INNOVATIVE SOLUTIONS FOR REAL-TIME FLOOD FORECASTING

ALDRIDGE CREEK WATERSHED

William Thomas, PE, CFM September 9, 2016









WHY FORECAST?

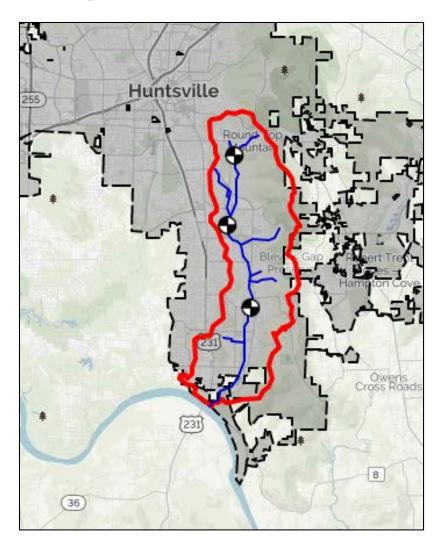
• Proactive instead of Reactive





ALDRIDGE CREEK

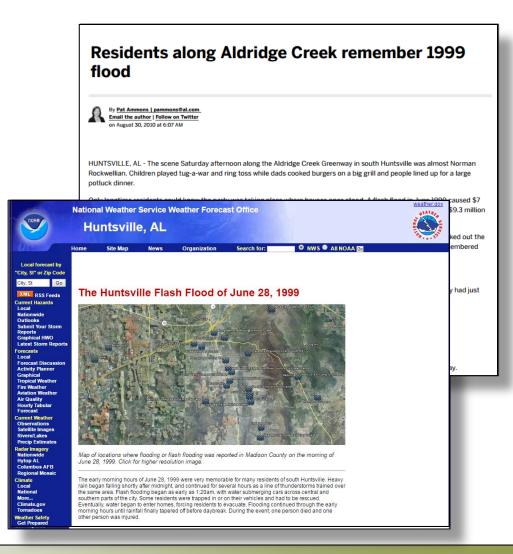
- Huntsville, AL
- 23 square miles
- Primarily Residential
- USGS gages at 3 sites





ALDRIDGE CREEK FLOODING

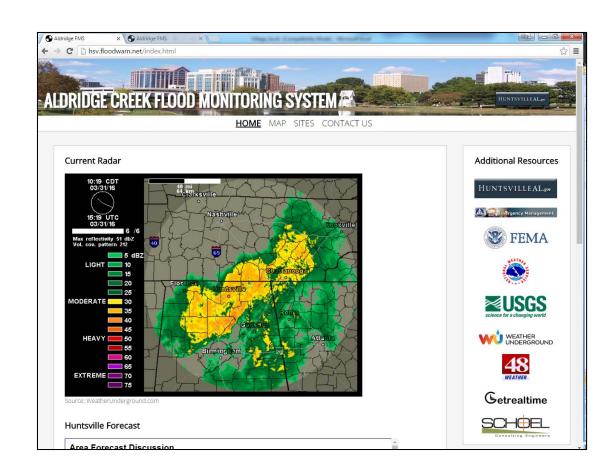
- June 28, 1999
 - 300 structures flooded
 - \$7 million in damage
 - 6+ inches





WHAT MAKES THIS INNOVATIVE?

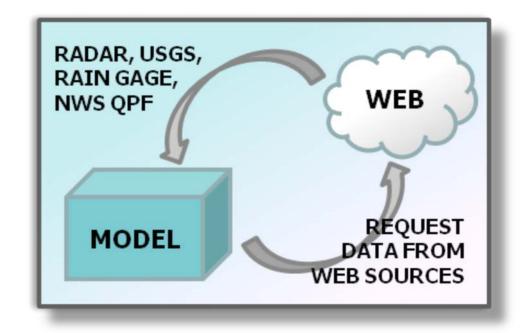
- Real-time
- Usable
- Inundation Mapping
- Notifications





REAL-TIME

- Continuous Model
- Real-time Data Acquisition
- Current Output



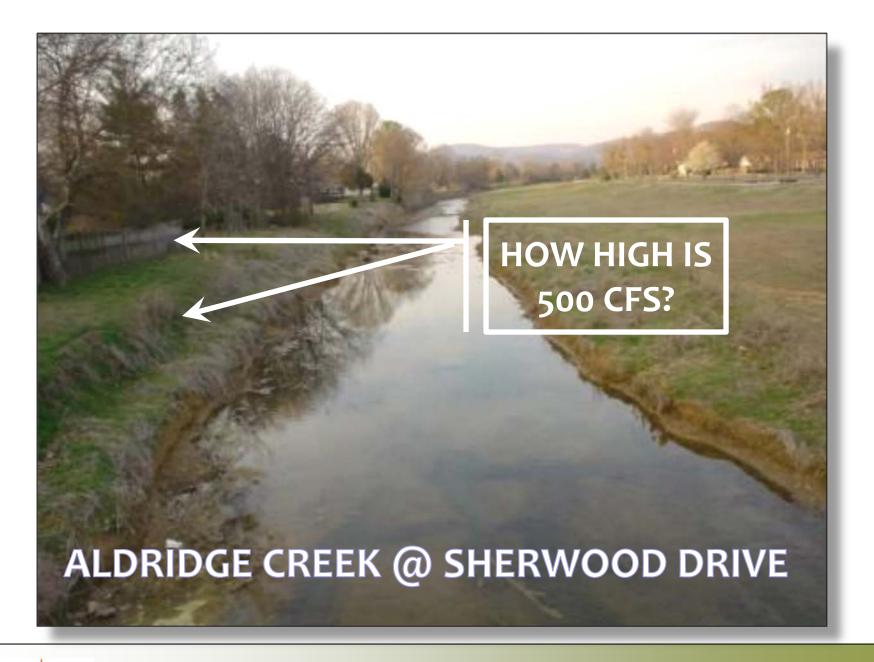


USABLE

- Access from Any Device
- Presentation
- Tailored to the User



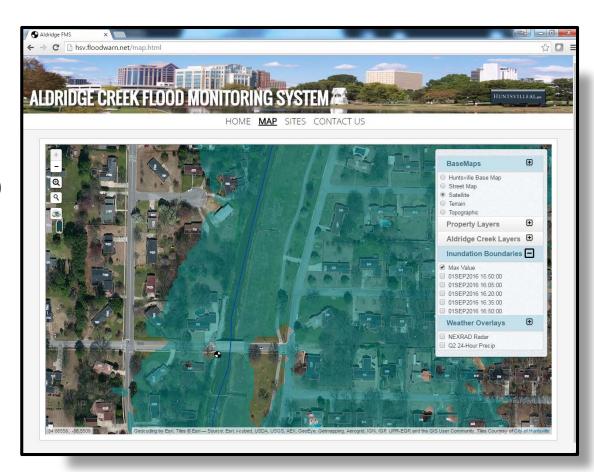






INUNDATION MAPPING

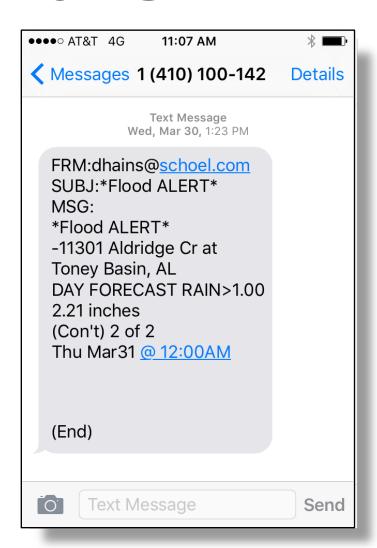
- Easily Assess Hazard
- Translate the Technical into Usable



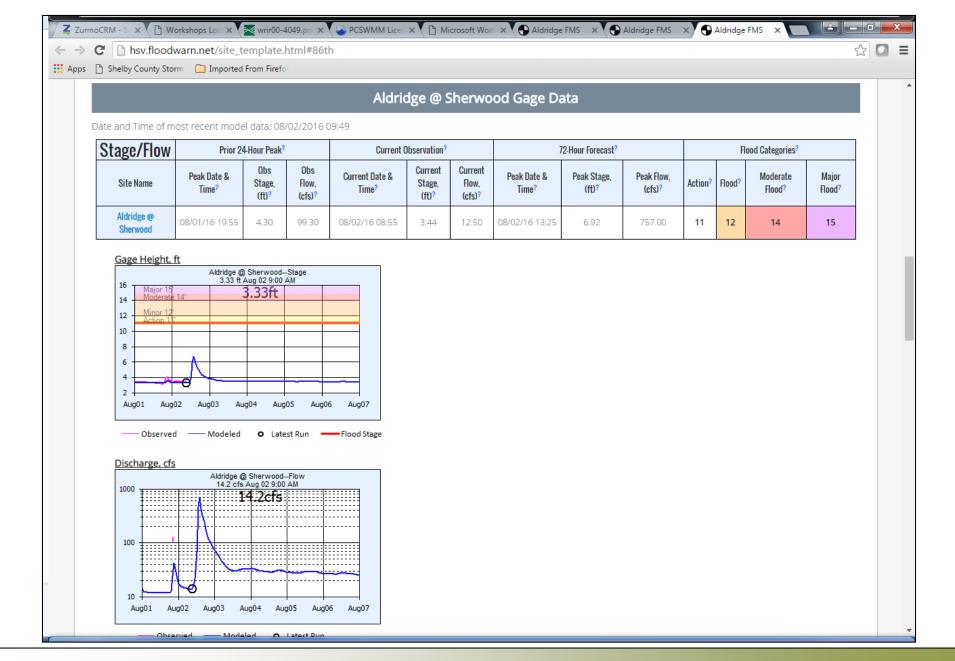


NOTIFICATIONS

- Automated
- Based on Rainfall, Stage, or Flow
- Text or Email



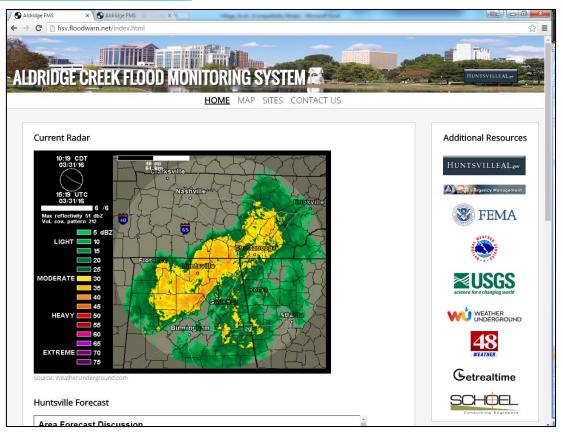






QUESTIONS

hsv.floodwarn.net





CONTACT INFORMATION

- William Thomas, PE, CFM
 - Schoel Engineering
 - -205.313.1150
 - wthomas@schoel.com

