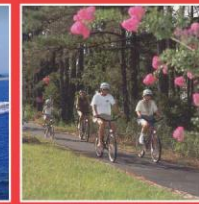
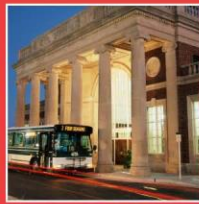
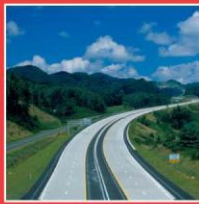




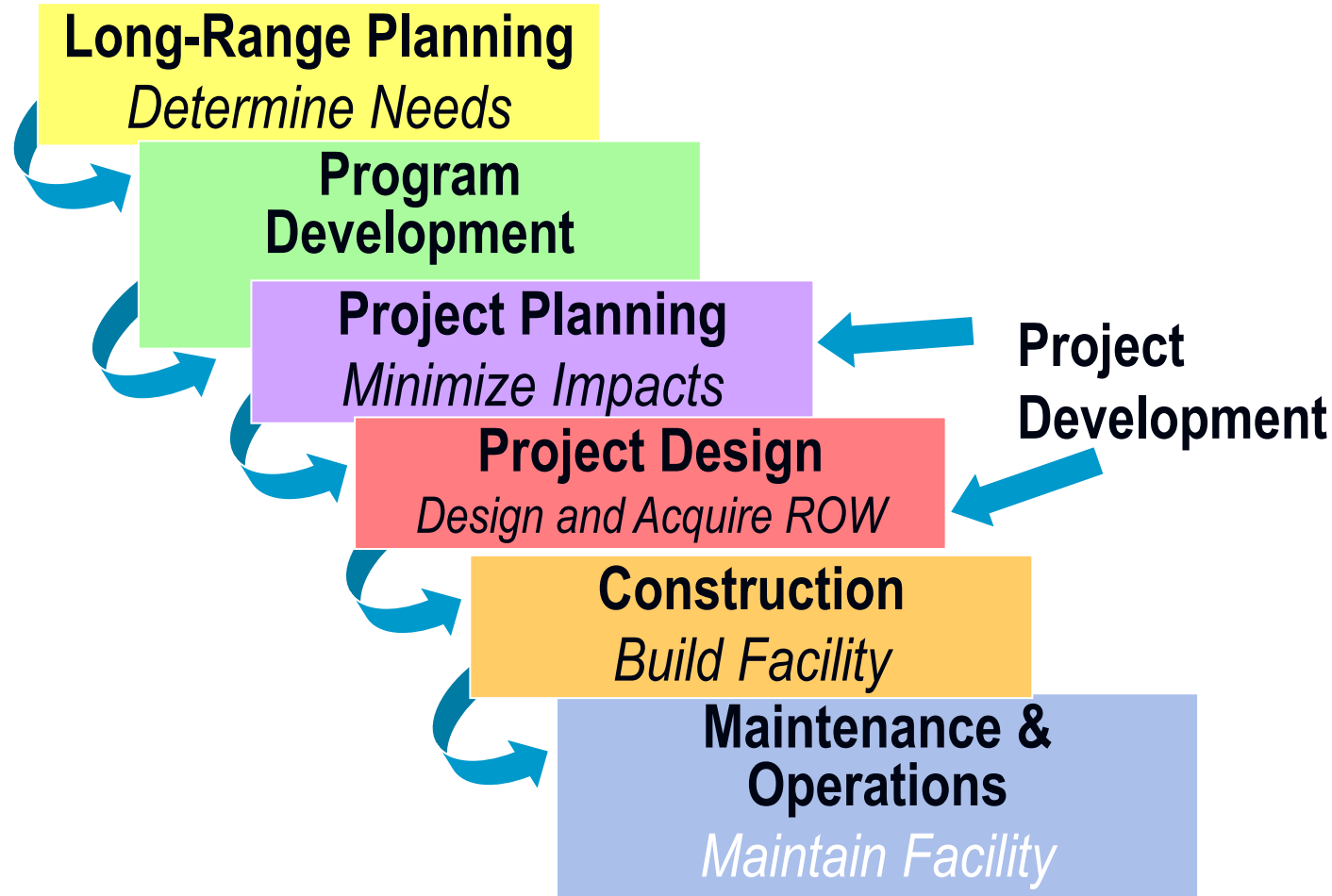
Project Delivery Process

February 23, 2012

Chief Engineer, Jon Nance



Transportation Program Life Cycle





Typical Project Durations (from planning to advertisement)

- Major new location projects (ten to twelve years)
- Widening projects (seven to eight years)
- Bridge projects (one to four years)





Typical Project Construction Durations

- New Location – 3 ½ - 4 Years
- Major Pavement Rehabilitation - 2 ½ - 3 Years
- Urban Widening - 2 - 3 Years
- Bridge Replacement (low impact) - 6–18 months

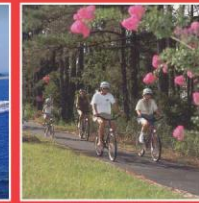
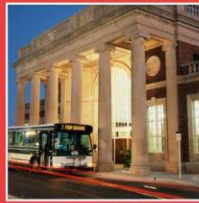
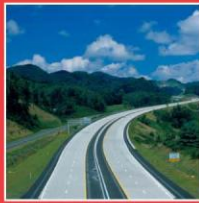




NCDOT Contracting Methods- “Tools in the Toolbox”

- Design – Bid - Build
- Design - Build
- Public Private Partnership (3P)
- Design – Build – Finance
- Express Design – Build
- Design – Build – Own – Operate
- Performance Based Maintenance Contract





Design-Bid-Build

- Utilized for the majority of our projects
- Methods used in this process
 - A + B Bidding
 - Incentives
 - Floating Start Dates





A+B Bidding

- Method that considers completion date in award
- Bidders are required to bid the number of days they propose to complete the project
- Each day is assigned a cost
- The bidder with the lowest combination of construction cost and time is awarded the project





Incentives

- Used on selected projects in which completion is critical to the public
- Incentive Methods
 - Daily in which contractors are paid a specified amount for each day that the project is finished earlier than the date specified
 - Lump sum in which a contractor is paid a lump sum amount for finishing before the specified completion date





Floating Start Dates

- Method that allows bidders to determine the date they begin construction
- Contractor then have a specified number of days to complete the project
- Allows bidders flexibility to schedule their work to provide the best bids





Design-Build

- Method in which final design and construction are combined in one contract
- Good method for the right projects
 - Projects in which there is potential for innovation
 - New location
 - Interstate widening
 - Large Bridges





Project Complexity





Project Innovation





Project Innovation



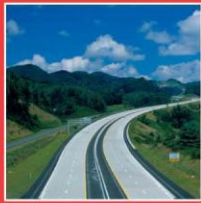


Future Opportunities

Construction Manager/ General Contractor CM/GC

- Method in which general contractor is retained while design is being done





Questions?

