



EGU2020-2710

# PHUSICOS platform: Nature-based solutions to reduce risk in mountain landscapes

Audrey Bails, Séverine Bernardie, Olivier Frézot, Gaëlle Marquis,  
PHUSICOS team

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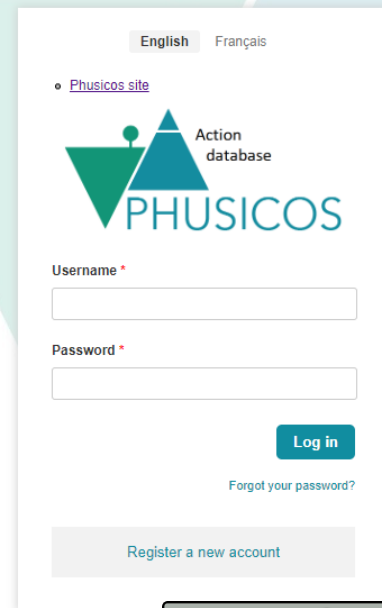
# Objectives

- Collect information about all NBSs related to DRR associated with extreme hydro-meteorological events in mountain and rural landscapes
- Map existing data platforms
- Evaluation of NBSs
- Develop a web-based tool for demonstrating and maintaining data for NBSs



# Data platform

- Access:
  - Web portal <http://phusicos.brgm.fr>
  - Currently an user account is needed but it will be open-access soon
  - Self-registration will be required only for contributors
- Interfaces:
  - Map
  - Database
  - Add a solution form



The screenshot shows the login interface of the PHUSICOS platform. At the top, there are language selection buttons for 'English' and 'Français'. Below this is a link to the 'Phusicos site'. The main logo features a stylized green and blue triangle with a small tree icon, and the text 'Action database' and 'PHUSICOS'. The login form includes fields for 'Username \*' and 'Password \*', a 'Log in' button, and a link for 'Forgot your password?'. At the bottom, there is a button to 'Register a new account'.



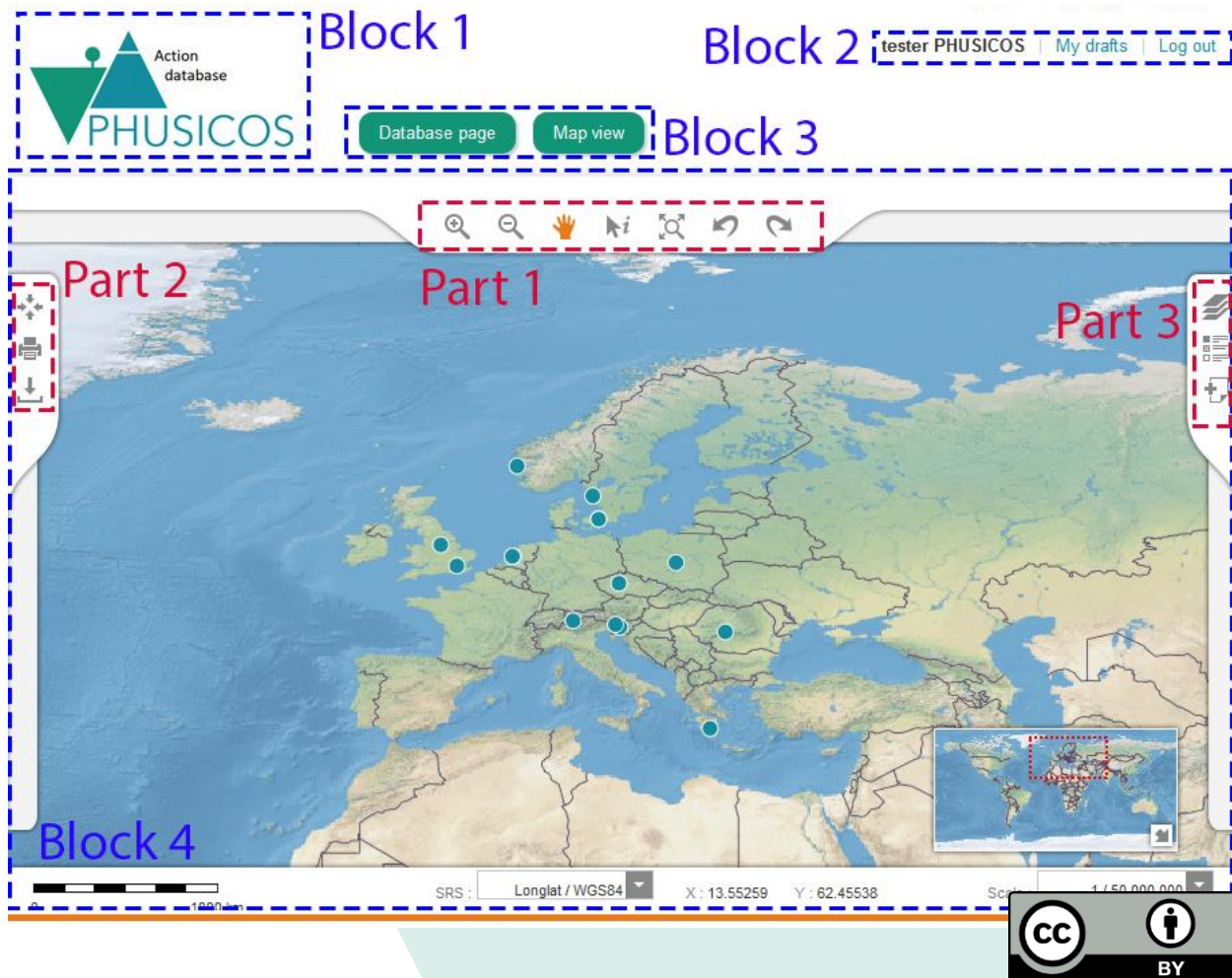
# Map view

Block 1 : -> home page

Block 2: Consult your drafts or log out.

Block 3: Choose your interface.

Block 4: the map with all already implemented NBS in the database



# List interface

- Block 1: -> Home page
- Block 2: Choose your interface.
- Block 3: Consult your drafts or log out.
- Block 4: Search module with a filter body
- Block 5: List of already entered NBS
- Block 6: An “Add a solution” button

The screenshot shows the PHUSICOS web interface. The background is a scenic image of a mountain landscape. The interface is divided into several sections, with specific blocks highlighted by dashed blue boxes:

- Block 1:** The top left corner containing the PHUSICOS logo and the text "Action database".
- Block 2:** The top right corner containing the user name "tester PHUSICOS", links for "My drafts" and "Log out", and buttons for "Database page" and "Map view".
- Block 3:** The top right corner containing the user name "tester PHUSICOS", links for "My drafts" and "Log out", and a button for "Add a solution".
- Block 4:** The left sidebar containing search filters: "Content search" (a text input field), "Ecosystem (s) impacted" (a dropdown menu with options: Alpine, Cropland, Grassland, Heathland and shrub), "Hazard(s) concerned" (a dropdown menu with options: Droughts, Erosion, Erratic rainfalls, Flashfloods), "What are the assets exposed?" (a dropdown menu with options: Agriculture, Urban settings, Urban/residential areas, Industrial buildings), "Sustainable development goals addressed" (a dropdown menu with options: SDG1 – No poverty, SDG2 – Zero Hunger, SDG3 – Good Health and Well-being, SDG4 – Quality Education), "Sendai Framework priorities addressed" (a dropdown menu with options: Priority 1. Understanding disaster risk, Priority 2. Strengthening disaster risk g, Priority 3. Investing in disaster risk red, Priority 4. Enhancing disaster prepared), and "Participatory process" (a dropdown menu with options: - Any -).
- Block 5:** The main content area displaying a list of solutions. The first solution is "Creation of a Park for water retention: The Cloudburst Management Plan, Copenhagen". The second solution is "Multifunctional Sustainable Drainage Systems for Nature-Based Stormwater Management". The third solution is "Creating a Periurban Park In Prague: the CONFLUENCE Project".
- Block 6:** The bottom right corner containing a Creative Commons BY license logo.



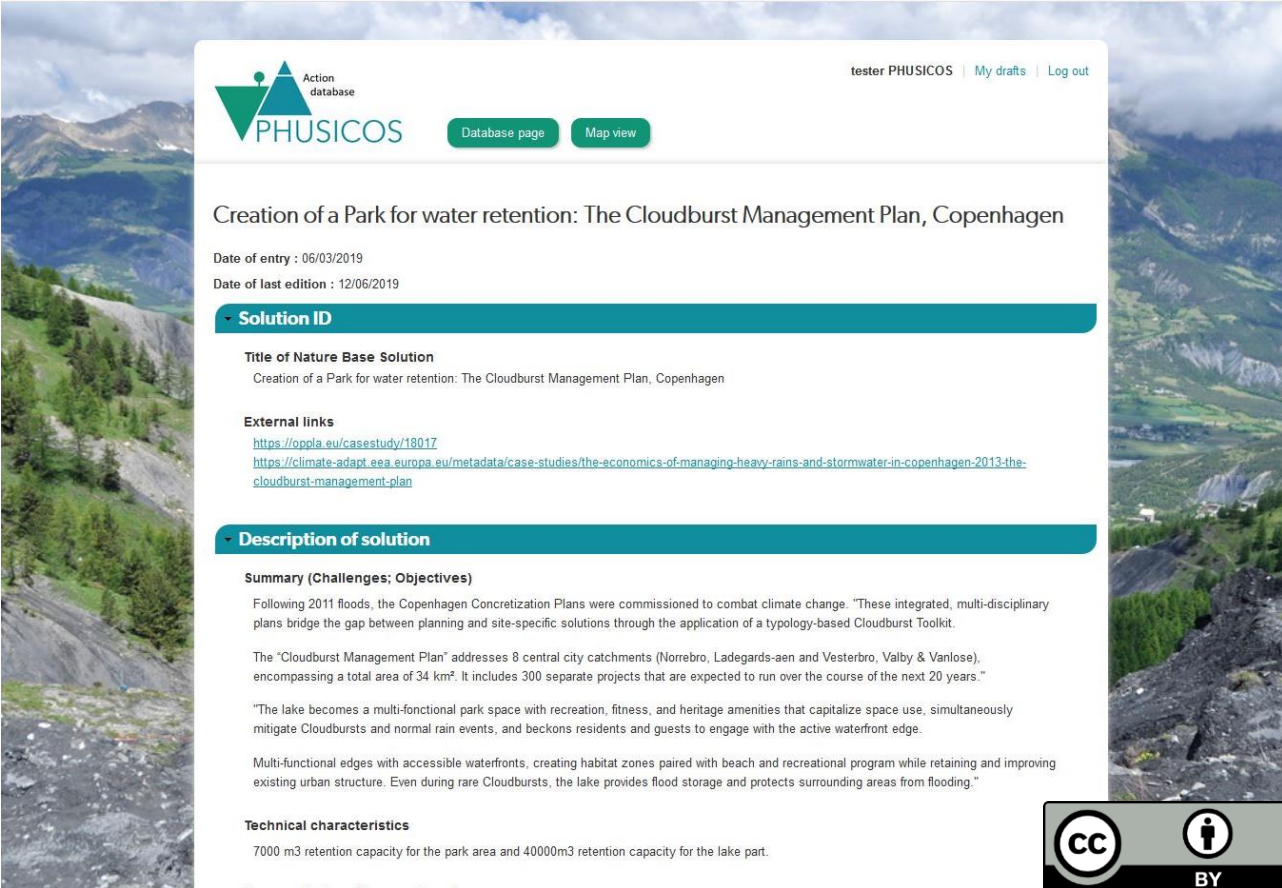
Meeting name, meeting date




# Solution detailed page

- As far as possible:  
-> 1 entry = 1  
solution

Projects need to be  
detailed at the  
solution level



Action databasetester PHUSICOS | My drafts | Log outDatabase pageMap view

## Creation of a Park for water retention: The Cloudburst Management Plan, Copenhagen

Date of entry : 06/03/2019  
Date of last edition : 12/06/2019

### ▼ Solution ID

**Title of Nature Base Solution**  
Creation of a Park for water retention: The Cloudburst Management Plan, Copenhagen

**External links**  
<https://oppla.eu/casestudy/18017>  
<https://climate-adapt.eea.europa.eu/metadata/case-studies/the-economics-of-managing-heavy-rains-and-stormwater-in-copenhagen-2013-the-cloudburst-management-plan>

### ▼ Description of solution

**Summary (Challenges; Objectives)**

Following 2011 floods, the Copenhagen Concretization Plans were commissioned to combat climate change. "These integrated, multi-disciplinary plans bridge the gap between planning and site-specific solutions through the application of a typology-based Cloudburst Toolkit.


The "Cloudburst Management Plan" addresses 8 central city catchments (Nørrebro, Ladegårds-åen and Vesterbro, Valby & Vanløse), encompassing a total area of 34 km². It includes 300 separate projects that are expected to run over the course of the next 20 years."

"The lake becomes a multi-functional park space with recreation, fitness, and heritage amenities that capitalize space use, simultaneously mitigate Cloudbursts and normal rain events, and beckons residents and guests to engage with the active waterfront edge.

Multi-functional edges with accessible waterfronts, creating habitat zones paired with beach and recreational program while retaining and improving existing urban structure. Even during rare Cloudbursts, the lake provides flood storage and protects surrounding areas from flooding."

**Technical characteristics**

7000 m3 retention capacity for the park area and 40000m3 retention capacity for the lake part.





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# Thank you!

[s.bernardie@brgm.fr](mailto:s.bernardie@brgm.fr)

[a.baills@brgm.fr](mailto:a.baills@brgm.fr)

[o.frezot@brgm.fr](mailto:o.frezot@brgm.fr)



<https://phusicos.eu/>  
[@phusicos](#)

