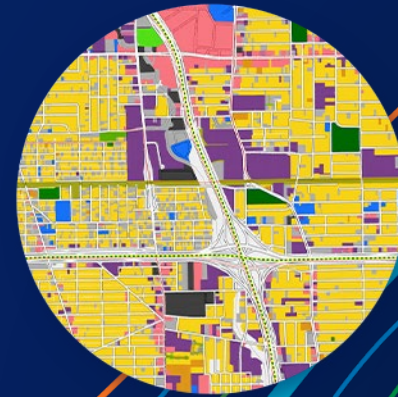
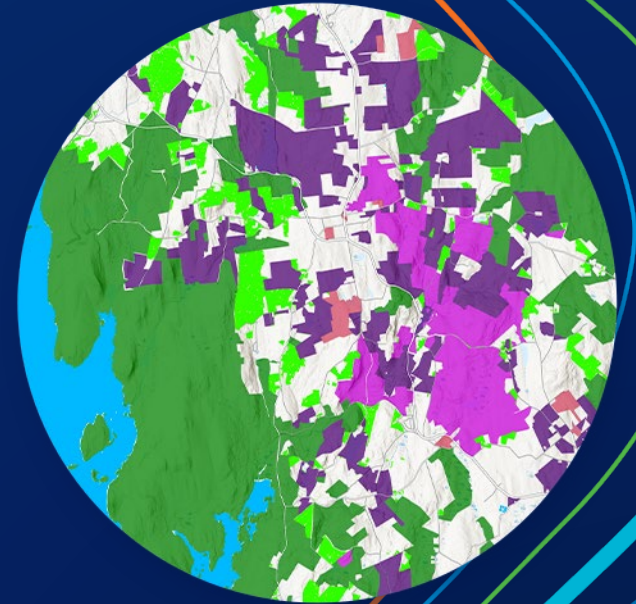


Let the Data Lead: AI Driven Damage Detection and Risk Analysis

Valerie Desrosier | Sr. Solution Engineer, Esri



ArcGIS Is Being Enhanced with AI

Integrating the Power of GIS and AI

Advancing Science



*Foundation,
Vision Language Model
& Embedding*

*100+ Pretrained Models
... Open & Extendable*



GeoAI
(Tools & Models)



Natural Language

AI Assistants
(Improve Access
& Efficiency)

**Secure &
Trustworthy**

Productivity



Supporting

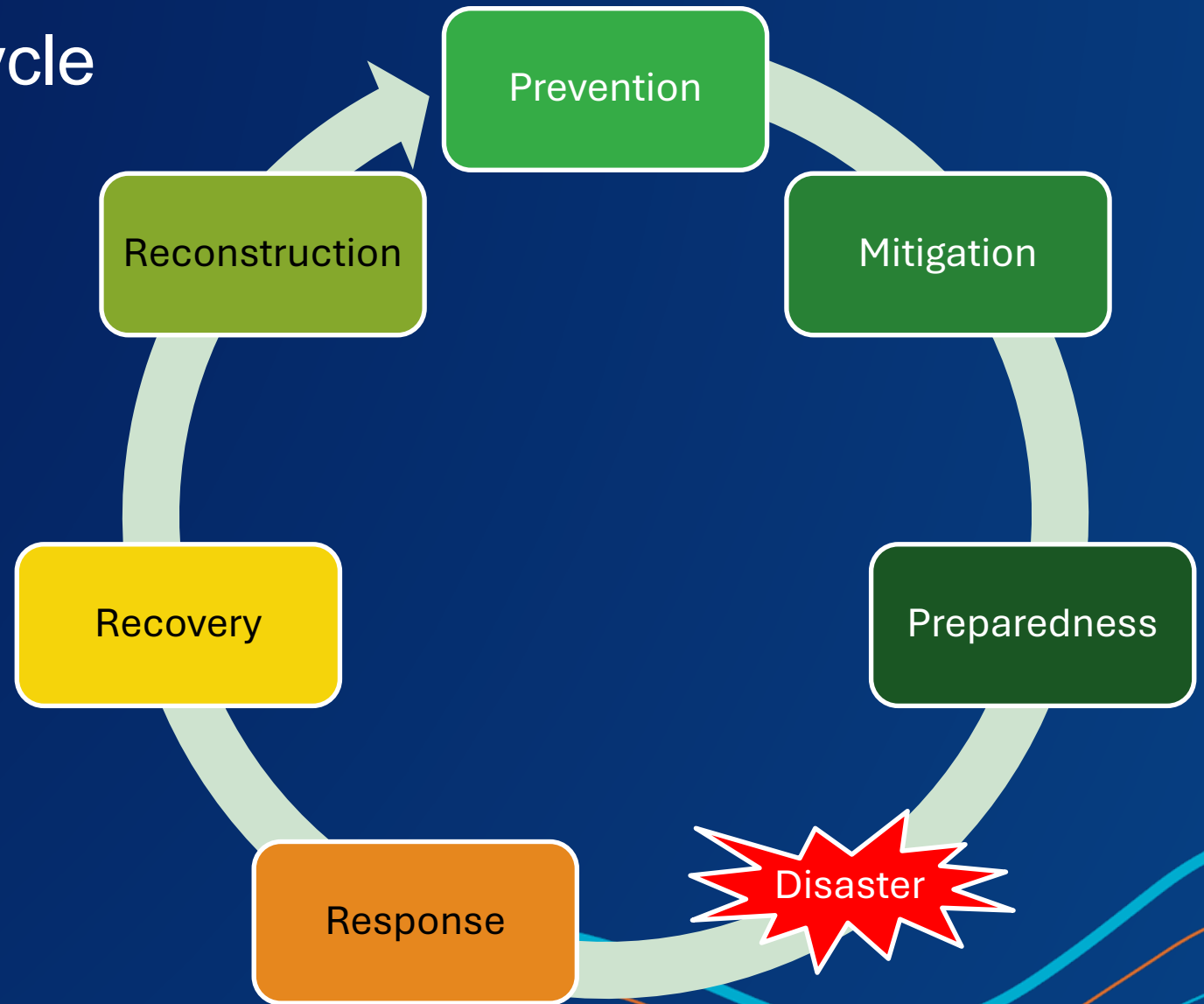
- **Documentation**
- **Tech Support**
- Mapping & Analysis
- **Code Generation**
- App & Solution Creation
- Translation

*Making ArcGIS easier
... and more intelligent*

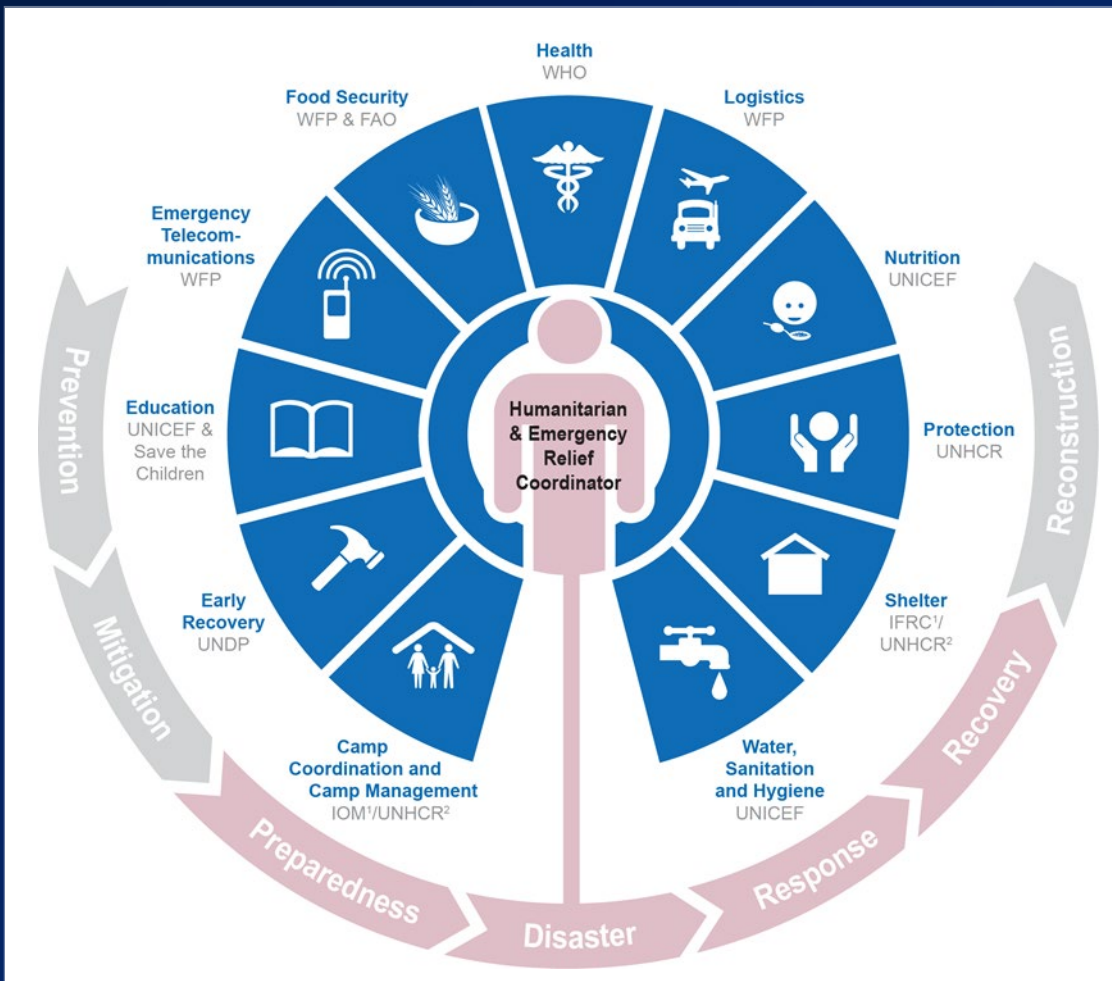
Disaster Response Lifecycle

Three types of disasters

1. Sudden/Rapid Onset Disasters
2. Slow Onset Disasters
3. Complex Humanitarian Emergencies



Humanitarian Coordination



Cluster	Coordinating Institution(s)
Camp Coordination and Camp Management	International Organization for Migration, and the United Nations High Commissioner for Refugees
Early Recovery	United Nations Development Programme
Education	UNICEF and Save the Children
Emergency Telecommunications	World Food Programme
Food Security	World Food Programme and Food and Agriculture Organization
Health	World Health Organization
Logistics	World Food Programme
Nutrition	UNICEF
Protection	United Nations High Commissioner for Refugees
Shelter	International Federation of Red Cross and Red Crescent Societies and the United Nations High Commissioner for Refugees
Water, Sanitation and Hygiene for Health	UNICEF

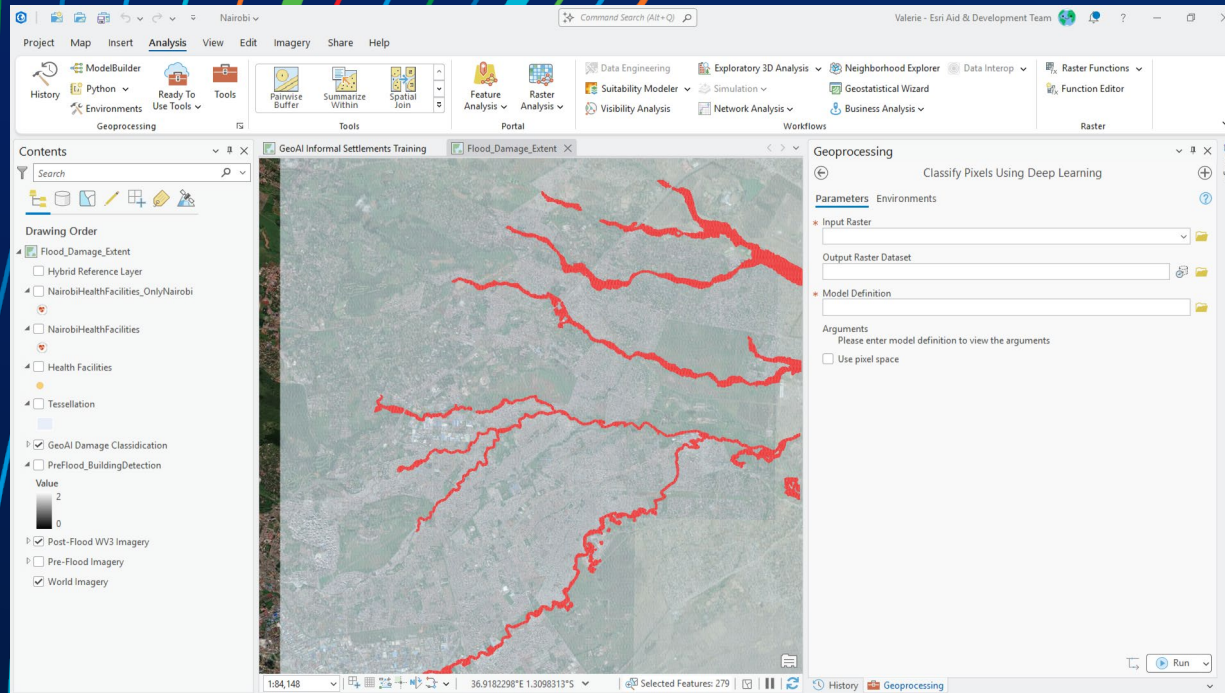
Scenario

- Kenya – Floods
- March 2024
- March-April-May = Long Rains
 - October-November-December = Short Rains



Thanks to the Kenyan Red Cross Society and Boneya Hindada for the data, photos, and their work during the 2024 floods.





AI for Response Demo

Thank you!

