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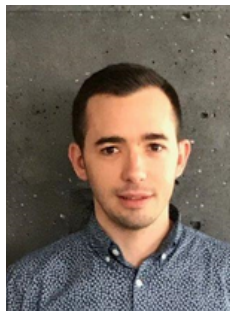


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INTRODUCTION

Welcome to the latest newsletter of the CIRCLE (Concrete solution dRaining for the Climate and Environment) project, published every six months. In this edition, we will share with you the final results of the project: Eurovéloroute V4, Ostréapolis construction site, pilot site in the UK and a look back at the final event.

Finally, we will report on the latest presentations made on the project.

We hope you enjoy this last edition.

Enjoy your reading!

In this edition of the CIRCLE newsletter...

- **THE EUROVÉLOROUTE V4** 04
- **THE OSTRÉAPOLIS PROJECT** 05
- **THE PILOTE SITE IN THE UK** 06
- **THE CLOSING EVENT** 07
- **DISSEMINATION OF THE CIRCLE PROJECT** 08
- **ACKNOWLEDGEMENTS** 09



The CIRCLE project is financed by the European Regional Development Fund (ERDF) via the INTERREG VIA F(C)E programme to the tune of 1.9 million euros over a 3-year period.



L'EUROVÉLOROUTE V4

In the June 2022 edition, we focused on the Eurovéloroute V4 pilot site.

Implementation had begun and an event was organised to mark the start of work on the first pilot site of the CIRCLE project.

Good news!

Despite delays due to high temperatures and storms in the summer of 2022, the work was completed in December 2022.



Portions of the Eurovéloroute V4 in Groffliers.

Picture credit: Communauté d'Agglomération des 2 Baies en Montreuillois (CA2BM)

First feedbacks

The finished look of the concrete is appreciated as we can see the shell.

Cyclists have expressed their feelings about the renovation of this cycle path made with CIRCLE concrete.

The feedback was positive: no inconvenience to bicycle tyres from the deactivation of the concrete.

Not only cyclists are satisfied, but also skaters use this section of the Eurovéloroute with CIRCLE concrete.



Cyclists travelling on the section of the Eurovéloroute V4 implemented with CIRCLE concrete.

Picture credit: Communauté d'Agglomération des 2 Baies en Montreuillois (CA2BM)

THE OSTRÉAPOLIS PROJECT

On the Ostréapolis pilot site of Golfe du Morbihan Vannes Agglomération (GMVA), the pouring of shell concrete based on oyster shells has started.

In January 2023, the shell concrete was poured on three test planks on a total surface of 20 m², with 3 different colours (light grey, grey and ochre).



*Photograph of the three test boards with zoom (right) of the ochre board chosen for the rest of the work.
Picture credit: Golfe du Morbihan Vannes Agglomération (GMVA)*

On the proposal of the project management team, GMVA, as project owner, has chosen shell concrete with an ochre tint for the exterior design of the Ostréapolis forecourt with a deactivated finish. This will be consistent with the other materials used in the works.

The application of the concrete will be carried out in two phases in line with the overall phasing of the site. The western part constitutes the picnic area and the pedestrian avenue with 270 m² of shell concrete. The eastern part consists of the building's surroundings with a forecourt and pedestrian path.

In total, more than 700 m² are instrumented with CIRCLE concrete made from oyster shells.



*Implementation of the Ostréapolis construction site forecourt.
Picture credit: BUILDERS Ecole d'ingénieurs*

PILOT SITE IN THE UK

The UK pilot site based in Preston has also made great progress since the last CIRCLE newsletter.

It was inaugurated at an event organised by partner UCLan on 19 December 2022.

This was an opportunity to present the CIRCLE project and to demonstrate the porous nature of the concrete developed in situ.

An audience composed of representatives of local authorities, industrialists, academics, etc. was invited.



Photos taken at the pilot site event at UCLan on 19 December 2022.

Picture credit: Karl Hopkinson - Hopkinson Photography

The CIRCLE project has aroused public curiosity and interest, particularly among local authorities wishing to become part of a circular economy dynamic.

In fact, the town of Blackpool (located in the North West of England), would like to implement CIRCLE concrete in the Hawes Side area. The site, which will be implemented at the end of April 2023, will not be part of the CIRCLE project, but it does promise good prospects for the development of cast-in-place shell concrete!



Hawes Side in the town of Blackpool (UK), a site that will experiment with CIRCLE concrete.

Picture credit: University of Central Lancashire (UCLan)

THE CLOSING EVENT

The CIRCLE project is now coming to an end. Indeed, the technical and communication activities will end on 31 March 2023.

This is why, on 28 February, the French and British partners met at Dunston Hall in Norwich for the final event organised by UEA (University of East Anglia).

This was the last opportunity to present the results of the CIRCLE project to a varied audience: local authorities, representatives of the Interreg FMA, water management agency, etc.

On the agenda:

- Formulations and monitoring
- Adaptation in the plant for the production of CIRCLE concrete
- UK pilot site and numerical modelling
- Pilot site of the Eurovéloroute V4
- Ostréapolis pilot site
- Business models



Presentations given at the final event of the CIRCLE project.

Picture credit: Will Fielding (<https://www.willfield.co.uk/>)

DISSEMINATION OF THE CIRCLE PROJECT

The end of the technical and communication activities is coming and this is the last opportunity for the project partners to present their results and answer questions from the public.

J'NOV 2023 (Caen, France) - March 11th, 2023

Each year, BUILDERS organises the J'NOV event to highlight the projects developed within the school to students, parents and professionals. The CIRCLE project was honoured to be represented.






Picture credit: BUILDERS Ecole d'ingénieurs

Informative webinars - March 16th and March 30th, 2023

In connection with the end of the project and the acquisition and interpretation of the results, two webinars will answer all your questions.


To facilitate the exchanges, one has been organised in French on 16 March and the second will be in English on 30 March at 4pm (registration link still valid [by clicking here](#)).

Webinaire d'information du 16 mars 2023

Contexte / Context

- Objectifs du projet / Project objectives:
 - Lutter contre l'imperméabilisation des sols en milieu urbain / Combating soil sealing in urban areas
 - Promouvoir l'économie circulaire en recyclant les co-produits coquilliers non valorisés / Promoting the circular economy by recycling non-reclaimed shellfish co-products
 - Réduire l'empreinte carbone grâce aux coquilles disponibles utilisées en remplacement des granulats naturels / Reducing the carbon footprint by using available shells instead of natural aggregates
 - Utiliser la technique "coulé en place" qui permet une facilité et rapidité de mise en oeuvre / Use the "cast-in-place" technique, which is quick and easy to implement
- Durée du projet : 33 mois – Octobre 2020 à Juin 2023 / Duration of the project: 33 months – October 2020 to June 2023
- Budget total du projet : 2.842 millions d'euros dont cofinancement FEDER via le programme Interreg F(M)A : 1.9 millions d'euros / Total budget of the project: 2.842 millions of euros including FEDER co-funding via Interreg F(C)E program: 1.9 millions of euros.



ACKNOWLEDGEMENTS

Thank you all!

This is the last issue of the CIRCLE newsletter.

The whole project team thanks you for following us for three years now.
We were delighted to send you the latest news and progress of the project.

You can find all the deliverables free of charge on the project website: <https://project-circle.eu/>

The main project contacts remain available for any further information.



Picture credit: Will Fielding (<https://www.willfield.co.uk/>)

*Thank
You*



<https://project-circle.eu/>