

Free ISWIM Webinar

Unlocking the Potential of WIM Data for Bridges

Thursday 16 May 2024

Online at: <https://ucd-ie.zoom.us/j/67965444055>

Meeting ID: 679 6544 4055



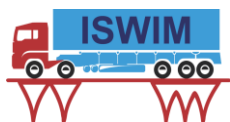
Picture courtesy of ZAG Slovenia

Weigh-in-Motion data is being increasingly used today by bridge engineers for a range of bridge-related applications. This free webinar, hosted by ISWIM and given by bridge experts from around the world, will describe some of these applications.

Eugene OBrien, from Research Driven Solutions and University College Dublin in Ireland, will introduce the topic and the range of bridge applications. Sylwia Stawska, from Modjeski and Masters Inc. in the United States, will describe how they use WIM data to provide site-specific traffic load models. Bernard Jacob from the University of Gustave Eiffel, will describe how they are using WIM systems to protect vulnerable bridges in France.

Gavin Hill will describe how Intelligent Access and Smart On-Board Mass systems have transformed heavy vehicle access arrangements in Australia. He will explain how the use of vehicle location, configuration and mass loading data can improve the lifecycle management of bridge infrastructure, while also improving freight productivity. Aleš Žnidarič, from the Slovenian National Building and Civil Engineering Institute, will show how WIM data can be used to optimize decision making for the rehabilitation of bridges in Slovenia. Finally, Heikki Lilja, Consulting Engineer, will describe how WIM data has been used to estimate the remaining fatigue lives of bridges in Finland.

These are just some of the bridge-related applications of WIM data, whether that data has been collected from Bridge WIM or conventional WIM technologies.



Detailed Webinar Schedule

Topic	Speaker	Eastern Time, USA	Central European Time
<i>WIM Data for Bridges – Introduction</i>	Eugene OBrien , PhD, Director, Research Driven Solutions, Ireland	10:00 – 10:10	15:00 – 15:10
<i>Development of site-specific bridge live load models</i>	Sylwia Stawska , PhD, PE, Bridge Engineer, Modjeski and Masters Inc., USA	10:10 – 10:25	15:10 – 15:25
<i>Using WIM data for bridge protection</i>	Bernard Jacob , University of Gustave Eiffel, France	10:30 – 10:50	15:30 – 15:50
<i>Using Intelligent Access to re-engineer bridges for heavy vehicles</i>	Gavin Hill , General Manager, Strategy and Delivery, Transport Certification Australia	10:55 – 11:10	15:55 – 16:10
<i>Using WIM data to optimise decisions on under-strength bridges – the Slovenian experience.</i>	Aleš Žnidarič , PhD, Director of Slovenian National Building and Civil Engineering Institute ZAG	11:15 – 11:30	16:15 – 16:30
<i>Fatigue – a client's perspective on the use of Bridge WIM data for remaining life prediction</i>	Heikki Lilja , Consulting Engineer, Finland	11:35 – 11:50	16:35 – 16:50

ISWIM brings together users, researchers, and vendors of systems for weighing in motion of vehicles. This includes systems installed in or under the road pavements, bridges, rail tracks and on board vehicles. Membership of ISWIM is free of charge for individual members.

The aims of ISWIM are to support the advances in Weigh-In-Motion technologies and the more widespread application of WIM systems and data.

This we do through: the organisation of international conferences, regional seminars and workshops, on WIM technology and applications, the support of international research and development projects on WIM and of developing standards relating to WIM and its applications. In addition through the publication of papers and articles in international magazines, the promotion of the application and use of WIM systems and data at exhibitions and trade fairs and providing a discussion forum on many aspects of WIM.

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