

# Tools for a better management of stormwater

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(IPS)

## Overview

- Within WP2 a set of tools for a better management of stormwater has been developped by IPS
  - ...
  - STORM - a hydrological and pollution load model
  - Eco.SWM - a Life-Cycle-Cost-Assessment Tool
  - COFAS - multicriteria and flexibility assessment

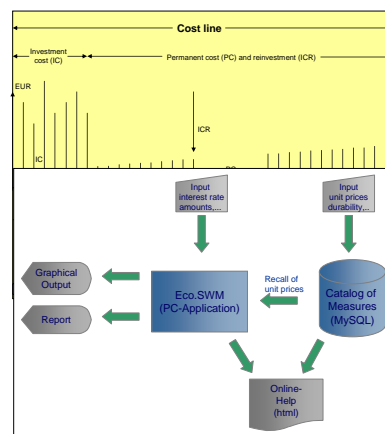
# STORM

- Features
  - Hydrological water-cycle-model for urban & rural catchments
  - Pollution load model
  - Interface to the BMP-DSS Tool developed by MU
  - Manual (German & English)
- Goal: quantifying the effects of various SWM measures
- User: Practitioners, Research
- Source: download available



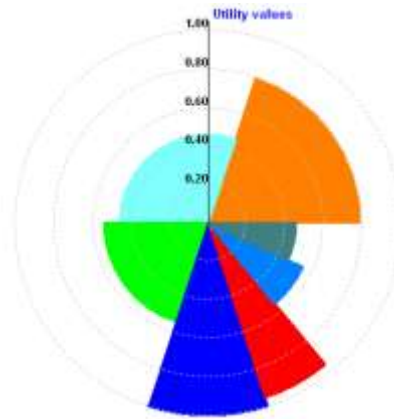
## Eco.SWM: Life-Cycle-Cost-Assessment

- Features
  - Collecting all costs in the lifetime of a (SWM)-measure (Initial Investment, O&M, Re-investment)
  - Computing Net-Present-Value
  - Web-based unit-price database
  - Manual (English & German)
- Goal: comparing the cost of alternative solutions
- User: Practitioners, Research
- Source: download available



# COFAS: Multi-Criteria Assessment

- Goals
  - Comparing alternative solutions against different indicators
  - Demonstrating synergy effects
- Features
  - Utility Value Analysis
  - Approaches for assessing flexibility (internal/external homogeneity)
  - Tutorial (English) with examples
- User
  - Practitioners, Researchers, Policy
- Source: download available
  - [www.switchurbanwater.eu](http://www.switchurbanwater.eu)
  - [www.sieker.de](http://www.sieker.de)



## Other deliverables

- Training material
  - Online-Training-Course-Module (for a course offered by Univ. of Abertay)
  - General training material (prepared for training courses in Belo H. / Johannesburg / Trondheim / Birmingham / Nottingham / Lodz)
- Documents/Papers
  - Urban Stormwater Management in the Emscher Region
  - Stormwater Reuse Options
  - Water balance approach to urban planning
  - How to measure flexibility – the COFAS method
  - Adaptability and sensitivity of stormwater control technologies to extreme environmental and socio-economic conditions