FLOODING & SUBSIDENCE MANAGEMENT

**Flood Risk Modeling**
*according to CPRA modeling for a 100-yr storm in 2067

- 0 to 3 ft.
- 3 to 6 ft. or within the 100 yr floodplain
- > 6 ft.

**Elevation**
0 ft.
10 ft.
25 ft. (high point)

**Soils**
- Highly Organic
- High Subsidence Potential
- Moderately Organic
- Moderate Subsidence Potential
- High Plasticity Silt and Clay
- Shrink and Swell Potential
- Low Plasticity Silt and Clay, Sand Stable

**Pre-European Settlement**
- Mississippi River
- Upland Forest
- Bottomland Hardwood Forest
- Lake Maurepas
- Saturated Organic Soils
- Settlement on High Ground
- Agriculture
- Storm Surge
- Federal Levee
- Major Non-Federal Levee
- CPRA Proposed Levee
- Parish Boundary

**Historic Settlement Patterns**
- Reserve
- Garyville
- Laplace
- Edgard
- Artificial Levees
- Chronic Flooding in Low Lying Areas
- Planned Levee
- Levee Protection Encourages Urban Expansion in Wetlands
- Growth Focused on High Ground
- Elevated Structures in Low Lying Areas
- Leaky Levees/Protects Against Storm Surge

**Current Conditions**
- Hold water upslope to minimize flooding in low lying areas.
- Increase water storage downslope to mitigate flooding and subsidence
- Alleviating loads on pumping stations which reduces energy use and cost.

**Projected Future with Conventional Development**
- Federal Levee
- Major Non-Federal Levee
- CPRA Proposed Levee
- Parish Boundary

**Future with Adaptation**
- Federal Levee
- Major Non-Federal Levee
- CPRA Proposed Levee
- Parish Boundary

**Conventional Drainage System w/ Future Levee**
- Pave
- Pipe
- Pump

**Proposed Blue-Green System w/ Future Levee**
- Delay
- Store
- Drain When Necessary

Settlement on High Ground Agriculture
- Growth Focused on High Ground
- Elevated Structures in Low Lying Areas
- Leaky Levees/Protects Against Storm Surge

Conserved Wetlands Provide Ecological Benefits
- Federal Levee
- Major Non-Federal Levee
- CPRA Proposed Levee
- Parish Boundary