



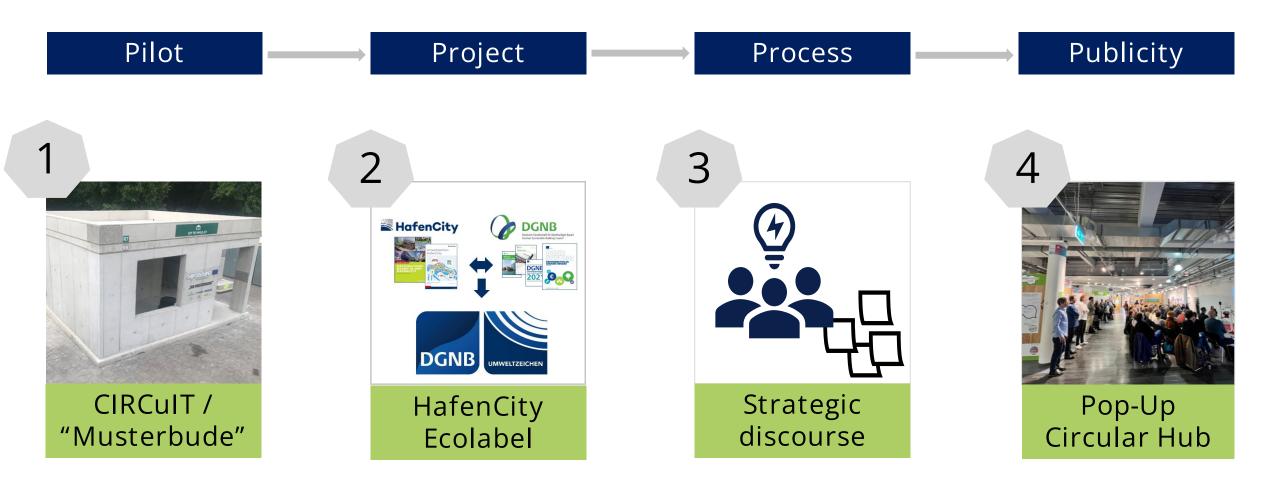
Circular economy and sustainable construction in the City of Hamburg Learnings and current developments

Christoph Petry Project Lead KARMA Free and Hanseatic City of Hamburg christoph.Petry@sk.hamburg.de

22 May 2024 | Vienna | Interreg Europe Policy Learning event - Promoting sustainable materials and circularity in construction



Content







H2020 EU-Project

Demonstrating systemic urban development for circular and regenerative cities

Free and Hanseatic City of Hamburg





CIRCuIT and the "Musterbude"



KARMA

Pilot

H2020 EU-Project

Demonstrating systemic urban development for circular and regenerative cities

Pilot

Free and Hanseatic City of Hamburg





CIRCuIT in a nutshell

- EU-Horizon 2020 (Research and Innovation) Circular Construction in Regenerative Cities
- Duration: 2019 2023
 - 31 partners in 4 cities: Copenhagen, Hamburg, London, Helsinki/Vantaa
- Glimpse of learnings on regional level (selection):
 - Material reuse portal for regional building materials / database with available materials from Pre-Demolition / Pre-Refurbishment Audits from disassembly sites
 - Create storage area(s) in the city for deconstructed building materials
 - Require the reuse of building materials from regional urban mining in public tenders with a quota and initiate promotion for the private sector







Pilot

CIRCuIT "Musterbude"

- Physical demonstrator in Hamburg
- Result from EU Horizon Project "CIRCuIT" (Circular Construction in Regenerative Cities, 2019-2023)
- Small cabin of seven types of recycled concrete
- Tests the performance of recycled concrete mixtures
- The "Hamburger Mische" mixture, which contains 100% mixed construction and demolition waste, achieved good concrete strength and surpassed expectations.





Project

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HafenCity "Ecolabel"





Project

Sustainability Certification for Buildings in HafenCity

- HafenCity is a project of urban regeneration located on the Elbe river island Grasbrook in Hamburg
 - Area: 442 ha
 - Jobs: 74 000
 - Inhabitants: 30 000
- The area is developed and managed by the Hafen City Hamburg GmbH, a wholly owned subsidiary of the Free and Hanseatic City of Hamburg
- HafenCity as a living lab for sustainable architecture
- In 2007 HafenCity Hamburg GmbH established Germany's first green building certification system
- > 15 years of learning and development
- 2022: development of the joint certificate DGNB Special Award Ecolabel to replace the former HafenCity Ecolabel

KARMA

Co-funded by

Sustainability Certification for Buildings as a prerequisite: HafenCity Ecolabel

Development of the HafenCity Ecolabel over the past 15 years

HafenCity as a Living Lab for Sustainable Architecture HafenCity Ecolabel

HafenCity







DGNB Ecolabel at HafenCity: Categories and Specifications

DGNB special award Ecolabel

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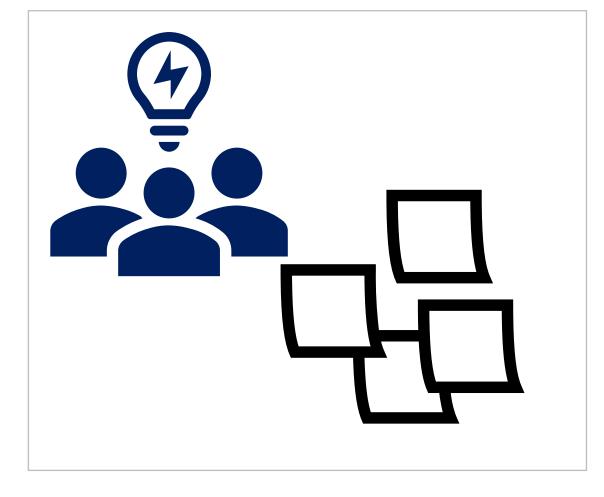






Process





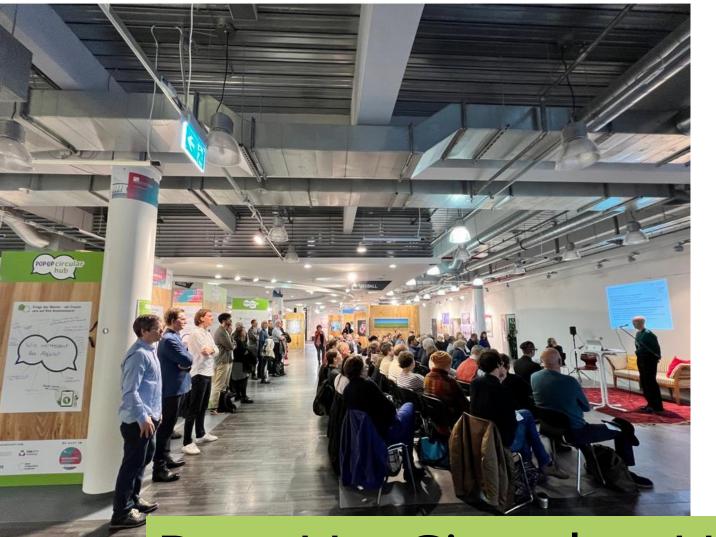
Process

Strategic discourse

- Hamburg participates as a 'model city' in a study on circular economy strategies
- The study is conducted by the German Institute of Urban Affairs (Difu) (24 cities in total)
- An interactive and discourse oriented approach is used to discuss and develop inputs for a possible strategy on circular economy on a local level including various stakeholders
- Organised by the Ministry of Environment, Climate, Energy and Agriculture (BUKEA)
- Circular economy in construction is a focus topic
- KARMA Stakeholders workshops are planned



KARM



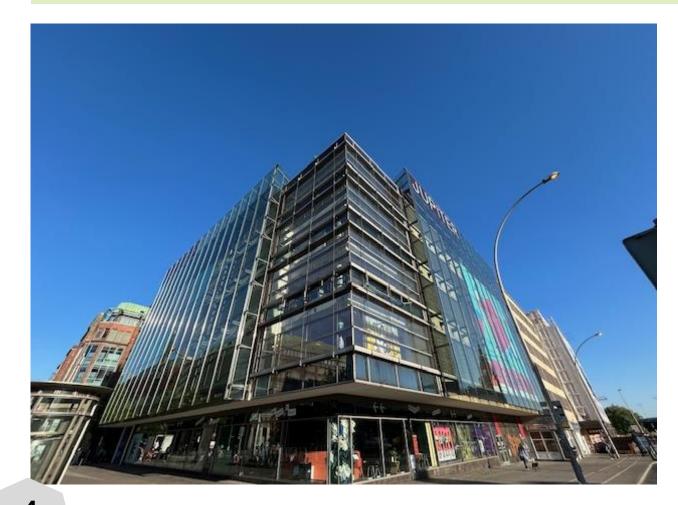


Pop-Up Circular Hub



Photo/Source: FabCity (2024); New Production Institute (2024): Pop-Up Circular Hub (Re-Opening) - Fab City Hamburg

Circular Economy networking: The Pop-Up Circular Hub opened at "JUPITER", a former shopping centre in Hamburg



Publicity





Photo: Senate Chancellery (2024) Logo: FabCity Hamburg (2024)





Video from the Pop-Up Circular Hub Re-Opening event, 30.04.2024, Hamburg – Germany

Source: Youtube (2024): https://www.youtube.com/watch?v=xU04ug56uOA

Publicity

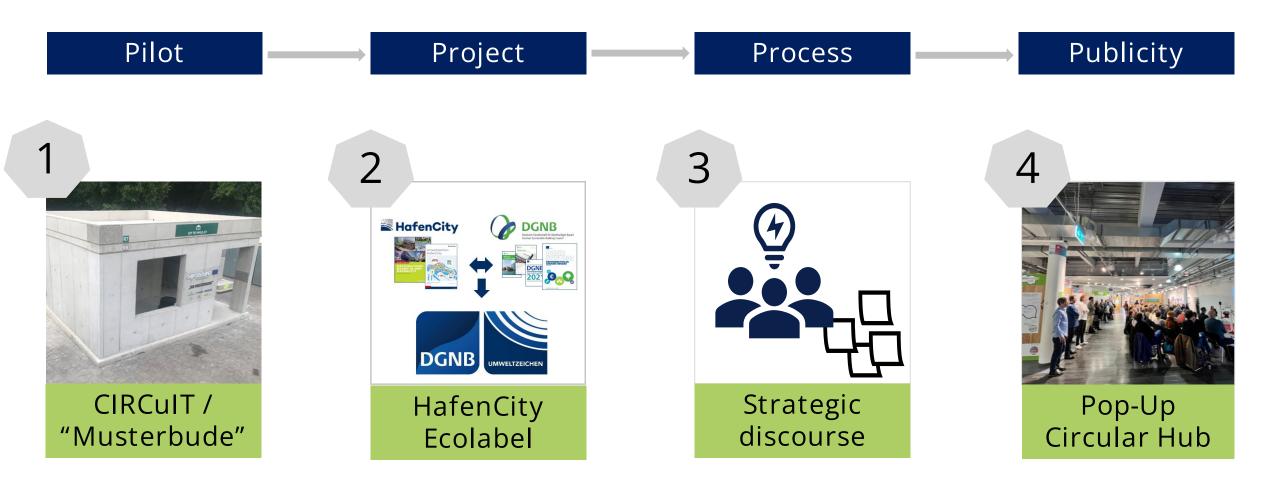
Pop-Up Circular Hub

- Objective: Creating a Hub for circular economy activities in Hamburg
- Initiated and implemented by a team from several organisations
- Location: Area on one floor of a former store, facing the main station ("JUPITER")
- Duration: April December 2024
- Place for exhibitions, events and workshops on circular economy
- Open Lab Microfactory
- KARMA events are planned





Content











Thank you!

www.interregeurope.eu/KARMA

Christoph Petry Project Lead KARMA Free and Hanseatic City of Hamburg christoph.petry@sk.hamburg.de