## BRU PUBLIC DOMAIN

# **Bruges, Cluster Public Domain**

Joachim Calcoen & Maarten Vansteenhuyse

## From barriers to benefits **Clustering grey, green and blue**





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Klimaatadaptatieplan historische binnenstad Brugge



Climate adaption plan: how to avoid it dissapears somewhere in a closet?



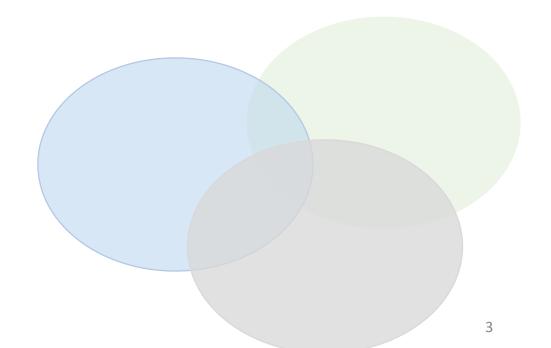


Water Resilient Bruges

### Climate proof planning & design Mr **Maarten Vansteenhuyse**

Organisational structure Cluster Public Domain Mr Joachim Calcoen







### **Central question:**

### How to anchor integrated water management into the organization of a local government



### **Organisational structure Cluster Public Domain**



Public garden department

Public roads department

Water management?

City cleansing department



# **Public roads department**



#### Main task

Design and maintenance of roads and sewerage

### Tasks in water management

Management of sewerage

- Design
- Repair
- Maintenance
- Connection of private installations

### Management of watercourses

- Bank reinforcement
- Dredging

<u>Strength</u> technical solutions



# **Public garden department**



#### Main task

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Design and maintenance of green spaces

#### Tasks in water management

Space for water infiltration Management of green banks

#### **Strength**

nature based solutions







# **City cleansing department**



#### Main task

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Waste disposal and management

#### Tasks in water management

Floating litter removing rounds Periodical cleaning of sewer drains Maintenance of syphons Cleaning of public toilets

#### **Strength**

Human drive makes Bruges the cleanest city of Flanders





### **Organisational structure Cluster Public Domain**



In fact

Public garden department

Incl. partial water management

Public roads department

Incl. partial water management City cleaning department

Incl. partial water management

### **Towards a new organisation**



<u>NENO project</u> One cluster Public Domain

#### **Reasons**

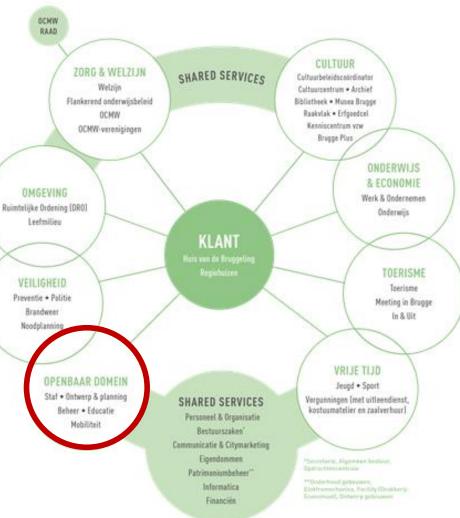
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- Efficiency
- Effectiveness
- Transparance
- Customer oriented

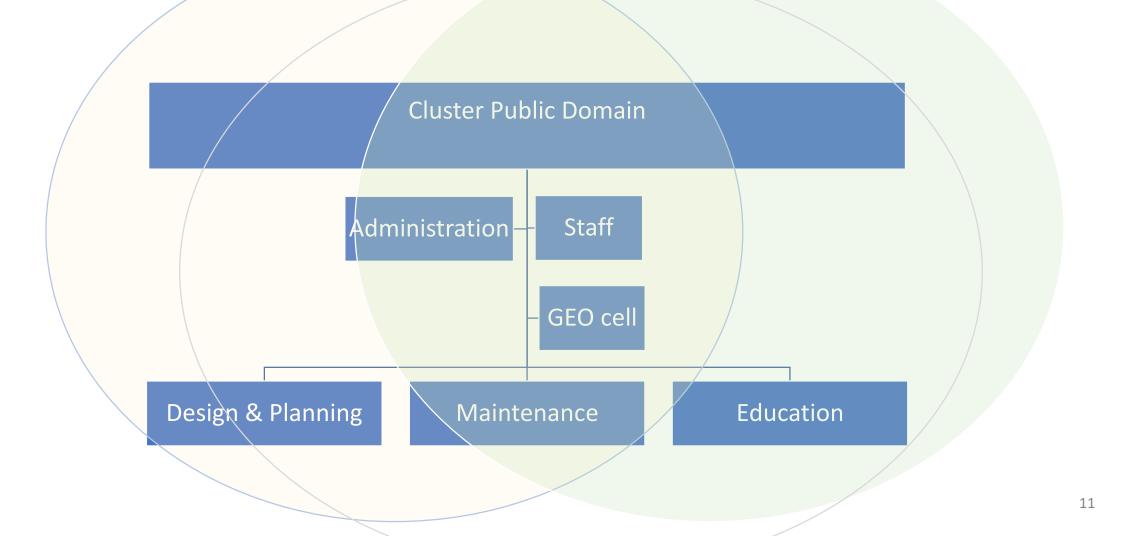
#### <u>But also</u>

Huge chances for integrated water management!



### **Organisational structure Cluster Public Domain**





## Water quality of Bruges canals

Example of integrated water management





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## Water quality of Bruges canals

Example of integrated water management



Step 1: To measure is to know

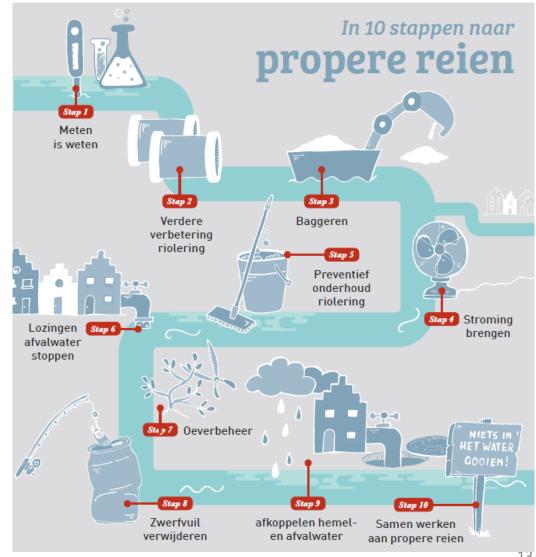
Step 2: Improvements to sewer system

Step 3: Dredging

- Step 4: Adding current
- Step 5: preventive sewer maintenance
- Step 6: Putting a stop to the discharge of waste water
- Step 7: canal bank management

Step 8: Removing litter

- Step 9: Disconnecting rainwater and waste water
- Step 10: Working together for clean canals





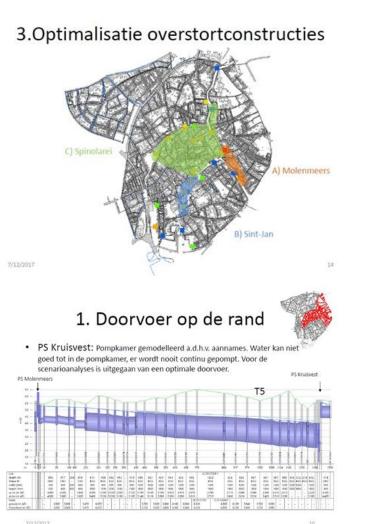
## Water quality of Bruges canals

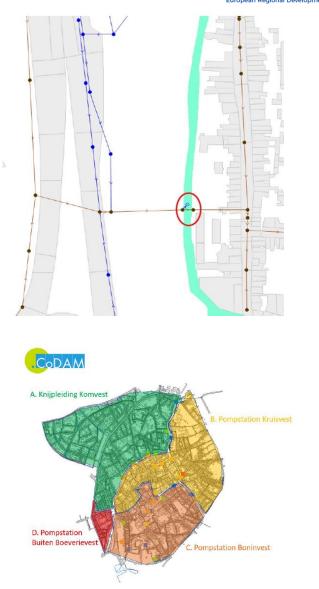


**Connection with WRC** 

#### Step 1: To measure is to know









### Water quality of Bruges canals



Connection with WRC

#### Step 4: Adding current







### Water quality of Bruges canals



Connection with WRC

#### Step 10: Working together for clean canals





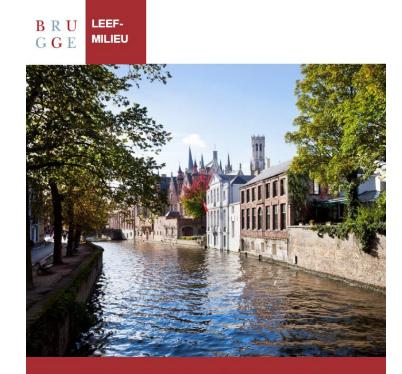
## From barriers to benefits Clustering grey, green and blue





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#### Klimaatadaptatieplan historische binnenstad Brugge

2 Seas Mers Zeeën Water Resilient Citles de ondreuen erwinste