Scary weather



Rain is fantastic!





How much does it rain actually? - the last hour, day, week, month ...



Recommendation 1:

Identify the beneficiaries for making the case for BGI.

Keywords: multiple benefits, branding, business case, strategic vision, stakeholder mapping



People living in area with BGI

- For health and wellbeing
- Robust and safe handling of storm water
- 2 Society itself by buliding more climate proof systems which can deal with climate change

- New state recommendation on using BGI-systems in planning and transformation of urban areas.

Branding the rain.

3 - Cooperation with Scary Weather - Branding Bergen as the rainy city and developing positive rain experiences

4 Establish a monitoring rain column in the city centre



BEGIN partners:

The Netherlands: City of Dordrecht, Bax & Company, Erasmus University of Rotterdam, IHE-DELFT

Belgium: City of Antwerp, City of Ghent

Germany: Agency for Roads Bridges and Waters, Hamburg; Hamburg University of Technology

Light Rail station in transformaed Minde City

United Kingdom: Construction Industry Research Information Association (CIRIA), City of Bradford Metropolitan District Council, Kent County Council, Aberdeen City Council, Enfield, Royal College of Arts, University of Sheffield

Sweden: City of Gothenburg Norway: City of Bergen









Todays situation at Mindemyren



Planned transformed Minde city with BGI



What the existing neighborhood wants



Recommendation 2: Relate the BGI to communities by demonstrating the value to them.

Keywords: branding strategies, daily lives of residents, local champions, community engagement

New masterplan on stormwater is developed 1 **BGI is 1. choice**

-Water in the City has its own chapter in the general wastewater masterplan.

- The blue-green consept is preferred in developing of new housing areas in the city.

- You are obliged to plan for climate change in all projects and zoning plans.

- BGI's are focused in general city development and city master plan.

2

Developers

- The use of BGI make the projects more valuable and more profitable for developers.

- The value of BGI's are recognized by people



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Representing the exis

ting neighborhood of Mindebyen Foto, Eirik Skare

> Suggestion from neighborhood survey

United Kingdom: Construction Industry Research Information Association (CIRIA), City of Bradford Metropolitan District Council, Kent County Council, Aberdeen City Council, Enfield, Royal College of Arts, University of Sheffield

Sweden: City of Gothenburg Norway: City of Bergen

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gent:



TUHH



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Kent County Council

plass til å vokse seg store!







IHE













Plans for Minde City discussed in a meeting in Bergen Chamber of Commerce and Industry





Recommendation 3: BGI requires interdisciplinary municipal (and other) partnering.

Keywords: ambassadors, living labs, capacity building networks (C2C)

Masterplans on storm water, sewerage and water environment has pointed at the need of interdisciplinary cooperation at this area for more than 15 years.

BGI has been developed by interdisciplinar cooperation – and the need of complementary competence has been clearly identified.

2 Working with BGI strengthen the cooperati on among the different municipal planning disciplines.

- Mindemyren – an interdisciplinary group is established to follow up.

4

City development Congress 2018

-Dedicated to Water and city planning



The Netherlands: City of Dordrecht, Bax & Company, Erasmus University of Rotterdam, IHE-DELFT

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Interdisiplinar seminar on our new Storm water masterplan

Sweden: City of Gothenburg Norway: City of Bergen











The Top BGI-system



Recommendation 4: Develop asset management principles and processes for BGI.

Keywords: monitoring, lifecycle and short-term performance, asset management principles and evidence-based benefits

Responsibility concept both to construction and to daily maintenance and the long term asset management is closely linked to following:



Water departments responsibility:

Design and construction of the system in terms of hydraulic capacity to meet design criteria in short and long term including climate change. Operation and maintenance of the hydraulic system.

2 Agency for urban environments responsibility:

Design and construction of the blue-green system in terms of park design and urban design. Operation and maintenance of the BGI-system on the surface. Including cleaning and taking care of Wthe park-effects of the system.



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