





# Does Government/Industry sponsored research at Universities work?

 The Ministry of Transport Ontario established the Highway Infrastructure Innovation Funding Program (HIIFP) in 2003 to encourage and assist Ontario universities and colleges to pursue basic and applied graduate and graduate research in transport infrastructure.

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## Subject topics included

- Engineering Materials
- · Environment and Sustainability
- Highway Design
- Structures
- Construction
- Traffic Operations
- Intelligent Transportation Systems
- Geomatics
- Maintenance

## Was it worth while? • " Based on the FHWA definition, many of the projects that MTO has funded through partnership arrangements have proven to be demonstrably worthwhile by several measures. There is ample evidence that research benefits include cost savings and improvements to asset quality and longevity".4

NCHRP Report 610 Communicating the Value of Transportation Research



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#### CPD Seminars for Professional Engineers

- A minimum of 150 hours\* over a three year period
  - At least 50 hours which must relate to area(s) of practice
  - At least 10 hours must cover risk management
  - At least 15 hours must address business and management skills
  - \*This requirement is audited every five years

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	Surface Layer Strain (µє)	-254
	Surface Layer Temperature	28.8
	Surface Layer Moisture (%)	10.2
	Sub Base Layer Strain (µє)	-188
	Sub Base Layer Moisture (%)	9.8
	Air Temperature (° C)	19.6
	Surface Temperature (° C)	23.4
	Solar Radiation (W/m2)	497
	Solar Radiation (W/m2)	497 rsity of the ine Coast





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#### **Accelerated Pavement Testing**

- USC proposes to phase in an Accelerated Pavement Testing (APT) facility over the next three to five years.
- Moves are under way for a student project to design and build a test apparatus in association with the inventor.
- Site can be flooded using the resources of two lakes on the property and sites tested under water.
- We expect that the facility will test around 10 sites per year.

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Area allocated within USC Campus for APT facility



Charter to select relevant and innovative transport technology research

What do shareholders get for their money?

- A chance to dictate research directions
- Access to the latest technology
- Four places at University courses each year
- One test site of their choosing in years 1 to 4
- Fee free candidature for Higher Degree by Research

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### The Queensland Functional Pavement Centre (QFPC)

- Is a reality
  - Three of the five initiatives are in place
  - Approval processes including costing the APT site and instrumentation are under way
- USC is seeking Government and Industry partners to help finance the next steps

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