

# Self-healing road surfacings with steel wool and inductionstaalwol en inductie, with Life Cycle Analysis

**Project title:**

**Project number:**

InfraQuest-2010-08, InfraQuest-2011-33, InfraQuest-2011-68

**Start date:**

1 December 2010

**End date:**

30 September 2012

**Project team:**

TU-Delft: Erik Schlangen, Martin van der Ven, Quantao Liu

Heijmans-Breijn: Gerbert van Bochove, Gerrit Akker

SGS-Intron: Jo van Montfort, Bas Bruins Slot

TNO: Dave van Vliet, Toon Ansems

DVS: Peter Thé

**Embedding in IQ-programme:**

The projects relates to the LVO-project (IQ2011-34, IQ2011-69), the project 'Self healing asphalt through additives' (IQ2011-35) and the project 'Pragmatic Healing' (IQ2010-07).

The project relates to the Masterplan 'Roads' (theme 1) and 'Materials' (Innovative materials & techniques for management and maintenance).

**Type of project:**

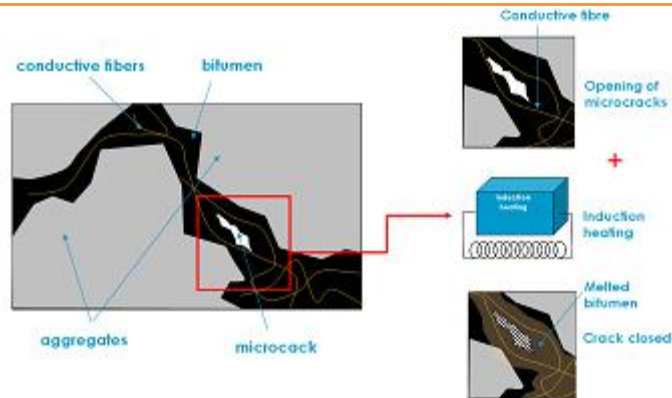
Fundamental concept

Integration & development

Validation of results

Product-in-context / valorisation

**Graphical abstract:**



**Research questions:**

- The project evaluates the performance of the self healing concept that is developed by TU-Delft, Heijmans-Breijn and SGS-Intron in a test section on road A58.
- The research will result in an advice when healing with induction energy should be applied on the test section.

**Conclusions:**

The project will lead to a better understanding of healing capacity of this special asphalt, on basis of which recommendations for optimization of the effect and its use in the engineering practice can be made.

**Other results:**

The project will also lead to more optimized asphalt mixed for porous layers. Future projects in the field would certainly benefit from this.

**Dissemination:**

The outcome of the research will be used as part of a PhD-thesis, publications in peer reviewed scientific journals, conference presentations and professional publications.

**Further information:**

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