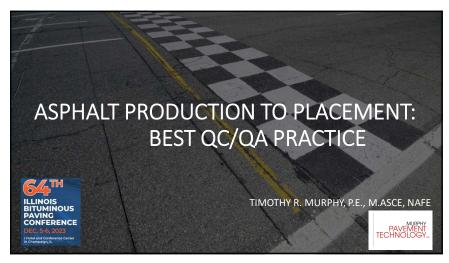
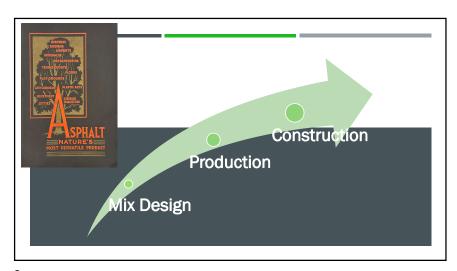
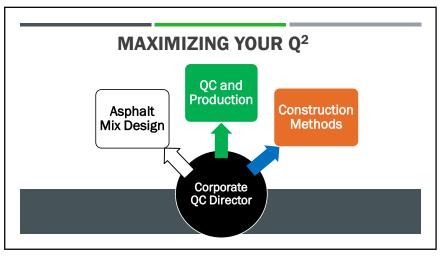
4





1





**CONTRACTOR 'DRILL DOWN'** 

**Immediate** 

е

QC

Plant & Yard

Construction

Equipment

Global

**Long Term** 

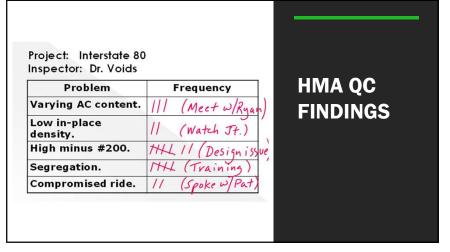
RAP & RAS Utilization

Relationship Building

MPT Action Items

J

6



**MURPHY'S TOP TEN LIST...** 

1. Stockpile management

6. The - tion's

2. RAP use and sizing

7. Truck inspection

3. Timing on start-up and transition mix

8. Bad material

4. Temperature throughout

9. Inventory and EOY

(thermodynamics)

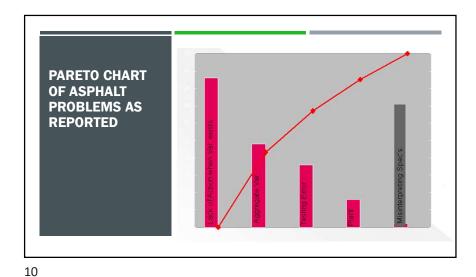
10. Plant tph required and hot-

5. Gob hopper / batcher

stops

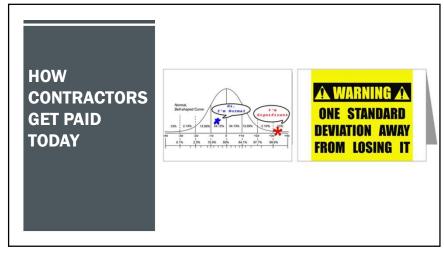
Overarching everything is...
Communication with QC



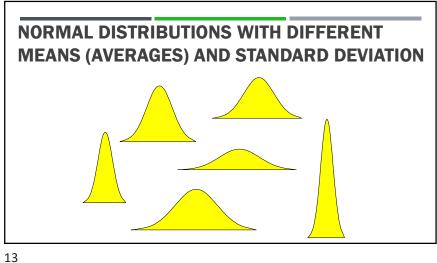


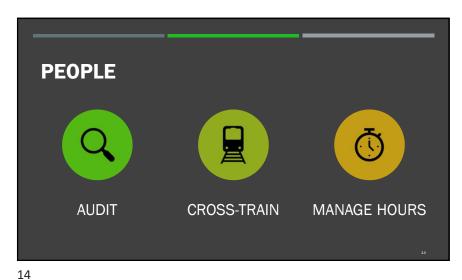
EFFICIENCY OF OPERATIONS
HMA ECONOMICS 101

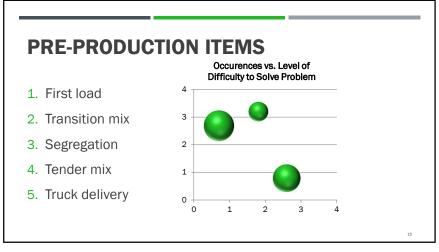
SAVING ON COSTS FOR NOTHING:
IS IT POSSIBLE?



11 12









15

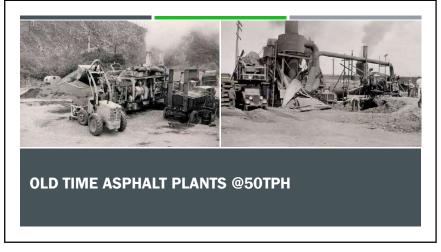
## **MATERIALS & MIX DESIGN**

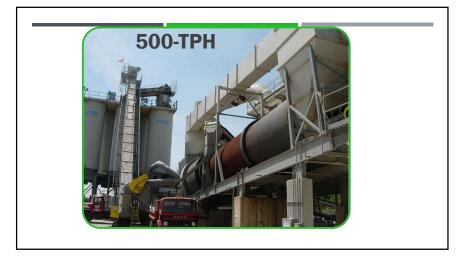
Utilize anticipated increase to the minus #200 (aka dust) during production within your mix design.

Why? Because Dust is the Devil!

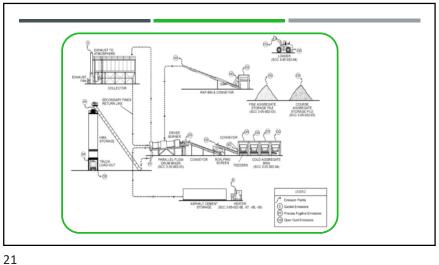
HOT MIX ASPHALT PLANT
MATERIALS, OPERATIONS, & HANDLING

17





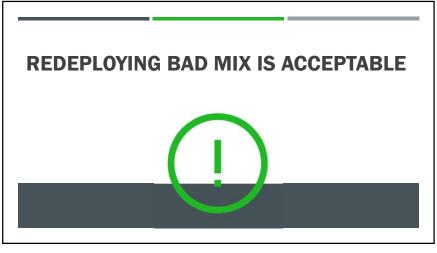
19











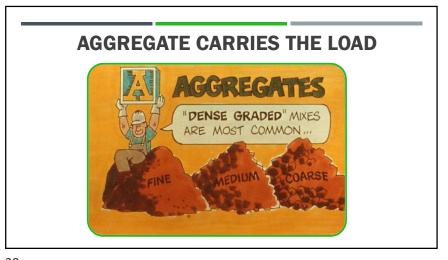
CALIBRATION IS KEY: CHANGES TO ANY CALIBRATIONS NEED TO BE RELAYED TO THE QC MANAGER

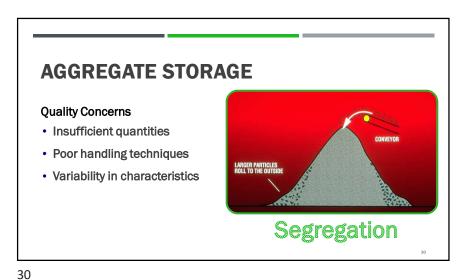
25 26



STOCKPILE
MANAGEMENT PLAYS A
LOT BIGGER ROLE THAN
MOST PEOPLE KNOW

27 28



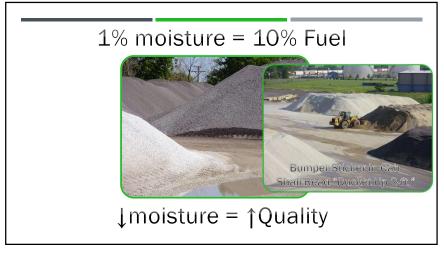


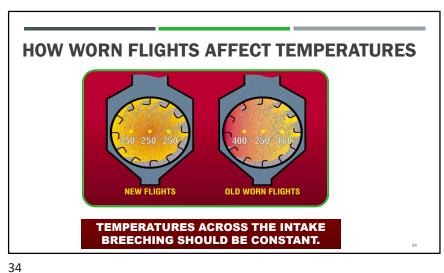
29





31





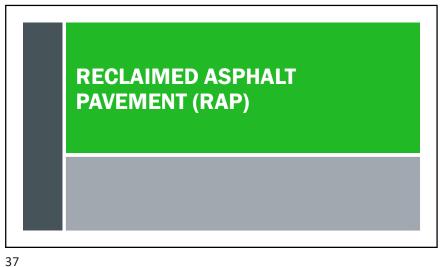
33





35

Murphy Pavement Technology, Inc.





**RECLAIMED ASPHALT STOCKPILES** 39

**DUST "ALL IN / ALL OUT"** 

Design is starting point,

High dust leads to 'new designs',

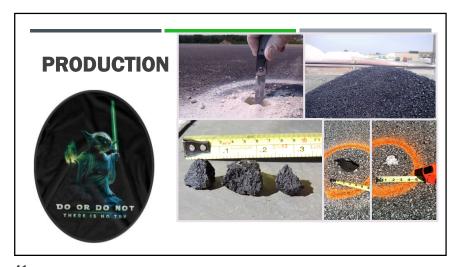
• Retrofit is baghouse to silo umbilical with blower.

Understanding the numbers.

40



Murphy Pavement Technology, Inc.





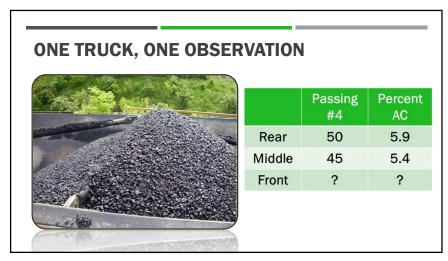
41



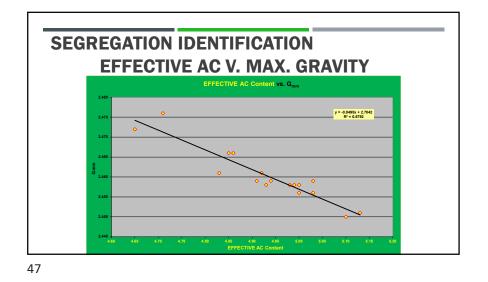


43





45 46



## $\blacksquare$ Look at trends and tendencies of both tests first; $\mathbf{G}_{\mathrm{mb}}$ and $\mathbf{G}_{\mathrm{mm}}.$

Review AC versus gradation.

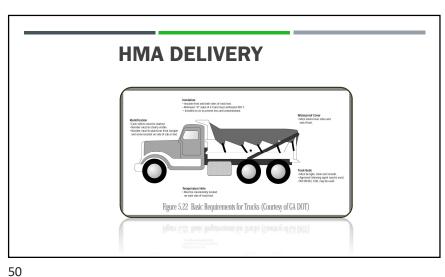
**MURPHY RULES** 

■ Train, cross-train, and repeat.

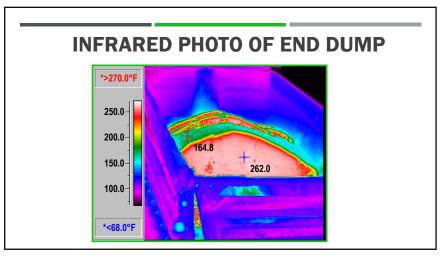
QC Manager must be kept in the know

48





49





51 52



## **FAT SPOTS IN PAVEMENT**

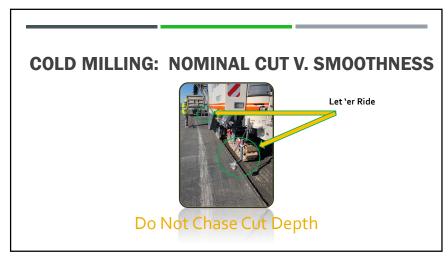
Issue

- Top half AC = 6.1%
- Bottom half AC = 4.8%

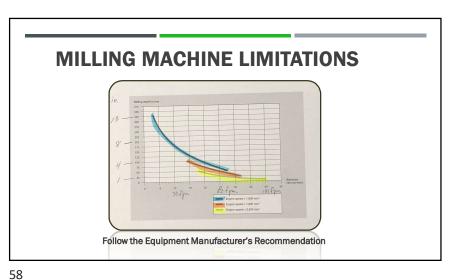
Solution: Eliminate steam build up in the MTV and watch release agent

54



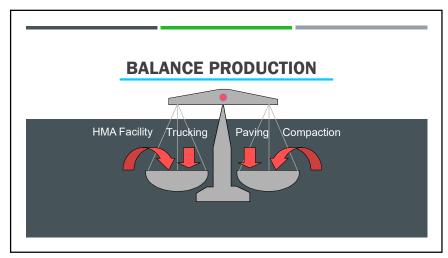






57





59

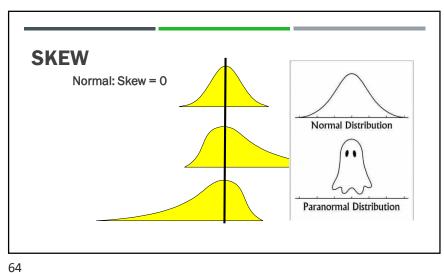
Murphy Pavement Technology, Inc.



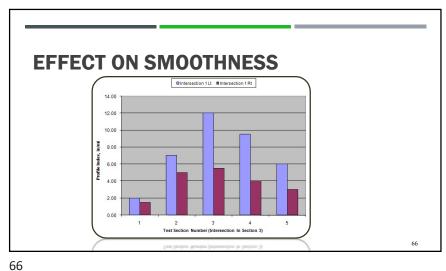


61









65



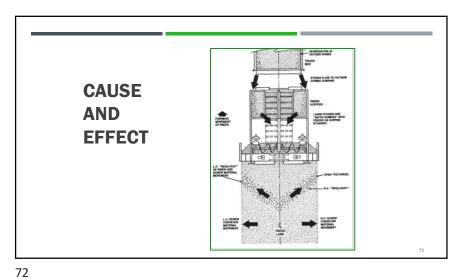


67

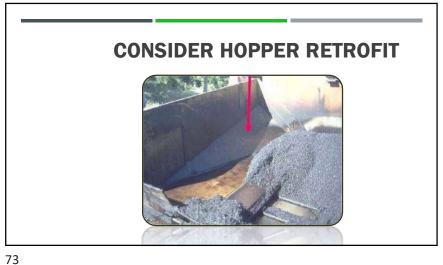


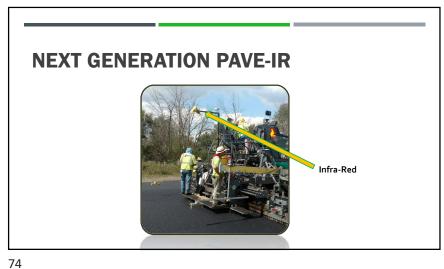


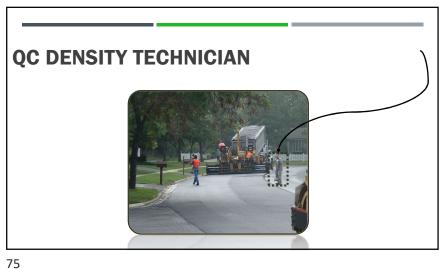




71







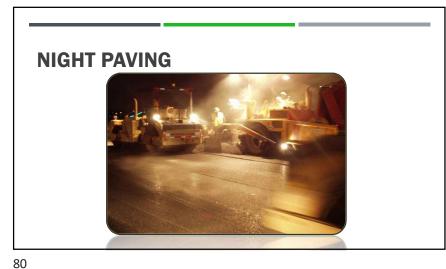






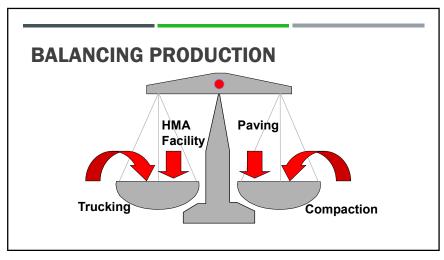
77





79

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81



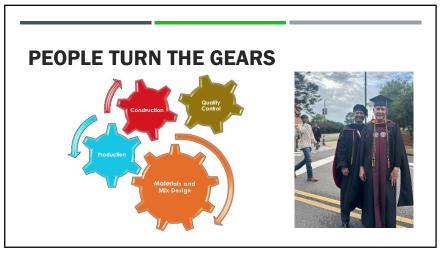
MAIN SOLUTION
FOR ACHIEVING
TOTAL QUALITY
MANAGEMENT

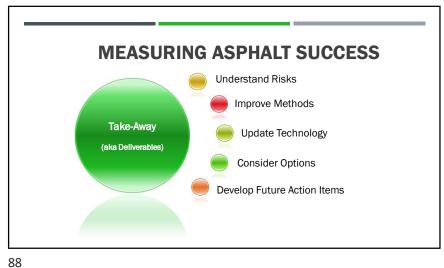
- COMMUNICATE
- DEVELOP CHEMISTRY
- ACCOUNTABILITY





85





87

