



# **Learning Outcomes**

- What is Weigh-in-Motion ?
- The Alaska WIM program
- What its used for
- Available WIM resources

0/20/2015

### What is Weigh in Motion?

 Weigh in motion (WIM) systems are designed to capture and record weights as vehicles drive over a measurement site. This makes the weighing process more efficient, and, in some applications can allow for trucks under the weight limit to bypass static scales or inspection.

10/20/2015



 Strain gauge based dynamic weighing system (measures bending)



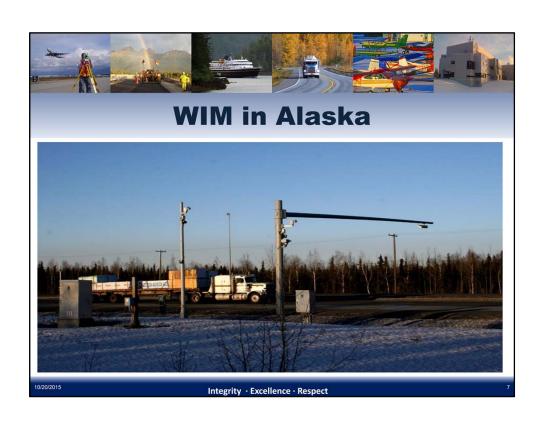


**Bending Plate WIM** 

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	Single Load Cell WIM	Bending Plate WIM
Low Speed	1-2%	2-3%
Medium Spee	d 3-5%	4-6%
High Speed	4-6%	5-8%



### **Alaska WIM Sites**

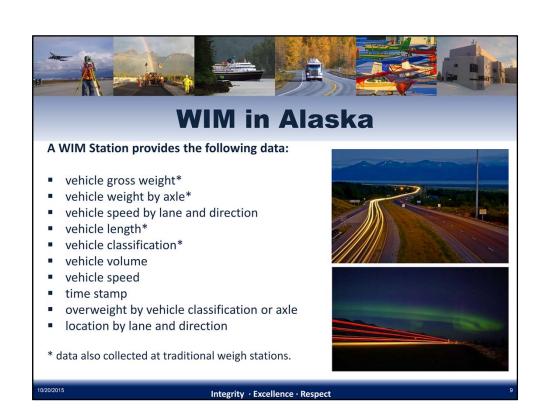
#### **Anchorage Area:**

- Minnesota Drive
- **Tudor Road**
- Seward Highway at 76th Steese Highway, Avenue Ramp
- Ocean Dock Road (Port Alaska Highway, of Anchorage)
- Glenn Highway, Milepost 9\*

#### **Other Areas:**

- · Glenn Highway, Milepost 53 (Palmer)
- Milepost 10 (Fox)
- Milepost 1310 (Tok)
- Sterling Highway (Soldotna)

<sup>\*</sup> At weigh station





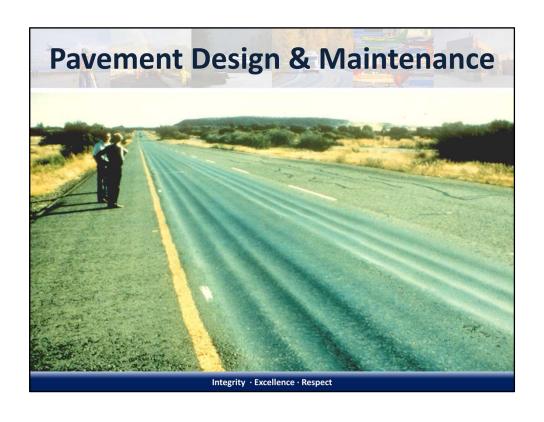
### What is WIM Used for ?

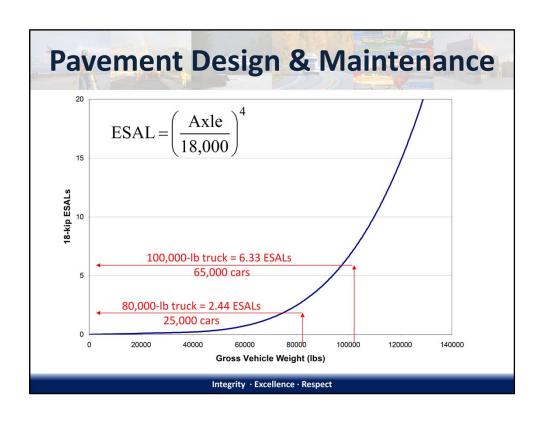
- Pavement design, monitoring, and research
- Bridge design, monitoring, and research
- Size and weight enforcement
- Planning
- Legislation and regulation

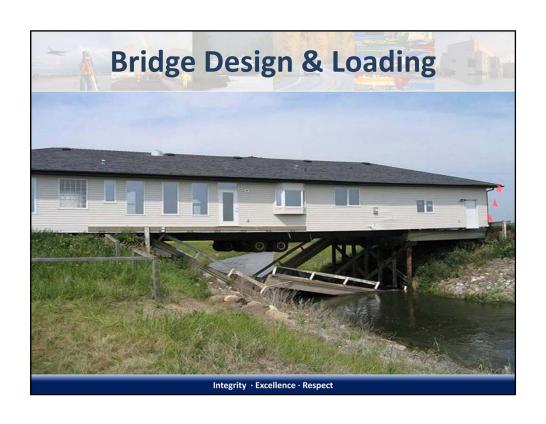
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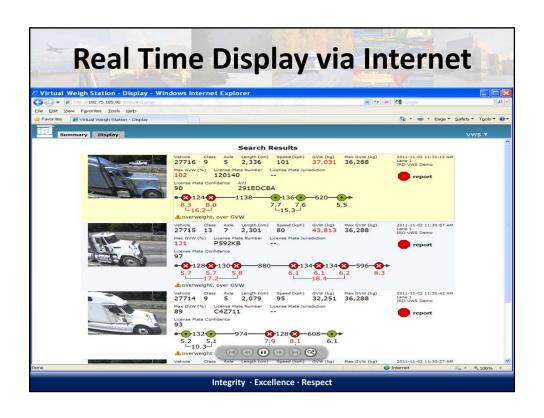
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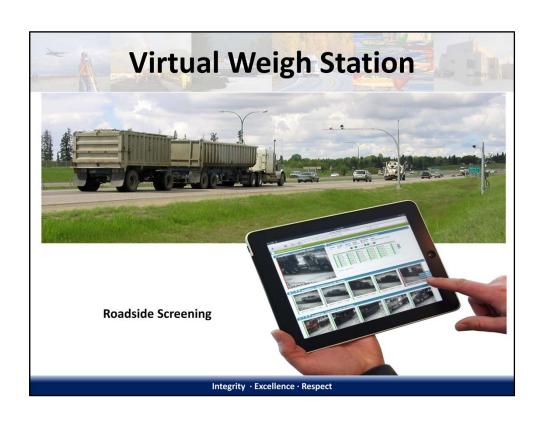












### **Planning**

- To calculate Average Annual Daily Traffic (AADT) volumes
- to meet federal reporting requirements (Travel Monitoring, HPMS, Performance Management Initiatives)
- to upload data into Federal Highway Administration (FHWA) Travel Monitoring Analysis Software (TMAS)
- Data will be available in the State's Traffic Monitoring System Alaska Traffic Server
- Travel Demand Modeling
- Freight Planning



## Weigh- in-Motion Data Resources

Alaska DOT
 http://www.dot.alaska.gov/stwdplng/transdata/traffic\_
 WIM.shtml

FHWA

VTRIS:http://www.fhwa.dot.gov/ohim/ohimvtis.cfm

Traffic Monitoring Guide:

http://www.fhwa.dot.gov/policyinformation/tmguide

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