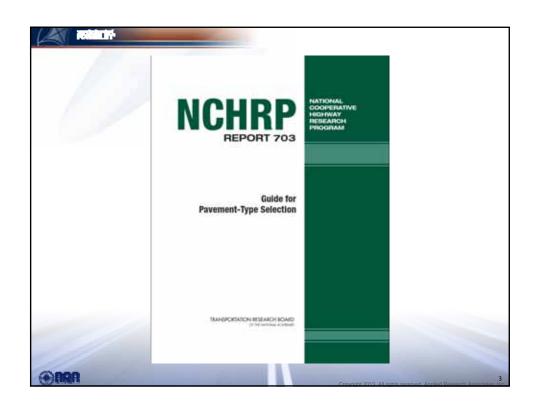
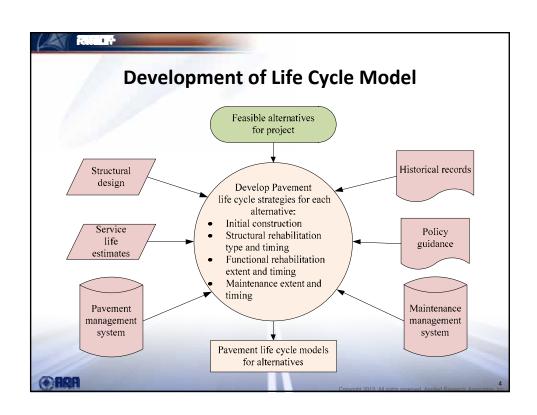
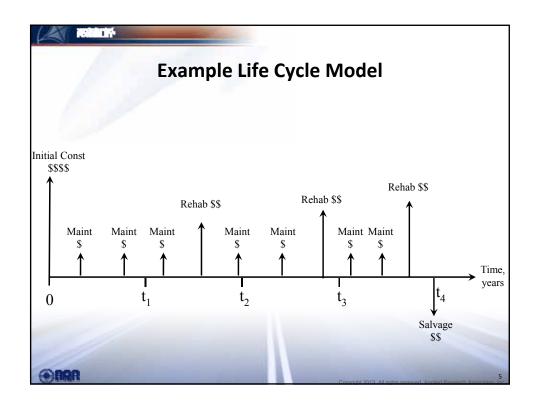


What we will cover Pavement Type Selection / Alternate Bid Pavement Design/Analysis Tools Asphalt Paving Field Actions and Impacts

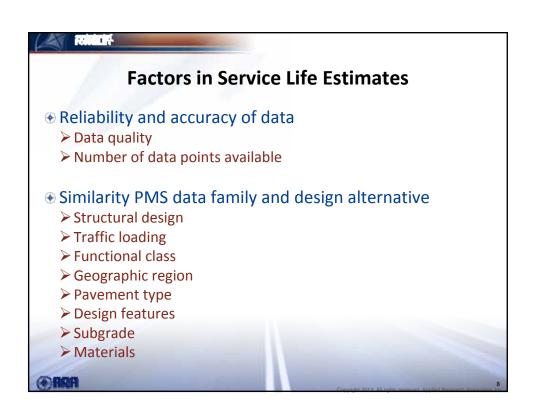


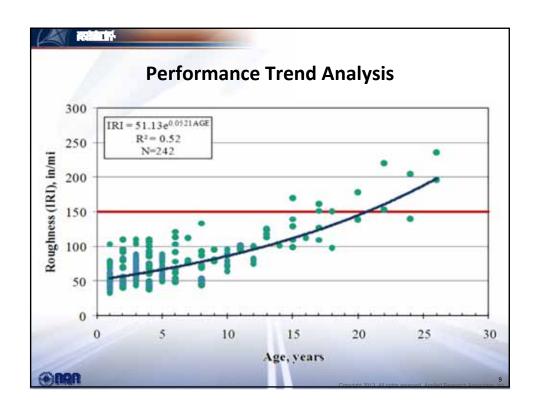


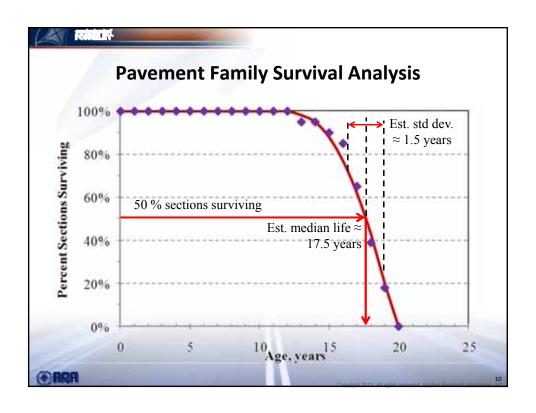


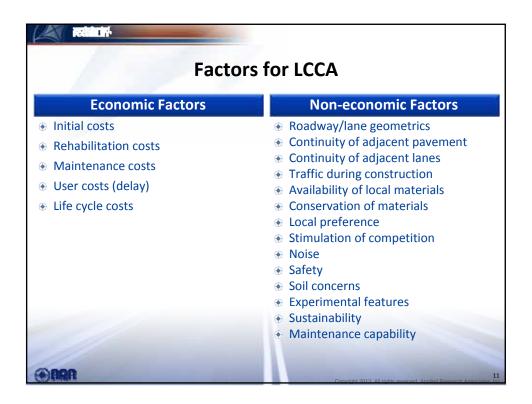


Service Life Estimates Historical data from pavement management systems Expert opinions Prone to biases and considered only when performance data are unavailable or are greatly limited Experience-based estimates in conjunction with data from other sources

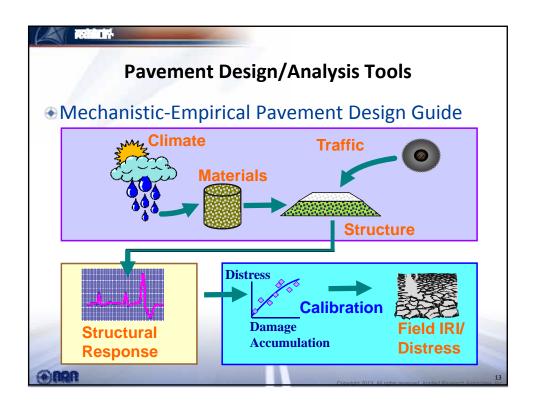


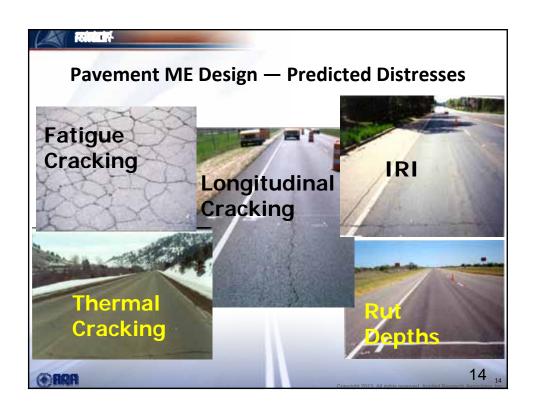


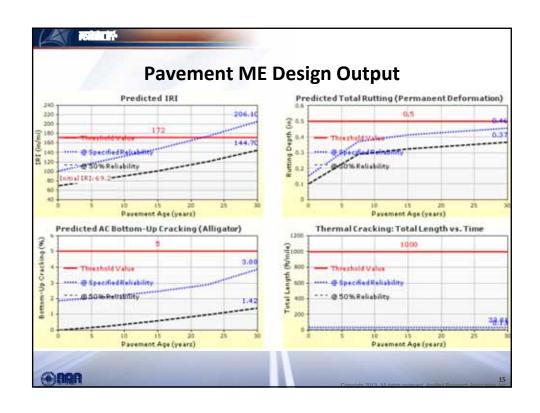






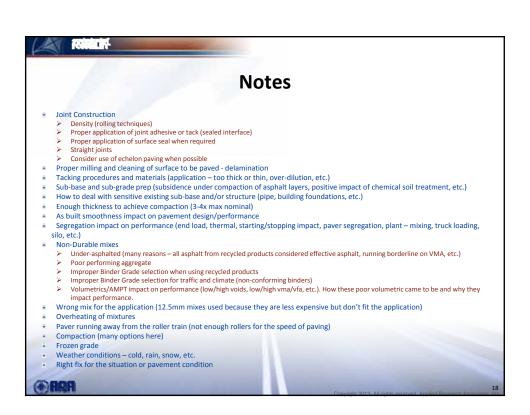


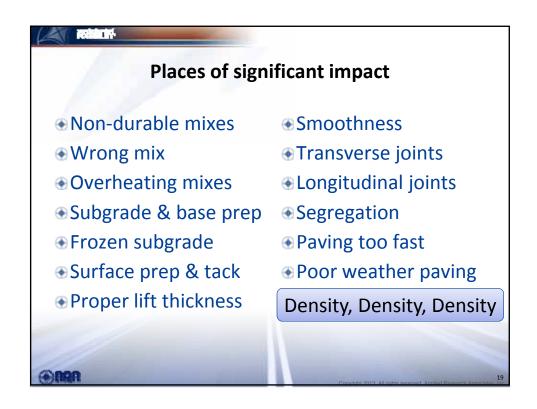






Field Actions and Impacts Some "short cuts" are taken in field Successful completion of this project Impacts reach way beyond this project



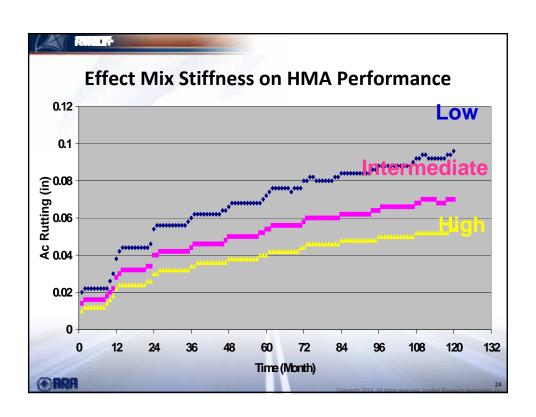


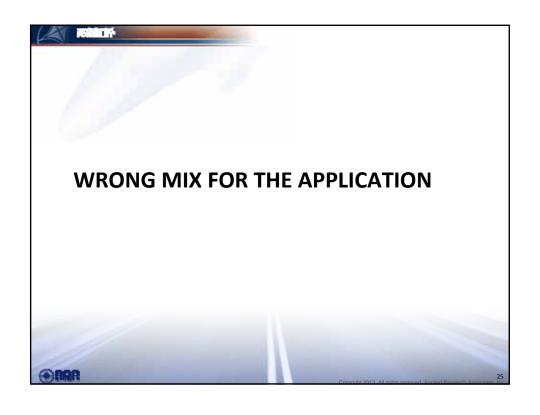


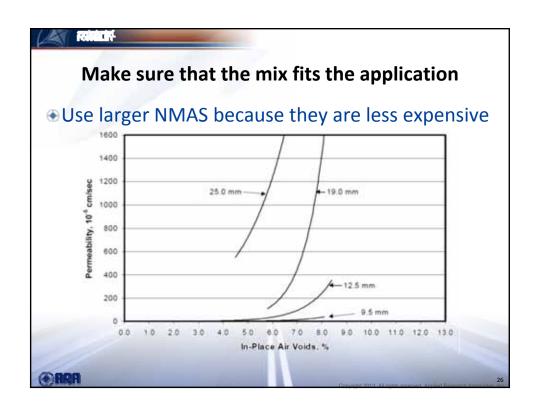
A number of key mix selection items Under-asphalted mixes all asphalt from recycled products considered effective asphalt, running borderline on VMA, etc. Poor performing aggregate Improper Binder Grade with recycled products Improper Binder Grade selection for traffic and climate (non-conforming binders) Volumetrics/AMPT impact on performance (low/high voids, low/high vma/vfa, etc.)



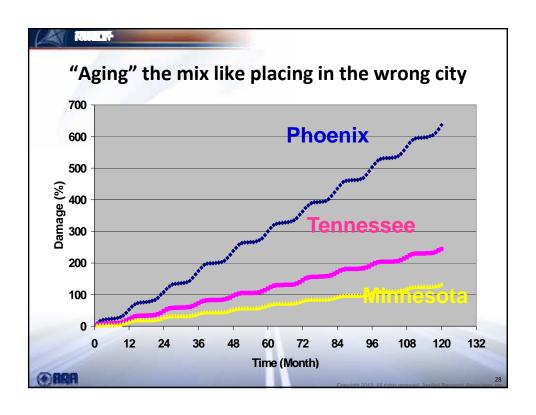


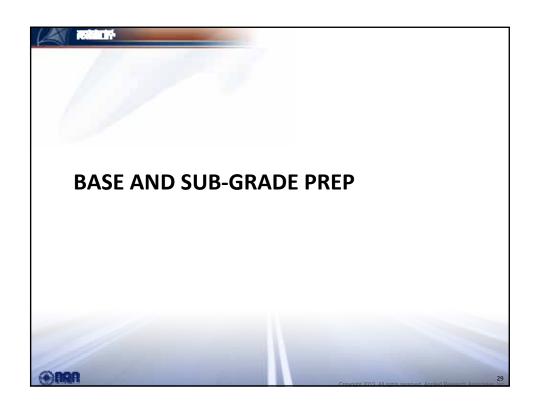






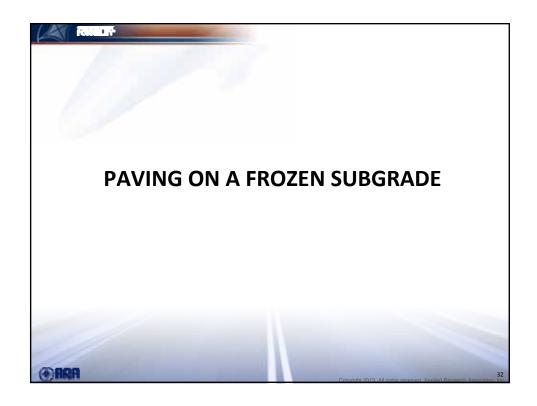


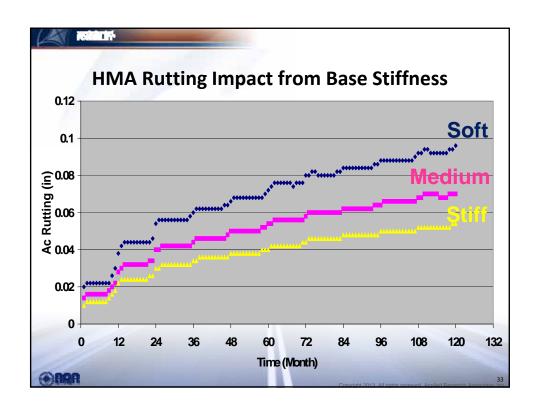


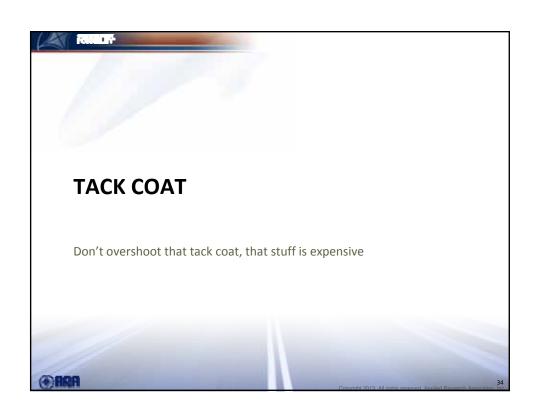


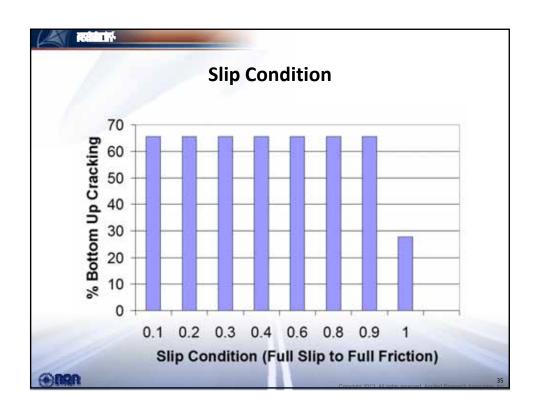


















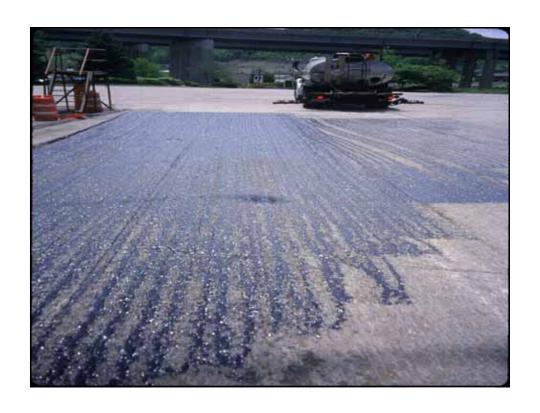








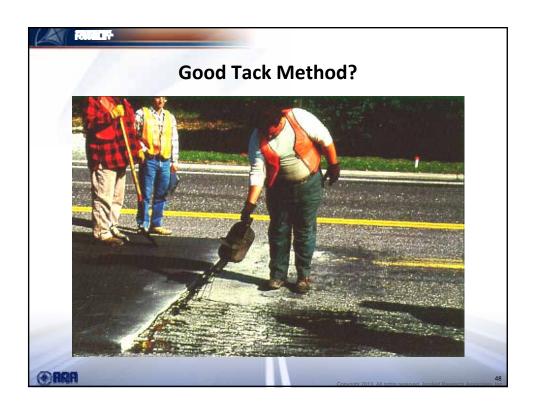




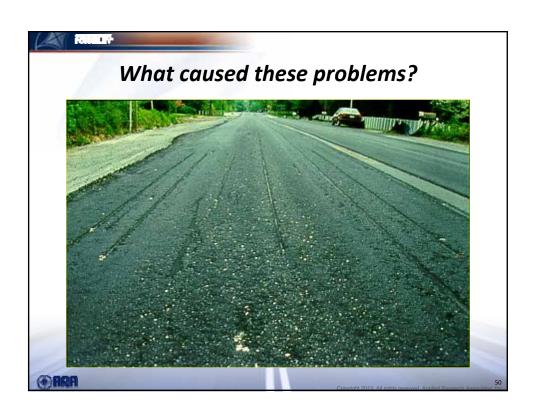


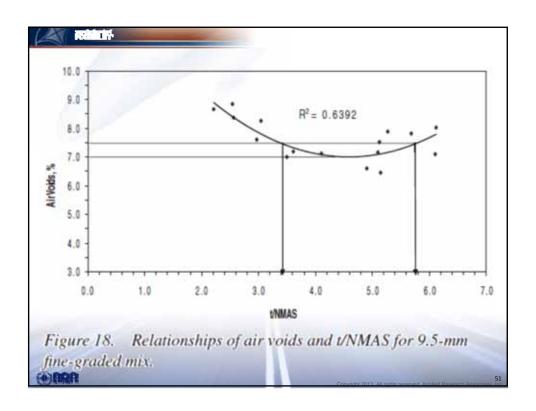


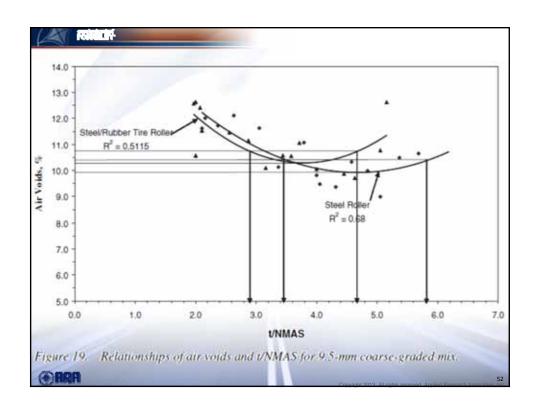


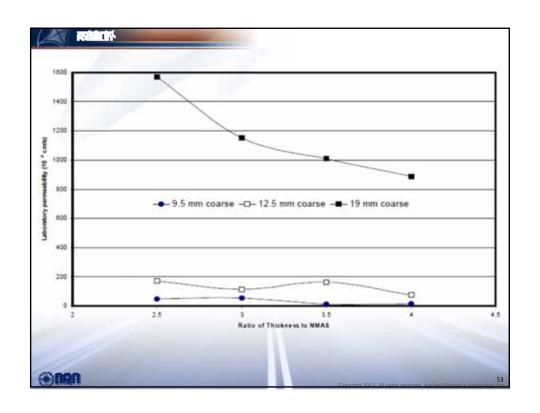


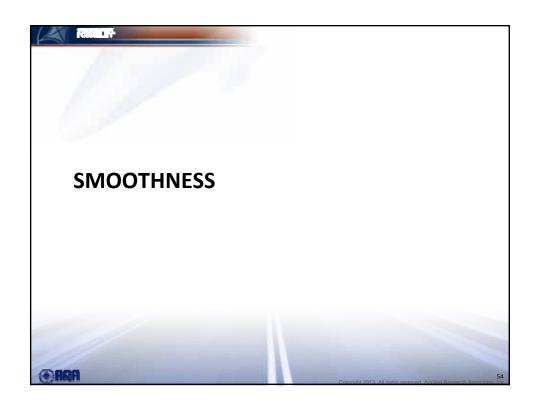


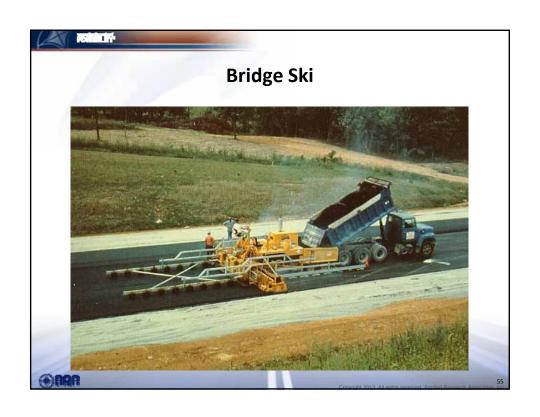


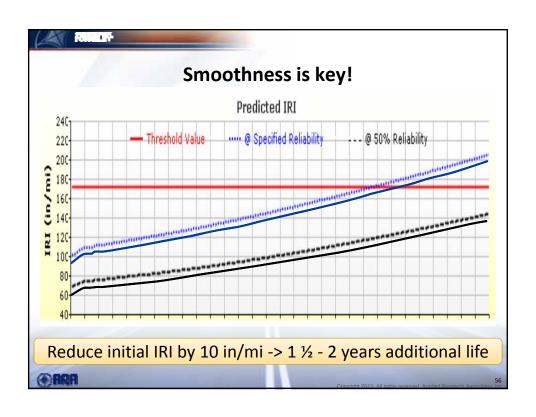


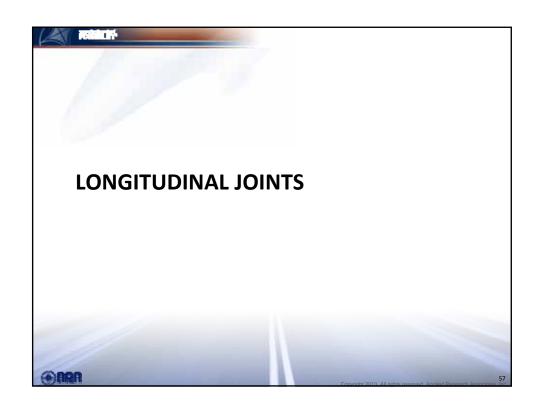
















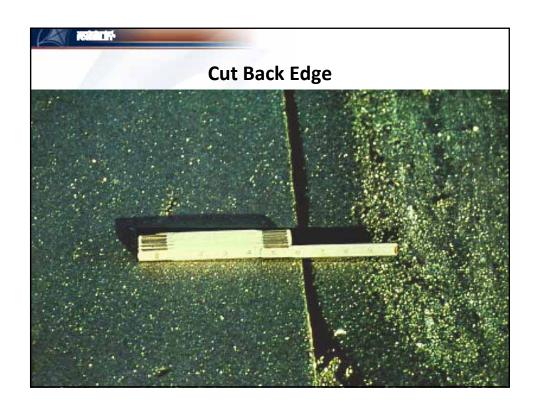


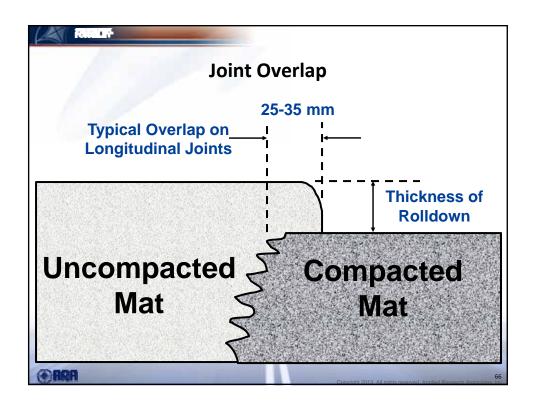


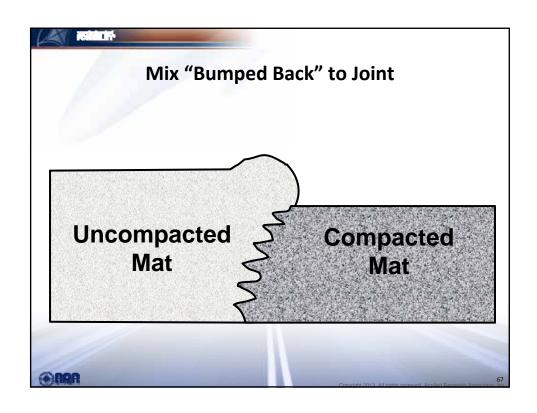






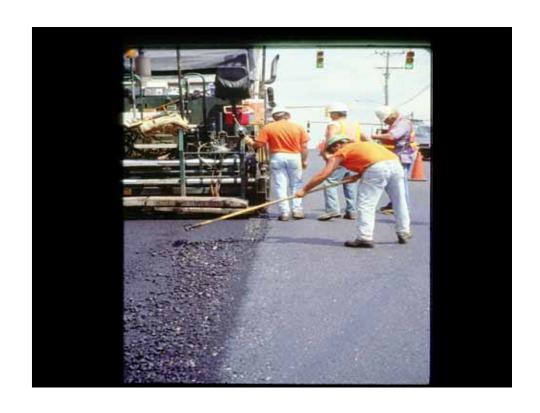


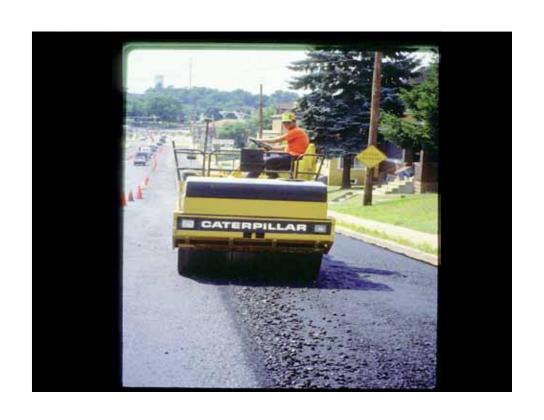






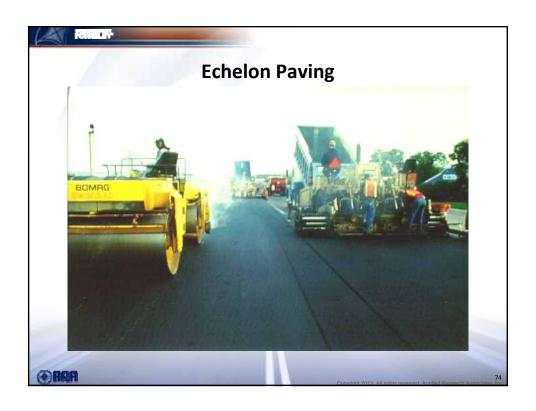


















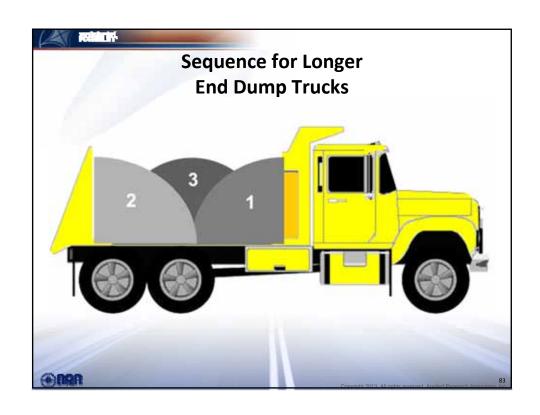


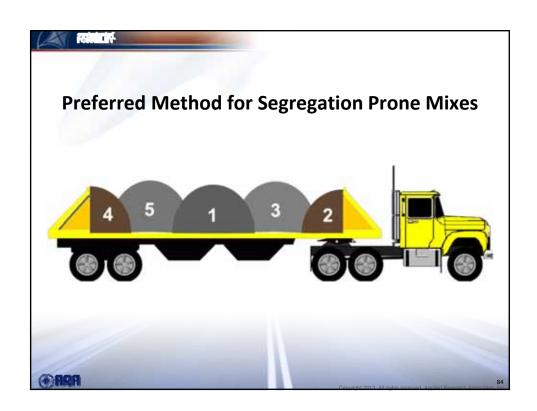










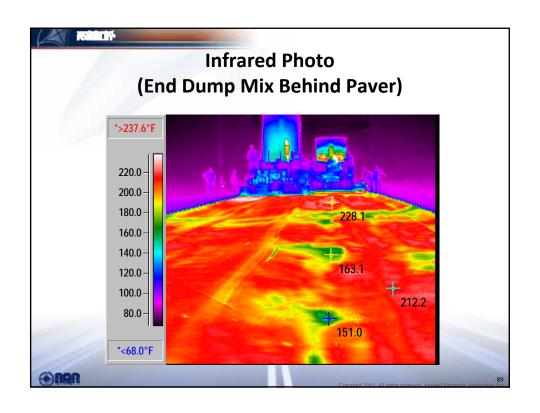


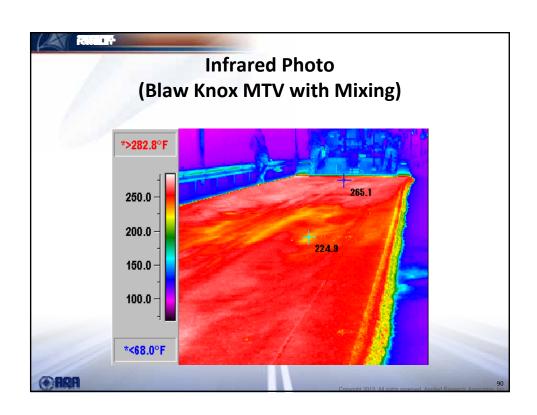


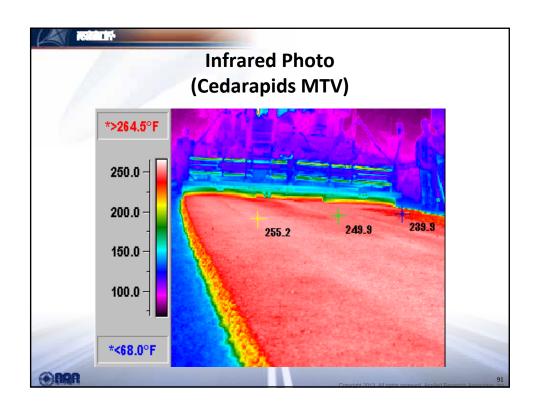


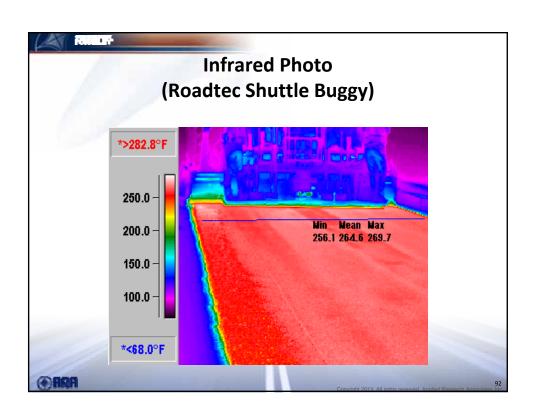


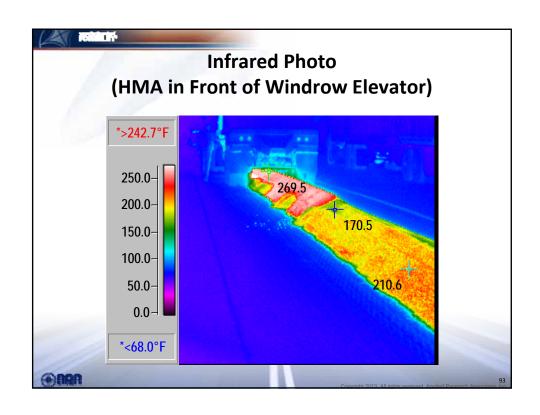


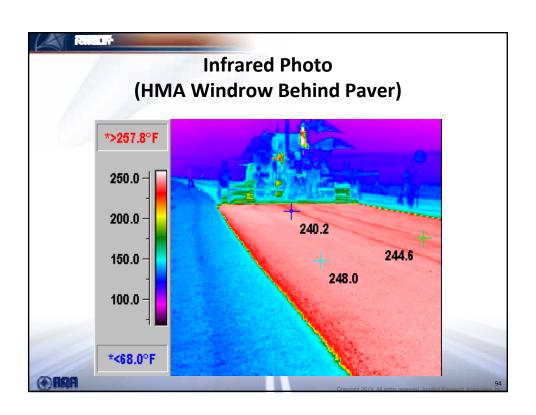


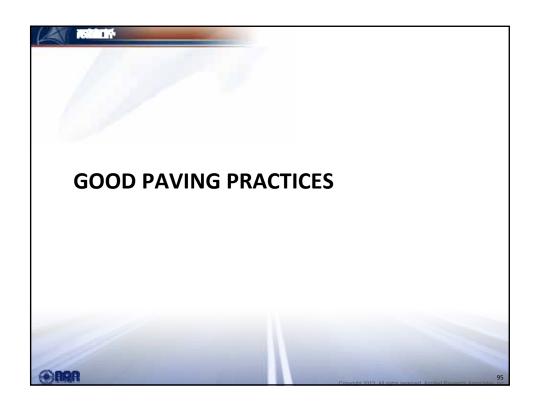












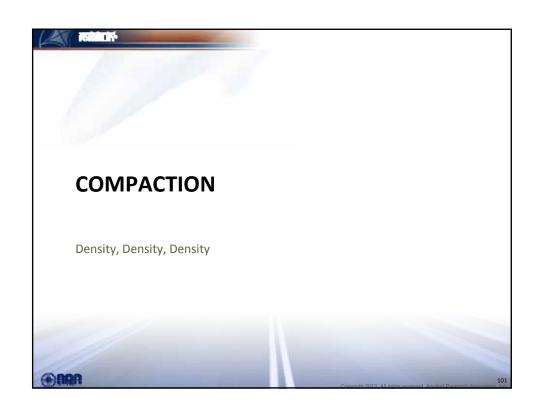


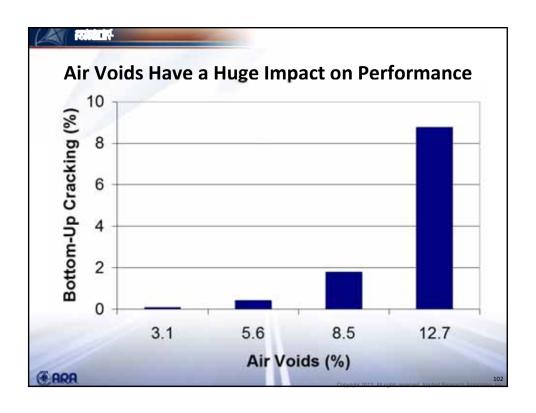


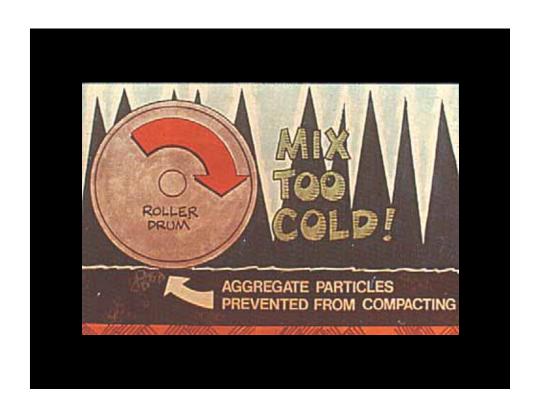


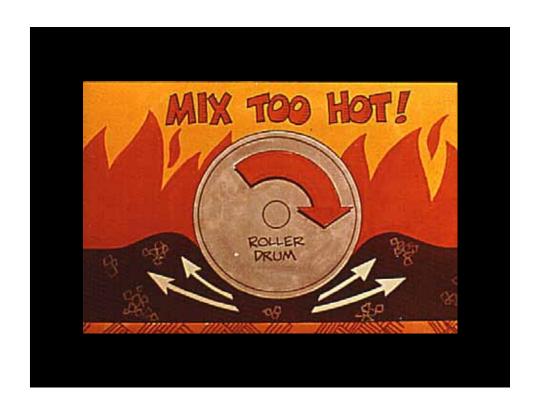


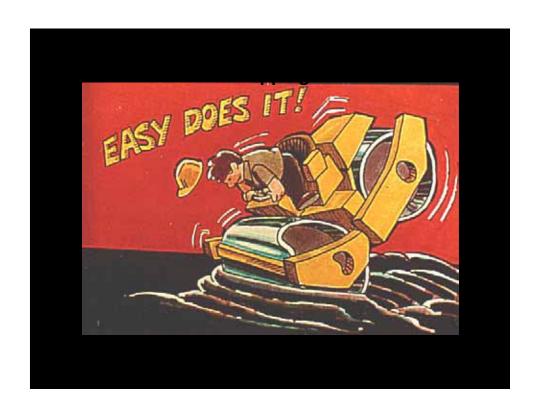


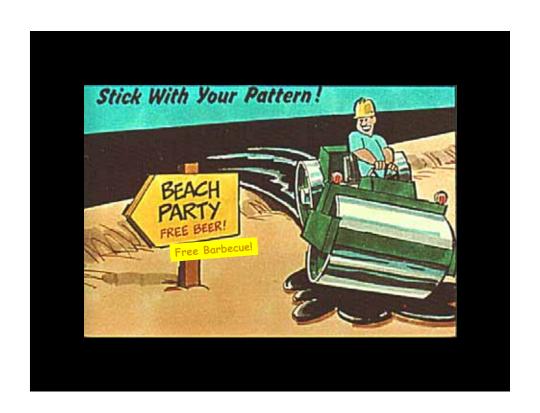




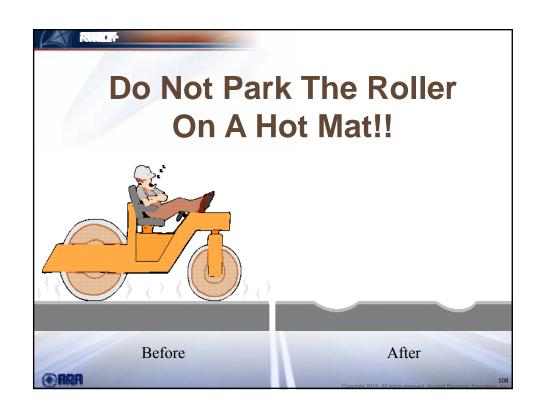












Closing

- The decisions that you make matter
- Today's actions predict future pavement performance
- Future performance impacts life cycle cost analysis
- Life cycle cost analysis determines pavement type selection
- Pavement type selection makes/breaks industries





