

# MAKING MITIGATION WORK WEBINAR SERIES



## Natural Hazards Center and FEMA Webinar Series “Making Mitigation Work”

Written Questions and Answers after the September 8, 2020 Webinar  
ArcGIS Capabilities for Mitigation Planning: State of Indiana 2019 Mitigation Plan  
StoryMap and Other Advancing Technologies

Marianne Cardwell, The Polis Center  
Shelby Hines, Esri  
Ryan Lanclos, Esri

### **Question from Anonymous:**

Can ARC Solutions be used in conjunction with NWS Flood Stage warning data?

The Flood Impact Analysis Solution requires a pre-generated flood depth grid and an elevation surface (both raster). Depth grids can be generated using HEC tools or using separate ArcGIS tools – and you should be able to use NWS flood stage data as input to those models.

### **Question from Nancy Ingabire Abayo:**

Are there solutions for earthquake related hazards (such as ground failures) as well?

There are not any ArcGIS solution templates for earthquake loss estimation or visualization. Check out Hazus (<https://msc.fema.gov/portal/resources/hazus>), FEMA’s loss estimation model for earthquake, flood, and hurricane hazards.

### **Question from Chad Bunger:**

Can you pull in HEC-RAS 2D time sequenced flows to the 3D scene to show not only location & depth, but the flow path?

The Flood Impact Analysis only supports a flood depth grid as the hazard input. But you should be able to add visualization of flow paths to the final ArcGIS Pro scene or web scene.

### **Question from Margaret Adams:**

Is this flooding in the 3D model for a 100-year flood? Is this modeling standard with ArcGIS or is this an enhanced plan?

Hi Margaret - you can download the solution here: <https://solutions.arcgis.com/emergency-management/help/flood-impact-analysis/> Note it does require you to create, or leverage existing data

on flood depth, etc. to run. Here is a great story map on the process to start:  
<https://storymaps.arcgis.com/stories/7203b560ad654339b58430e90b71cde8>

**Question from Julian LoRusso:**

Does FEMA use ArcGIS? I'm a grad student at Univ. of New Haven in Emergency Management, also I'm a new reservist for FEMA.

They do! Feel free to reach out to me for more: [rlanclos@esri.com](mailto:rlanclos@esri.com)

**Question from Rebecca Leitschuh:**

What sources the "critical facilities" Solution? Who provides the data, and what fits this definition of critical facilities?

Hi Rebecca - the intent is to allow you (an organization) to aggregate and bring data together into one view to start analyzing, sharing and using this data. You could also source data from external sources as a starting point until you have your own locally verified data set on critical facilities. More on the solution here: <https://solutions.arcgis.com/emergency-management/help/critical-facilities/>

**Question from Israel Del Valle:**

I am an Air Force veteran and worked in an emergency management career field but never heard or worked with ARCGIS, is this a platform that will become a tool for military use? This is my first-time hearing of this due to being a student at University of Central Florida.

The Air Force, and I believe most branches of the military, make use of GIS. You may be interested in GeoBase, which is specific to the Air Force.

**Resources:**

**From Ellen Berggren:** <https://silverjackets.nfrmp.us> - Thanks for the shout out to Silver Jackets!

**From Lori Peek:** Here is a link to the ArcGIS StoryMaps resources (<https://storymaps.arcgis.com/> ) that Marianne is showing us.

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**Comments, Suggestions, or Questions for the Natural Hazard Center?**

Please contact: [katherine.murphy-1@colorado.edu](mailto:katherine.murphy-1@colorado.edu).

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