

# ISWIM Webinar

## Fusion of WIM-data and Special Permits

Date: May 17, 2023

Time: 10:00 – 12:00 (EST) = 16:00 – 18:00 (CET)

Location: Virtual, access to ZOOM meeting via a link after registration

Audience: ISWIM members and others with an interest in the use of WIM data in combination with special permits for heavy vehicles

Costs: Free of charge, just registration needed

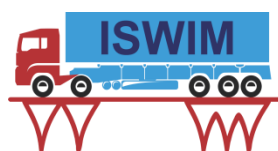
Registration: [https://univ-eiffel.zoom.us/meeting/register/tZcrcOyvpzksGtX1SIwtoX6KF61iJ7Wg1px\\_](https://univ-eiffel.zoom.us/meeting/register/tZcrcOyvpzksGtX1SIwtoX6KF61iJ7Wg1px_)

Organization: Debby Walker, Steven Jessberger, Andy Lees, Gavin Hill, Bernard Jacob and Hans van Loo.

### TOPIC

Internationally governmental authorities responsible for road transportation and road infrastructure collect data on (special) permits for heavy vehicles and measurement data from Weigh-In-Motion (WIM) systems. Rarely are these two unique data sources fused or used together for a better understanding of (route specific) freight transport. However, there are challenges in fusing these data together. This workshop will provide a forum to present specific data issues and approaches using the data to improve our knowledge of the freight network and roadway loading.

Objective of the data fusion is the combination of data on overloaded vehicles with a legal permit and vehicles that are considered overloaded based on the WIM data results. This fusion will help determine the number of 'truly' overloaded vehicles without any special permit, vehicles that are legally permitted to travel with a certain overload along specific roadways and vehicles that are in violation of their special permit. Fusion of permitted overloaded vehicles vs. those considered as overloaded based on WIM data can be applied in various areas like: the design and maintenance of road pavements and bridges, traffic safety, weight enforcement, freight transportation and logistics. All these areas can benefit from the resulting improved advanced knowledge of freight travel characteristics.



This workshop will include experiences from around the world (Europe, Americas and Australia) in using permit and WIM data to support detailed knowledge of roadway freight travel characteristics abroad. This webinar is based on the 2023 - TRB Workshop on: "Permit Vehicle and WIM Data Fusion to Improve Freight Knowledge".

## PROGRAM

Moderator: Steven Jessberger (FHWA, DC, USA)

1. **Hans van Loo** (Corner Stone Int., Switzerland) 5 min.
  - Welcome and introduction to webinar.
2. **Andrzej Nowak** (Auburn University, AL, USA) and Sylvia Stawska (Modjeski and Masters, AL, USA) 25 min.
  - Overview of permits and WIM
  - Filtering of permit and WIM data
3. **Dr. Hani Nassif** (Rutgers University, NJ and NY, USA) 25 min.
  - Current fusion practices advancing our knowledge of the freight traffic stream
4. **Bernard Jacob** (University Gustave Eiffel, France) 25 min.
  - International experiences in permits and WIM fusion
  - Applications for bridges, pavements, enforcement, freight corridors, congestion and safety
5. **Gavin Hill** (TCA, Australia) 25 min.
  - Economics of permits and WIM data fusion from the IAP (Intelligent Access Program) in Australia.
6. Discussion and Questions 15 min.

