



**ISWIM Weigh-In-Motion Workshop,
Thursday 10 July 2025, 09:00 – 17:00**
CSIR Convention Centre, Pretoria, South Africa

Summary.

As part of the 43th 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. Special focus of the workshop was on SANRAL's initiative for the implementation of WIM for direct weight enforcement (WIME project). The programme consisted of a mix of presentations on the latest developments in South Africa and the rest of 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. The program consisted of 12 presentations and was completed with a panel discussion.

1. Deborah Walker from the Federal Highway Administration (FHWA) and president of ISWIM opened the workshop with a welcome to the workshop and short introduction of ISWIM.
2. Louw Kannemeyer the Engineering Executive of SANRAL kicked off the workshop with his presentation on "SANRAL's Use of WIM Data". He explained the need for WIM data for the construction and maintenance of SANRAL's road network. He showed the experiences from the Average Speed Over Distance (ASOD) project and concluded with the plans and possible challenges for the new WIME project.
3. Next Gerhard de Wet from Static Motion and project leader of the WIME project elaborated on the challenges facing the WIME project and what solutions could be found. This included issues like: WIM accuracy specification and testing, vehicle identification, strike rates and the payment of fines.
4. Concluding the first session was Michelle van der Walt, SANRAL's project manager of the WIME project with an introduction to overview of the objectives, phases and timeline of the WIME project. She concluded with the required system capacities and measurement performance (accuracy) for the WIM systems participating in the WIME Technology Trials.
5. After the refreshments Hans van Loo from Corner Stone International presented on behalf of the ISWIM a general global overview of the status quo of the "Implementation of WIM for direct enforcement". He explained the key elements needed for a successful implementation and gave recommendations based on international experience.
6. Next Rob Sik, Mr Mikros Traffic Monitoring gave a presentation on the "ASOD and WIM Pilot Project in Namibia". He showed the objective and organization of the project and how the system managed to meet the performance requirements specified for system certification.
7. Brendan Ezeanowi, international sales manager from Quarterhill spoke about "Strategies for Implementing WIM Systems for Direct Enforcement". He shared the company's experience with the implementation, verification, certification and operation of WIM systems.
8. Matija Mavric, Cestel's head of marketing and sales talked about "Protecting roads and bridges with bridge WIM". He explained the technology and applications of Bridge WIM systems and showed a number of practical use cases of their system from around the world.
9. In his presentation titled: "Effective Use of WIM Direct Enforcement" David Alumasa from CAMEA shared his company's world wide experience with the implementation of WIM. He talked in more detail about ways to address the road quality and to address weighing avoidance.
10. Matthew Butcher from Kistler Instrumente showed a video of his company's solutions for direct weight enforcement.

11. After lunch break Gustavo Otto, project manager at Labtrans presented an overview of the “Application of WIM for enforcement in Brazil”. He talked about the legal background for direct weight enforcement and the results of the pilot (Sandbox) project by the National Land Transport Agency (ANTT).
12. Eugene O'Brien from University College Dublin & RDS presented an overview of the use of “WIM for Direct Enforcement in Europe”. He focussed on the sources of the inaccuracy in WIM measurements, methods to control the measurement accuracy and concluded with an introduction of the EU SETO-project.
13. Tanvi Pandya from New York City Department of Transport concluded the session with her presentation on the “Implementation of WIM for Direct Weight Enforcement on the Brooklyn Queens Expressway”. She talked about the background, implementation stages, challenges, solutions and results of this project.
14. Finally the workshop was concluded by a panel discussion moderated by Hans van Loo and panellists: Michelle van de Walt, Tanvi Pandya, Paul Nordengen and Gerhard de Wet. They discussed various aspects of WIM for direct enforcement including: What are the main advantages, the most critical elements and challenges for the implementations.