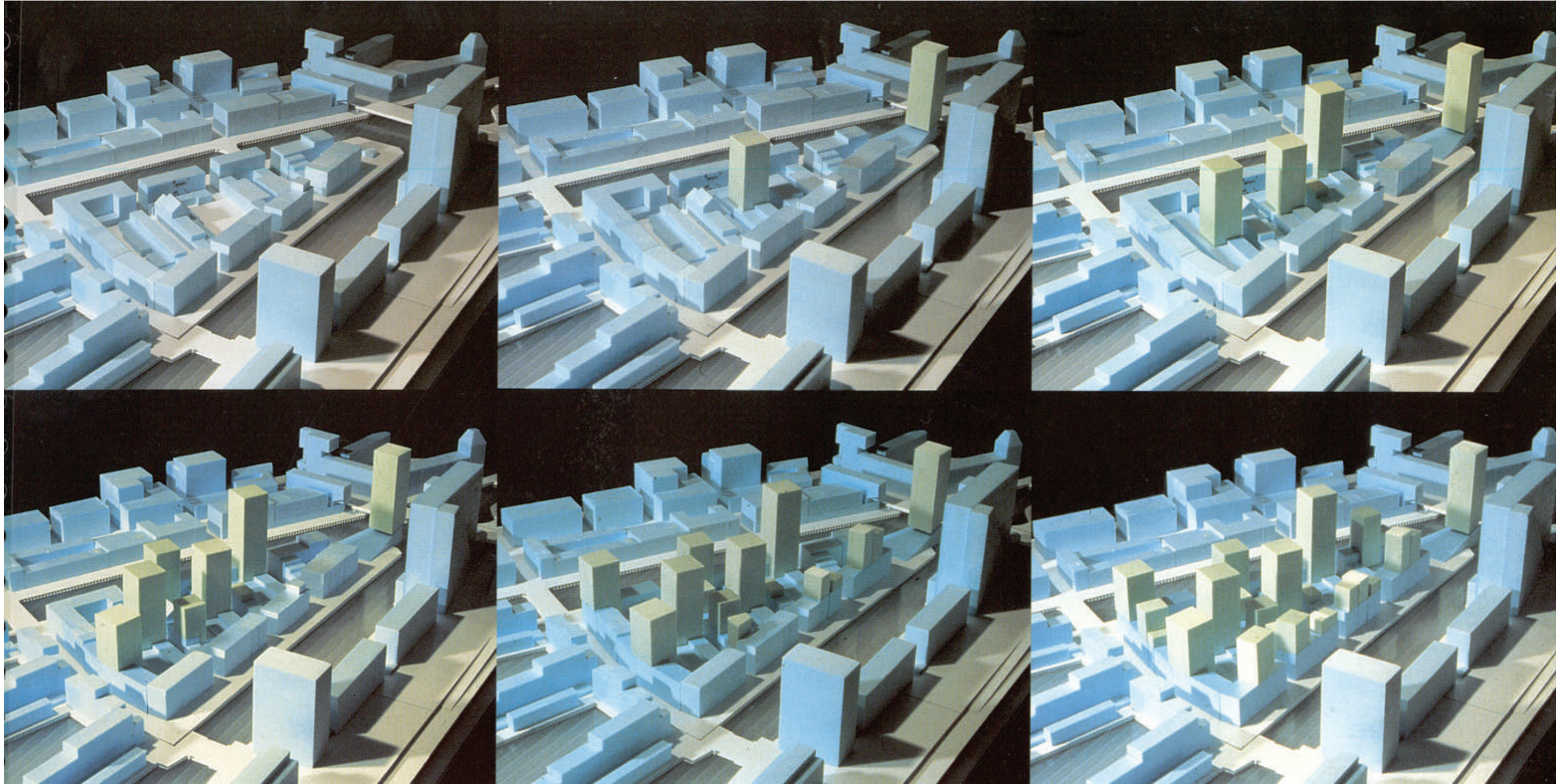


REKENVOORBEELD
grond oppervlak 2.500 m²
22 maal 2500 m² is 55.000m³



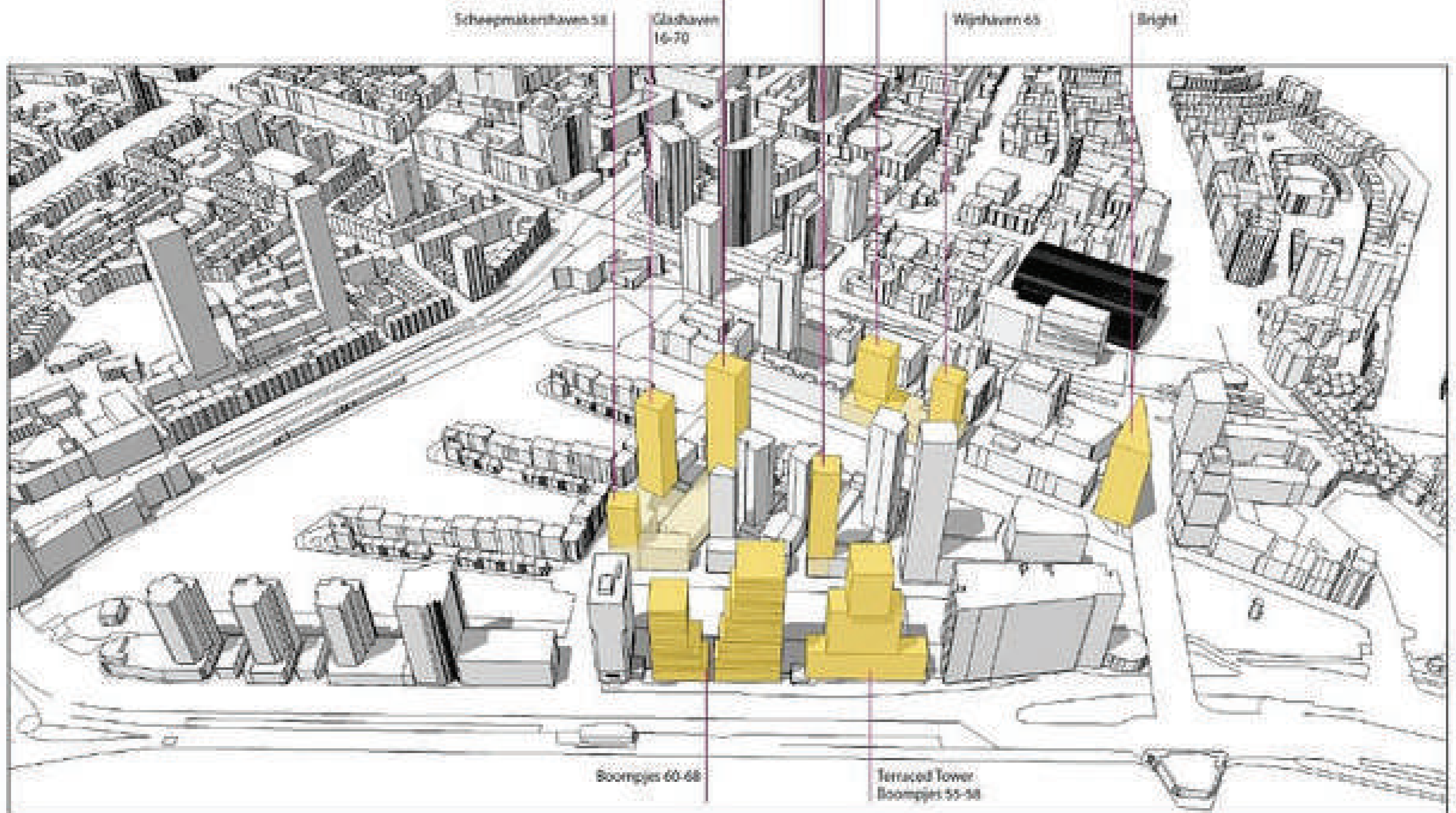
Maritime District Rotterdam [NL]

Parametric testing of design rules



Maritime District Rotterdam [NL]

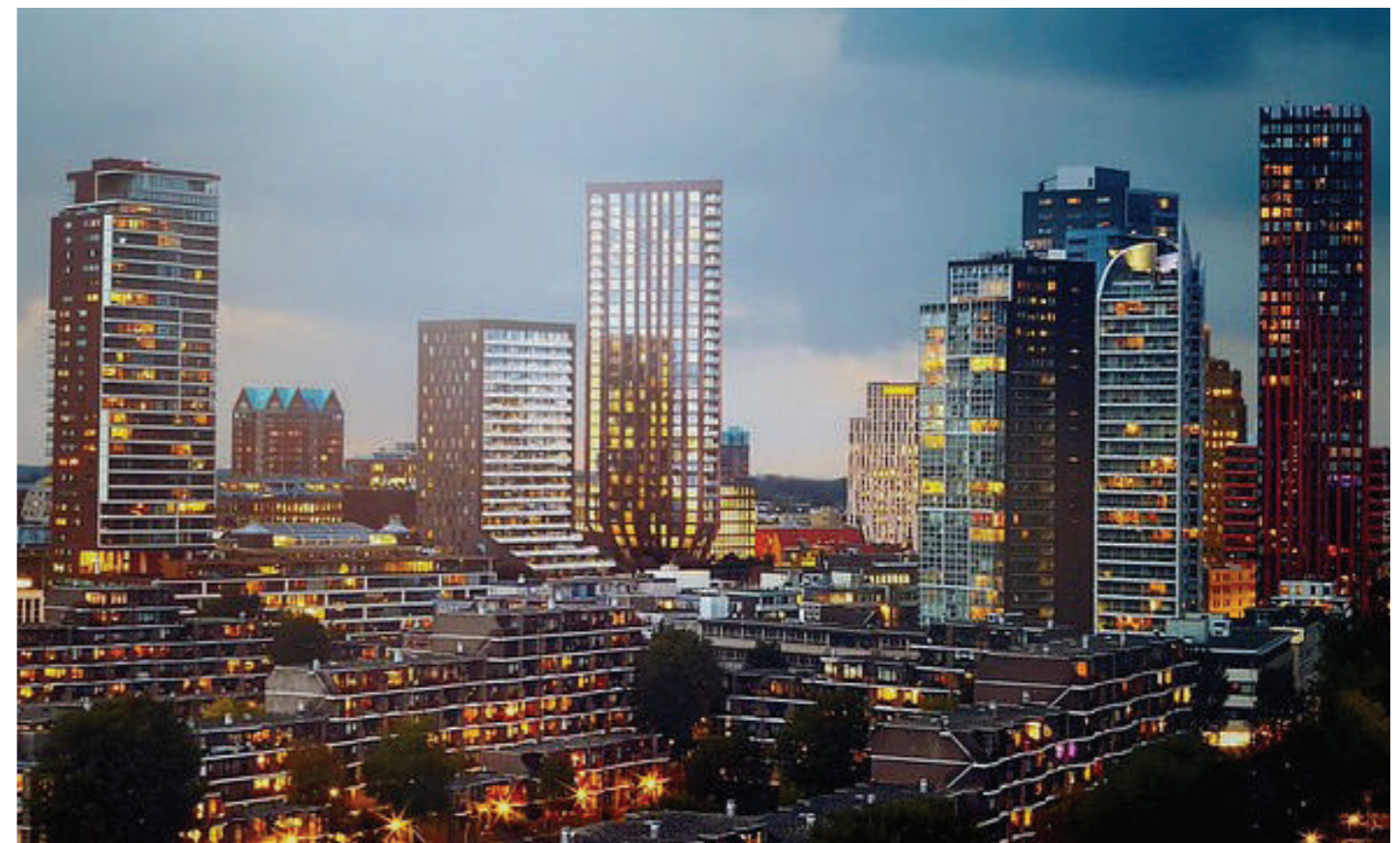
Crisis resistant



Maritime District Rotterdam [NL]

Lessons learned

- Strengthening the center
- New residences
- More mixed use and liveliness
- Strict but flexible rules
- Supervision on quality
- Improved public space and groundfloors
- Solutions for parking



FredericiaC Fredericia [DK]

Waterfront regeneration framework for a maritime-industrial area



FredericiaC Fredericia [DK]

21 ha brownfield on the waterfront, redevelopment enlarging the inner-city by 25%



FredericiaC Fredericia [DK]

Extensive participation process



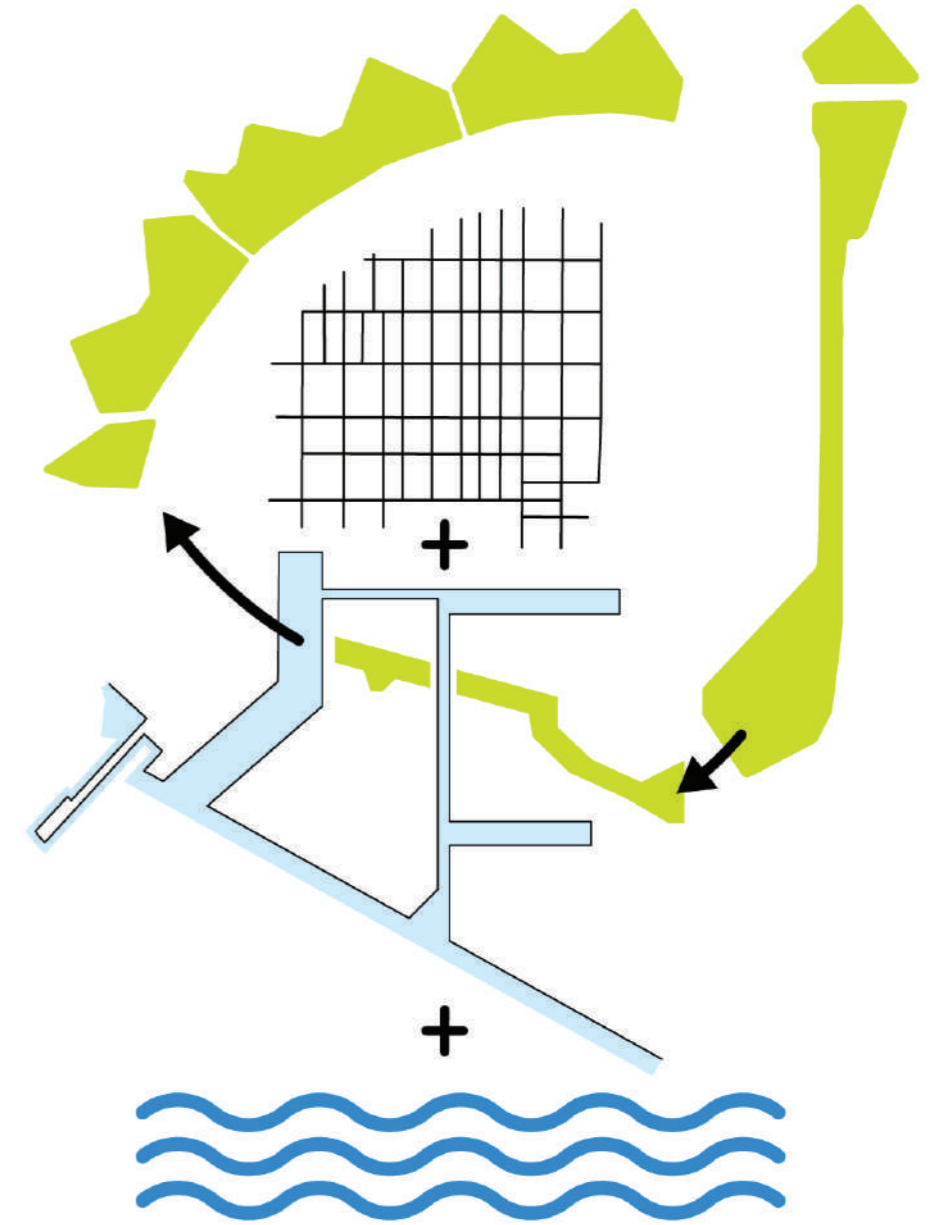
FredericiaC Fredericia [DK]

Temporary landscape, activating the site



FredericiaC Fredericia [DK]

Winning proposal



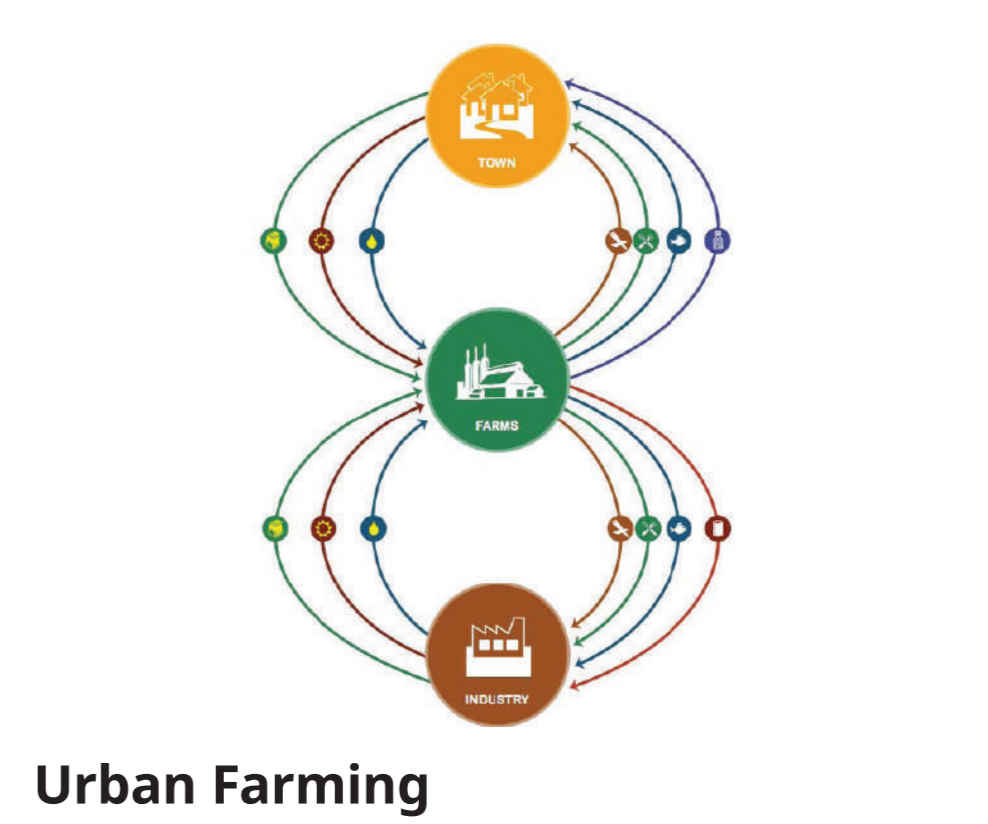
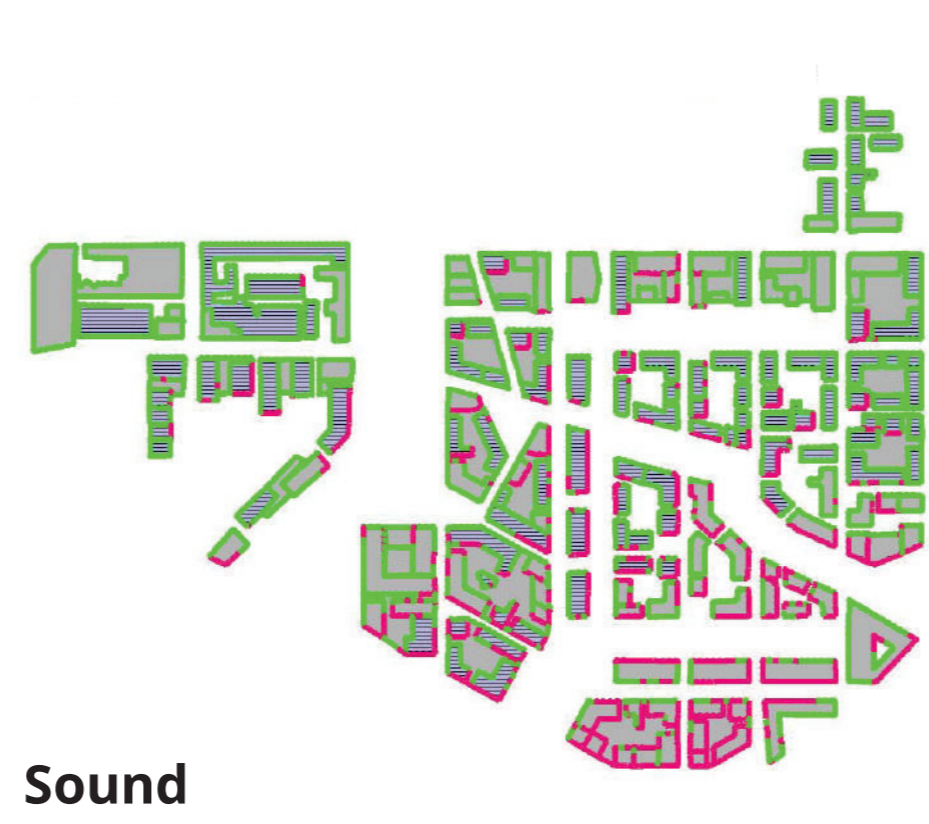
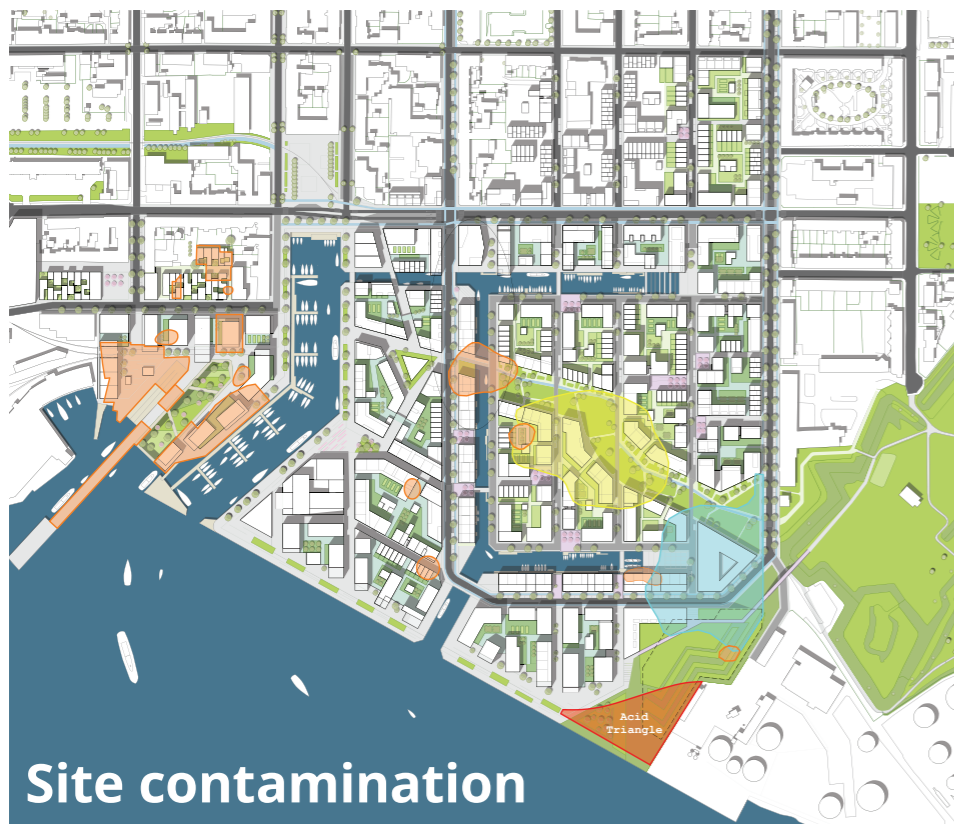
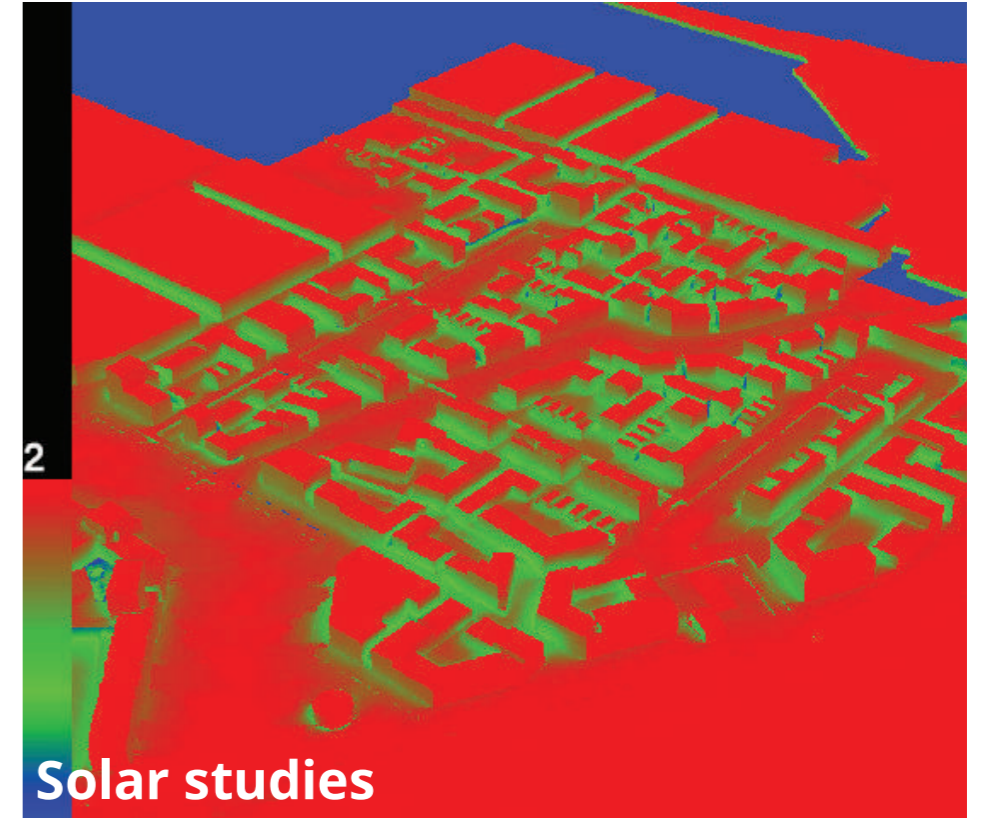
FredericiaC Fredericia [DK]

Inclusive, sustainable, healthy, lively



FredericiaC Fredericia [DK]

Sustainability and resilience



FredericiaC Fredericia [DK]

Realisation is well on its way



FredericiaC Fredericia [DK]

Lessons learned

- Build public support
- Set clear ambitions and goals
- Quality driven selection process
- Integrated approach
- Supervision of developments



Overarching conclusion

Adaptive planning

- Long term vision, ambitions and goals
- Framework plan
- Intergrated planning process
- Control and laissez faire
- Design scenario testing
- Process of quality selection and supervision
- Process for adaptation