

PhD research



RingRing

the use of underground space, multifunctional and intensive land-use and the Rotterdam Ring and Amsterdam Ring

editor Nova Terra maqazine



KWARTAALUITGAVE OVER MEERVOUDIG RUIMTEGEBRUIK / JAARGANG 2 / NUMMER 4 / DECEMBER 2002

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a few words about 'MVR'

Dutch professionals translate it as "multifunctional and intensive land-use (MILU)"

in US or UK English you would refer to:

- * transport development areas (TDA's)

but what does it actually mean?

basically it is about a sustainable approach to how we as planners deal with space, both in quality

so you shouldn't be surprised when people speak about:

zorvuldig, inventief, intensief, dubbel, optimaal of innovatief ruimtegebruik

more or less it means the same

'official' definition of MILU

- * intensifying
- * combining different land-uses
- * using the third dimension: height and depth
 - * using the fourth dimension: time

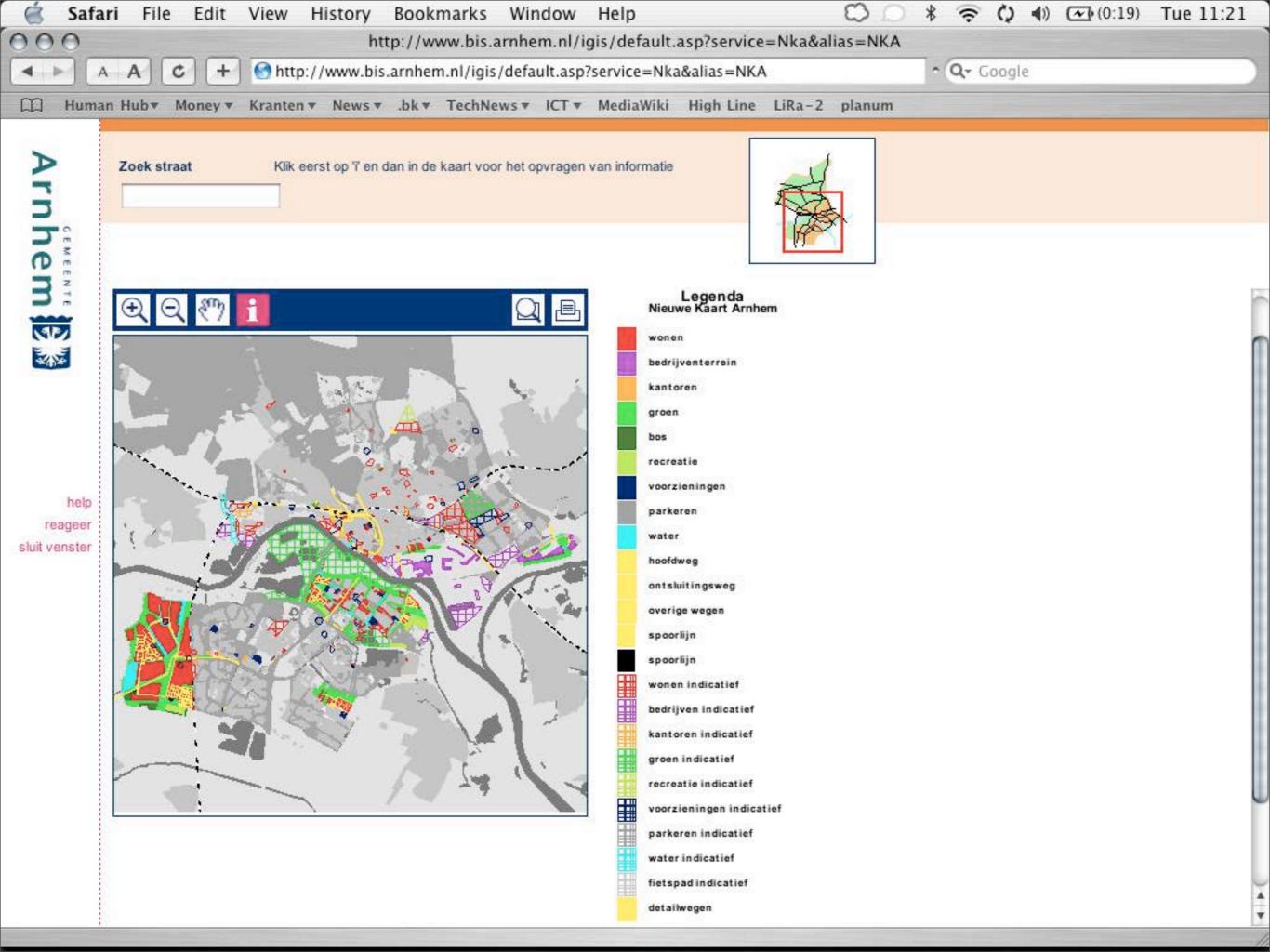
how architects see MILU



Dutch pavilion EXP02000 by MVRDV

first, a little exposé about space

'space' according to the MILU-concept is where we can allocate housing, agriculture, water, recreation, traffic or other functions





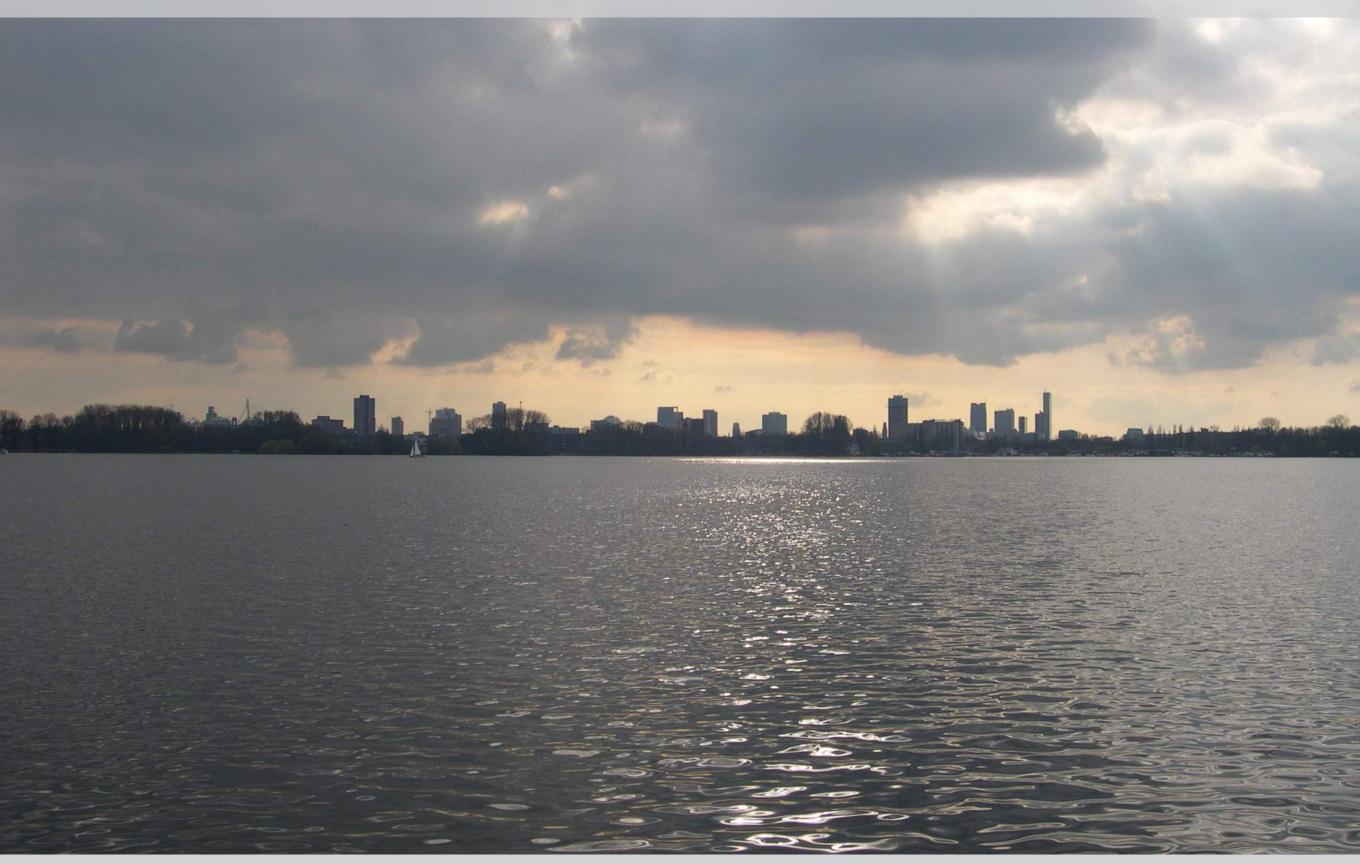
What is it with Dutch people and their space?

druk, druk, druk



Holland is a crowded place in the eye of the Dutch

low lands



Holland is a flat country, you can see far...

the next city is always close



we've got a lot of small towns close to each other

sensible people



everyone wants to have its own place



possible location for the A2 Maastricht

Alo Amsterdam

civil engineers felt it first

er is meer onder de zon dan asfalt en beton!

geen doorsnijding Midden-Delfland
Het waardevolle gebied Midden-Delfland mag niet
worden doorsneden door een snelweg. Dit zou een te grote
aanslag zijn op deze laatste open ruimte tussen
de Rotterdamse en de Haagse regio.

hoe meer wegen, hoe meer files

De aanleg van meer wegen leidt tot meer autoverkeer en tot nieuwe opstoppingen. Een duurzame bereikbaarheid wordt bereikt door een verbetering van de trein verbindingen, het opzetten van een light-railnetwerk en de aanleg van goede fietsvoorzieningen.

weg van het bedrijfsleven?

Het bedrijfsleven geeft geen cadeautjes; de investeringen zullen moeten worden terugbetaald door de gebruikers. Men zal streven naar meer inkomsten en dit zal het moeilijker maken om iets aan de groei van het autoverkeer te doen.

Midden-Delfland SINEL WEG23

Deze poster is een onderdeel van een campagne tegen de aanleg van de A4 door Midden-Delfland.

Meer informatie is te vinden op website: www.dsdelft.nl/-milieu/. Sluit je bij deze campagne aan en neem contact op via telefoonnummer 015-2610048 of via email: milieu@dsdelft.nl. ontwerp: 💞 druk: Druk Tan Heck

no place to go but down



use of underground space



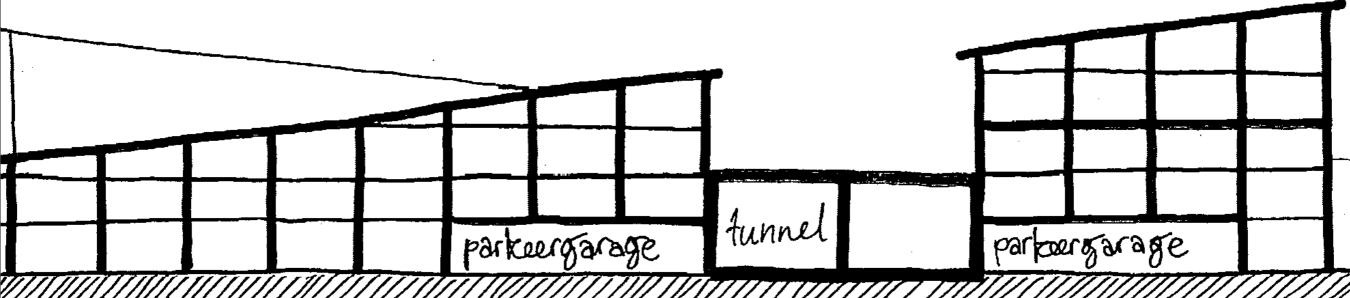
as a first step towards MILU

betting all the money on high tech

Boring tunnels

but sometimes low tech did the job





ijtwende, voorburg



changing perceptions in spatial planning

mid nineties were special

Three driving forces determine 'MILU' and the use of underground space during the '90s:

- * booming economy
- * advances in civil engineering
- * political consensus between left and right: 'Paars' or 'Poldermodel'

visions

Ministers and top policy makers went to Hong Kong, Singapore, Japan

and came back with stories of

- * airports at sea
- * high speed trains
- * large underground tunnels
 - * 250m high-rises

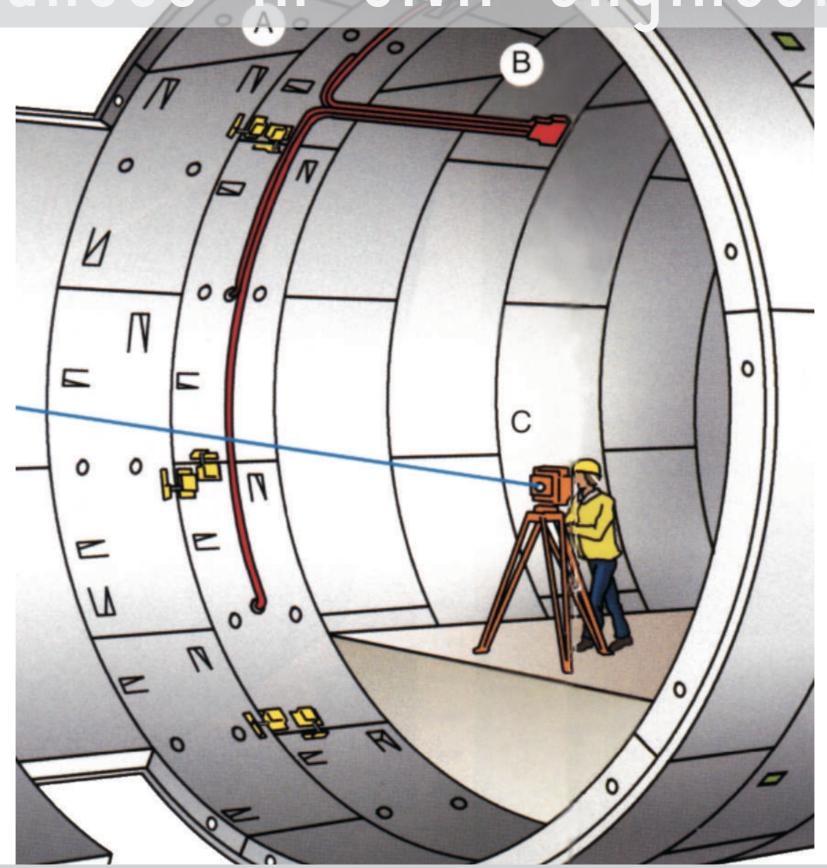
the sky was the limit

'ruimtegebrek - ruimte maken'



billions for large scale infrastructure

advances in civil engineering



technique would solve our societal problems

Paars' or 'dubbeldoelstelling'



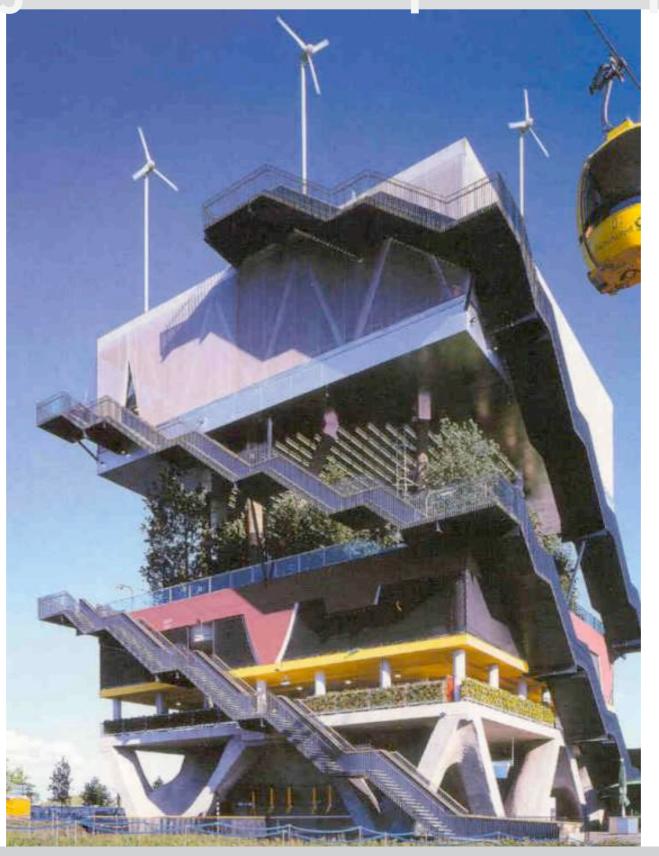
economy and environment can go hand in hand

dubbeldoelstelling



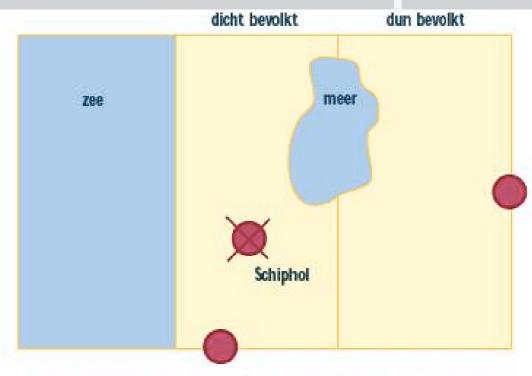
achieving opposite objectives at the same time

resulting in new spatial projects

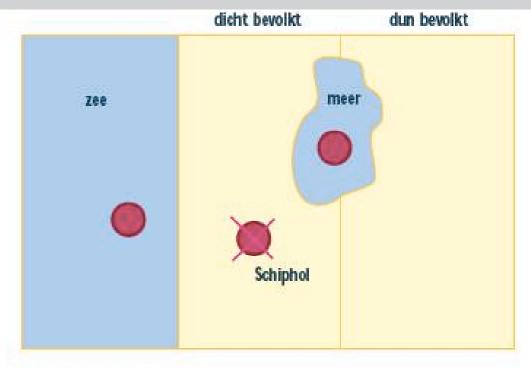


in architecture, urbanism, infrastructure

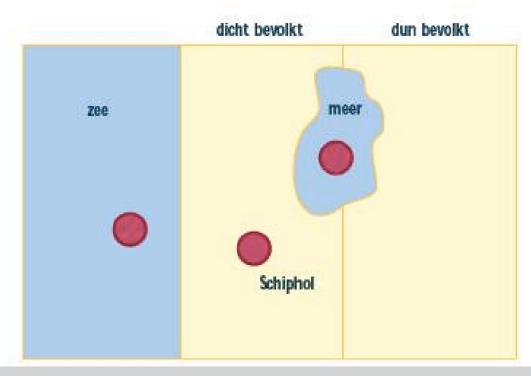
airports at sea

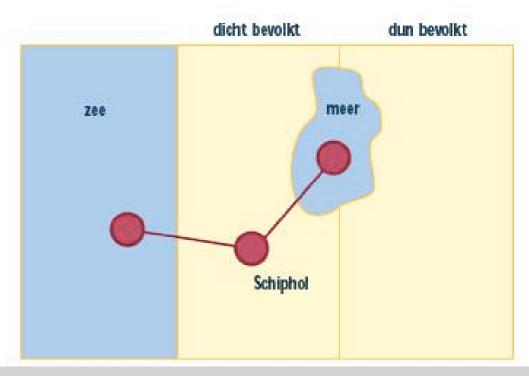


Nieuwe nationale luchthaven in plaats van Schiphol in grensgebied



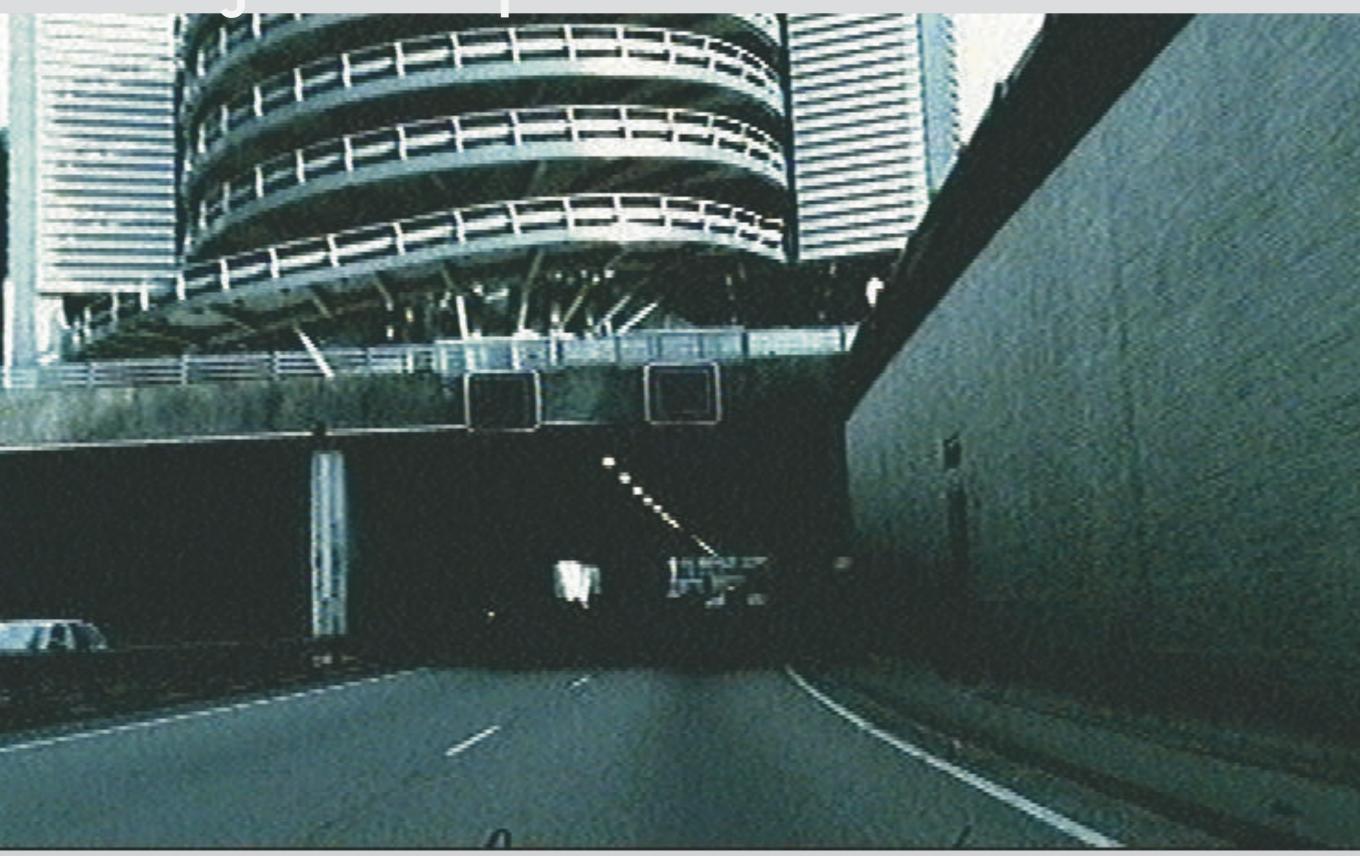
Nieuwe nationale luchthaven in plaats van Schiphol in meer of zee





from Schiphol to Flyland

using the space of infrastructure



during the nineties quite a 'hype'

high-rise



Rotterdam Parkhaven



TGV to Paris



Rotterdam Centraal by Alsop

then, reality kicked in

- * MIT '99
- * dot com bubble burst
 - * 11 september
 - * 'leefbaar'
 - * economic recession
 - * building fraud
- * budget overrun HSL Zuid, Betuweroute

NL had to scale back its ambitions

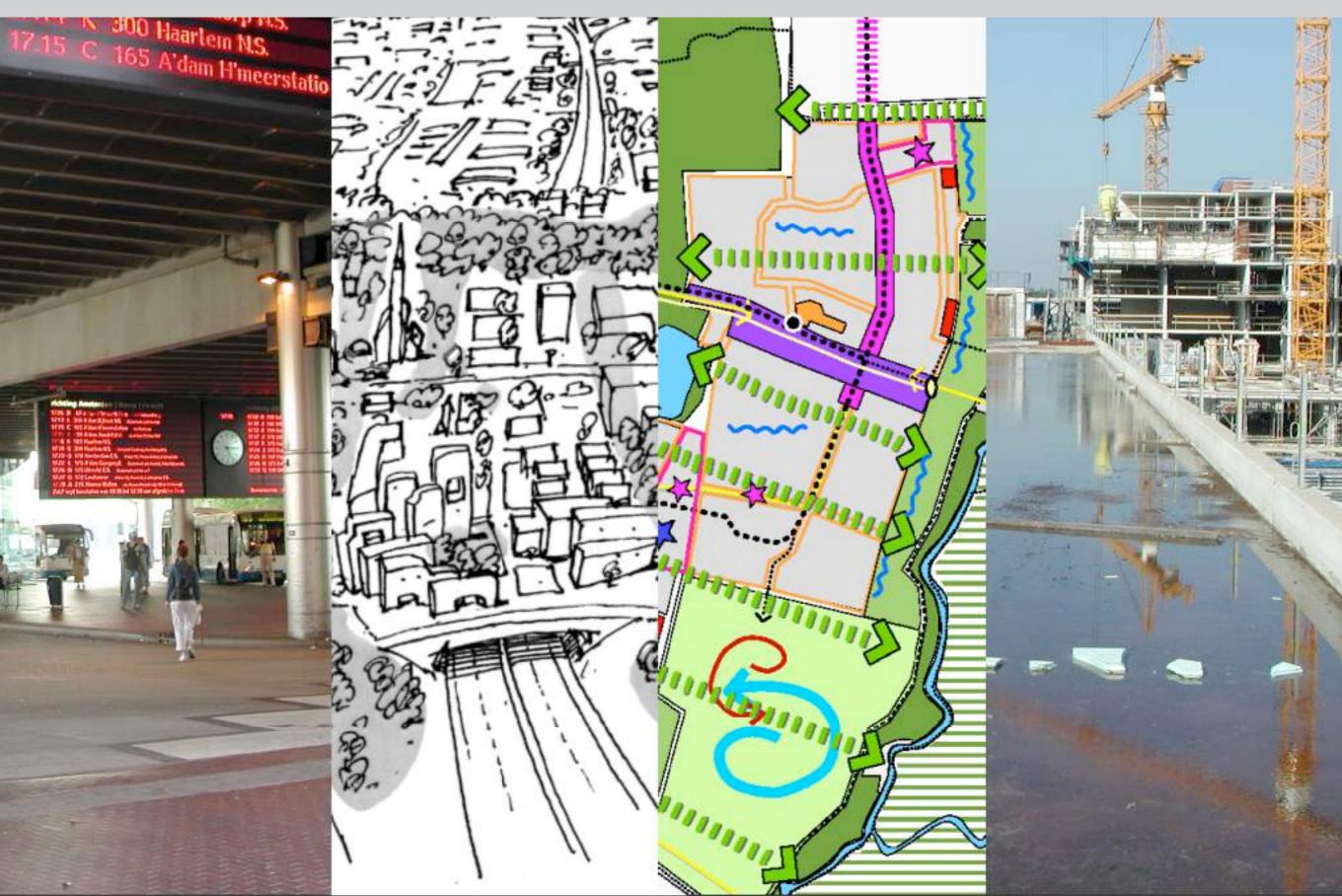


Rotterdam Centraal

characteristics of 'MILU'

- * combining what couldn't be combined
 - * complex
 - * expensive
 - * many parties involved
 - * slow process
 - * and... a lot of redundancy

MILU and infrastructure





current development

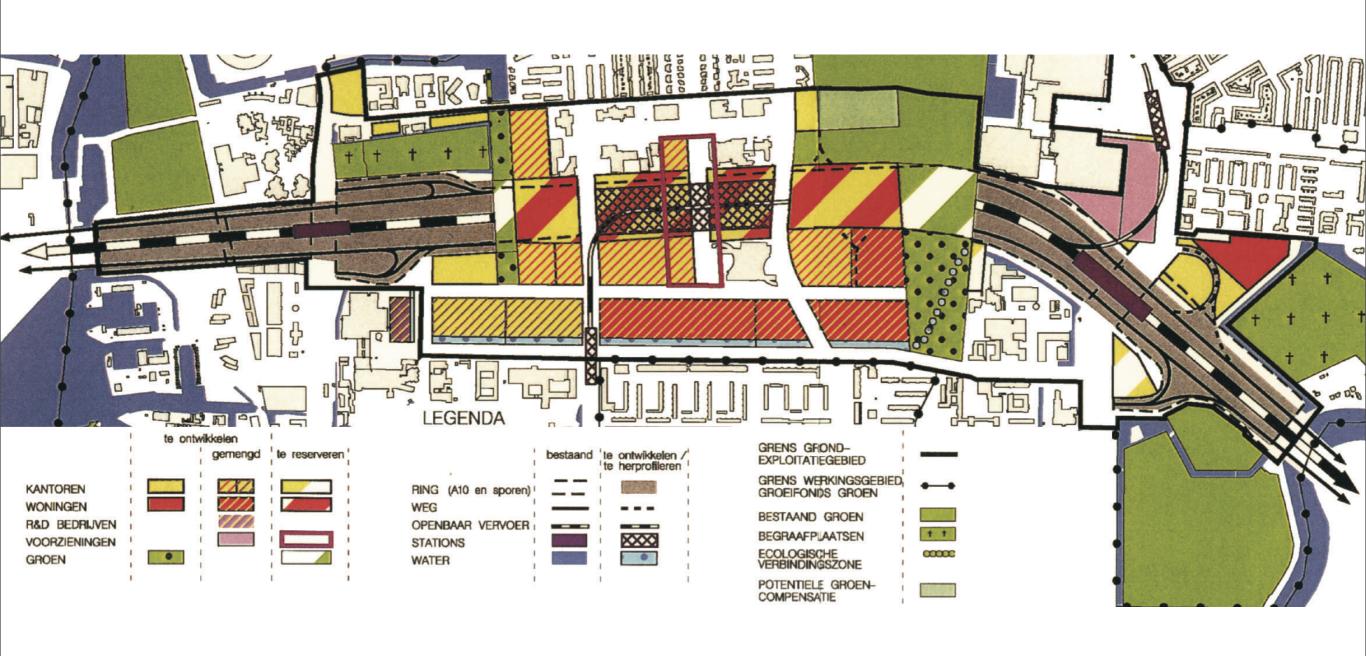
• the making a new international centre

the expectation: development can pay for the underground infrastructure

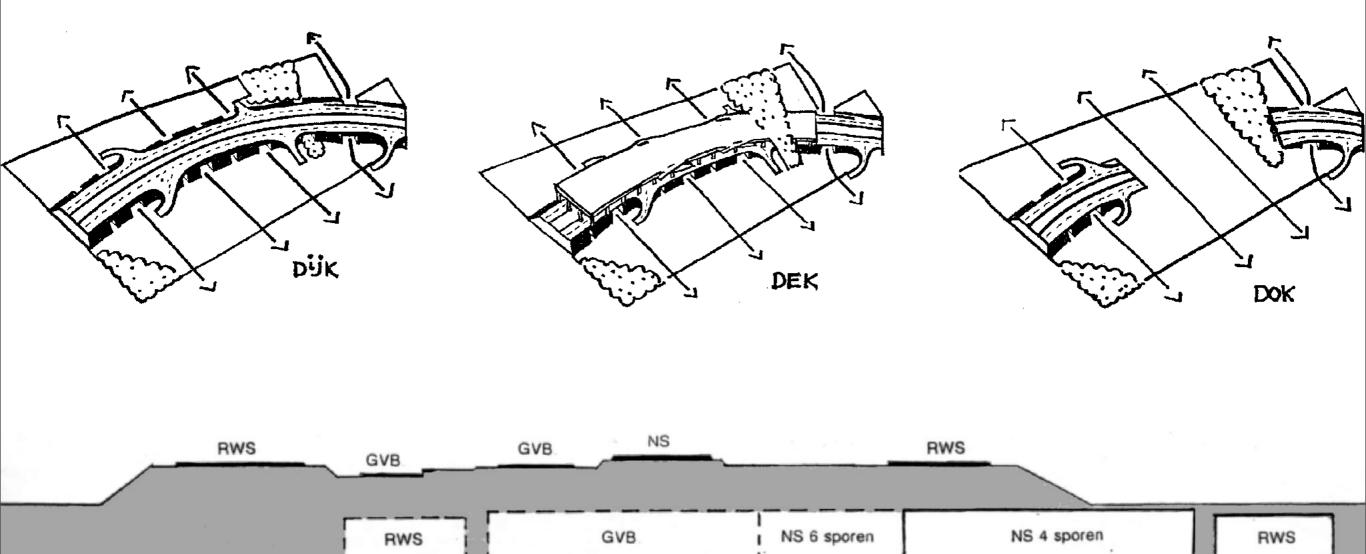
in 2000 it became clear it couldn't

since then the city became dependant on the state and the process became much more complicated

task:



Masterplan 1998 based upon the Dok-model

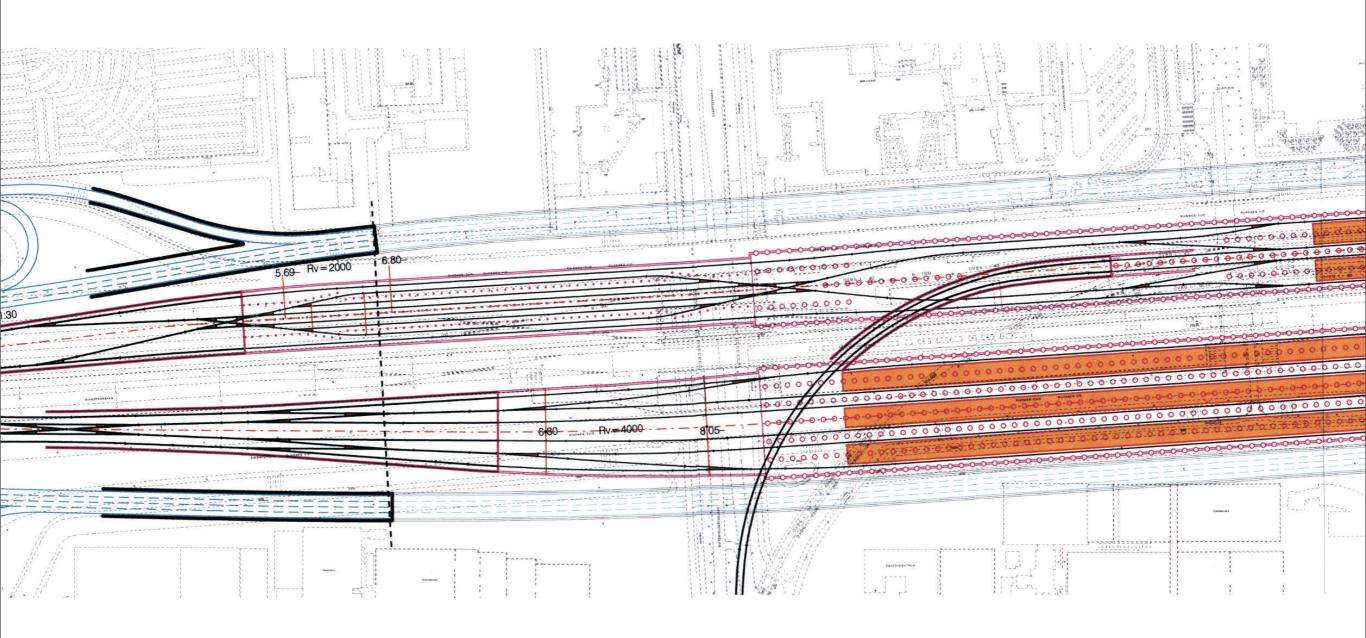


dijk dek dok: simple choice - complicated question

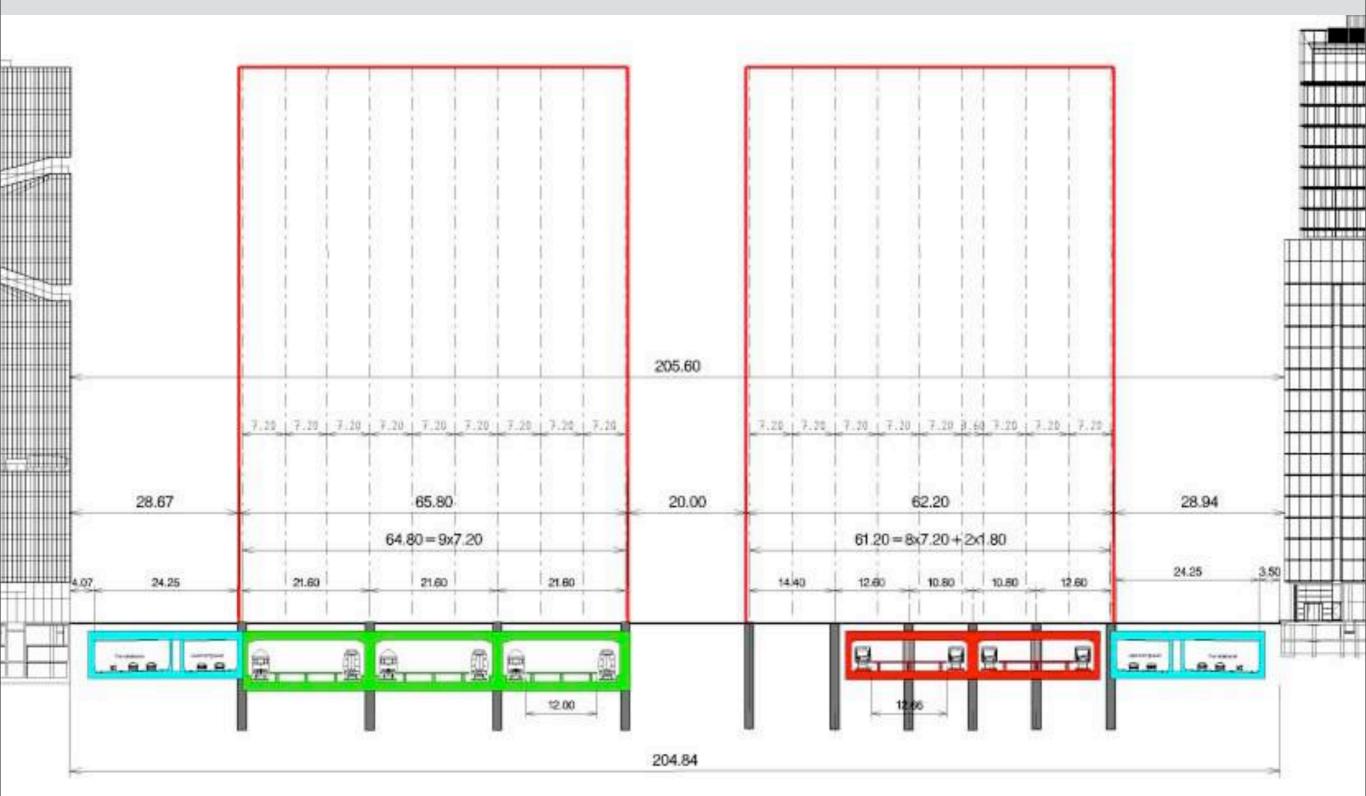
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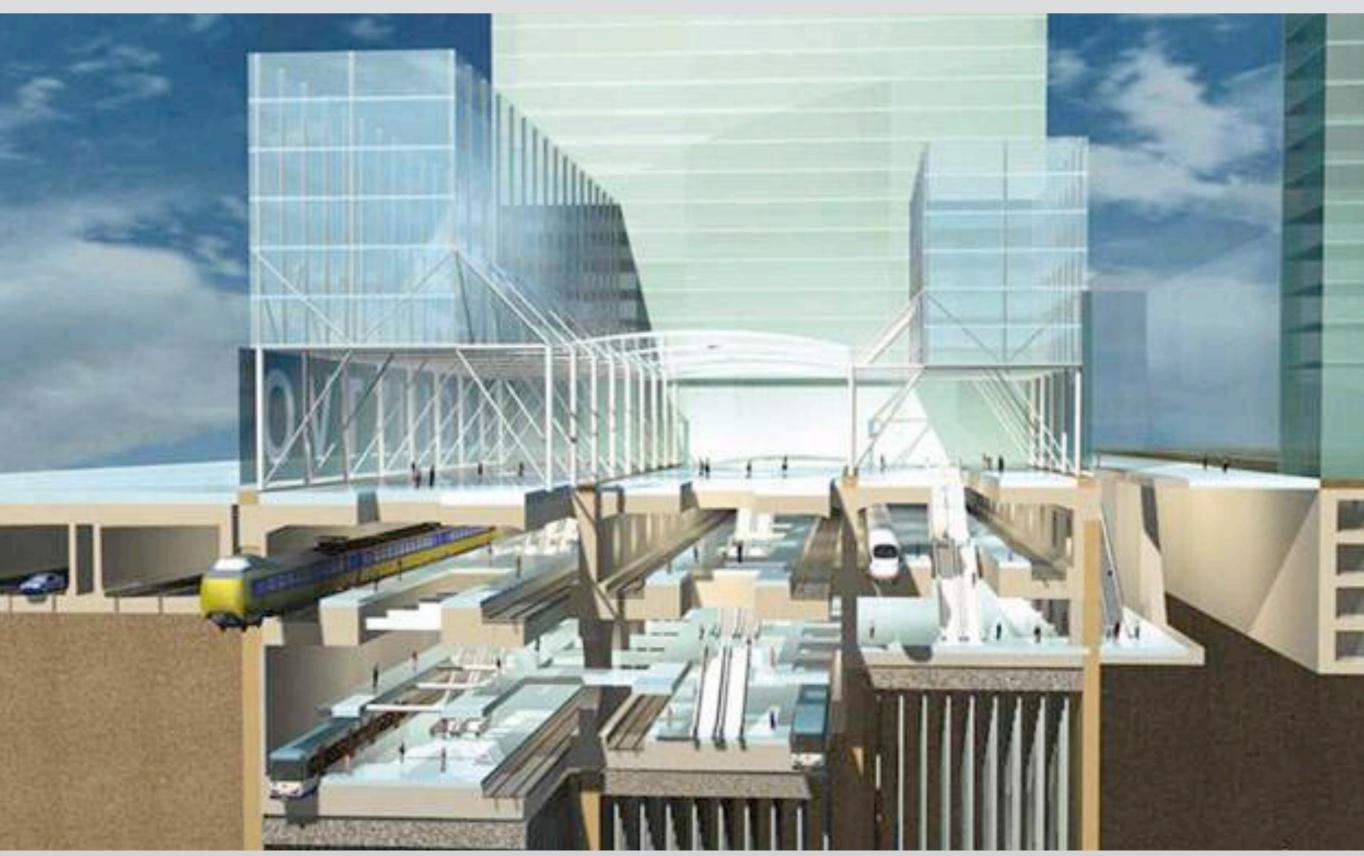
41

18

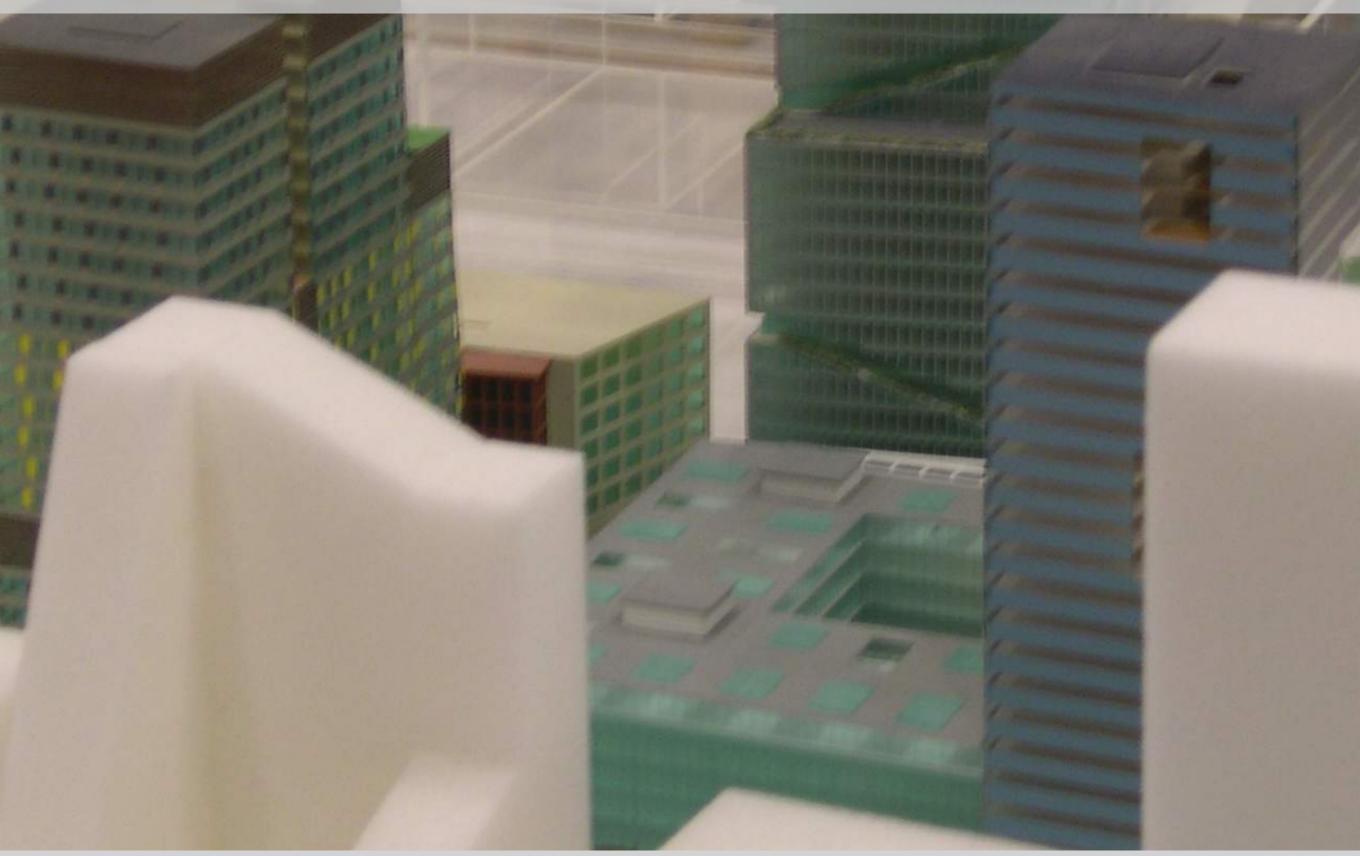


complexity of the project was severely misjudged





dok-model by Holland Railconsult



expecting to built 2 million sq meter

Donau - City

A22 Donau-uferautobahn, Vienna



Donau - City









Donau-City seen from the other river bank

Marshallhof









Marshallhof seen from the other river bank

Marshallhof

600 housing units and a multiplex cinema



Marshallhof





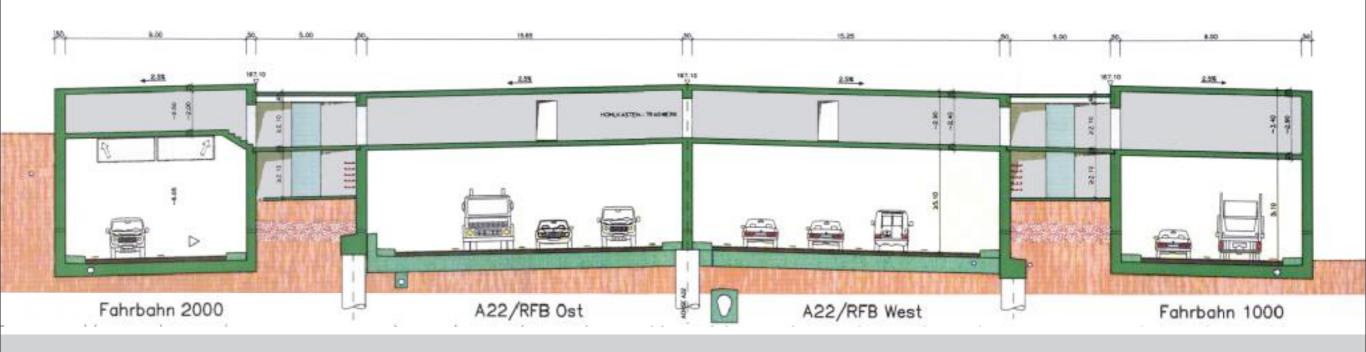




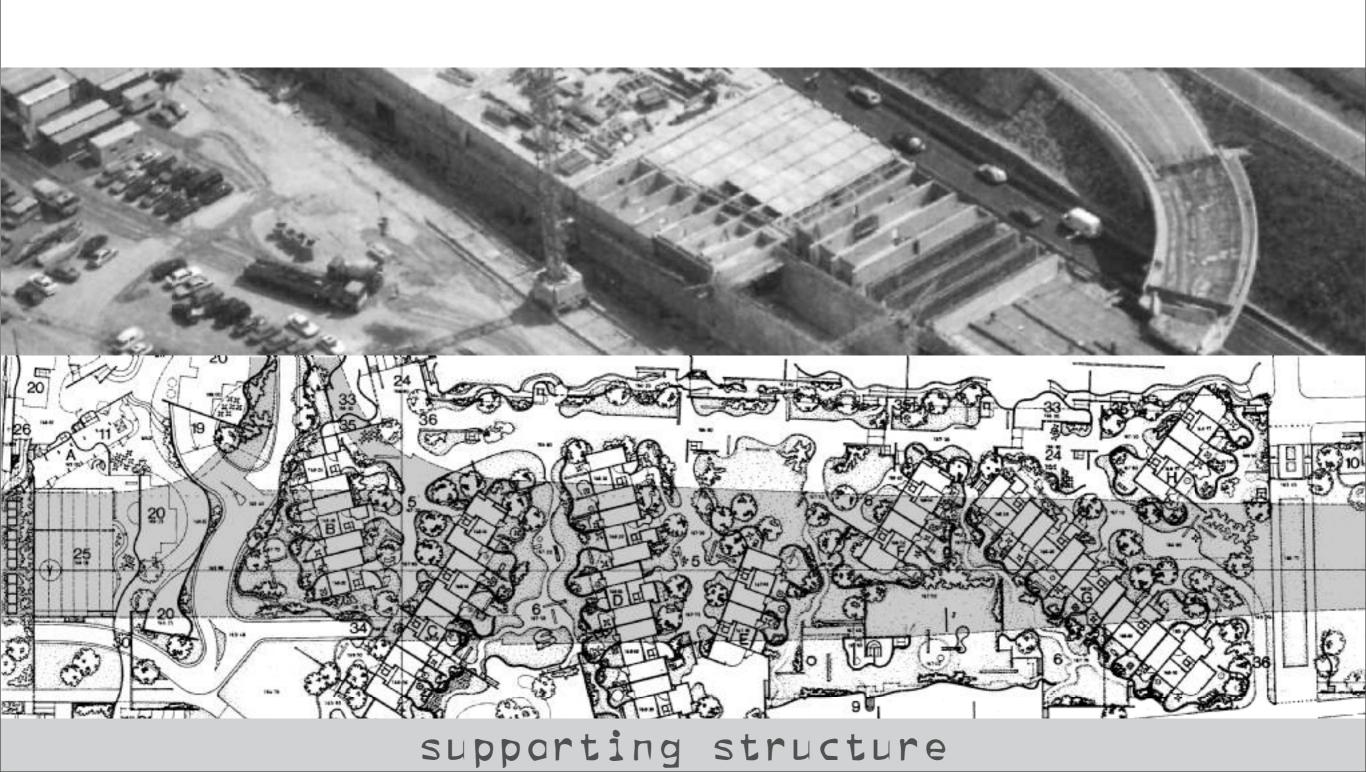
tunnel entrance local road

A22 Donau-uferautobahn

six lane highway with parallel roads



MILU above the highway



Donau - City

New centre 500.000 square metre near UNO-city



Donau - City









Donau-City Straße during construction

Artificial underworld









where we find the entrance to the parkings

Pedestrian world'









trees growing on top with roots in the hollow deck

Pedestrian world









trees growing in the patio's

Multilevel City



rather sixties

