

Opening 1st PlasticRoad bike path in the world

Zwolle (NL), 12 September 2018

A world premiere in the Netherlands: the first PlasticRoad bike path was recently opened in Zwolle, Overijssel. Inventors of the PlasticRoad, Anne Koudstaal and Simon Jorritsma – together with Member of the Provincial Executive of Overijssel, Bert Boerman and Alderman William Dogger of the municipality of Zwolle, cycled the first bike path made from recycled plastic. The concept was presented three years ago by road construction company KWS (a Royal VolkerWessels company). Wavin and Total joined forces with KWS in 2016 to develop the concept into a product. A second PlasticRoad bike path pilot in Giethoorn, near the pilot location in Zwolle, will be opened in November.

The first PlasticRoad bike path is 30 meters long and is located next to Deventerstraatweg between Lindestraat and Verenigingstraat in Zwolle, the Netherlands. The 30 meters of plastic bike path contain recycled plastic equivalent to more than 218.000 plastic cups or 500.000 plastic bottle caps. The pilot location is equipped with sensors to monitor the road's performance – including temperature, the number of bike passages and the durability of the road. With these sensors, this PlasticRoad is the first smart bike path in the world.

Inventors of the PlasticRoad Anne Koudstaal and Simon Jorritsma: "This first pilot is a big step towards a sustainable and future-proof road made of recycled plastic waste. When we invented the concept, we didn't know how to build a PlasticRoad, now we know."

New destination for plastic waste

Worldwide, 350 million tons of plastic are used every year. However, the largest portion of plastic reaching end-of-life is still landfilled or incinerated. In Europe, all plastic applications together contain only 7% recycled plastic.* The PlasticRoad creates a high-value second life for plastic waste by recycling it and using it to build roads. In this way, the companies want to create a durable outlet for the excess of plastic waste of today. The PlasticRoad pilot in Zwolle is circular and made with a significant amount of recycled plastic. The end goal is to use 100% recycled plastic.

In addition to a possible solution for waste plastic, the PlasticRoad is a way to build roads faster, with less impact on the surroundings and with less CO₂ emissions. The prefab, modular elements make this possible. The hollow construction offers a solution for improved water drainage in the case of heavy rain fall.

Overijssel and Zwolle stimulate innovation

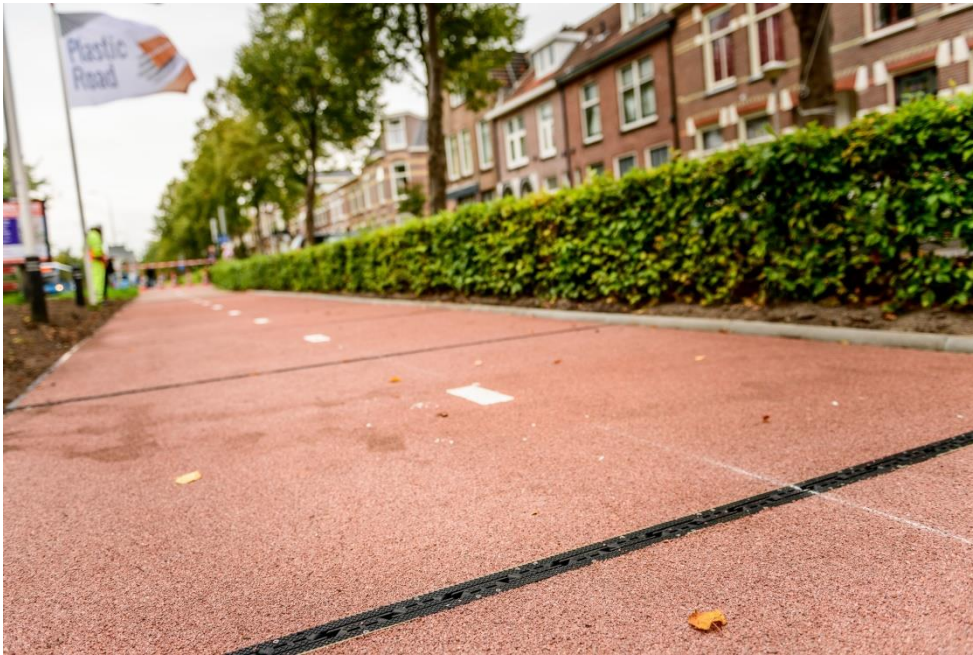
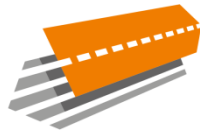
The province of Overijssel and the municipality of Zwolle see a great potential in the PlasticRoad as a solution for future challenges and ambitions. Consequently, they chose to team up to be the first customers for the first two pilots. By being the first customers, they hope to pave the way for this innovation to be brought into practice and tested for economic and technical feasibility. Both parties encourage entrepreneurs with innovative and sustainable ideas. With this project, both governmental parties are working towards a circular economy and a sustainable public space for the future.

Second pilot in Giethoorn (NL)

In November, a second pilot bike path will be installed in Giethoorn, Overijssel. The location of this bike path will test additional features of the PlasticRoad. With this second project, the results of both pilots will generate enough insights to apply and refine the PlasticRoad. In the meantime, the PlasticRoad partners are looking for new locations to launch subsequent pilots – to test other applications of the PlasticRoad, such as parking lots, train platforms and sidewalks.

* Source: Deloitte sustainability report 2017

end of press release



Opening 1st PlasticRoad bike path in the world.

For more information and images: www.plasticroad.eu

KWS / PlasticRoad: Kirsten de Graaf, Head of Communications via +31 611 007 911 or kdegraaf@kws.nl

Province of Overijssel: Petra Timmer, team Communications via +31 38 499 92 23. For urgent questions or outside office hours: +31 6 18 30 00 03

Municipality of Zwolle: Annemarie van der Lee, team Communications via +31 38 498 20 11 or a.van.der.lee@zwolle.nl

Total: Nancy van Heesewijk (EMG) via +31 164 317 018 or nvanheesewijk@emg-pr.com

About KWS

Roads and public spaces. Over land and water. Above and below the ground. Royal VolkerWessels company KWS designs, builds, maintains, manages and operates infrastructure. With eight local branches and several subsidiaries, participations and own equipment, KWS offers a range of disciplines close to the customer. From advice to asphalt production. From specialisms such as earthwork, sewerage and hydraulic engineering to small-scale work for municipalities and private individuals. As a market leader in road construction and asphalt production the company also works on extensive multidisciplinary projects in which they realize the complete infrastructure. Sustainable innovations such as PlasticRoad, the HERA system for recycled asphalt and luminous lines FloWithDGLow comes from the KWS sleeve. For more information, visit www.kws.nl.

About Wavin

Wavin is a leading supplier of plastic pipe systems and solutions. As one of the longest established names in the market, Wavin built its reputation on over 60 years of high quality and innovation. Wavin connects customers to better solutions for above and below ground projects in the following application areas: water management, heating and cooling, water and gas distribution, waste water drainage and datacom. Wavin headquarters are located in Zwolle, the Netherlands and has presence in more than 25 countries and about 30 manufacturing sites, mostly located in Europe. Wavin employs approximately 5000 people. www.wavin.com.

Wavin is a subsidiary of Mexichem: a global leader in plastic piping and one of the world's largest chemical and petrochemical companies. Mexichem contributes through the Fluor, Vinyl and Fluent Business Groups to global development by delivering an extended portfolio of products to high growth sectors such as infrastructure, housing, datacom and water management, among others. Wavin is part of Mexichem's Fluent Business Group, one of the biggest producers of plastic pipes and connections worldwide. www.mexichem.com.

About Total

Total is a global integrated energy producer and provider, a leading international oil and gas company, a major player in low-carbon energies. Our 98,000 employees are committed to better energy that is safer, cleaner, more efficient, more innovative and accessible to as many people as possible. As a responsible corporate citizen, we focus on ensuring that our operations in more than 130 countries worldwide consistently deliver economic, social and environmental benefits. www.total.com

Cautionary note

This press release, from which no legal consequences may be drawn, is for information purposes only. The entities in which TOTAL S.A. directly or indirectly owns investments are separate legal entities. TOTAL S.A. has no liability for their acts or omissions. In this document, the terms "Total" and "Total Group" are sometimes used for convenience where general references are made to TOTAL S.A. and/or its subsidiaries. Likewise, the words "we", "us" and "our" may also be used to refer to subsidiaries in general or to those who work for them.

This press release can be downloaded from www.polymers.total.com and www.PressReleaseFinder.com