



## Lessons learnt The Netherlands how did we improve our waterquality?

**Analysis**      **Ambition**      **Action**

Analysing your area      Formulating your ambition      Policy and Implementation

**Analysis**

- Determine situation
- Stakeholders analysis
- Legislation
- Monitoring and evaluation

**Ambition**

- Evaluate situation & ambitions
- Cost benefit approach in time

**Action (top down, bottom up)**

- **Education: public awareness**
- Participation, dissemination, etc
- Minimise emissions
  - Industrial, domestic, ...
- waterquality improvement (WFD)
- Evaluation & governance
- ...
- Apply to Philippines?
  - lesson learnt

Think global  
Act local

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## BMPs around the world [www.climatecan.nl](http://www.climatecan.nl) (>3000 global BMPs mapped)

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[www.climatecan.nl](http://www.climatecan.nl)

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## Analysis Indonesia

**Analysis**

- Analysing your area

**Ambition**

- Formulating your ambition

**Action**

- Policy and implementation

**Analysis**      **Ambition**      **Action**

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Monitoring from source/point

## Analysis Indonesia: Brantas (Java)

Emission Locations all over the Downstream area of Brantas River (purple)

- Industrial outlets
- Domestic outlets
- Waste dumping locations

Mapped with characteristics and short descriptions

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## Analysis: Baseline study of water quality monitoring Indonesia: Field work

- Monitoring with underwater drones - learn local challenges and potential for implementation
- Monitoring with apps (test strips and app) - e.g. phosphate, arsenic, iron, pH, nitrate, chloride)
- Larger scale monitoring using sensors on boats

**Kapal Selam Potret Kondisi Kali Surabaya**

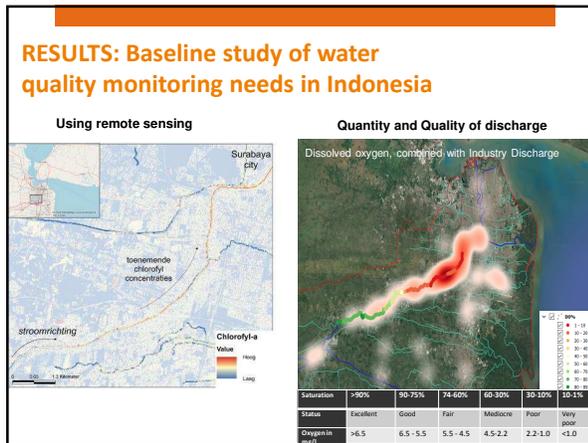
**Using innovation as communication and participation**

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## RESULTS: Baseline study of water quality monitoring needs in Indonesia

Dissolved oxygen

Saturation	100%	80-95%	74-80%	65-70%	50-60%
Status	Excellent	Good	Fair	Marginal	Poor
Oxygen in mg/l	>6.5	6.5 - 5.5	5.5 - 4.5	4.5-2.2	2.2-1.0



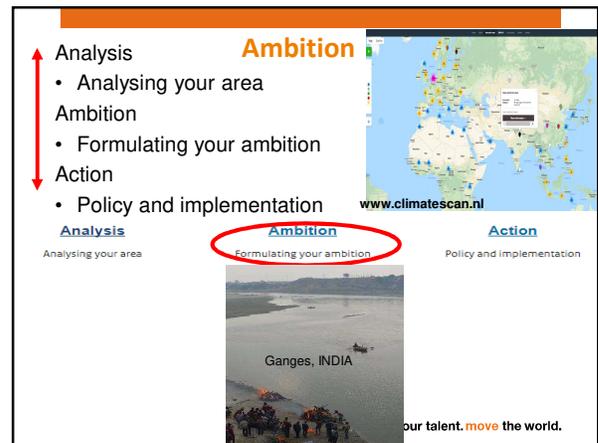
### Sharing info on www.climatescan.nl

**Brantas project: fostering inclusive growth, health and equity by mainstreaming water quality in river basin management**

**Samenvatting (Dutch description)**

**Related projects**

<https://www.climatescan.nl/projects/2699/detail> **share your talent.move the world.**



### Ambition waterquality strategy: INDIA

**Ganges riverfront india project**

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## From Analysing to Ambtion challenges and cost effective solutions

Type Area

Quality

Specific NBS Solutions locations

## International BMPs in Europe, Asia and Africa And many more examples....

Asia: Indonesia, Philippines

Africa: Mali, S-Africa

Europe: Denmark ...

## Lesson learnt from publications and Books ...? for international knowledge exchange?

share

## Books ... for international knowledge exchange?

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## International knowledge exchange tools: experience: interactive, V+A (augmented) reality, serious gaming, ..

## Learning by doing, lessons learnt: experience: not a linear process. Not 1 solution, depends on location

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## Learning with climatecafe

**Analysis**

- Analyzing your area

**Ambition**

- Formulating your ambition

**Action**

- Policy and implementation

## Manila 2016: Analysis

### Micro pollutants: Innovation in mapping waterquality

## Manila 2016: Ambition

**CURRENT SITUATION**

# AMBITION

**BENEFITS & IMPLEMENTATION**

## Manila 2016: Action

### 'The Longganisa': design and implementation

## Cebu climatecafe 2017

## Cebu climatecafe 2017 Action: floating islands

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## The Butuanon river scan 2018

Foreign, Filipino students to help in Butuanon river rehab  
UNIVERSITY of SAN CARLOS

## The Butuanon river scan 2018: action

Share Care

## International knowledge exchange 2018

2017-2022...

## SHARE YOUR PROJECT www.climatecan.nl >3000 projects, >10.000 International users

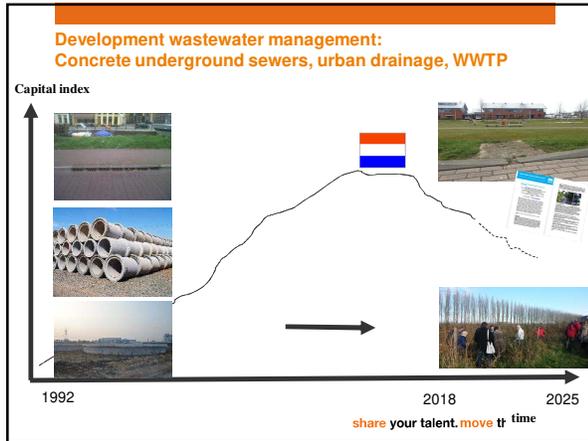
www.climatecan.nl  
>3000 SUDS/WSC projects

Country	Projects
1. Netherlands	4,750
2. United Kingdom	1,800
3. India	1,400
4. United States	1,100
5. Spain	700
6. France	600
7. Brazil	500
8. Mexico	400
9. Italy	300
10. Austria	200

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## Final words: We share challenges Learn from best management practices

Amsterdam 1970  
Amsterdam 2016  
Dutch princess swims Amsterdam canals for charity  
yrid.



### Messages to take home

- We share challenges lets share solutions
- Climate adaptive strategy: Analyse, Ambtion and Action
  - Not a linear proces
    - Example Climatecafe takes you
      - Interdisciplinair international capacity buidling, raising awareness, participation, dissemination, upscaling, .....
- Lessons learnt for a nature based cost effective short cut
- Use international knowledge exchange tools
  - [www.climatescan.nl](http://www.climatescan.nl), upload your project
  - [www.climatecafe.nl](http://www.climatecafe.nl), join us with your event
  - [www.reconnect.nl](http://www.reconnect.nl), join with your project
- Join. More info? [www.reconnect.nl](http://www.reconnect.nl)

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### THANK YOU...

see more?  
[www.climatescan.nl](http://www.climatescan.nl)  
[twitter.com/Climate\\_Scan](https://twitter.com/Climate_Scan)  
[www.climatecafe.nl](http://www.climatecafe.nl)  
[www.GCA.org](http://www.GCA.org)

**ANY QUESTIONS?**

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