



**ISWIM Weigh-In-Motion Workshop,
 Thursday 12 July 2018, 08:30 – 17:00
 CSIR Convention Centre, Pretoria, South Africa**

Notes.

As part of the 37th annual Southern African Transport Conference (SATC) the International Society for Weigh-In-Motion (ISWIM) has organized a Weigh-In-Motion Workshop. The objective of this Weigh-In-Motion workshop was to offer an international overview of the latest developments in the applications of WIM technology. The programme consisted of a mix of presentations on the latest developments in the use of weigh in motion systems by key note speakers from around the world and concrete examples of successful implementations of WIM systems by a number of ISWIM vendors. The workshop had more than 50 participants mainly from South Africa and a few from other southern African countries that saw a total of 12 presentations:

1. The workshop started with a presentation by Louw Kannemeyer the Engineering Executive of SANRAL on the “Use of WIM in Southern Africa, Current and Future”. The future included the development of new TMH Standards, the use of Tyre Contact Stress measurements and direct weight enforcement.
2. Second Hans van Loo from Corner Stone International presented on behalf of the ISWIM a general global overview of the status quo of the “Applications & Developments of WIM systems” showing current applications of WIM from ISWIM vendors and developments going on in several countries around the world.
3. Clint Bower, manager of Intercomp showed the applications and performance results of “South American Applications of Strain Gauge Based WIM” installation including the measurement accuracy that can be achieved with different sensor configurations.
4. Mike Hellens, Managing Director at Mikros Traffic Monitoring gave a presentation on the “N3 Speed over Distance integrated with Weigh-In-Motion” and on adding value to high speed WIM with intelligent enforcement processes.
5. Gustavo Otto, Project Manager at Labtrans, Federal University of Santa Catharina presented an overview of the “Applications and Developments of WIM in Brazil” including traffic data collection, pre-selection and DNIT’s plans for direct weight enforcement.
6. Stefan Daxberger, Solution Manager at Kapsch gave his views on “Commercial Vehicle Enforcement (CVE) as a solution for ITS enhancements” and an overview of Experiences & Results of various CVE projects in a number of countries including several examples of the use of WIM for direct weight enforcement.
7. Next Hans van Loo gave the presentation for Cock Oosterman, head of Certification at NMi Certin, on the development and implementation of the new “NMi WIM standard” based on the combination Legal Acceptance, System Approval and Data Quality Management.
8. Gerhard de Wet, Managing Director at Static Motion presented the “Calibration and Quality Management of WIM Data” in South Africa, describing the development, working, application and next steps of the Truck-Tractor-Method.
9. Gavin Hill, General Manager Strategic Development at Transport Certification Australia presented the “Experiences with On-Board Mass (OBM) Monitoring in Australia” especially the use of OBM Systems to collect and transmit data through the Intelligent Access Program (IAP).
10. Rish Malhotra, Vice President International Business at International Road Dynamics, showed the technology, applications and advantages of “Commercial Vehicle Screening for Anomalous Tires” and the integration in an Intelligent Maintenance Management Service.
11. Morris de Beer Principal Researcher at CSIR Built Environment closed the workshop with his presentation on “Mechanistic Design Optimisation of Thin Asphalt Surfacing using measured non-uniform Tyre-Road contact and incorporating rectangular contact shapes and layer cross-anisotropy”.