



INTERNATIONAL ROAD DYNAMICS INC.

# Weigh-in-Motion Systems for Bridge Protection and Bridge Traffic Data



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# PROTECT YOUR BRIDGE INFRASTRUCTURE



## Bridge Over-load Detection for Enforcement Agencies

Prevent damage to bridges from over-loaded vehicles using IRD's WIM (Weigh-in-Motion) systems. WIM technology plays a vital role by monitoring truck weights in advance of bridges and on the structures themselves. This is especially the case for bridges that are under a load restriction due to distress. Continual monitoring by enforcement agencies enables the rerouting of over-weight vehicles before they can do damage to bridges that are compromised, or that were built to support lighter vehicles.

- Identify over-weight vehicles approaching bridges
- Automated diversion of over-weight vehicles using message signs
- Photo capture of over-weight vehicles
- License plate number recognition
- Over-dimension and over-height detection integration
- Screening against safety databases

## Traffic Data for Loading Assessment by Bridge Experts

WIM sensors installed in advance of the bridge or on the bridge deck provide valuable data to assist in estimating the operational life of the bridge.

- Assess loading on bridges
- Monitor changes in traffic over time, including class and weight
- Discreetly collect unbiased data
- Continuous data collection (permanent installations)
- Temporary studies (portable/temporary systems)
- Live load monitoring
- Calculation of road damage
- Calculation of ESAL



**More than 151,000 bridges or 24.9% were classified as either structurally deficient or functionally obsolete in the United States in 2012.**

*Source: 2013 ASCE Report Card*





# We make highways talk™

International Road Dynamics Inc. (IRD) is a highway traffic management technology company specializing in supplying products and systems to the global Intelligent Transportation Systems (ITS) industry. IRD is a North American company with sales and service offices throughout Canada, the United States, Latin America, India and China.

With more than 30 years of experience, IRD is a multi-discipline company offering proprietary technologies that include automated truck weigh station systems, Virtual Weigh-In-Motion systems, advanced traffic control, management and data collection systems, automated toll road systems, and in-vehicle driver monitoring systems. The Company supports its products and solutions with long-term service and maintenance contracts.

IRD has installed its world-leading ITS solutions in countries around the globe, and currently has the world's largest installed base of Weigh-In-Motion with a growing presence in other related ITS applications and markets.



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Publicly Traded on the TSX (Symbol IRD)

Find out more about IRD on our website: [www.irdinc.com](http://www.irdinc.com)

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AUG 2013, REV B  
PRINTED IN CANADA

