



Hamburg Institute
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Circular Construction in Hamburg

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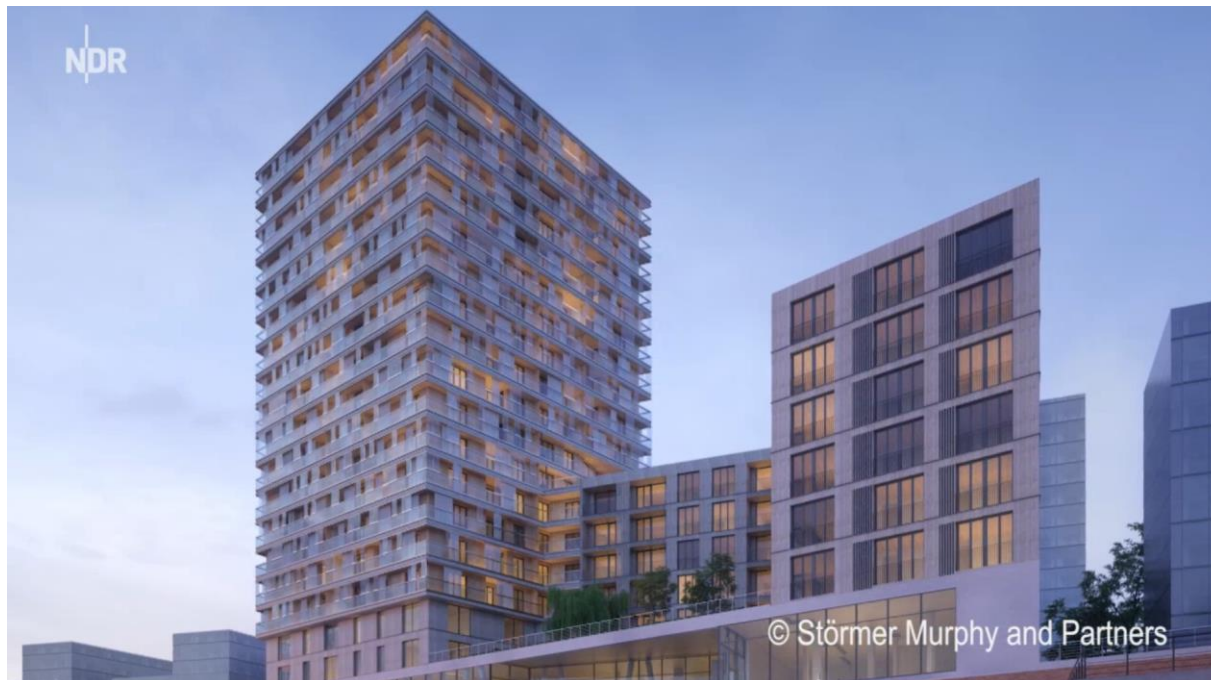
Virtual Meeting, December 10th, 2020

Circular Construction in Hamburg

- The aspect of circularity is highlighted by different activities in Hamburg, e.g. The EU project FORCE
- The new political coalition agreement calls for mandatory use of recycled material in construction projects (e.g. RC-concrete)
- Before demolition of buildings it is to be analysed whether they can also be renovated to avoid emissions from waste and construction (grey energy)

Wood in Construction

- Largest wooden building finished in Norway (85.4 metres)
- Largest wooden building in Germany is planned in Hamburg for 2023 (19 stories, 65m)



Wood in Construction

- Generally, the core and foundation still consists of concrete, wood is used for the rest
- Wood can be compared to traditional construction in terms of fire-resistancy and safety (massive materials rarely burn)
- Prefabrication allows to reduce the construction time significantly
- Walls are thinner which reduces resources needed
- Light material that can be used for additional stories on top of existing buildings

Wood in Construction in Hamburg

- Existing wood buildings, e.g. “Woodie” (student housing), “Woodcube”
- Several companies in Hamburg are specialised in wood construction (planning offices, executing construction companies)
- New “wood construction network nord” for quality control and qualification
- Public investment bank offers wood construction seminars and information events
- Regulation has been adapted to e.g. allow wood for larger construction projects (previously <3 stories)
- Subsidy of 80 cent per used kg of wood
- Learning effects lead to lower prices; several stakeholders benefit



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The “Hamburg Bottle”

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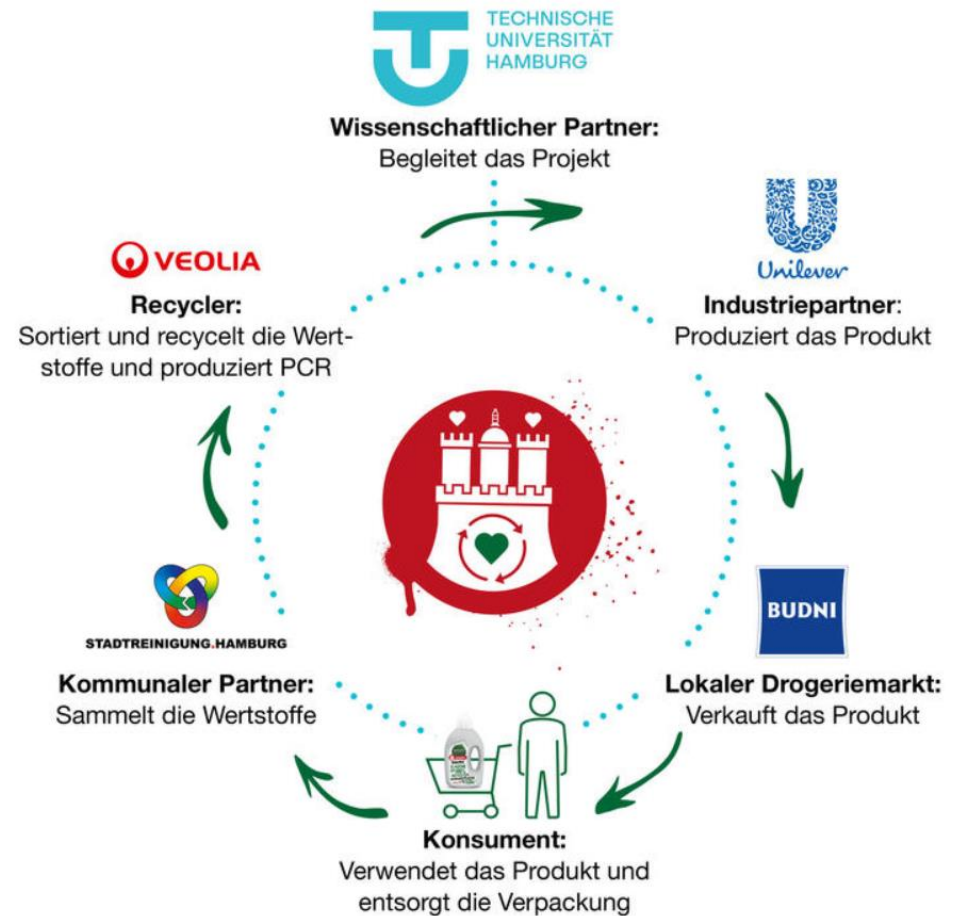
The Concept

- Establish a closed regional cycle of plastic packaging
- Bottle for detergents (“Hamburg bottle”) produced exclusively from plastics waste from Hamburg and exclusively sold in Hamburg
- Avoid downcycling of plastics



The Partners

- All parts of the value chain are included in the project
- Cooperation between science, public companies and private companies



The next Steps

- Project is considered a success
- It is discussed to expand the idea also to other kinds of packaging
- Demonstration how waste separation can have a direct, visible and tangible impact