

HVSIA 2009

# HVSIA ONLINE PAVEMENT INFORMATION TOOLS FEEDBACK

3 to 5 November 2009



100  
1908 - 2008



UNIVERSITEIT VAN PRETORIA  
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# HVSIA online pavement information tools feedback

- Background
- Current status
- Recommendations



# Background

- 2008 decision
  - Follow up on commercial aspects of PI – no change
  - First cut information on PI



## Current status

- HVSIA first cut information
- WS sent a proposed content page to all – 21 September 2009
  - **Proposed contents**
    - HVSIA definition and history
    - HVSIA outputs
    - HVSIA contacts
- Limited feedback
- Positive
- Added to PI on 23 November 2009

# Current status





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## Welcome to Pavement Interactive!

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The online community for all things pavement containing over 521 articles and 3,580 files.

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an encyclopedia of pavement knowledge

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 **groups**  
work and collaborate with others online

 **help**  
where to get started and the how to

# Current status

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## HVS

HVS stands for Heavy Vehicle Simulator. It's a large piece of equipment that allows for repeated passage of a truck or aircraft wheel over a pavement, simulating the action of many of such wheels from heavy vehicles. It is used in research to test pavement structures and roadway elements and their response to traffic. For more information visit the HVS International Alliance (HVSIA) or Dynatest.

There are HVS operating in - South Africa (Gautrans and CSIR) - California - Florida - U.S. Army Corp of Engineers - Sweden



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## HVSIA

### HVSIA definition and history

Although Accelerated Pavement Testing (APT) is generally recognized as one of the most effective methods of evaluating improvements in pavement design performance, it is expensive relative to other, typical pavement research activities. As a result, collaboration between APT programs, as well as other research efforts, is often discussed as a potential to improve the efficiency of APT research. The Heavy Vehicle Simulator International Alliance (HVSIA) (HVSIA) was formally organized in 2003, based on discussions initiated at the HVS workshop hosted by the Council for Scientific and Industrial Research (CSIR) and the Gauteng Department of Public Transport, Roads and Works (Gautrans) in South Africa in 2002. The intent of the workshop was for APT programs using the HVS to present information on their APT research, and to discuss the possibility of collaboration.

From this beginning the following HVS programs became members of the HVSIA:

- [Gautrans](#), through the South African [CSIR Built Environment group](#). The HVS was originally developed by CSIR in the late 1960s, and HVSs have been used for APT research in South Africa since the early 1970s.
- The [California Department of Transportation](#) through the [UC Pavement Research Center \(UCPRC\)](#) which has been using two HVS's since 1995
- The US Army Corps of Engineers, with the
  - [Engineering Research and Development Center \(ERDC\)](#) at Vicksburg, Mississippi, USA which began use of a larger version of the HVS for airfield related testing in late 1998, and
  - [Cold Regions Research Engineering Laboratory \(CRREL\)](#) at Hanover, New Hampshire, USA which began their HVS program in early 1997.
- The Nordic HVS program, ([VTI](#)) originally established by Finland and Sweden in 1998, and currently operated solely by Sweden.
- The Florida Department of Transportation ([FDOT](#)) which began HVS testing in 2002.
- India
- China

# Recommendations

- Keep presence for visibility

