Smartroad Tools™

An Early Warning System for Railway and Pavement Failure

KEYWORDS: ***railways, highways, airports, disasters***

We have a system to test and monitor railways, highways and other high-value earth-supported constructions for hidden damage.

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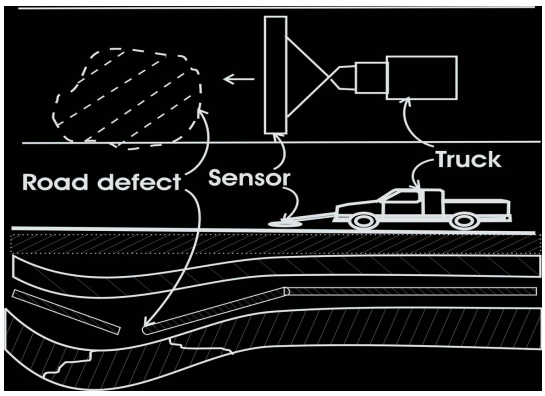
Railways, airport runways, and highways all consist of carefully designed and built layers which ultimately rest on an earthen subgrade. Over time erosion, nearby construction, weather, seismic activity and other causes can weaken or create gaps in this foundation. There may be no sign of this on the surface, until a collapse occurs. This collapse causes expenses for immediate repair, as well as direct and indirect costs to the surrounding communities due to disruption of transport and damage to buildings. In some cases there can be environmental damage or human casualties.



Previously has been no practical way to monitor the condition of the earth supporting the infrastructure. We have invented a "smart" material which can be embedded underground during construction or reconstruction, and which provides an easy-to-use and inexpensive means to verify the integrity of the underlying earth.

In addition to railways, this technology is applicable to roads and highways, tunnels, airport runways, and possibly to flood prevention levees and oil and gas pipelines.

Current Status

We have been awarded hardware patents from the U.S. Patent Office and the European Patent Office, and applications are pending under the Patent Cooperation Treaty in Asia. Research results, which were presented in several conferences during 2014-2019 in the U.S., Europe and Asia, support the practicality of this technology. Working prototypes have been created.

In March 2023 all operations from the Singapore company Heurika Geographics were taken over by the U.S. firm Goldin-Rudahl Systems, Inc.

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Our website ***www.smartroadtools.com*** (click on *News*) shows our current status. Please ask for more details or a prospectus.

contact: Kurt Rudahl (*ktr@goldin-rudahl.com*)

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