

AN OVERVIEW OF FDOT'S MOTOR CARRIER SIZE AND WEIGHT PROGRAM

NORTHEAST FLORIDA FREIGHT MOVEMENT FORUM

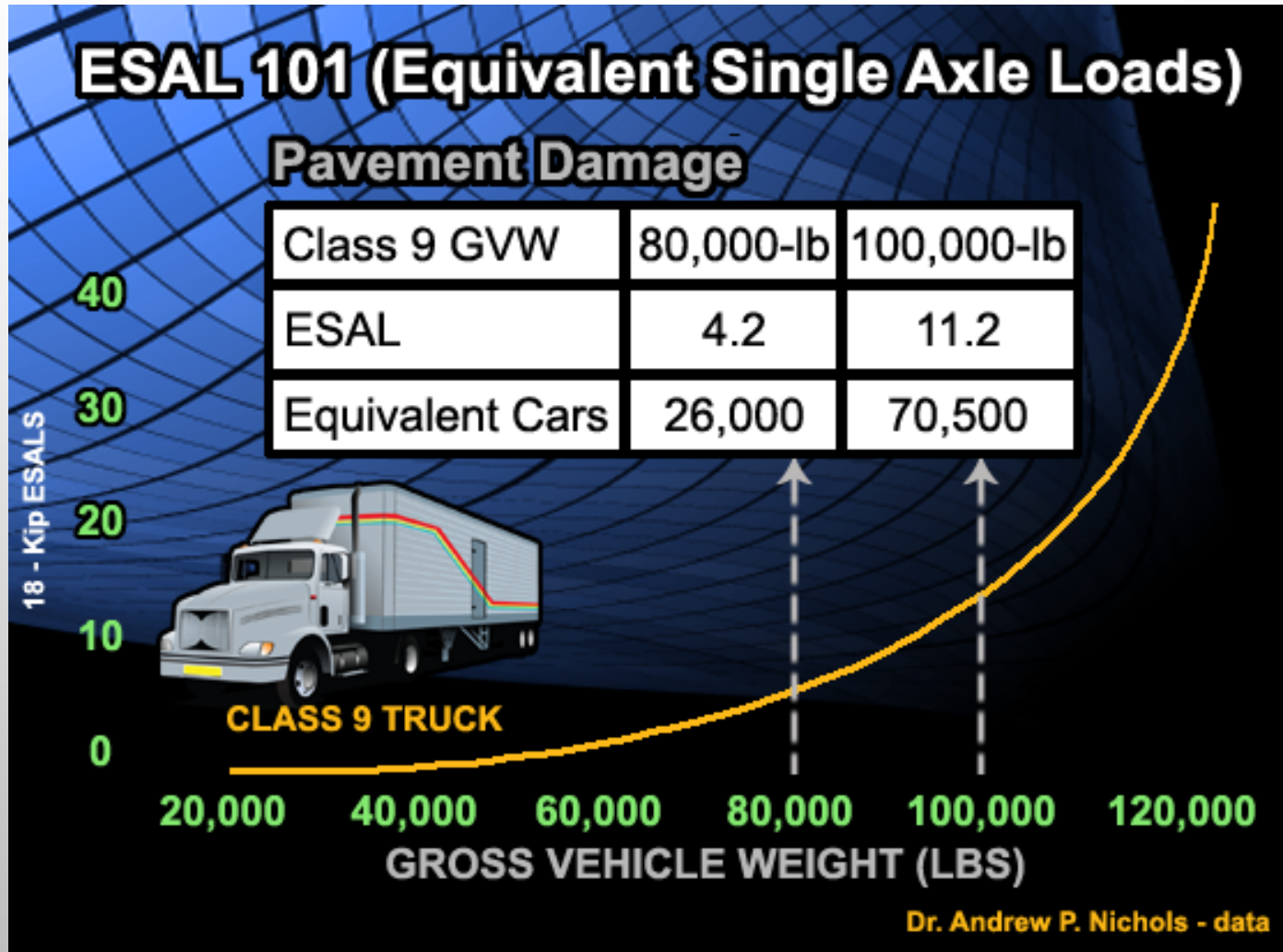
LAKE CITY, FL

JANUARY 25, 2017

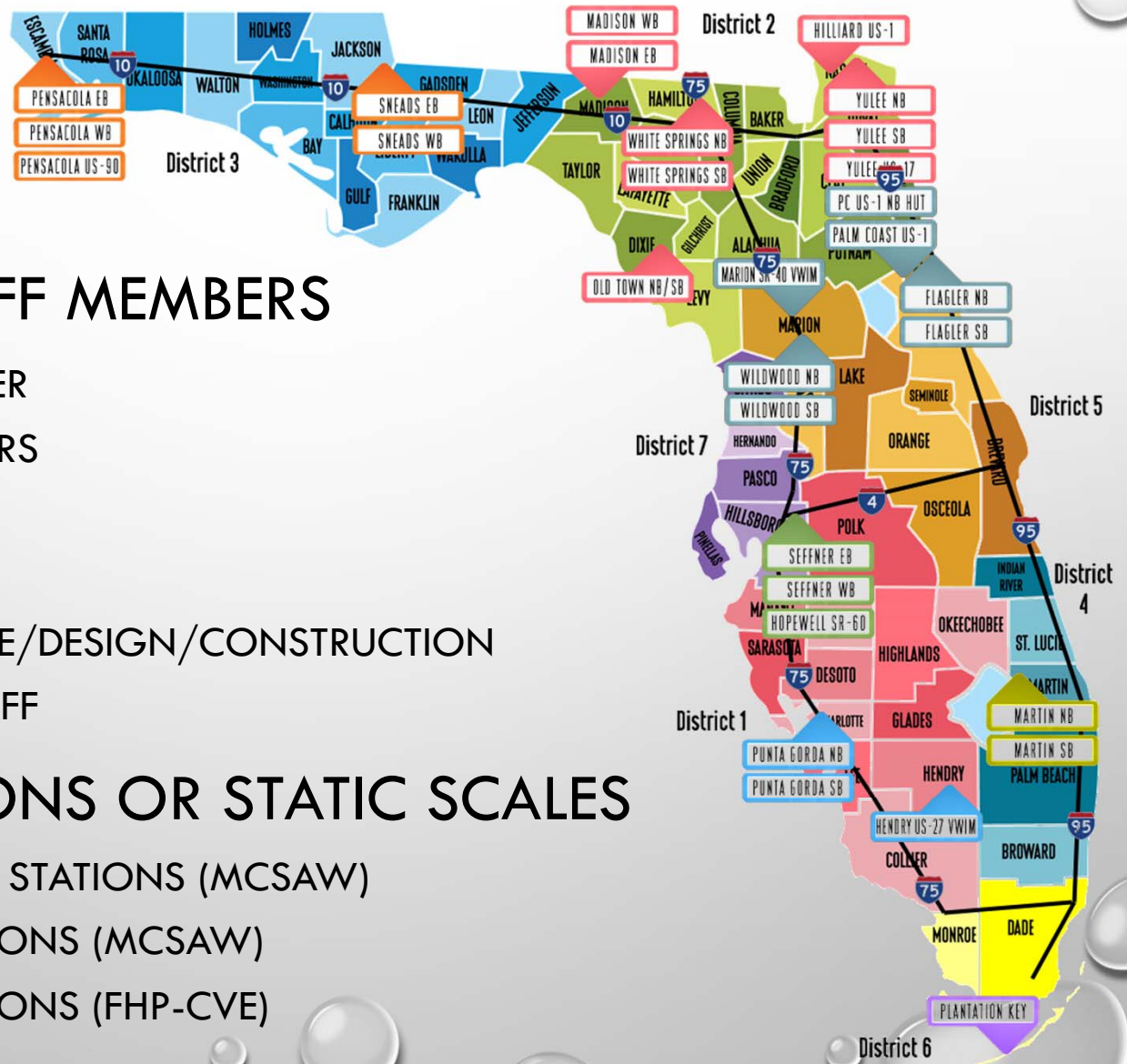
OVERVIEW

- WHY DO WE EXIST
 - BRIEF BACKGROUND
- WHO IS MOTOR CARRIER SIZE AND WEIGHT (MCSAW)
 - STAFF AND STATION MAKE UP
- WHAT DO WE DO
 - HOW MCSAW FUNCTIONS TODAY
- THE FUTURE
 - HOW DOES MCSAW KEEP UP WITH THE INCREASE IN COMMERCIAL VEHICLE TRAFFIC AND MAKE THINGS MORE EFFICIENT FOR THE INDUSTRY TOMORROW

WHY



WHO IS MCSAW



- **185 MCSAW STAFF MEMBERS**

- 1 STATEWIDE MANAGER
- 2 REGIONAL MANAGERS
- 12 SUPERVISORS
- 161 INSPECTORS
- 5 SCALE MAINTENANCE/DESIGN/CONSTRUCTION
- 4 ADMINISTRATIVE STAFF

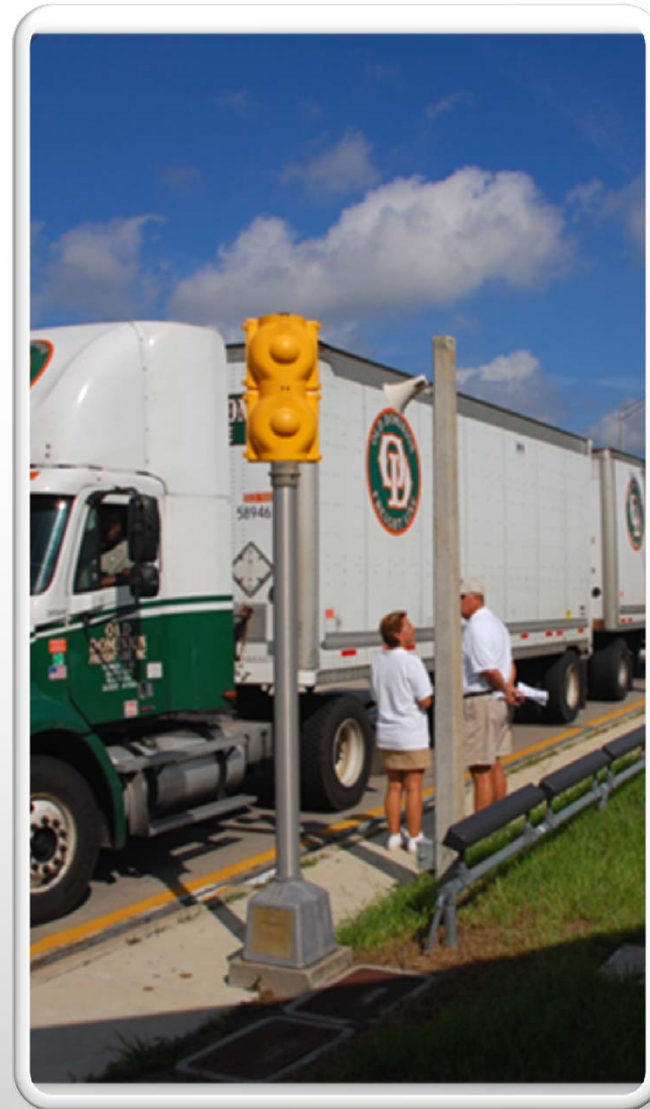
- **32 WEIGH STATIONS OR STATIC SCALES**

- 20 INTERSTATE WEIGH STATIONS (MCSAW)
- 7 STATIC WEIGH STATIONS (MCSAW)
- 5 STATIC WEIGH STATIONS (FHP-CVE)

WHAT

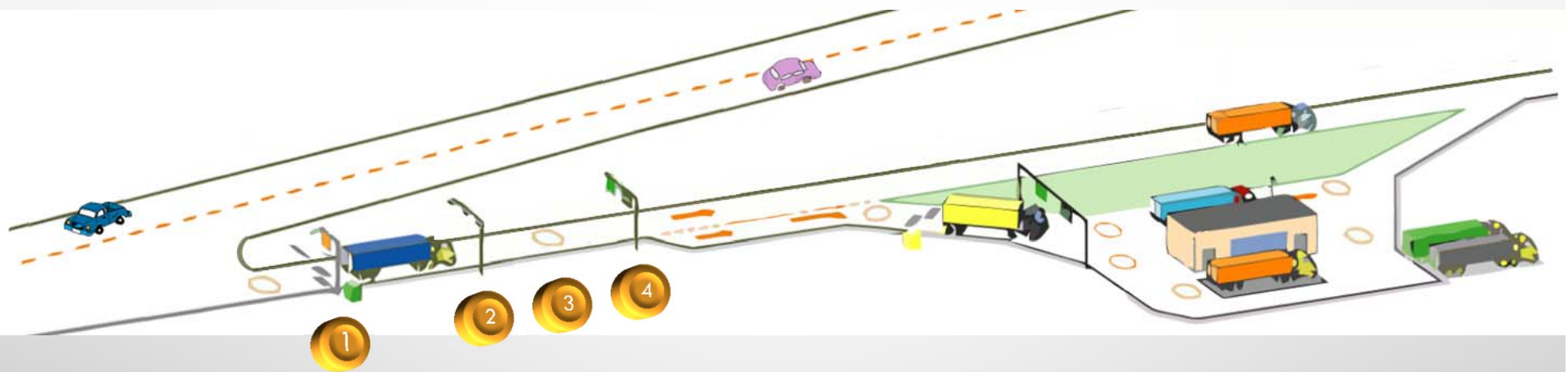
STATIC SCALES

- SINGLE STATIC SCALE
- EVERY TRUCK STOPS ON STATIC SCALE
- SLOW PROCESS, VERY INEFFICIENT



WHAT

WEIGH-IN-MOTION TECHNOLOGY



1

License Plate Reader, Overview and Sensors

2

3D Lasers – Vehicle Dimensioning System (VDIM)

3

Weigh in Motion Scales

4

Sort Signals

WHAT

WEIGH-IN-MOTION WEIGH STATIONS

- WEIGH-IN-MOTION SENSOR TO SORT TRUCK TRAFFIC AS IT ENTERS THE WEIGH STATION
- BYPASS LANE
- DUAL PLATFORM STATIC SCALES
- INCREASED CAPACITY
- INCREASED EFFICIENCY



WHAT

2015 OPERATIONS

- WEIGH-IN-MOTION WEIGHED 16.9 MILLION
- STATIC WEIGHED 6.9 MILLION
- ISSUED 36,317 WEIGHT CITATIONS
- ISSUED 10,064 PERMIT VIOLATION CITATIONS
- \$7.3 MILLION DOLLARS IN FINES AND FEES
- OVER \$46,000 PER WEIGHT INSPECTOR
- \$1.4 MILLION IN OVERDUE CITATION COLLECTIONS

THE FUTURE

SMART INTERCONNECTED WEIGH STATION SYSTEM

- THE DEPARTMENT IS RESEARCHING HOW TO INTERCONNECT SEVERAL SYSTEMS RELATING TO COMMERCIAL VEHICLES
- THE BENEFIT TO THE TRUCKING COMMUNITY WOULD BE HUGE
- THE FOLLOWING WILL PROVIDE A HIGH LEVEL OVERVIEW OF WHAT IS BEING EXPLORED.

THE FUTURE

SMART INTERCONNECTED WEIGH STATION SYSTEM

- AS A TRUCK ENTERS THE SCALES WE ALREADY KNOW THE FOLLOWING:
 - NUMBER OF AXLES AND SPACING
 - WEIGHT ON EACH AXLE/AXLE GROUP
 - OVERALL GROSS WEIGHT
 - LICENSE PLATE NUMBER
 - US DOT NUMBER

How do we use this
data more
effectively?

THE FUTURE

SMART INTERCONNECTED WEIGH STATION SYSTEM

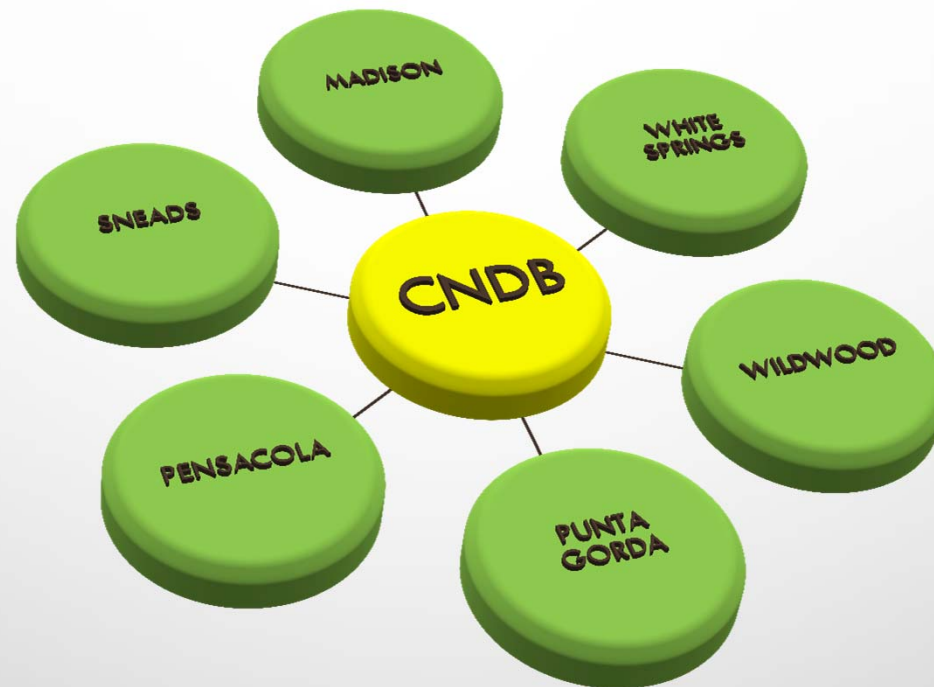
- THE DEPARTMENT IS LOOKING AT THE FOLLOWING:
 - HOW DO WE USE THE DATA TO BYPASS TRUCKS
 - ONCE THE VEHICLE WEIGHT IS VERIFIED IN THE SYSTEM ALLOW THE TRUCKS TO BYPASS ADDITIONAL WEIGH STATIONS AS LONG AS THEY ARE IN A CERTAIN WINDOW OF TIME
 - USE MAINLINE TECHNOLOGY TO PROCESS VEHICLES
 - USE MAINLINE WIMS, LPRS, AND USDOT READERS TO PROCESS VEHICLES AND MAKE SORT DECISIONS ON THE MAINLINE, KEEPING TRUCKS MOVING AT HIGHWAY SPEEDS

THE FUTURE

SMART INTERCONNECTED WEIGH STATION SYSTEM

- PRESENTLY PERMITTED LOADS ARE REQUIRED TO ENTER EVERY WEIGH STATION
- THE DEPARTMENT IS LOOKING AT THE FOLLOWING:
 - HOW CAN WE IDENTIFY PERMITTED LOADS ELECTRONICALLY
 - ONCE VALIDATED, FOR PERMIT CONDITIONS, HOW CAN WE BYPASS PERMITTED VEHICLES

QUESTIONS OR COMMENTS



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