



Innovative stormwater asset management in future cities

Fact Sheet

Project Information

Mind4Stormwater

Grant agreement ID: 786566

[Project website](#)

DOI

[10.3030/786566](https://doi.org/10.3030/786566)

Project closed

EC signature date

6 April 2018

Start date

1 September 2018

End date

31 August 2021

Funded under

EXCELLENT SCIENCE - Marie Skłodowska-Curie Actions

Total cost

€ 270 918,00

EU contribution

€ 270 918,00

Coordinated by

UNIVERSITE LYON 1 CLAUDE
BERNARD

 France

Objective

Mind4Stormwater aims to help cities achieve sustainable management of their “stormwater control measures” (SCMs). These nature-based solutions (e.g. wetlands, swales, infiltration trenches, bioretention systems) have emerged worldwide in the last few decades, meaning that their long-term management is far from assured. Operational and research questions have so far largely focused on optimising hydrologic, hydraulic and water quality performance. However, there is a growing concern regarding sustainable long-term management, and its impact on performance and cost. Such concern will likely limit application and development of SCMs. On the other hand, SCM operation and maintenance could create new

business opportunities related to sensors, monitoring and asset management. According to the UN, investing US\$188 billion to manage stormwater and preserve water quality in the US could generate US\$265 billion in economic activity and create nearly 1.9 million jobs. The situation is likely very similar with the 600,000 direct jobs in the EU water services sector. Mind4Stormwater will adapt existing low-cost technology sensors to the specific context of SCMs, and develop an innovative Expert System to guide the utility manager in selecting the best O&M actions for each SCM. The Expert System will be developed on an Australian case-study with an asset base of 500 SCMs. It will then be adapted for French cities and an adaptation draft for European cities will be developed. Mind4Stormwater tackles a major problem that is emerging worldwide. This novel research will establish the researcher and both organisations as leaders in the emerging research topic of integrated monitoring and asset management of stormwater control measures. It will reinforce their international recognition and increase opportunities to host excellent researchers. A series of outreach activities will also deliver public education and awareness of the major importance of integrated urban water management.

Fields of science (EuroSciVoc)

[natural sciences](#) > [earth and related environmental sciences](#) > [hydrology](#)

[natural sciences](#) > [computer and information sciences](#) > [artificial intelligence](#) > [expert systems](#)

[engineering and technology](#) > [electrical engineering, electronic engineering, information engineering](#) > [electronic engineering](#) > [sensors](#)

[engineering and technology](#) > [environmental engineering](#) > [natural resources management](#) > [water management](#)



Programme(s)

[H2020-EU.1.3. - EXCELLENT SCIENCE - Marie Skłodowska-Curie Actions](#)

MAIN PROGRAMME

[H2020-EU.1.3.2. - Nurturing excellence by means of cross-border and cross-sector mobility](#)

Topic(s)

[MSCA-IF-2017 - Individual Fellowships](#)

Call for proposal

[See other projects for this call](#)

Funding Scheme

[MSCA-IF-GF - Global Fellowships](#)

Coordinator



UNIVERSITE LYON 1 CLAUDE BERNARD

Net EU contribution

€ 270 918,00

Total cost

€ 270 918,00

Address

**BOULEVARD DU 11 NOVEMBRE 1918 NUM43
69622 Villeurbanne Cedex**

 **France** 

Region

Auvergne-Rhône-Alpes > Rhône-Alpes > Rhône

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Partners (1)



PARTNER 

UNIVERSITY OF MELBOURNE

 **Australia**

Net EU contribution

€ 0,00

Address

PARKVILLE OFFICE OF THE VICE CHANCELLOR
3010 Melbourne 

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

€ 178 380,00

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Permalink: <https://cordis.europa.eu/project/id/786566>

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