

xView Challenges
March 2021

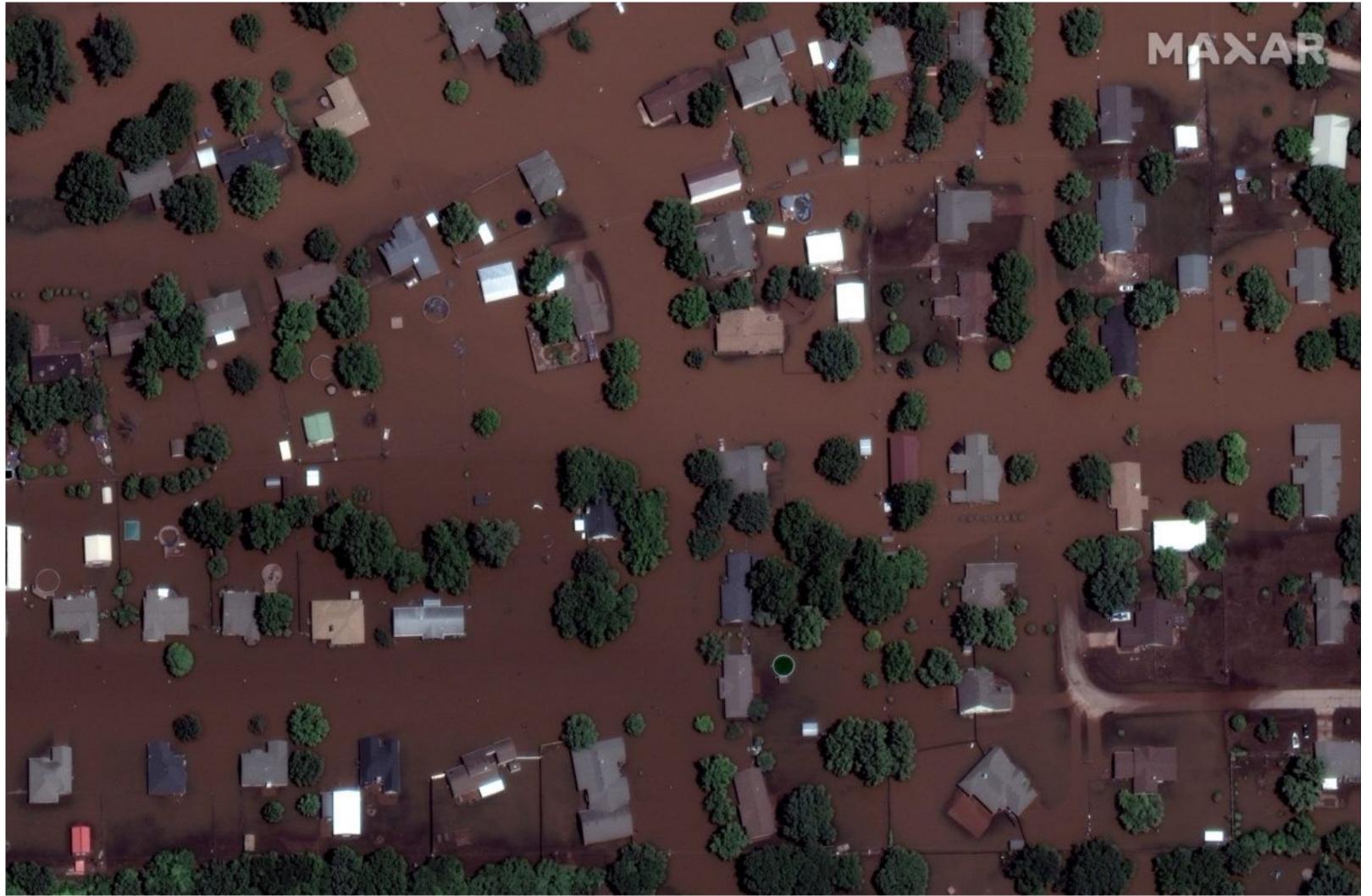
#### **PANELISTS**

- Bryce Goodman
   Consultant, Al/ML Portfolio
   Defense Innovation Unit
- Carol Smith
   Sr. Research Scientist in HMI
   Software Engineering Institute,
   Carnegie Mellon University

- Aaron Reite, Ph.D.
   Senior Staff Scientist
   National Geospatial-Intelligence Agency
- Richard Marcum
   R&D Scientist
   National Geospatial-Intelligence Agency



### **BACKGROUND**







#### xView 2











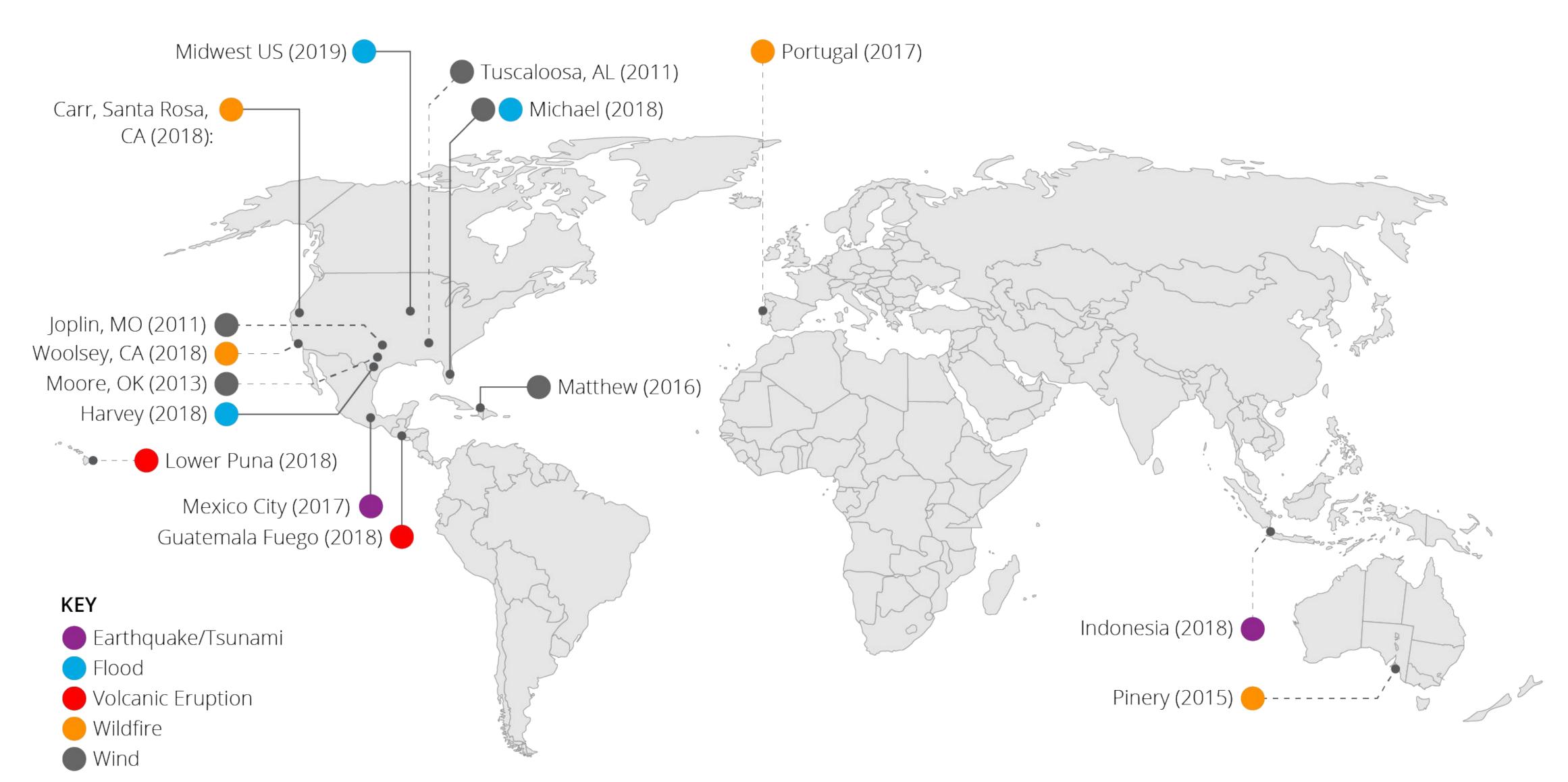








#### **DIVERSITY OF LOCATIONS**



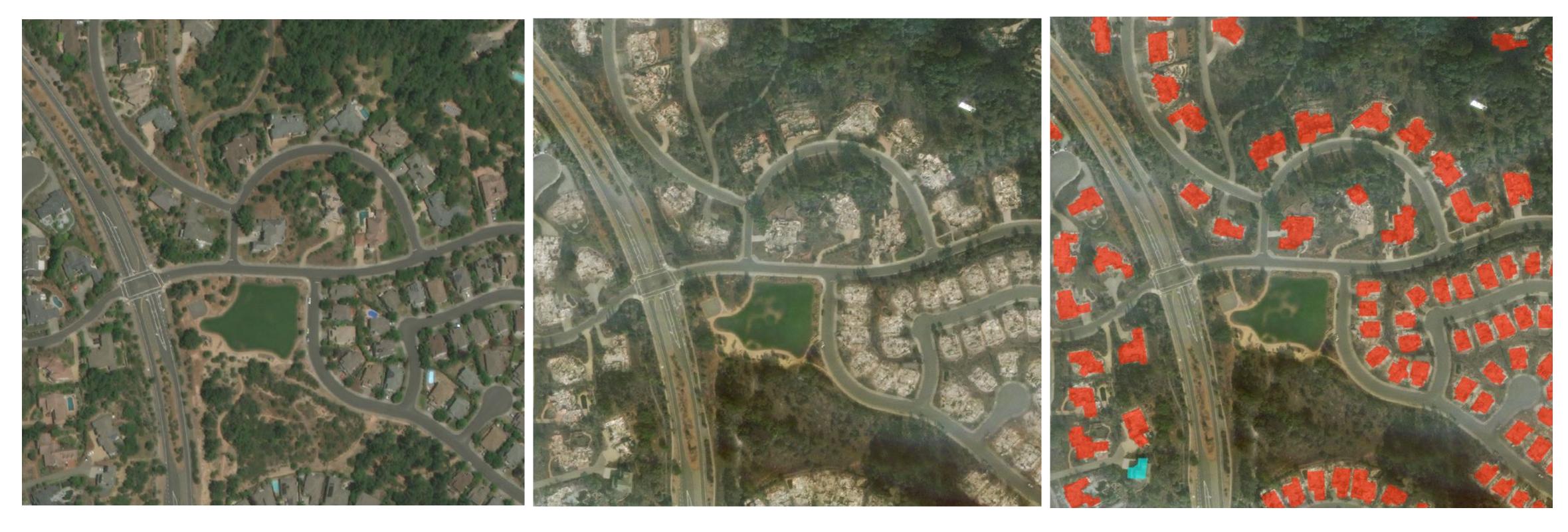


#### JOINT DAMAGE SCALE

Disaster Level	Structure Description
<b>0</b> (No Damage)	Undisturbed. No sign of water, structural or shingle damage, or burn marks.
1 (Minor Damage)	Building partially burnt, water surrounding structure, volcanic flow nearby, roof elements missing, or visible cracks.
2 (Major Damage)	Partial wall or roof collapse, encroaching volcanic flow, or surrounded by water/mud.
3 (Destroyed)	Scorched, completely collapsed, partially/ completely covered with water/mud, or otherwise no longer present.



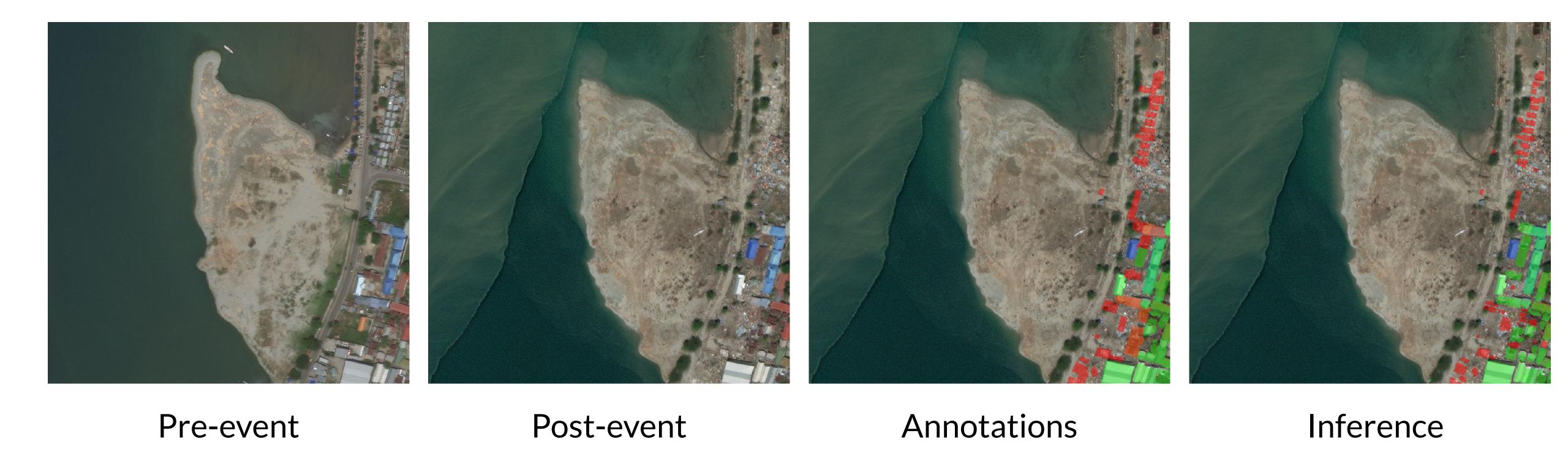
#### DATA



Pre-event Post-event Annotations

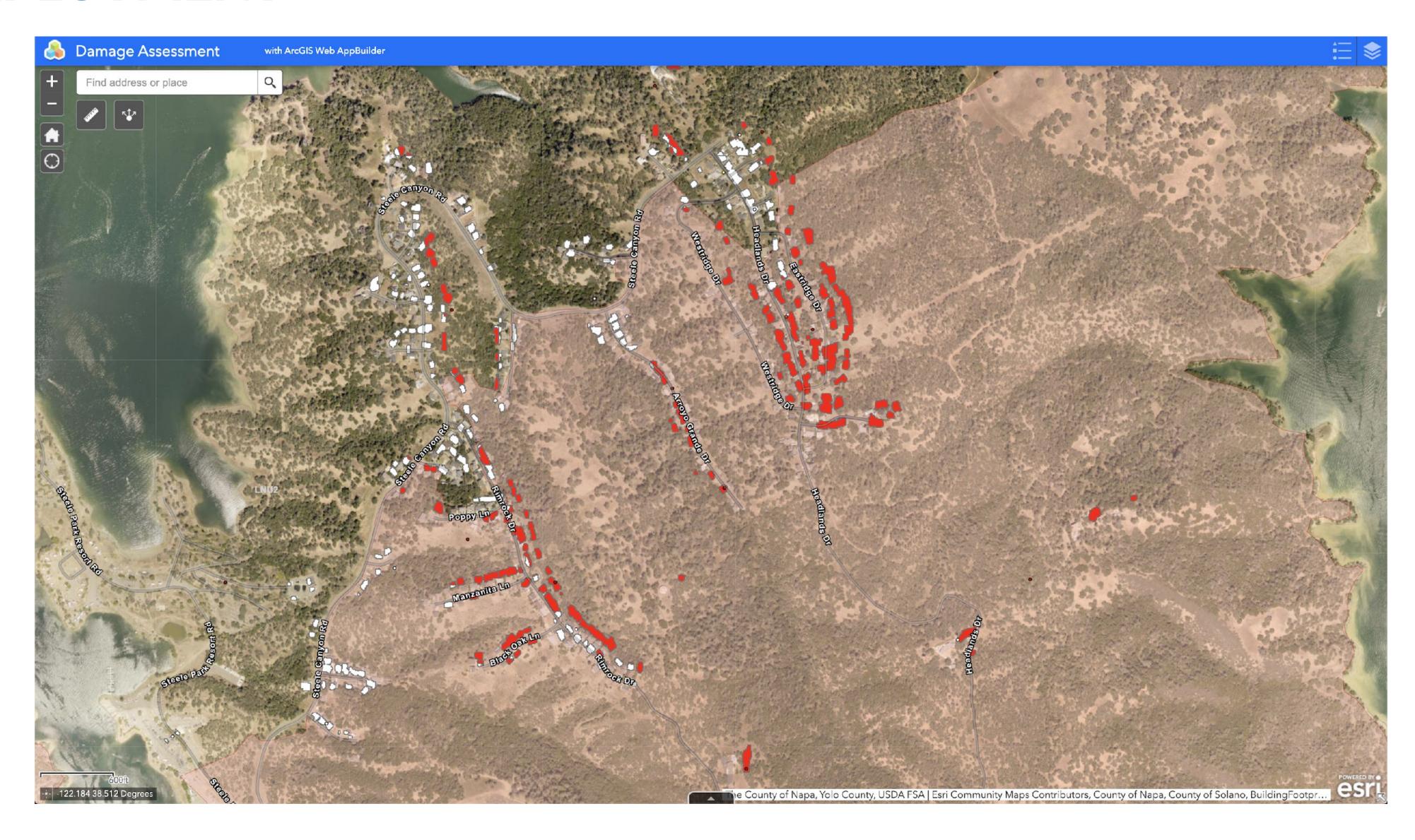


### DATA





### **DEPLOYMENT**





#### **DATA ACCESS**

xView 1: <a href="http://xviewdataset.org">http://xviewdataset.org</a>

xView2: <a href="https://xview2.org">https://xview2.org</a>

GitHub: <a href="https://github.com/DIUx-xView">https://github.com/DIUx-xView</a>



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