DE-GROWIH Vision for city of Rotterdam beyond the pursuit of growth AND MSc Urbanism - Graduation thesis 2016/2017



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ABSTRACT

What are the spatial implications of applying the De-growth principles in urban planing of the city of Rotterdam?

Bon dia! Overall, theisis tries to examine in depth indications of the De-growth theory for urban planing and to draw spatial implications from that. The chosen case study is the city of Rotterdam, known for its growing harbour and top-down and growth based paradigm of urban development. The goal is to link economic and environmentally oriented theory od De-growth with urban planing via researching possible transformation solutions and optimizing them according to concrete locations.

■ SEARCHING FOR SPATIAL IMPLICATION OD DE-GROWTH



METHOD AND AIM

The thesis is motivated by the *urgency* of addressing the issue of infinite growth in a finite ecological system of planet Earth whose ecological system is becoming measurably overstressed by human activities (43% of planet's surface is covered with agriculture and cities1). For this reason advocates of De-growth are calling for intentional redirection of our growth based economy towards one directed by environmental prosperity. The *solution* is seen in creating an open systems in which social and especially economic prosperity are framed by environmental prosperity. In case of cities it implies that cities are open systems, dynamic more than efficient, that redirect benefits of social interaction to environmental prosperity instead of economic one. Existing numerous non-growth practices are already putting this urgency into action. The principles they are formed around result in conceptions that can be traced in *space*.



This analytical path I followed to established first set of conclusions about potentials of De-growth in space making. Combining literatures study with comparative example study basing principles are derived. Real challenge of research was to upscale these conclusions and to contextualize them in generic types of urban fabric. Test ground of the project is city of Rotterdam, known for its growing harbour and top-down and growth based paradigm of urban development. More specifically it is a strip of urban areas in contact zone between the city's housing areas and the harbour. Here the study of 7 types of urban fabric gave information on potentials for implementation based on state of amenities, economic and housing conditions, infrastructure and mobility. Combining analytical and design based methods conclusions are derived on two levels: governance and spatial morphology. This process did not draw blueprint for implementing De-growth but it set foundation and ceiling for how the language and some converging concepts (ie. Commons) can be implemented in general discourse of urban planing.

■ CONCLUSIONS ON ANALYSIS OF CAPACITIES OF URBAN FABRIC FOR TRANSITION



Growth City Islands of urban types with distinct monofunctional use Hierarchically organized public infrastructure

De-growth city Interrelated patches of urban types with distinct substructure of functions Polycentric system of locations of public interactions and commoning

CONCLUSIONS

The relation *urgency-solution-space* is enriched by few conclusions and here I find the most relevant contribution of my work so far. These conclusions derived from specific research and design method and they are opened for discussion amongst both urban planners and De-growth advocates:

a) Urban forms are primarily result of process strongly dependent on governance. In this sense De-growth should be designed process which includes restructuring the governance of the cities. The first aim is to go beyond small, local scale, spontaneous project towards occupying actual multi-scalar planing field with the urgency for transition towards De-growth

b) De-growth is form of sensible densification. The terms under it should happen can be measured, transferable and planned.

c) The capacity of urban fabric to contain tactics for transition of socio-economic relations depends heavily on paths and patterns of mobilisation in local and municipal level. For this reason it is important to draw clear distinction between spaces and flows governed and designed as common, collective or private.



What is capacity of existing urban morphology for achieving De-growth goals?





■ MATERIALIZATION OF DE-GROWTH ON EXAMPLE OF PENDRECHT NEIGHBOURHOOD



Examples of non-growth oriented spatial practices







Assembleas, Madrid

Community Land Trust Bruxelles **Poortgebouw community, Rotterdam**



Turku area, Finland



Stad in de Maak, Rotterdam



Drachten, Netherlands

