Preparing for home in the neighbourhood

About the gap between mental health care & society and how the built environment can promote reintegration into society for ex-mental health patients in supportive housing.



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1 in 4 adults in the Netherlands has experienced psychiatric problems in the past 12 months

(Trimbos-instituut, 2023) Preparing for home into the neighbourhood | Sander van der Kooij **2**









(Veplanke & Duyvendak, 2010) Preparing for home into the neighbourhood | Sander van der Kooij 7

27.660 people in supportive housing in **2021**, with introduction of the Wlz (CBS, 2021)

35 weeks of waiting time for supportive housing or ambulant care (KPMG, 2018)

















How can architecture & built environment features and location conditions promote the integration into the neighbourhood of inhabitants in Supportive Housing?



Literature research

Interviews: Architect, designer and policy makers

Field research: Interviews, observation and joining in activities



Flexible to changing policies



Nearby amenities



Clusters of max. 10 people



Open floor plan



In control of dwelling



Fit the variety of users





Interaction with the neighbourhood Accommodations and access for family



Shared private garden, with variety



Availability of leisure



Low-stimuli in dwelling



Fit the recovery process

Activate users



Clear layout

Availability of green





A.



Shared, informal spaces for meeting





Indoor green



Home-like where meeting or vulnerable





Private outside space



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Access to daylight





1. Know the users of supportive housing

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"Most inhabitants have a SMI, around 85% suffering from psychosis" (interview staff member, 2023)



1. Know the users of supportive housing



Fit the variety of users



Activate users

2. Location conditions







Walking to the supermarket with a volunteer and inhabitant





Nearby amenities



Availability of green



3. Building & program



Main hall



Coffee room





Clusters of max. 10 people



Amenities for the neighbourhood



Shared, informal spaces for meeting



4. Interior & dwelling



Main hall with loose furniture



Dinner room



Specialized furniture



Incorporated furniture

4. Interior & dwelling















(Author., 2023) Preparing for home into the neighbourhood | Sander van der Kooij 33





Open floor plan



Availability of leisure



Low-stimuli in dwelling



In control of dwelling



Customizable dwellings



Flexible to changing policies



Nearby amenities



Clusters of max. 10 people



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Customizable dwellings

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Shared, informal spaces for meeting







Indoor green
























Where do people go **after** supportive housing?

- Supported housing is often the goal
- Social and policy problem | Local solutions































Existing building









How can we use as much as possible?

















Amenities for the neighbourhood

→ Adding public and shared functions



Program

Field research location





Rehabilitation Centre Bolzano | MoDus architects







Program

Field research location







Rehabilitation Centre Bolzano | MoDus architects







Common living spaces 240 m²

Extra accomodation 120 m²

Therapy spaces 160 m²

Meeting/office spaces 410 m²

Public spaces 515 m²



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Amenities for the neighbourhood



Flexible to changing policies

Existing building

→ Adding public and shared functions

--- Adding dwellings with modular construction



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Amenities for the neighbourhood



Flexible to changing policies



Interaction with the neighbourhood

Existing building

→ Adding dwellings with modular construction



Adding glass house connecting public and private



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10M





10m









Reuse | Transformation of the existing complex and reusing facade material

Re-use of outer facade bricks





Reuse | Transformation of the existing complex and reusing facade material

Reduce | Increasing the use of renewable sources. Using more sustainable materials like hemp

Refurbish | Reinforcing the existing structure


























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Low-stimuli in dwelling









Low-stimuli in dwelling

×γ



In control of dwelling



Customizable dwellings









Low-stimuli in dwelling



In control of dwelling



Customizable dwellings



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10M



Elevation | West



Elevation | North

3rd Floor



_____10m N



Elevation | West



Elevation | North







Wijk Voorhof (Gemeente Delft) in cijfers en grafieken (updated 2024) | AlleCijfers.nl. (2024). AlleCijfers.nl. https://allecijfers.nl/wijk/wijk-24-voorhof-delft/

CBS (2021) Cliënten Beschermd Wonen 2021. CBS.nl. Accessed on September 22nd, 2023, from: https://www.cbs.nl/nl-nl/maatwerk/2023/37/clienten-beschermd-wonen-2021

Gehl, J. (2011) Life Between Buildings: Using space. (J. Koch. Trans) (6). Island Press.

Jovanović, N., Campbell, J., & Priebe, S. (2019). How to design psychiatric facilities to foster positive social interaction – A systematic review. *European Psychiatry, 60*, pp. 49-62. doi:10.1016/j.eurpsy.2019.04.005

KPMG (2018). Overzicht voortgang regionale taskforces. Bevindingen Regionale Taskforces ten behoeve van rapportage NZa. Appendix of a letter to the Eerste Kamer from the secretary of VWS. Eerste Kamer, meeting year 2017-2018, 32 399, K. The Hague: Sdu.

KPMG (2020, April) Wachtlijsten beschermd wonen. Onderzoek naar inzicht in en oplossingsrichtingen voor de wachttijden en wachtlijsten beschermd wonen. KPMG N.V. Advisory N.V. Accessed on October 12th, 2023, from https://zoek.officielebekendmakingen.nl/blg-937709.pdf

Perry, C.A. (1929) The Neighborhood Unit. In Perry, C.A., Heydecker, W.D., Goodrich, E.P. Adams, T., Basset, E.M., Whitten, R. (1929) *Neighborhood and community planning* (3). Committee on Regional Plan of New York and Its Environs.

Planije, M., Van Rooijen, S., Van Hoof, F. (2017) *Toekomst Beschermd Wonen: Vooronderzoek beleidsplan Beschermd Wonen Nijmegen en Rivierenland*. (AF1557). Trimbos-instituut. Retrieved on january 15, 2024, from: https://www.trimbos.nl/wp-content/uploads/sites/31/2021/09/af1557-toekomst-beschermd-wonen.pdf

Trimbos-instituut. (2023). Samenvatting. https://cijfers.trimbos.nl/nemesis/kerncijfers-psychische-aandoeningen/samenvatting-kerncijfers/

Verplanke, L., Duyvendak, J.W. (2010) 4. Zelfstandig wonende psychiatrische patienten. In Verplanke, L., Duyvendak, J.W. (2010) Onder de mensen? Over het zelfstandig wonen van psychiatrische patiënten en mensen met een verstandelijke beperking (pp.71-100). Amsterdam, Netherlands: Amsterdam University Press.