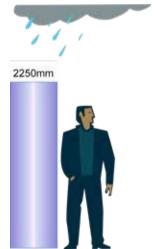
BERGEN



Rain is fantastic!





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



Light Rail station in transformaed Minde City



gent:

































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

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

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

BERGEN



Todays situation at Mindemyren



Planned transformed Minde city with BGI





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 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



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

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





































BERGEN





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



Interdisiplinar seminar on our new Storm water masterplan



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.

- Working with BGI strengthen the cooperati on among the different municipal planning disciplines.
 - Mindemyren an interdisciplinary group is established to follow up.
- **City development Congress 2018**

-Dedicated to Water and city planning



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

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



gent



























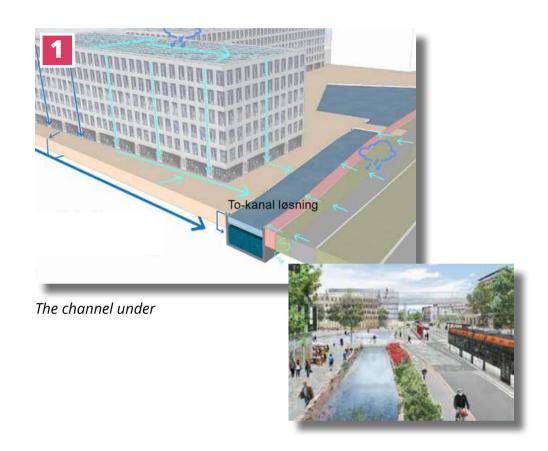








BERGEN





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.

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.



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

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



gent:































