

3rd International Seminar on Weigh-In-Motion
Optimising Road Freight Transport using WIM Data

Developments in Weigh-In-Motion

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ISWIM

International Society for Weigh in Motion

Corner
Stone

International

Sagl

Developments

- Sensors & Systems
- Applications
- Standardization
- Integration



Weigh Station by Mikros



Sensors & Systems

1. Digital Sensors

- Missing Tyres
- Tyre Pressure
- Road Safety



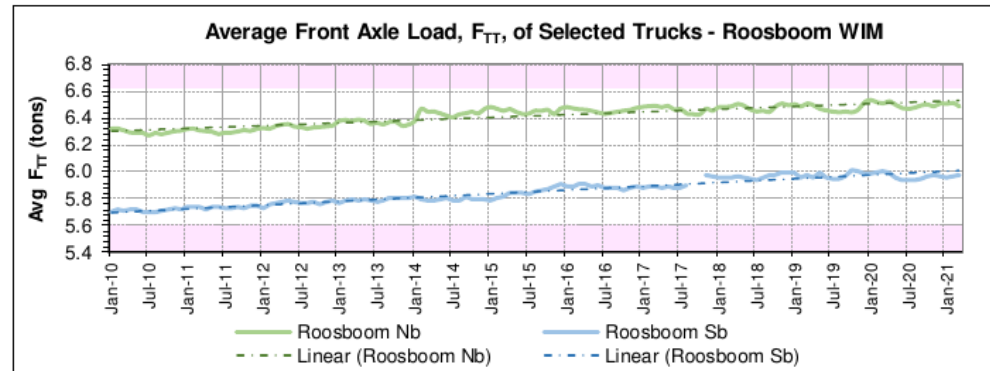
WIMTronic by CAMEA



TACS by IRD

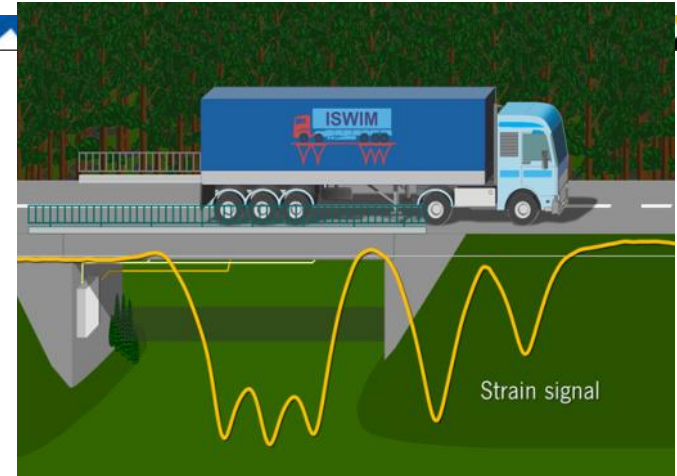
2. Advanced Systems

- Improved Accuracy
- Quality Control
- Quality Checks



Applications

1. Traffic Safety
2. Bridges
 - Bridge Protection
 - Strength Assessment
3. Direct Weight Enforcement
 - Implementations in Cz, Ru, Hu, B, NY/USA
 - Preparations in Ar, Br, F, D, NL, PL, SA



Bridge-WIM by Cestel

Strip Sensor by Intercomp



Standardiation

1. For Direct Enforcement

- Specifications & Approval

2. National Standards

- In: Cz, Ru, Hu, B, Ar, Br, F, D, NL, PL, SA, USA
- Risks for users & Problem for vendors

3. International

- OIML R134
- Not intended for HS-WIM

Traffic Monitoring by Q-free



System Integration

1. Combination of Technologies

- Different sensors
- Bridge-WIM + Road WIM

2. WIM a part of ITS

- Cameras (Overview & ANPR)
- Vehicle Identification (RFID)

3. On-Board + In-Road WIM

- Mutual Calibration



Traffic Monitoring by Q-free

Questions

Thank You

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