# EXHIBITION LAYOUT



# **Exhibition Board Layout**

## **Title & Overview**

- 2 boards // Vertical
- 1.1. Title Board
- 1.2. Overview

## Introduction

12 boards // Vertical

- 2.1. Creating the Netherlands
- 2.2. Pumping Water Since the Middle Ages
- 2.3. Dutch Values -1
- 2.4. Dutch Values -2
- 2.5. Housing as a Right
- 2.6. Planning for Housing
- 2.7. Housing as Urban Fabric
- 2.8. Dutch & amp; American Dwellings
- 2.9. Complex Housing
- 2.10. Typological Analysis- 1
- 2.11. Typological Analysis-2
- 2.12. Typological Analysis-3

## **Case Studies**

32 boards // Horizontal

- 3.1. De Muzen
- 3.2. Silodam
- 3.3. Carnisselande
- 3.4. Vrijburcht
- 3.5. De Zilvervloot
- 3.6. La Grande Cour
- 3.7. De Beeklaan
- 3.8. De Opgang

## Implications

- 15 boards // Vertical
- 4.1. Design Principles & Lessons
- 4.2. Housing Mix
- 4.3. Access Type
- 4.4. Courtyards
- 4.5. Articulation
- 4.6. Replicating Complex Housing
- 4.7. Density
- 4.8. Social Mix
- 4.9. Quality
- 4.10. Experimentation, Innovation & Risk
- 4.11. Urban Fabric & Scale
- 4.12. Planning & Privatization
- 4.13. Cooperation among Professionals & Citizens
- 4.14. Economics & the role of Government
- 4.15 Conclusions

## Credit

1 board // Vertical 5.1 Credits

## **Title & Overview**



## Introduction



2.1



2.2

Discussion, Cooperation & Citizen Participation Managing water for the good of all in the Netherlands requires a system of coope important decisions are made, there is always a period of national, regional, or lo imbedies decisions development charges in the other or otherse and

Religion and Tolerance



Caring for One's Neighbor The Datch culture of cooperation originating in For example, beginning in the Middle Ages and widows and widowers so that they would not he water system was reinforced by a strong Calvinist and C

2.3



In the Netherlands we hold the idea the

The Green Heart & Green Fingers



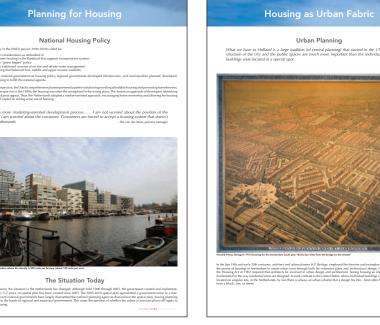


Housing Act of 1901

Housing Construction Since the H of the Neth this plan sp



**Owners Organizations** Because the change of policy allowing h developments, government-mandated ow thermselves, civic or commercial enterprise entribusis on community. the neurobar of too porations to sell units resulted in the co-existence iations made property maintenance decisions. In 



2.6

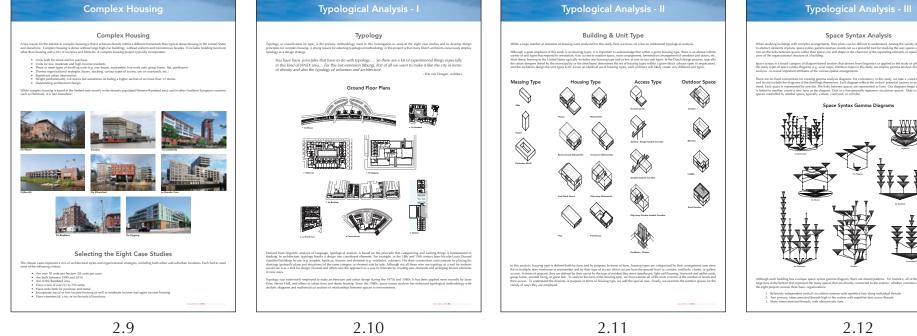
What we have in Holland is a large tradition [of central planning] that started in the 17th century ... The structure of the city and the public spaces are much more important than the individual buildings: Public buildings were located in a special spot. - Eric Amory, de



2.7

## Abundance and Scarcity different approaches to development. Being a very dense co rved. By contrast, land in the United States is an abundant res a land is Dutch and American Housing Units Dutch dwellings, other differences in the of the Dutch flat illustr ement of the hygiene spaces. The to menee living room, dining room, and kit Typical American Flat Typical Dutch Flat 12 7 Dutch and American Housing Projects



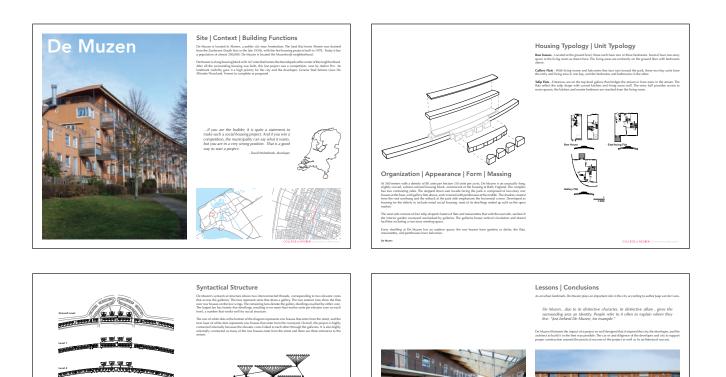


## **Case Studies**

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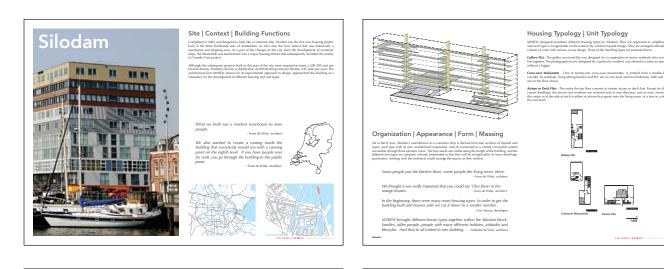
Social Principals

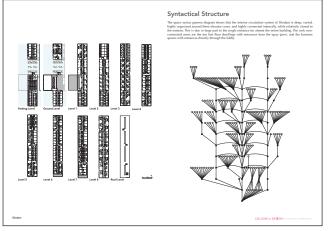
Having an interior atrium in a project for the elderly not only provides a walking space with plants in the winter, but also engenders a strong identity and social center for the project. Social connection is reinferced by the visibility of the gallerins. A diversity of lifestyles is supported with the combination of row houses, fluts, and perfusases. The original design also effectively accommodates a wide range of abilities.

We wanted the elderly people to live in the wings at first and then move to the center where there is more care.

- Noud te Riele, architect

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designed to have] one entrance, everything connected to each

- Eric Amory, developer There were some leftover spaces, and because of the routing they use it. There was a leftover space they turned into a library, another became a small meeting space. These are places for everyhody to use. The client actually saw the ignedit potential of a ...land; alterwards ... donated the binocular librar the very point on the library level.

- Eric Amory, developer



## Social Principals The project sus designed for an intro of people with various economic mode, including social, middle income and sawp boosing. The circulation system, or mating, arguines the building as a set of subplottended according into one gamma system and angle people accords to the form denoise. All waterins the people according into a set of the people according into a set of the people according in the set of the people according in the set of the according in the set of the according in the set of the set of

Contraction of the

cosperimental project is the degree to which site choice can be a determining is is ideal, just in the city center, on the river with views in every direction, ar roject is very likely to succeed even when the neighborhood is not yet des

At the time of its construction, however, Silodam's success was not ensured. The developer Eric Am pointed out that as the initial project in a formerly industrial area, Silodam's success was important to city, so the land price was moderate. The two project developers, de Kay and Rabotank, invested 50 in the project. Because the developmen might be leave with empty residences on their kands, the decision

Lessons | Conclusions

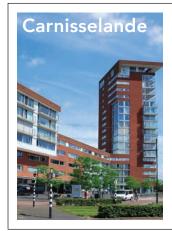
success. When a site i

The market says people are very different. That story was true. Of course it's true! It's a beautiful spot and everybody wants to live there. Every house was sold. The proof is in the pudding. You don't need to build just these mainstream house.

- Eric Amory, developer

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Siledam



### Site | Context | Building Functions

Caratisetistics on the Middeld-plaquite, the central space of lanowherk, it a landwark to find norport of the trans. When the methods can assign the advancement of the decogeners by the vice. The major of lanowherk constrained having a characteristic and the methods are central the major of lanowherk constrained having a characteristic and the methods are real states to major and lanowherk constrained having a characteristic and the methods are real states and the methods are been associated and the state that and the methods are constrained to major and lanowherk in the state of lanowherk are methods by sheeping multi, police an intraines, and having multiple is intrained and a density of 100 durinity parts between the transvirus that multiple Caratisettic bases the full state of lanowness at a density of 100 durinity parts between the lanowing multiple areas. Most of the methods are from the multiple state caratiset having a multiple state of lanowness in the method multiple state and lanowness of 100 durinity parts between the 00 units parts.

i). Most of the residents are from Rotterdam. They came to Barendrecht, a twenty-minute tram risk to center of Rotterdam, for its easy access to the surrounding countryside, a lovely polder area with farms many bic/cel testin. The project from the town square with commercial spaces on the ground floor flats above, including those in the eighteen-level housing tower.





## Organization | Appearance | Form | Massing

The rectanged ar building discade and clock tower are skinned with seroofs or ange bricks and white and panel accents. The tower at the south comer, paid for by the housing cosporation develog carefully designed to create a sculptural form to also accorrenodates middle income maisonet laxury flats

Carnisselande

A publicing the square to the blocks of housing beyond passes under the main facable. Bordering the gatesing are a clinic on our side and al. Blorary on the other. The black of Carsivaliando, one level blocks the place. The black counter signals have realizing on the ground lock and that above. The black way incorporate groups of new houses, been outduinted, and group houses. Before any segment of the black way the segment place of the black black and the segment of the black way the segment place black black groups house. Braking is plantarily are-grade at the black, with even provided black black. Consideration contains of ion human payses lists, survivance maintentes, lise-read-out-human dargung has with stress and targess, tecomplex is highly appressed in the stress. It has a use of the stress and a stress and the stress

Housing Typology | Unit Typology



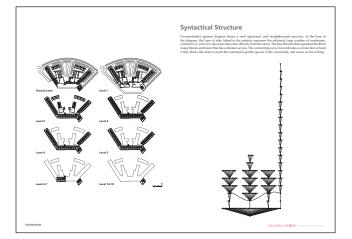


Instead of spreading things, we concentrated things, making all the things in the building very close to each other. In fact, the inner court is the essential of the plan. Whites, a term energy out have a one-family house next to a 4-storey apartment block - partly urban partly rural and then next to a seven-restry and there to a twenty-lacky building.

- Roeli Steenhuis, arcl

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### Lessons | Conclusions

The first lesson is the value of having almost identical designs for lower and middle-income flats. When the developer was required to self restal units originally planned for social (unbidded) housing. Issing isnill a design contributed to the machaticality of the units. Rolatively unitore design also allows low and moderate-income people to live side-by-side with no one being able to identify a presen's income from from unit design.

second teston is about the burding's apparance, which shows great attention to aesthetics and deta bining brick material with white concrete highlighting the openings and massing effectively redu cale and increases the visual interest of the structure. These materials, combined with proportion tower and blocks, create a project that is understated, elegant, and highly suitable as a city lander their is meastern.





Social Principals

The design of Carninelander with the exception of the tower and one block, provides each income level of discret sectors of the complex. King of sensitive takes place in the place in the complex many protoced binary and sensitive takes the complex place of the complex sensitive takes location of the complex sensitive takes and the complex place of the complex sensitive takes location of the complex sensitive takes and the complex place of the complex sensitive takes location of the complex sensitive takes and the complex sensitive takes and the complex location base emissions.

## Vrijburcht



### Site | Context | Building Functions

although









Organization | Appearance | Form | Massing An unban block with perimeter bossing. Verjharcht rescions a communal constynet. Two layers unb and musiconettos form the wisks of the project (SE ANW). The main steet side includes for helpsche parking the Aldebarn is celly, and community spaces about the source of the with balancies that these the source at a well as cell and the thomas. Which is parking provided in accoss from the steet at the moletaneous mix is under any a part of the project to allo parabout the steet at the moletaneous mix is under any a part of the project to allo parabout the rest and the steet and the steet and the steet and the steet at the moletaneous steet parabout the rest and the steet and parabout the rest and the steet is the steet and th Wilsonht



Live-Work Units - A change of level demarcates the workspace, entered from the street, from the living area. The dwelling entance to the living skitchen-diring level is from the main deck, 1-1/2 levels above. The levelway and bathrooms are located at the courtpard level.

Group Heme - Designed to support young adults with schizophrenia, the group hon resident with his/her own bedroom and individual doorbell.

Lightwell Flats - The living-dining-kitchen areas of the lightwell units face either the courtyard or the lightwell in the middle of the unit, whe 

- Annelie Seeger, founding res



## Syntactical Structure Despite its small size, Vrijburcht exhibits a highly internally and externally, with a relatively shallow variety of circulation spaces in the project (dark de 胸 1 4..... FT. ġŀ-Ш Roof Level Wijbursht COLLEGE & DESIGN



Lessons | Conclusions

Vrijburcht has a great diversity of housing types and other spaces because of the commitment of the founding group to having a cooperative with a varied age group, income level, a range of life style and ability, as well as work and community activities.

The dwign around a central countynel, though which all residents must pass to reach their dwelling, supports the social connections between residents. In many community functions connect the project to its neighborhood.

Social Principals

Compared with individual housing projects, the aim of the collective projects always extends beyond the scope of housing. It addresses the way people live and how to get projects realized. - Hein de Han, athietet in Qu & Hasselaar, Making Boom for People, p147)

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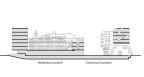
### Site | Context | Building Functions



Syntactical Structure

Although the appearance of De Zilvervloot look of De Zilvervloot is very straightforward since i circulation threads. Densite the fact that the provi

circulation threa through shared interior, but imp



Section Broker

Organization | Appearance | Form | Massing

De Zilvervisst

The proper is expanded anonal two exceptions assumediately how the properties of the expansion of the properties of the structure of the



Housing Typology | Unit Typology

s more than 39 unit types with a great deal of indi-osophy that as much as possible, all units should be

Lessons | Conclusions De Zilvervloot shows how participatory design so that had been comprised only of social housing h and the other forty follows So nearly 100 units were to be totally interent, and are use units not consist three variants... Honestly, for different families, I feel the architect has no right to impose identical models: It is a crime committed against the expression of a "non-military" society... A rule for me is that no apartment shall be identical



re to be totally different



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Social Principals

The many different kinds and sizes of units within the complex discussed above maintain a suriety of fieloides and income levels. None of the baildings has exo the nine baildings have all three-income levels. The remaining three baildings co dowling, or molerate income and lazary units. attract and sing. Six of Perhaps one reason the mix works is that the design of the entries and access or informal surveillance of neighbors and visitors. The number of households ente elevator access point and mail reception area is generally limited to less than maintaining a community without requiring specialized security.

De Zilvervlaat

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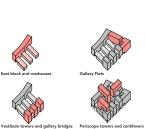
### Site | Context | Building Functions



Syntactical Structure

The varying charact Despite the comple has an average of 2

ra diagram for La Grande Cour is unique l I the small number of units in large fan-shap when number of units on meat learth of the



bule towers and gallery bridges Periscope towers and cantilevers
KN

Organization | Appearance | Form | Massing

The starting professor projections of La Ganda Gan data with it a signature halding are primp) result of an error is colubration. The result addings called for theme contripole domousled by right sho of boaring. Honeover, initial plane revealed that the proposed scheme was 300 units shot of the 250 required by flow Colo. Danaka up the difference and anoid sharing the adjacent start of the 300 and the architects is insertime L-shaped or perincept toxees at lowed hole. To List domutically cartific over the other units.

The next side of the project consists of a long lasses shall of three instrumental, sightstamp halded isolated by veshibits means or each and next low hasons fine the exatproper-lasses of stabils film althe west side support suspended gallery access film to course galwarays rise the courspands. Callery halow fame the source course and the scath side. Finally, the three pericope buildings are inserted in the method or the coursymb.





## Lessons | Conclusions

Perhaps the most important bases from La Conde Couri is the benefit gained by cooperations better planness and arbitrates where firsting a childrage, in this case, addensing the Antonetan's criterion limiting tailed physical termination imported by project. By working supplier, city and develop reached a solution that errorated an iccnic design (or the project. By working supplier, city and develop firstilly, it is a structurent to the city planning that such density and mix of incomes was developed on su

It is a detailed to our opposing justice grant denies with the second of a detailed and developed could be interesting the experiment with population mix was enhanced by this highly distable site, with it were location in the West docklands and views on three sides. The developer undertook La Ganda is highly visible project, with full awareness that this would become a national landmark. The ness to invest in the project crustel a successful experiment.

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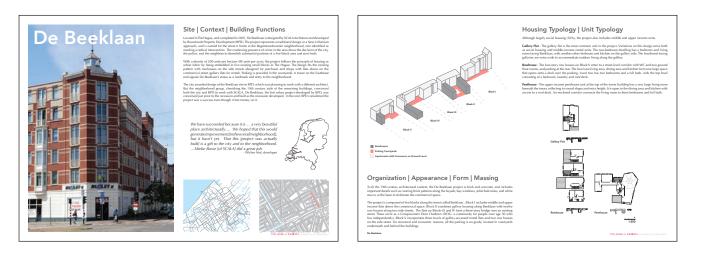


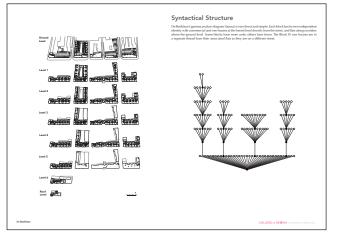
Social Principals

According to developer Rein Willem, Li Gondo Gaze sus over of the first contemporary dense boxing projects in instrumediar that incorporated housing for damy bring as and as a sum of interme ID to acid. The housing structure and the housing data in the mean structure boxing data in the housing as intermediate over the structure of the housing data in the housing data intermediate the housing data intermediate the housing data in the housing data in the housing data intermediate the housing data intermediate the housing data in the housing data intermediate the housing data intermediate the housing data intermediate the housing data in the housing data and h

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### Lessons | Conclusions

Peehaps ti to making made it e



### Social Principals

The Brokana was a might hold whall like interaction from the structure of The design supports socialization. The limited number of fats on each gallery assume that mightees will reception each often, with the extra-olds size providing space for outdoor attribution and social interactions. The use of new focus and gala will be view course activity on the stort and a grout potential for mighted finance, as was observed in adjacent buildings when visiting the vite.

De Beeklaan



De Boeklan shows that a tadiisnal approach can not only effectively cor principles, but some principles, Bae mixing housing with other functions-approach, he fact, according to the develope, having a tadiitonal design success. Furthermore, the residents wanted the traditional design.

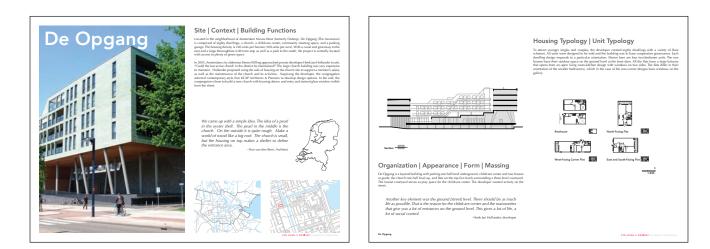
is the most important lesson from De Beeklaan is the necessity of having a dev ing the project work, and the advantage of working with a large development it especially difficult to build it at a reasonable cost, to sell the units. Ne obtained to use the nerviset through but derevals recovering reason to devo

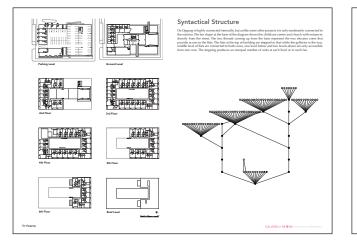


We love the historical style. In the Netherlands, you can call it a very commercial style because the people who are buying, love that style. - Wicher Mol, developer

Bouwfonds (BDP) is a rich and large company. A small company never could have made this project. - Wicher Mol, developer

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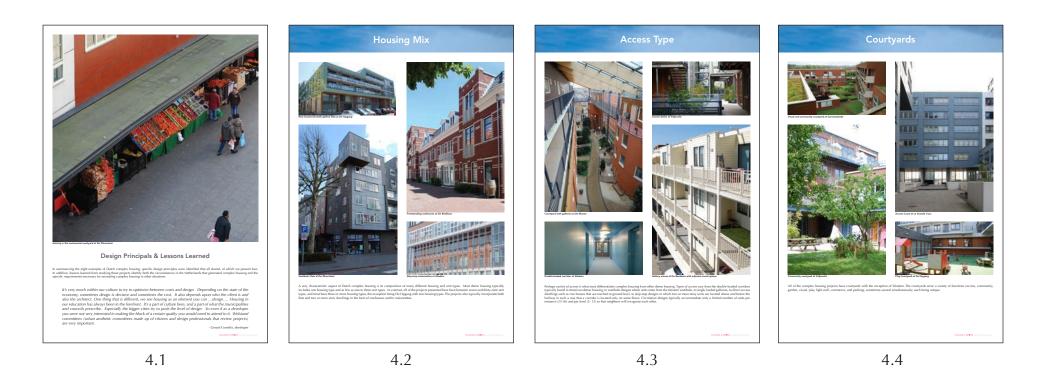
### Social Principals

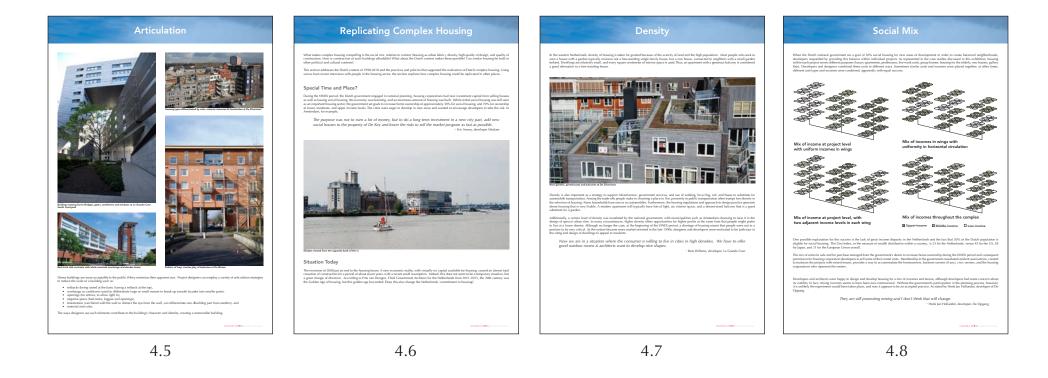
De Opgang

The chards and difference entert are independent of the locating, with their enterones and these of the enter chards and difference enteron are independent of the locating, with their enterones and these of the other and the strength of the strength of the strength of the strength of the theory of and the strength of the streng As I am an architect and also an engineer myself, I am also involved in the design. The more morey year use in the construction part of the building the more year can peed on the architectural part. That sure rately a challenge-. The officials made a calculation and were surprised at the low cost. The design had to generate income for the church, sho income for the city incepart of the land was owned by the city. - Heads and Heads.

COLLEGE or DESIGN Upwarenty or Ma

## Implications





## Planning & Privatization

Urban Fabric & Scale

or including more varieties of housing, a greater range of incomes and lifestyles, and non-housing amenitie rojects presented here show the advantage of a more comprehensive urban approach to design in terms of m

4.11

#### Since 2006, planning for boasing in the Northerlanch has abilited from the national locals to the migrinal and local locals based on a general communiter national generation and general sources and there at mosting general resolution that the second local knows based on a general communiation and and sources if has deterplanning be boasing at the regional and manifold locals based was applied on the second local knows that the state of the second local knows that the state of the second local knows that the state of the second local knows the state of the second local knows the state of the state of the second local knows the state of the state of the second local knows the state of the state of the second local knows the state of the state of the state of the second local knows the state of the

Planning won't every....There is a shift in the market...People are staying in the cities....The pressure in the housing market in Amsterdam is enormous....[But] you won't see big developments outside the cities.

We need a more marketing-oriented development process ..... I am not worried about the position of the developer; I am worried about the consumer. Consumers are forced to accept a housing system that doesn't meet their demands.

belr demands. - Bavander Mast, process man is samaline, weine a darser that the new approach will leave some muon unserved, or weine it as a terresoury terref.

In Holland we cared a lot about our poor people. The Housing Act of 1901 was a very important breakthrough, ... Rents are rising too hard at this moment. Privatization is a good things for people with middle incomes. Right now we think that everyone can take care of his own life.... I forestee great problems in society. ... Noat is Risk, website. I be Muare

The market is seen as the best solution for everything. But that is the system that is doing the harm. It will end when the problem it creates will be more expensive than the alternative.



4.12

## Quality

The designs, materials, and attention to detail of Datch housing centributes to its being seen as innovative. How do the Datch achieve hig design in an affordable way? An important factor in Datch having high quality housing is housing corporations.

We have a history of housing corporations: ... They will own the building for 20, maybe 50 years. They are interested in how to maintain the facades, how the materials will endure for the long term. In the end, its more prolitable. The influence of the housing corporations is significant. They are responsible for close to 50% of the houses: +1aw and emission advanted to the second sec

is Datch housing is seen as innovative for its designs, materials, and attention to detail. How do the Datch achieve high quality design in an fordable way?

It's very much within our culture to try to optimize between costs and design. ...It's a part of culture here, and a part of what the municipalities and councils prescribe. Expecially the bigger cities try to push the level of design. So even it is a developer you were not very intersteel in maining the block of a certain quality you would need to attend to it. Welstand committees (local urban assthetics committees) are very important.

As to whether privatization will affect the quality of designs, one developer suggests not.



It always has to do with money. In the U.S., you sometimes see such a laturious building that I am jealous. I envy the beautiful materials. We are a much more equal society and that influences the architecture – the social housing always looks nice. As a developer, I sell for quality. • this has that made developes to Copung



**Experimentation**, Innovation & Risk

Neud to Kiele, architect, De Mar
 Neud to Kiele, architect, De Mar
 The Dutch like experimenting. To be called conservative is an insult.
 Ton Steau, uban dwigme, Amsterd.

Partly the experimental will always stay there. But it will become smaller, because people don't want to take a risk. ... At this moment you see that it would be a market for experimentation. You want to come up with new things... not the same thing that's already there. Experimentation will always be needed to move forward. - Furn de Wate, wehnet, Stiedam

COLLEGE & DESIGN

## **Cooperation Among Professionals & Citizens**

The Bayeshow Pageron Comparison of Bayeshow Pageron (1997) and the Advancement plant and proving the Advancement plant and plant and plant plant



With the exception of La Carato Cara which had no adjacent evaluation, all the compare housing process presented them included clusters particule as more host. Such engineering is exceptioned by the Datch who endopy procedures housing process the neight to be considered and the law media net.

a s goos to invoive the people with will live there. Invoking the people is always better. Since they are more connected to sach other and to the neighborhood, the project is better. They learn to meet each other when the building is planned. - fir. hum, devising the same devision of the particulation may include functing for low-income residents, using aside land for wild/ordepute by collection graps, and the same devision of the same devision of the same devision of the same devision of the same devision.

and community amerikes. Engaging citanes in tabler countries will likely require involvement of governments, newspectific equivalents of the single structure structure and such as a second structure structure structure and such as a second structure structure

Some the quality of origin and the maintenance of the buildings are subject to the cultural awareness of the persons concerned, Idirectly planning and designing with citizens] is the only way, in my opinion. The final state of the second state

The biggest profit is when the consumer is sure to buy. Rein Willems, developer La Grande Cour

4.13



4.14





## Credits





## **Exhibition Photos**

