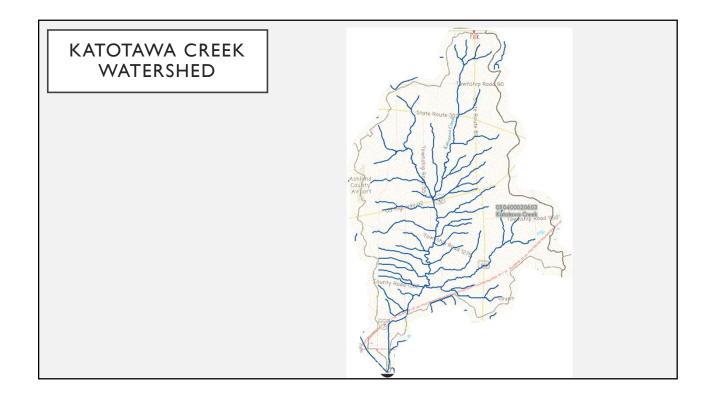


WHAT IS A 9-ELEMENT PLAN? MAKES US ELIGIBLE FOR EPA 319 GRANTS AND FUNDING FOR PROJECTS TO IMPROVE WATER QUALITY

- I. ID causes & sources of impairment
- 2. Estimate improvement in habitat
- 3. ID & describe solutions/ practices & critical areas
- 4. Estimate staff & financial cost of implementation.
- 5. Info/education component
- 6. Schedule for implementation
- 7. Measurable milestones
- 8. Measurable habitat improvements.
- 9. Monitoring component



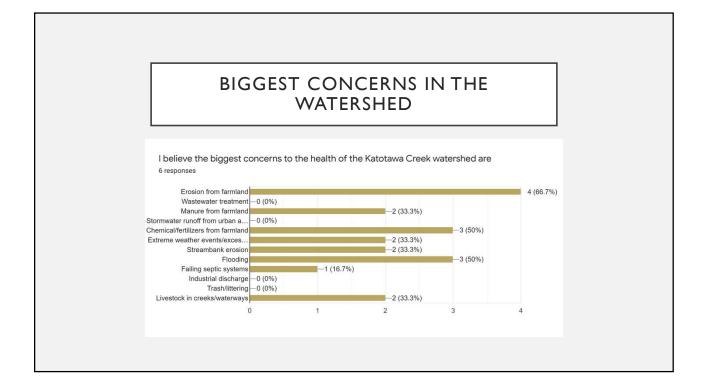
Aquatic Life Use:Warm water Habitat – Full Attainment

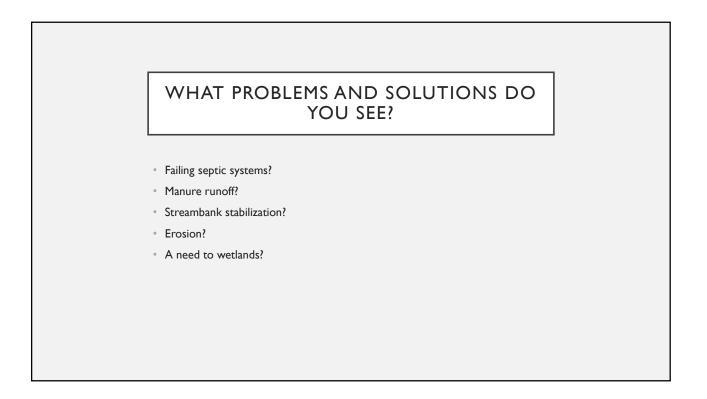
Recreational Use Assessment: NO!! Impaired (bacteria – manure, septic, sedimentation)



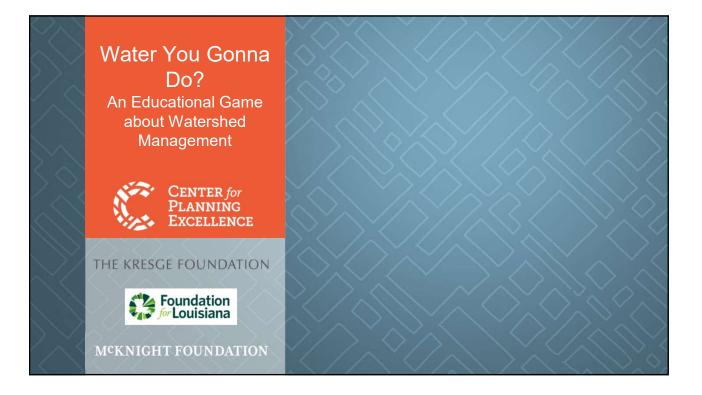
CRITICAL AREAS EXAMPLES

- Groups of failing septic systems
- Communities/Town without sewage systems or failing treatment plants
- Farms without nutrient management plans on highly erodible land
 - This can include manure and/or commercial fertilizer



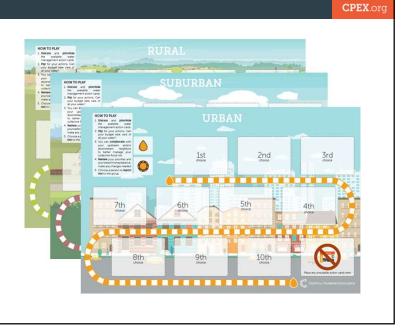


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Agenda

- Why did we make a watershed game?
- Framing up the game in a workshop
- Key takeaways and observations
- Play the game



What is a Watershed?

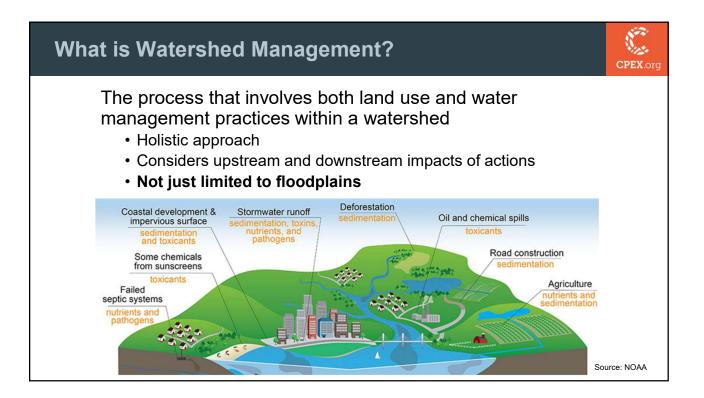
CPEX.org

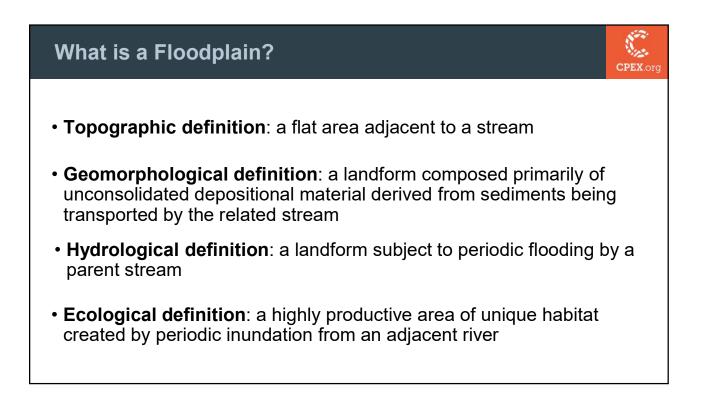
Watershed:

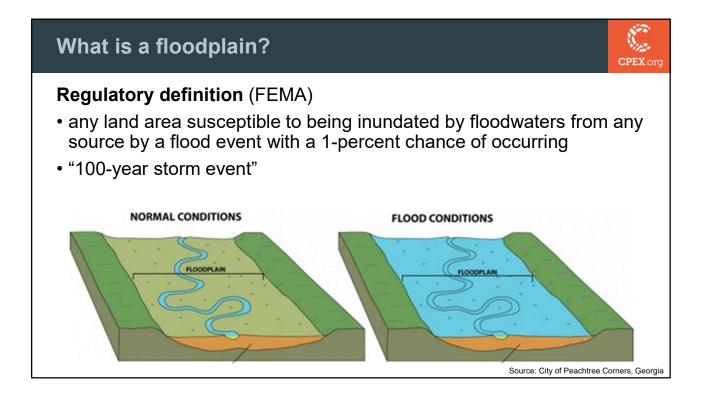
An area of land that drains all the streams and rainfall to a common point

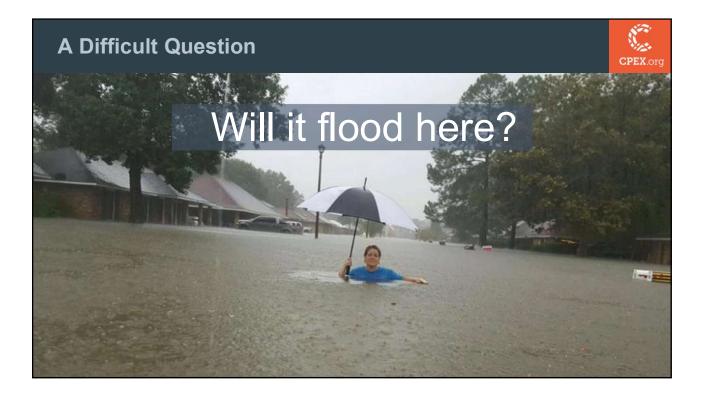


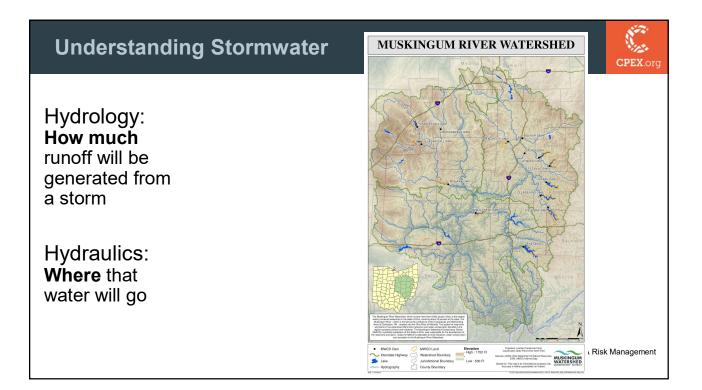
Source: riversweb.org

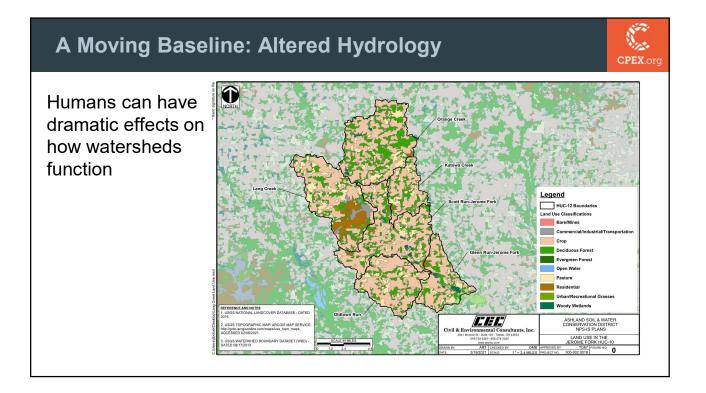


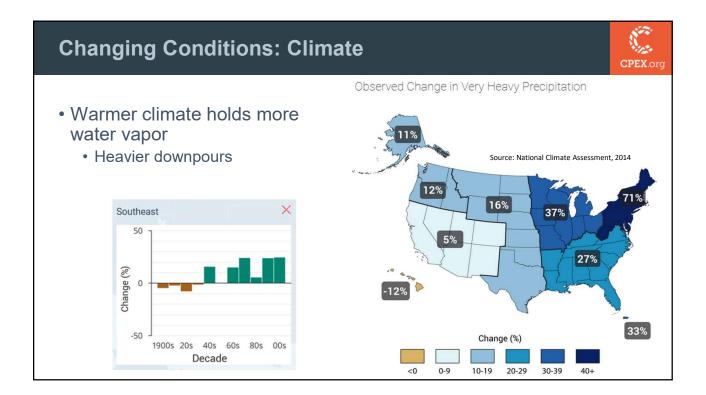










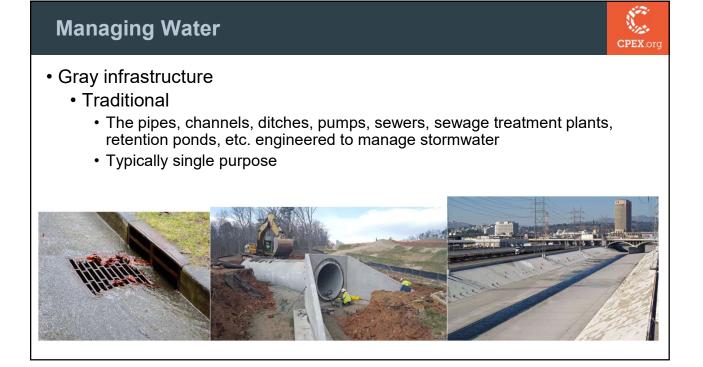


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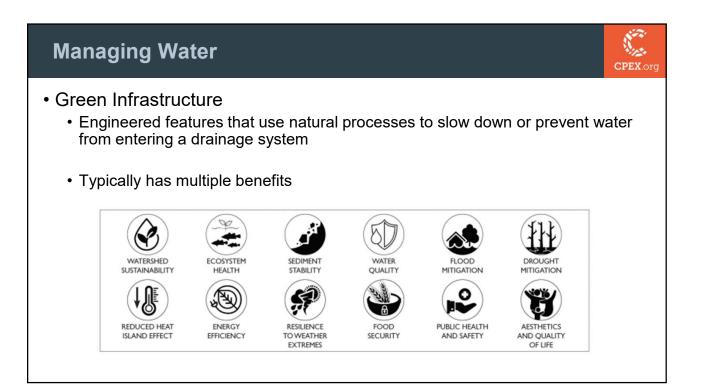
Watershed Management

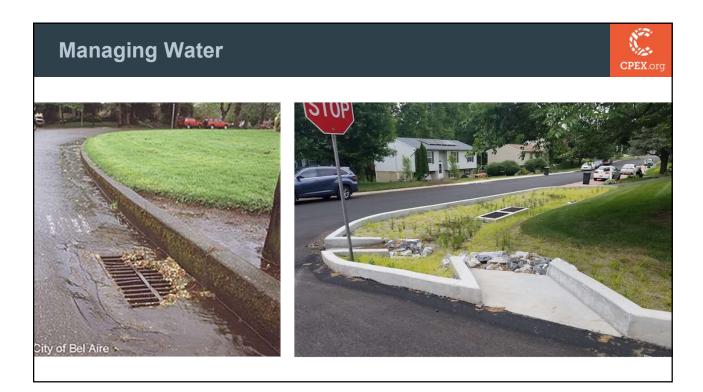
- 2 basic approaches to stormwater management:
 - Manage water
 - Manage impacts











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Managing Water

• Bioswales, raingardens





Managing Water

- Conservation and restoration
 - Reconnecting floodplains





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Managing flood impacts

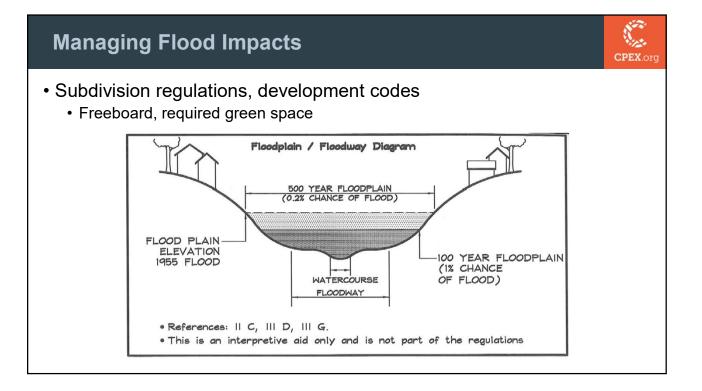
- Housing and building design
 - Elevation and flood proofing

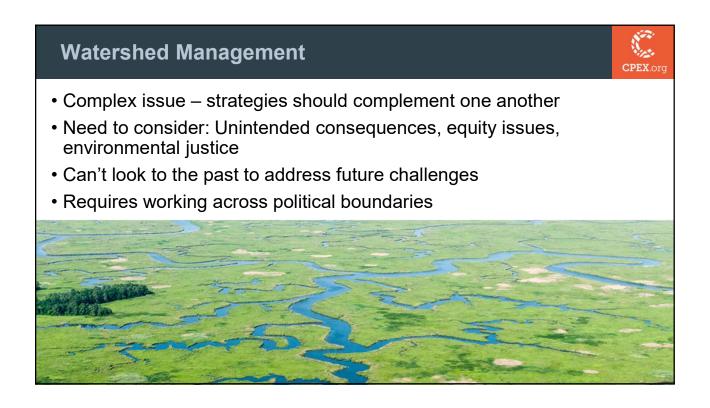


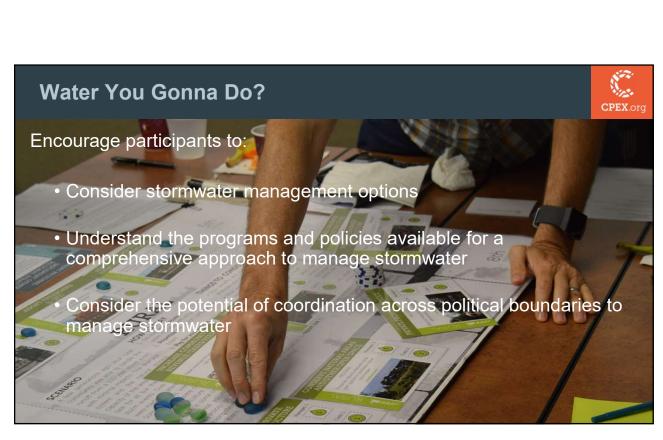


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Game Scenarios

Over time, decisions were made that altered the hydrology of your community thereby increasing flood risk

- **Rural** Wetlands were drained and some forests were cleared to make way for agriculture. A few homes were built in low-lying areas.
- **Suburban** Some agricultural land was filled with subdivisions and commercial development. Natural areas were lost and there is now more impermeable surfaces due to roads, parking lots, and buildings.
- **Urban** Roads were expanded, more parking lots were built, and buildings and homes got larger increasing the amount of impermeable surfaces. Some of the limited amount of open space in the urban community was lost.

