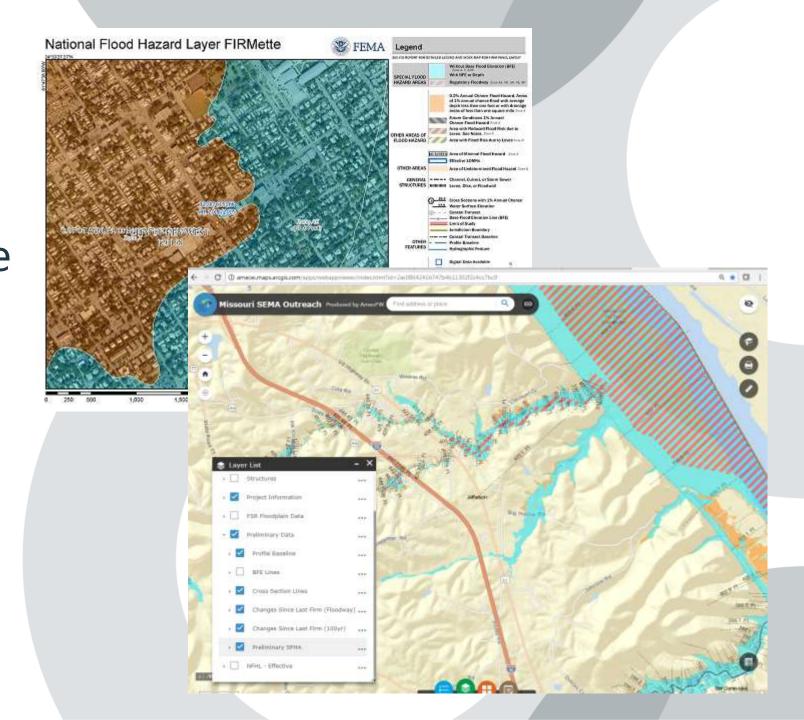
wood.

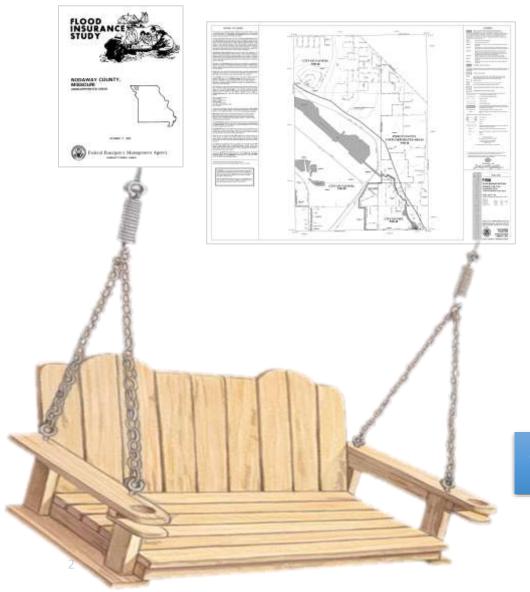
Using GIS to Increase Outreach and Data Accuracy for the FEMA Risk MAP Program

ASFPM June 20, 2018

woodplc.com



Introduction



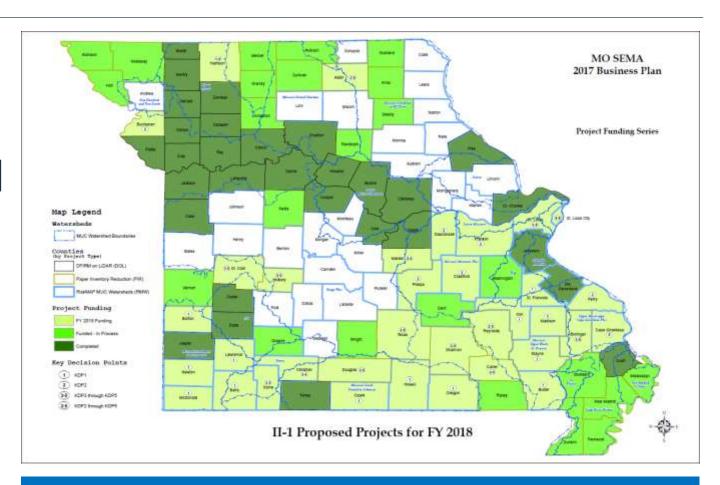
- Many maps in Missouri are 30 to 40 years old paper maps.
- PIR (Paper Inventory Reduction) and Risk MAP projects in progress to **update all maps to a digital format**.
- Numerous non-participating communities
- Considering the number of projects initiated,
 a comprehensive approach was needed to
 perform effective outreach in the state.

"A Front Porch Conversation"

Introduction

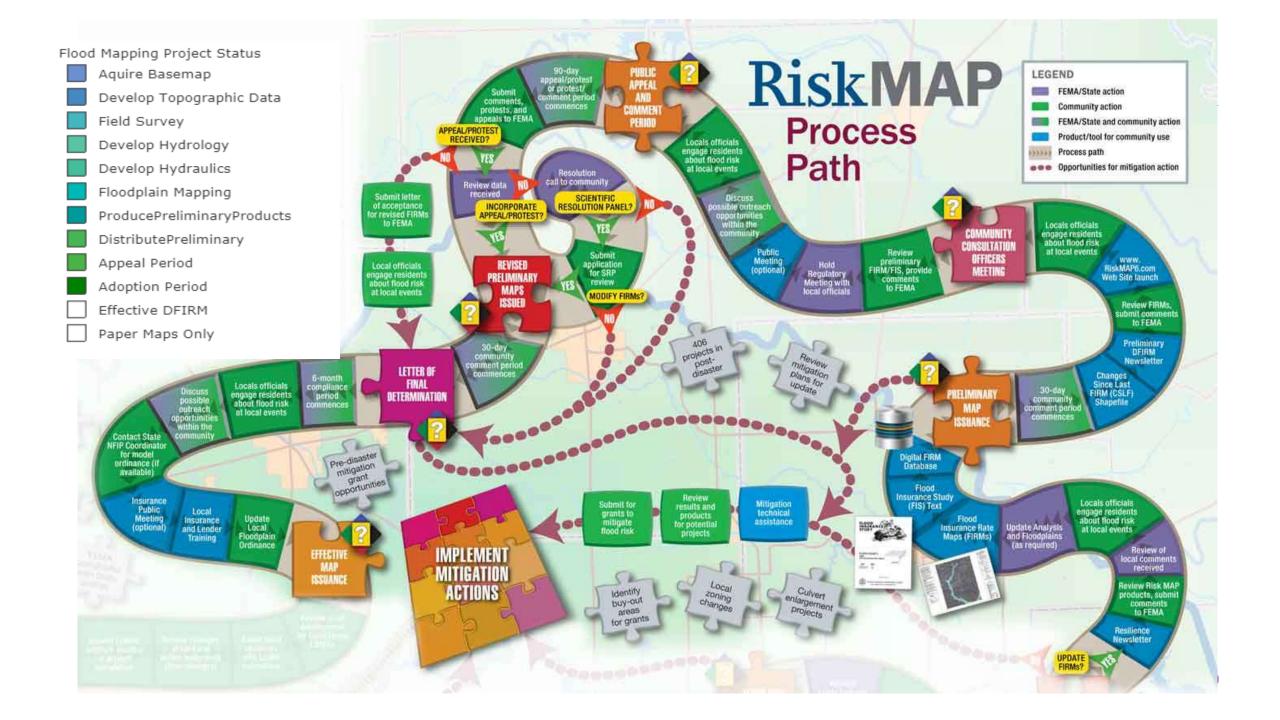
Needs include:

- One-stop shop
- Technology challenged stakeholders
- Useful at each stage
- Effective & Efficient Data Delivery
- Effective & Efficient Communication



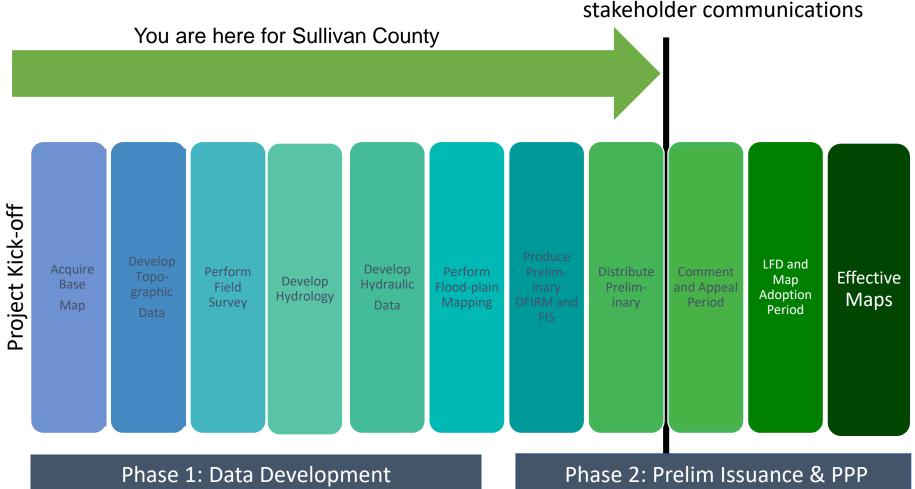
Digital mapping for entire state by 2022





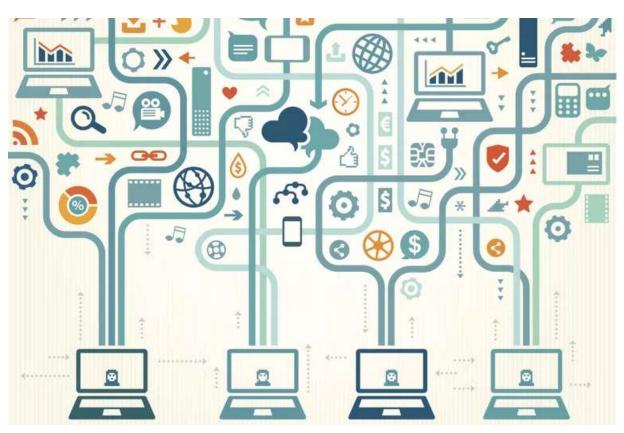
Life of the Project Status Graphic

This will be shown quarterly in stakeholder communications

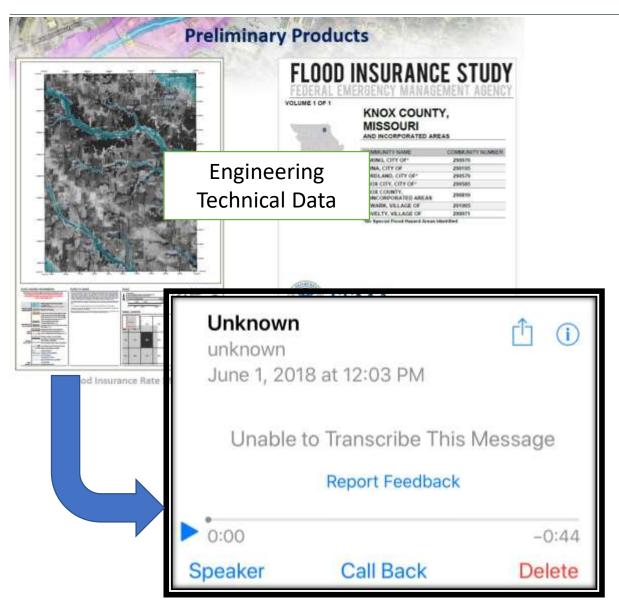


Outreach Plan Needed





Infrastructure and process





Objectives

Provide Information

- General overall
 - Project stages
- Specific
 - Layer update

Inform and Present of Status Study Specific Information

- Internal Work force
 - Project Managers
 - Analysts
- External
 - Federal Points of Contacts
 - State and Local Communities

Review

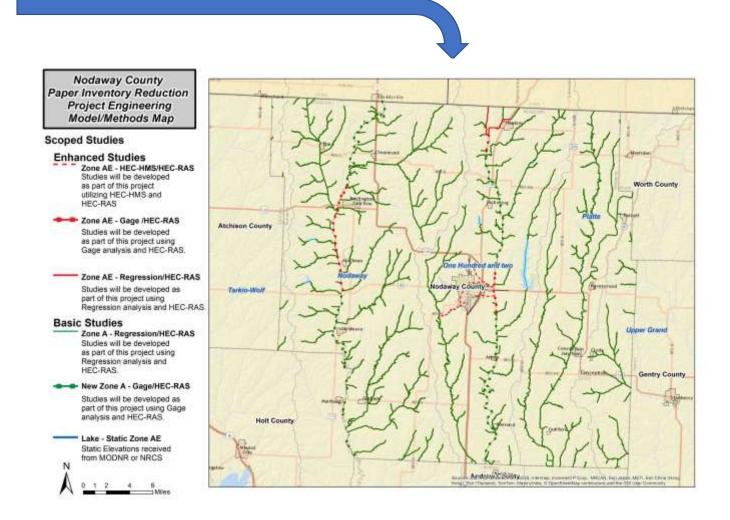
- Accuracy of data
- User defined Points for data updates
- Conclude/Deploy/Project data review



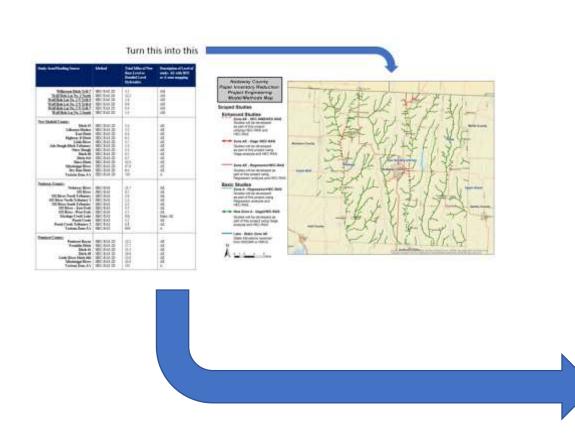
Background Information

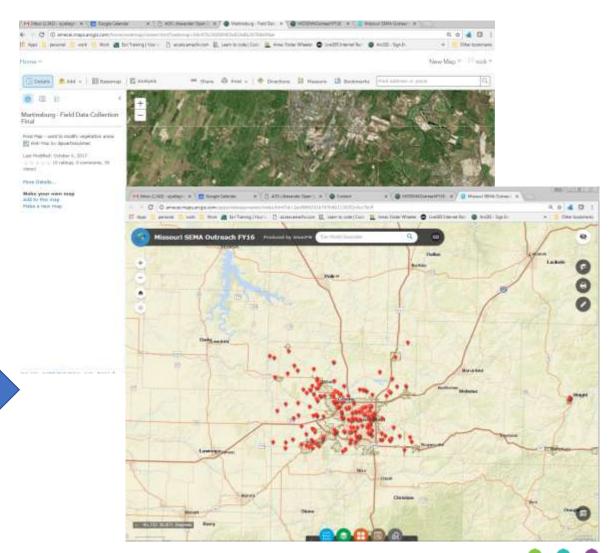
Turn this into this

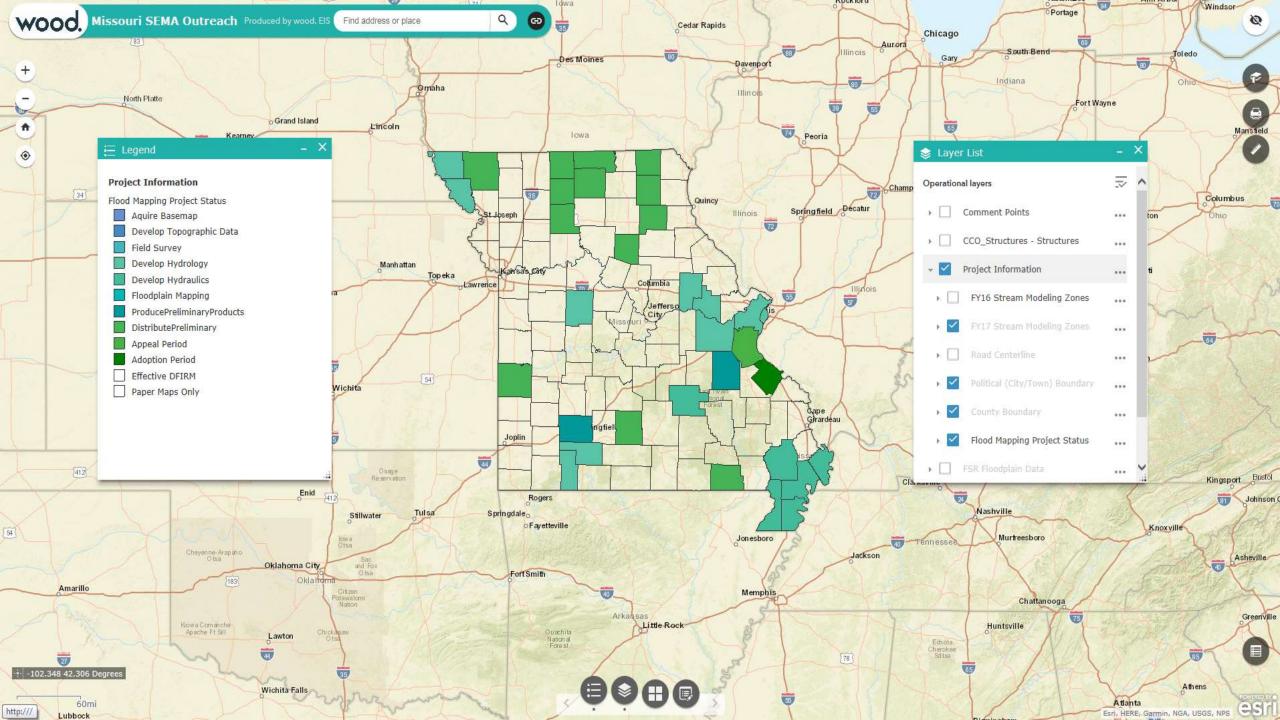
Study Area/Flooding Source	Method	Total Miles of New Base Level or Detailed Level Hydraulics	Description of Level of study- AE with BFE or A zone mapping
Wilkerson Ditch Trib 7	HEC RAS 2D	3.5	AH
Wolf Hole Lat No. 2 North	HEC RAS 2D	12.3	AH
Wolf Hole Lat No. 2 N Trib 5	HEC RAS 2D	1.0	AH
Wolf Hole Lat No. 2 N Trib 6	HEC RAS 2D	0.8	AH
Wolf Hole Lat No. 2 N Trib 7	HEC RAS 2D	0.4	AH
Wolf Hole Lat No. 2 South	HEC RAS 2D	1.3	AH
New Madrid County:			
Ditch #3	HEC-RAS 2D	5.4	AE
Lilbourn Ditches	HEC-RAS 2D	5.2	AE
East Ditch	HEC-RAS 2D	0.4	AE
Highway D Ditch	HEC-RAS 2D	0.3	AE
Little River	HEC-RAS 2D	3.7	AE
Ash Slough Ditch Tributary	HEC-RAS 2D	1.2	AE
Otter Slough	HEC-RAS 2D	3.3	AE
Ditch #8	HEC-RAS 2D	0.5	AE AE
Ditch #44 Risco Ditch	HEC-RAS 2D HEC-RAS 2D	0.5	AE AE
Mississippi River	HEC-RAS 2D HEC-RAS 2D	47.0	AE AE
Dry Run Ditch	HEC-RAS 2D HEC-RAS 2D	8.4	AE AE
Various Zone A's	HEC-RAS 2D	510	A
Nodaway County:			
Nodaway River	HEC-RAS	11.7	AE
102 River	HEC-RAS	6.5	AE
102 River North Tributary	HEC-RAS	3.0	AE
102 River North Tributary 1	HEC-RAS	1.2	AE
102 River South Tributary	HEC-RAS	2.3	AE
102 River – East Fork	HEC-RAS	3.5	AE
102 River –West Fork	HEC-RAS	3.1	AE
Mozingo Creek Lake	HEC-RAS	NA	Static AE
Peach Creek	HEC-RAS	5.2	AE
Peach Creek Tributary 2	HEC-RAS	0.8	AE
Various Zone A's	HEC-RAS	836	A
Pemiscot County:			
Pemiscot Bayou	HEC-RAS 2D	12.5	AE
Franklin Ditch	HEC-RAS 2D	17.7	AE
Ditch #4	HEC-RAS 2D	11.5	AE
Ditch #8	HEC-RAS 2D	29.0	AE
Little River Ditch #66	HEC-RAS 2D	13.0	AE
Mississippi River Various Zone A's	HEC-RAS 2D HEC-RAS 2D	43.0 331	AE
v arious Zone A's	DEC-KAS ZD	331	A

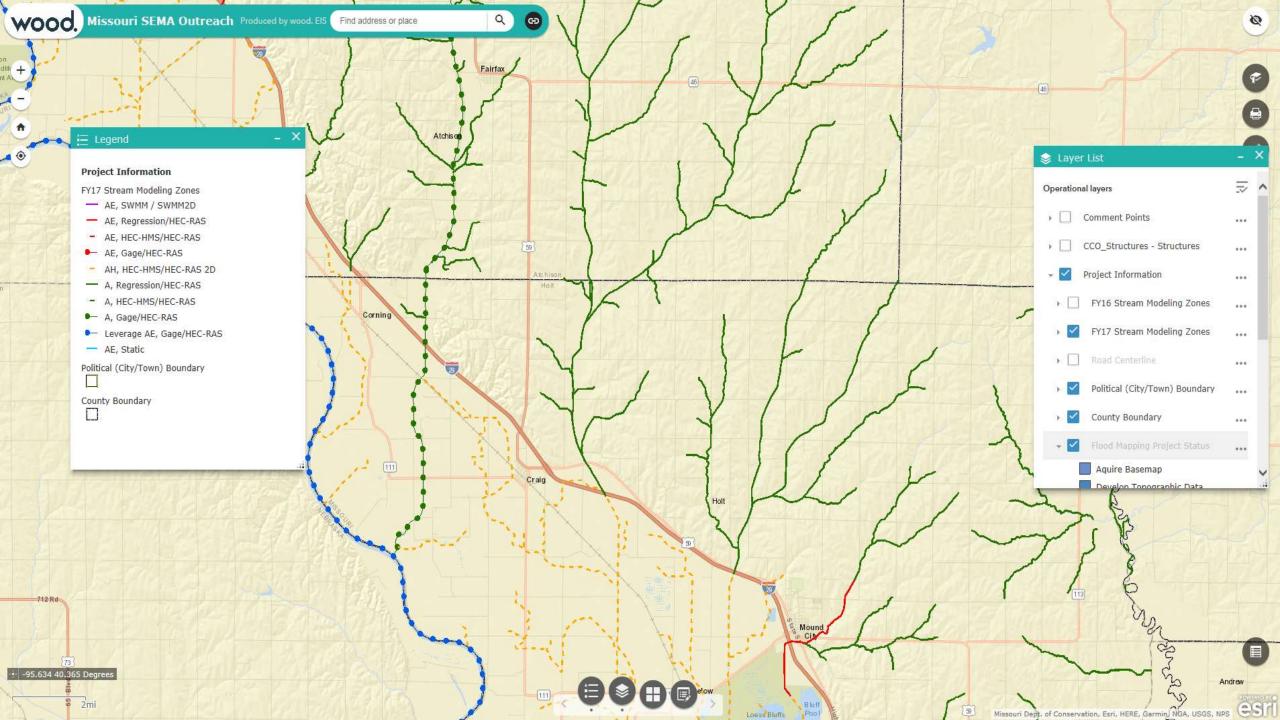


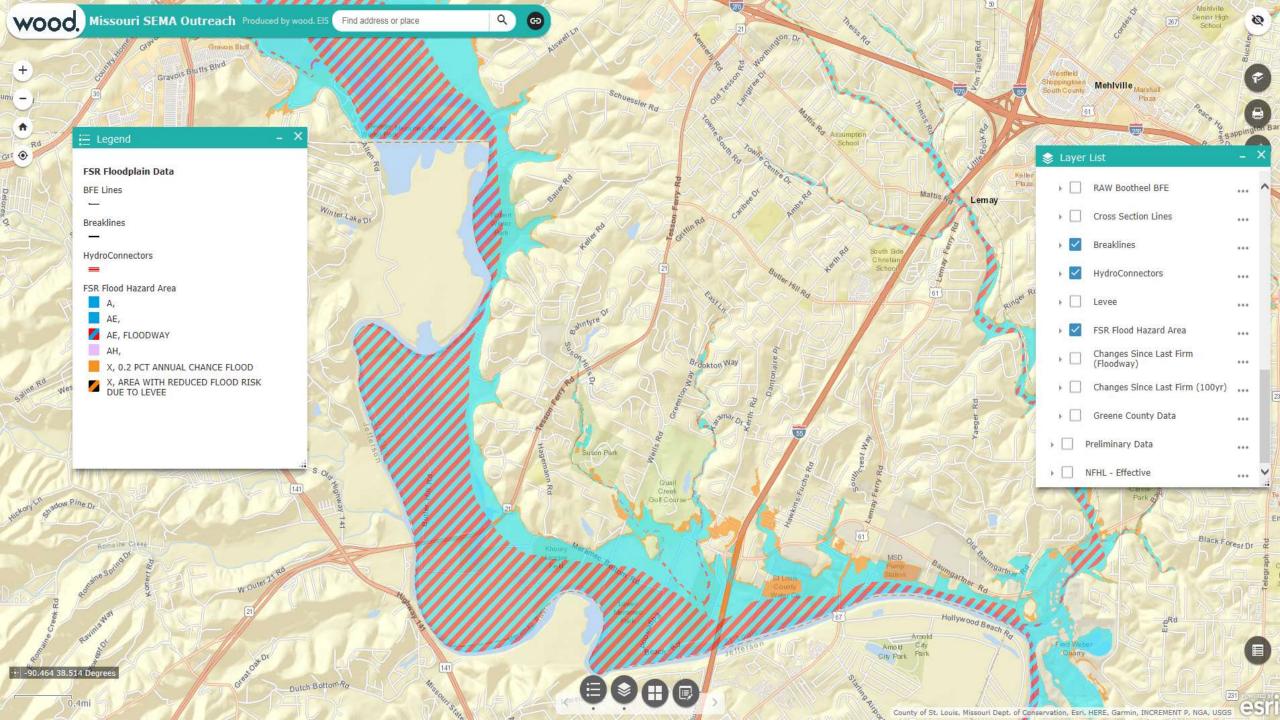
Progression of process

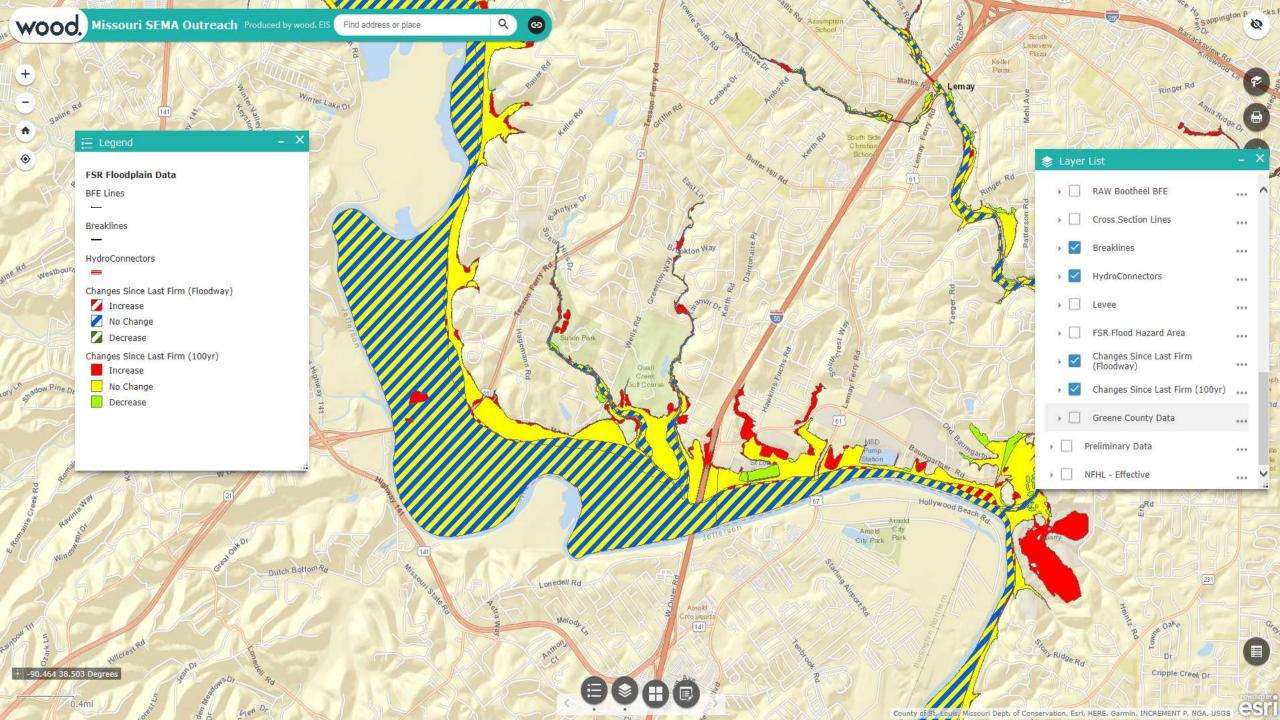




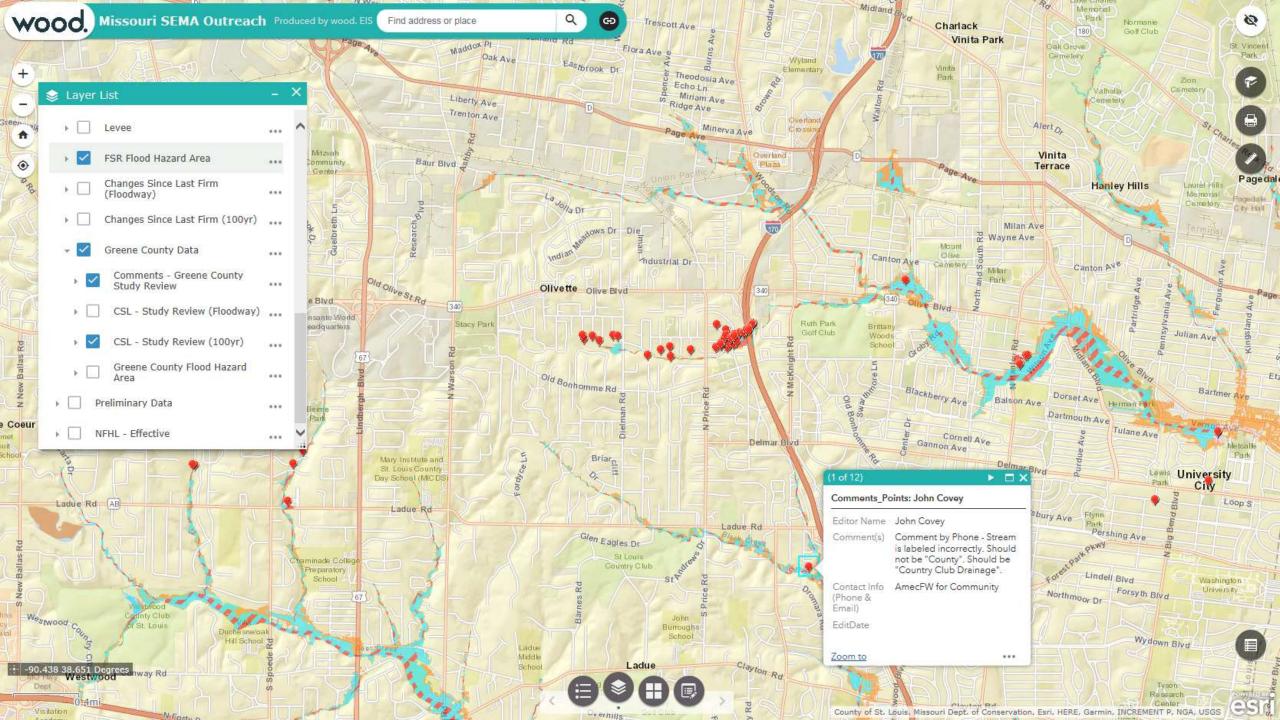


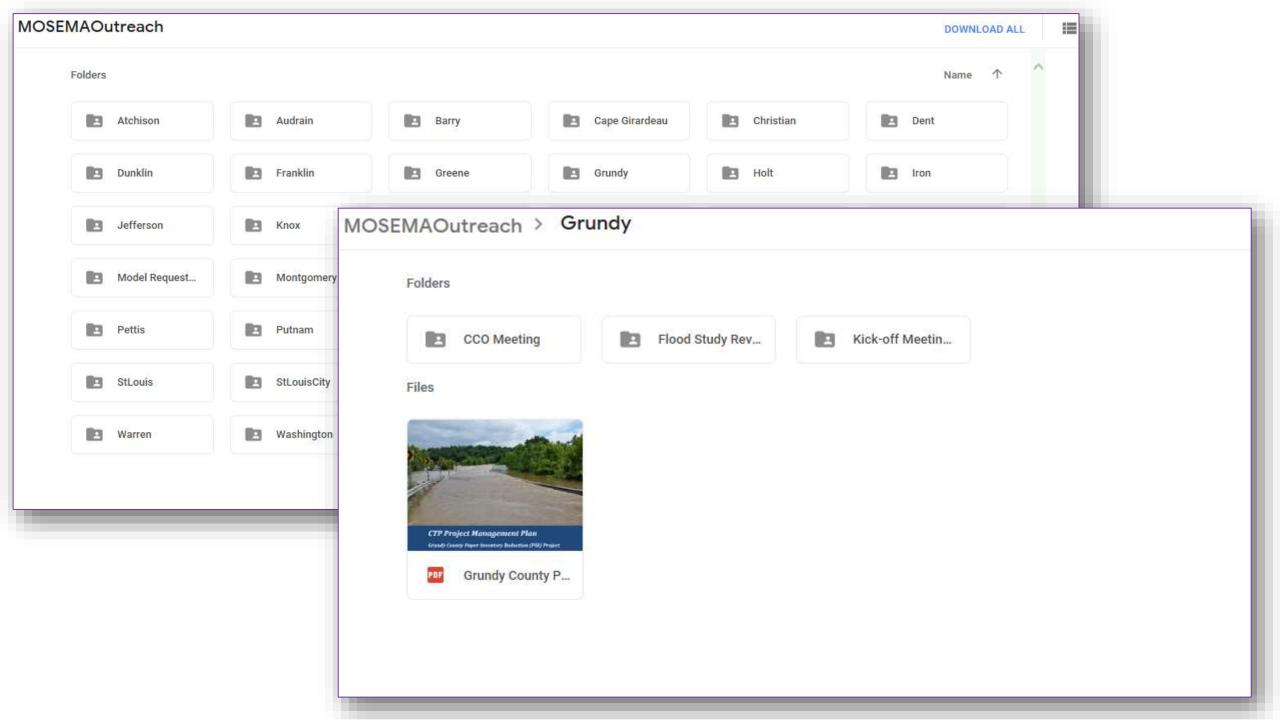










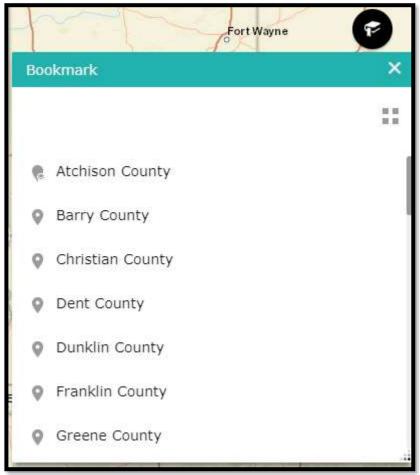


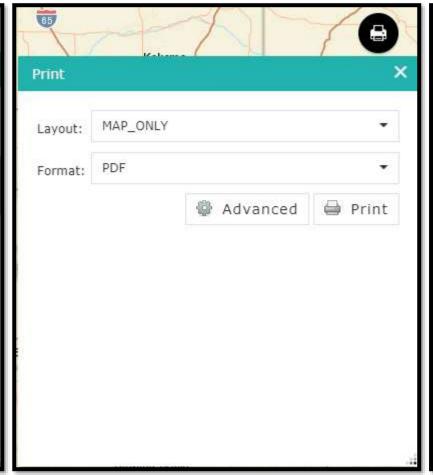
Features of the ArcGIS Online Outreach Map

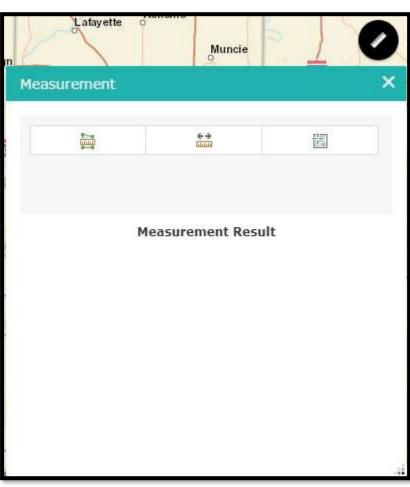
Bookmarks for each project

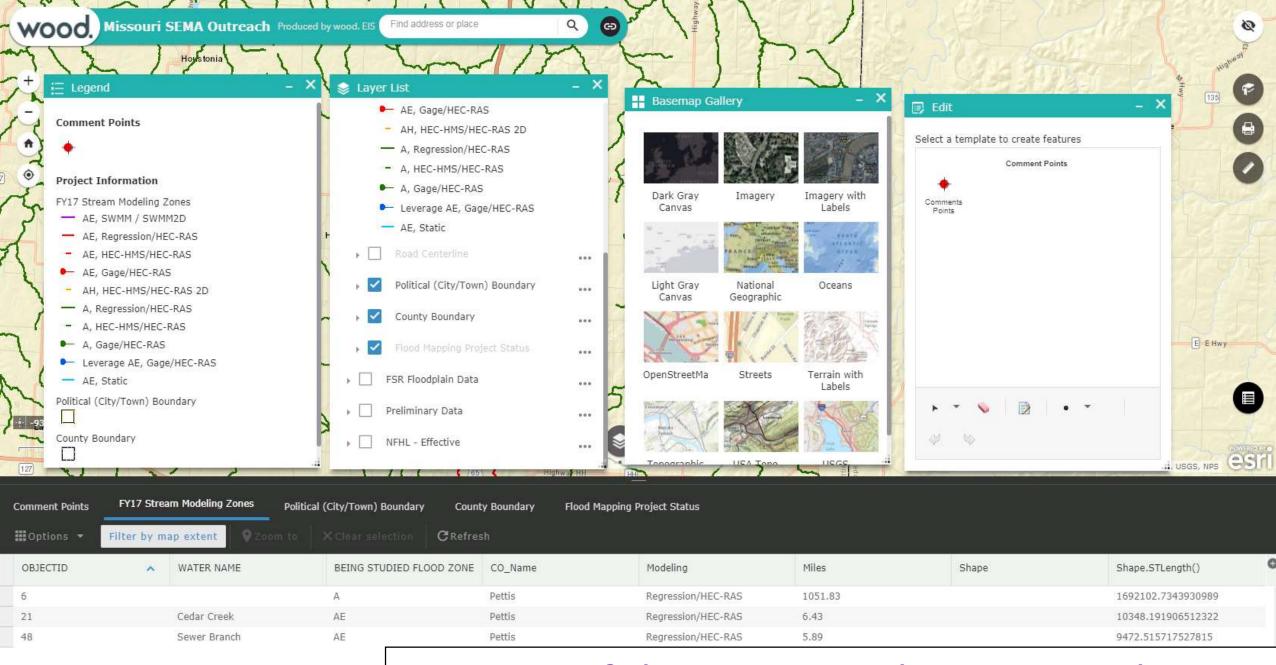
Print the map you see

Measure distance & area





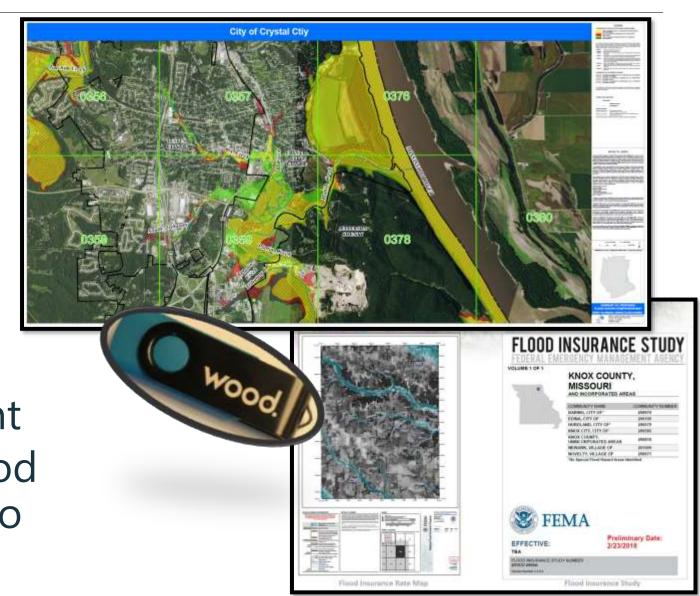




Features of the ArcGIS Online Outreach Map

Other options to get the information

- Hard copies:
 - Project Management Plan
 - FIS Report
 - SOMAs
 - Panels
 - Scroll Maps
 - Handouts/Power Point
 - Thumb drive with flood hazard & meeting info



Examples and future improvements

Missouri Flood Outreach

- http://bit.ly/MOSEMAOutreach
- http://bit.ly/mobile_MOSEMAOutreach

Story Maps

http://bit.ly/KnoxStoryMap

Hazard Mitigation Project

http://bit.ly/MoHazardMitigationPlanViewer2018





Questions?

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Wood.

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woodplc.com

