<u>Winners of National Highways</u> <u>competition to help wipe out graffiti</u> are revealed

National Highways is on a mission to tackle the blight of graffiti by finding new products to remove graffiti but also potential solutions that will prevent the vandalism appearing in the first place.

A competition was launched to harvest innovative and modern solutions to the problem that continues to plague the road network.

Graffiti on bridges and next to roads can be distracting for drivers and the clean-up often requires lane or road closures, disrupting traffic. And it is costly — up to £10,000 to remove one instance of graffiti.

National Highways, formerly Highways England, has launched the competition with partners Kier and Connected Places Catapult to identify new solutions for dealing with graffiti.

More than a dozen companies submitted their concepts and products and the five most promising entries have now been announced. These winning ideas will each get up to £30,000 to spend taking their products forward.

The HausBots wall-climbing robot which can apply graffiti-preventative paints

National Highways Head of Innovation Annette Pass said:

We are very excited about taking forward these fascinating, innovative solutions that could help us tackle the relentless problem of graffiti which takes up time and money that would be better spent elsewhere on our network.

The standard of entries was very high and difficult decisions had to be made to whittle them down to a final five. But we are confident that as we develop these ideas further we will be able to identify modern solutions to this age-old problem.

The five winning ideas from the competition are:

Innovation Factory

Audio sensors will detect the application of graffiti in order to alert authorities and trigger audio and visual deterrents.

Sensing Feeling

AI software will analyse behaviour to detect vandals at graffiti hotspots and then deterrents such as alarms and lights can be activated.

HausBots

Wall-climbing robotics will be used to apply graffiti preventative paints, reducing the risk of such hazards as working at heights for the workforce.

Powerlase

This innovation will use lasers to remove graffiti from surfaces whilst preventing additional damage to the finish of surface coatings and films.

Nano Eco Group

A 3D chemical coating to prevent the adhesion of graffiti to a variety of surfaces and films.

Each of the winners will use the money to develop their idea and produce a feasibility study for National Highways which will then decide the most promising products to take forward for use on the road network.

Kier Head of Innovation Tom Tideswell said:

Tackling graffiti is an everyday labour-intensive occurrence for our maintenance teams and we are always on the look-out for innovative solutions to speed up the identification and reduce time on site removing graffiti.

Connected Places Catapult Technical Director Paul Bate said:

Connected Places Catapult are here to help UK companies with great new innovations and get them into the market. We've been really pleased at the quality of the applications and range of different technologies that these companies have brought to this competition. We're looking forward to seeing the outcome of all the feasibility studies and seeing which ones have the most promise for future use on National Highways' network.

The competition follows a recent trial of new solutions that took place over two days at an off-road site at Gravelly Hill Interchange — more commonly known as Spaghetti Junction — in Birmingham.

Three products or methods were tested to help identify those that most successfully remove graffiti quickly and safely whilst being eco-friendly. And there were another three trialled that go beyond coatings traditionally used to prevent graffiti appearing.

The aim of the trials was to evaluate the performance of newly identified products and increase the range of solutions available for use on the road network.

The cost of both initiatives has been met through the Innovation and Modernisation Designated Fund. This is a ringfenced National Highways fund dedicated to the exploration and adoption of modern and innovative working practices.

General enquiries

Members of the public should contact the National Highways customer contact centre on 0300 123 5000.

Media enquiries

Journalists should contact the National Highways press office on 0844 693 1448 and use the menu to speak to the most appropriate press officer.