Planning and Response Issues for Transportation Before and After the Shake!

lashville

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EISMIC ZONE

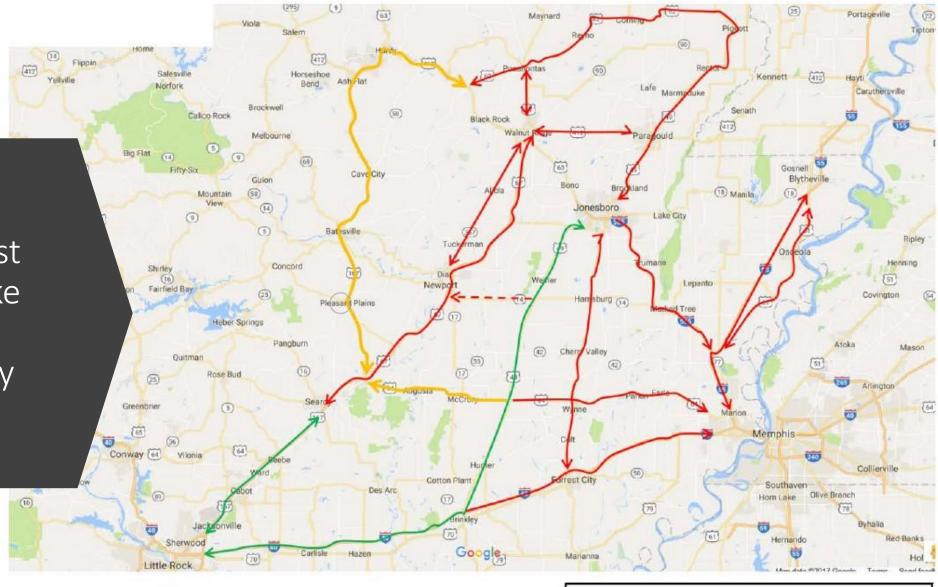
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ArDOT Affected Transportation Facilities

Transportation Lifelines	Total Facilities	At Least Moderate Damage	Complete Damage
Highway Bridges	14,060	1,083	336
Railway Bridges	68	11	0
Railway Facilities	69	14	0
Bus Facilities	18	1	0
Port Facilities	103	17	0
Airport Facilities	335	37	0

ArDOT Post Earthquake route availability



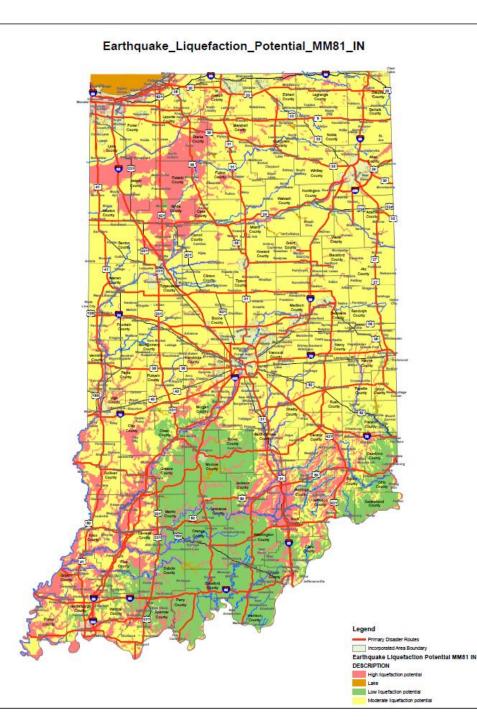
Hazus modeling route functionality post-earthquake

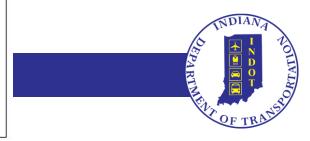
Potentially functional

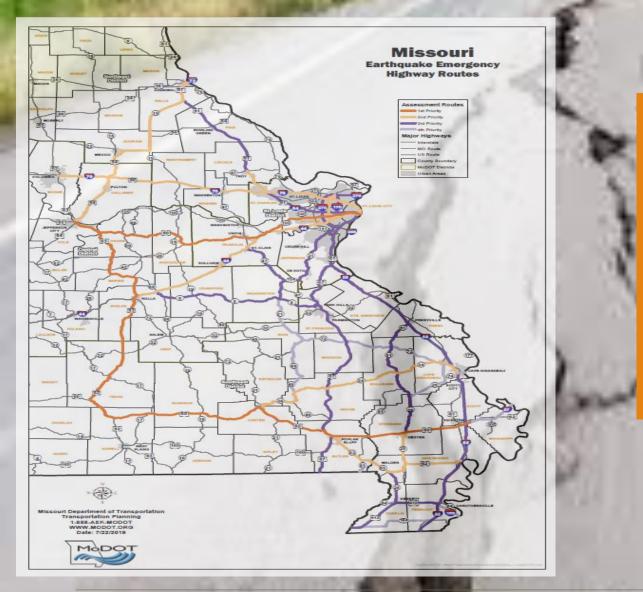
Possibly functional w/in days to weeks

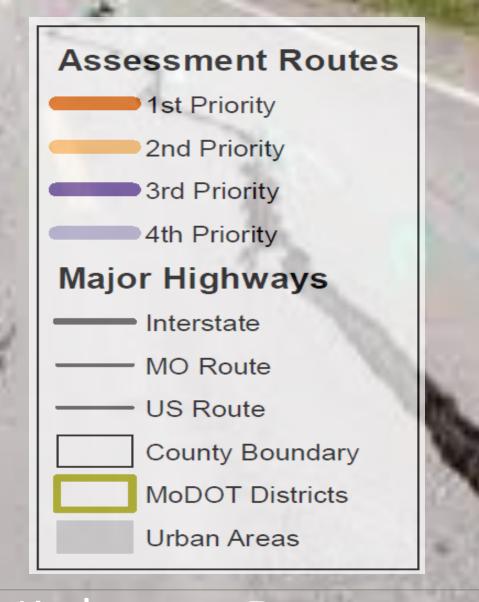
Not functional for weeks to months

Indiana Liquefaction



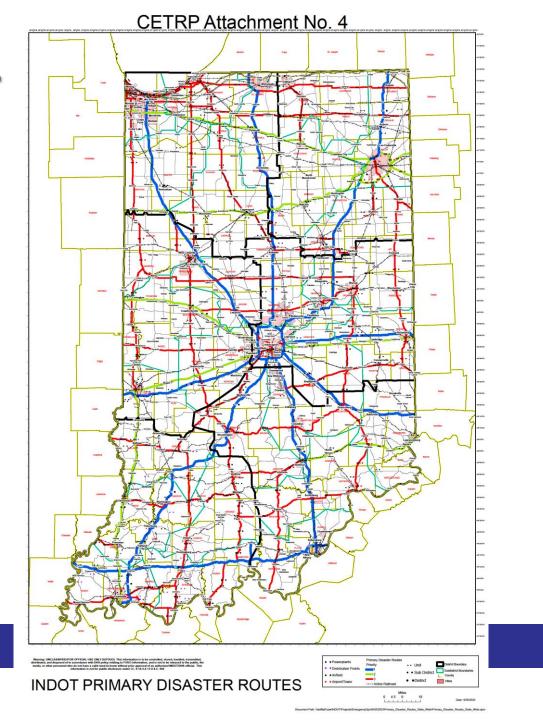






Emergency Highway Routes

Indiana Disaster Routes



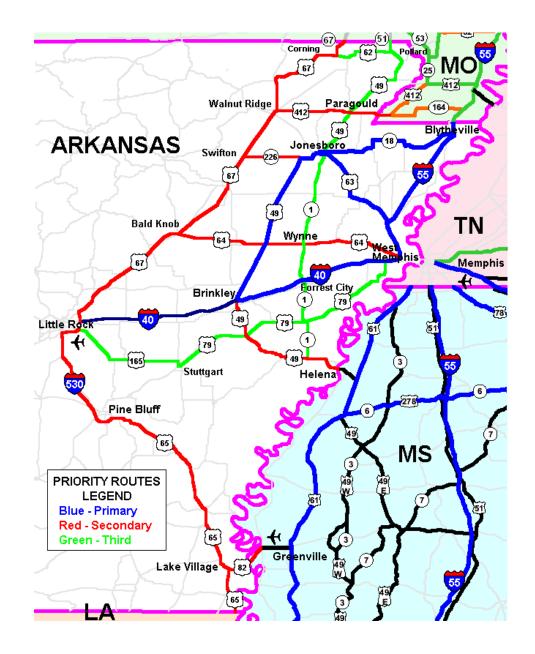


ArDOT Priority Ingress/Egress Routes

• US 49 from I-40 to Jonesboro follows along Crowley's Ridge and does not have any bridge length structures.

• I-40 from Little Rock to Brinkley has one major river crossing at the White River. The river crossing bridge was constructed in 2019 with the current seismic design standards.

• I-40 from Brinkley to West Memphis will be questionable post earthquake due to the bridges over the St. Francis River.



MoDOT Staging locations New Madrid Seismic Zone

Wentzville Staging Area - Eartquake

St Clair Earthquake Staging

MISSOURI

Columbia

Jackson Earthquake Staging/EOC

Paducah

Evansville

Springfield

Branson

Kansas City

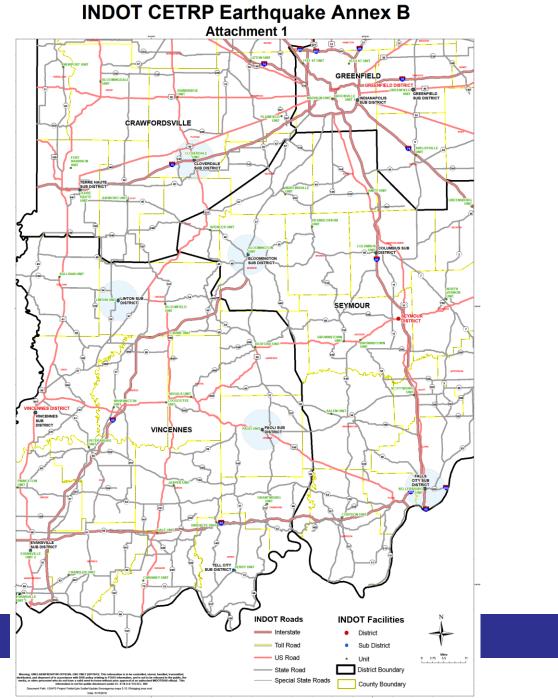
Joplin

Willow Springs Earthquake Staging

Wentzville 2000 Gallons of Diesel 1000 Gallons of Gas St Clair Mt 3500 Gallons of Diesel 960 Gallons of Gas Jackson Forward Mt 2000 Gallons of Diesel 2000 Gallons of Gas

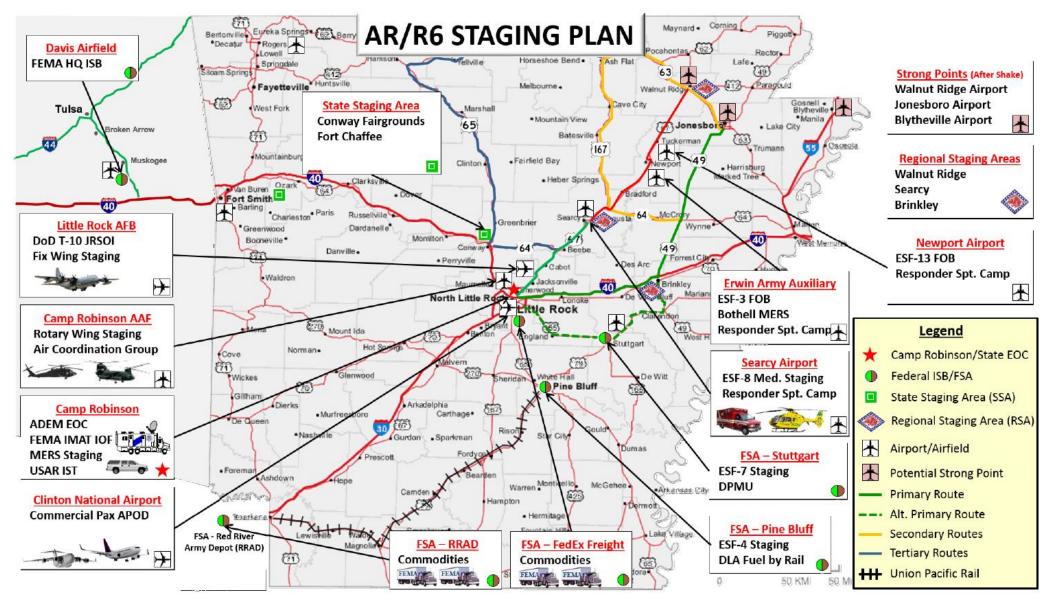
Willow Spring Mt 5700 Gallons of Diesel 6000 Gallon of Ga

INDOT Staging Areas



ARTHER OF TRANSPORT

ArDOT Staging Areas



MoDOT-Response Fuel

500 Dump Trucks

450 Passenger Car, Pickups and Vans

170 pieces of additional resources – skidsteer, excavator, loader ect.

For MoDOT response only daily fuel needs are 17,500 gallons of diesel and 3,500 gallons of gasoline

4 Stagging Areas can hold 13,200 Gallons of diesel, 9,900 gallons of gasoline

7 CSR 10-11.020 (6) Emergency Procurement - When conditions meet the criteria of an emergency situation as defined in 7 CSR 10-11.010 ((15) Emergency—A situation which creates a serious and obvious threat to the public health, welfare, or safety, or creates a serious and obvious threat to the operation of the department in executing its legal responsibilities to the public or for the persons or property in its legal care, custody, or control, or a combination of these), emergency procurement procedures may be utilized. Formal competitive bids or proposals may be waived, but an emergency procurement should be made with as much informal bidding as practicable. Only those supplies which are necessary to alleviate the emergency may be purchased using emergency procedures.

Indiana Fuel Plan

Current burn rate for INDOT: 14,275 gallons / day

Fuel purchased at commercial stations. No tanks/pumps owned by INDOT.

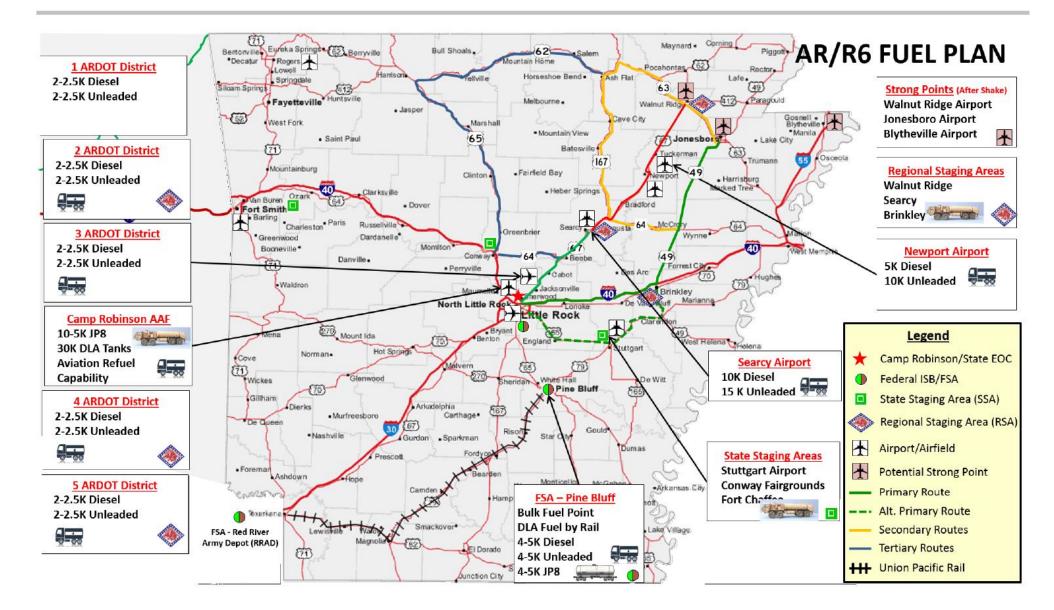
Emergency contract through Macro Companies

- Provide all types of fuel
- Will set up mini-mobile fueling stations
- Mobile fuel tankers
- Fuel supply chain

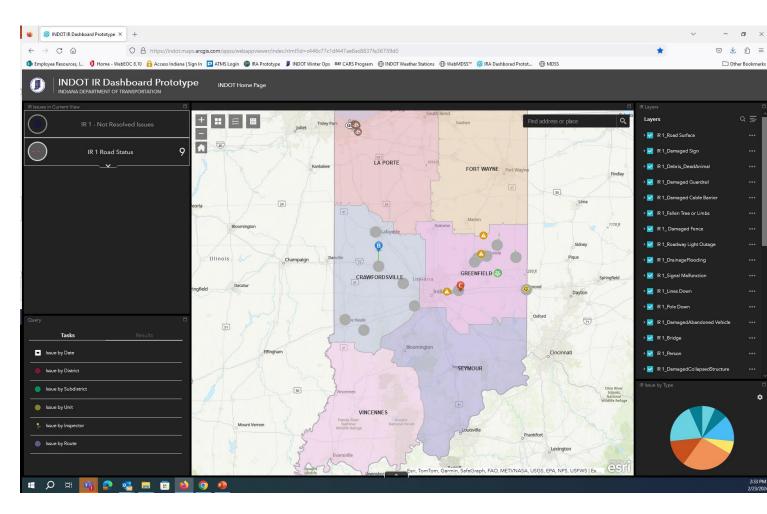
INDOT maintains the fuel contract supporting Indiana Department of Homeland Security



ArDOT Fuel Plan



Indiana Incident Response App



INDOT Incident Response ·	Prototype 1	INDOT Incident Response - Prototype 1	
	Type Description	Overnowing-ditch	
ncident Name * ncident A	Drainage/Flooding Description	Date Captured	
oute Name *	Road Status	Tuesday, December 21, 2021	
I-69nb	Closed	🕒 12:43 PM	
lef Post	Open	▶ Images	
222.4	Comments	Other Location Info	
ocate on map *	Overflowing ditch	Completion/Resolved Date	
	Date Captured	Setting completion date to today or earlier will set Resolved to Yes	
Center 67	Tuesday, December 21, 2021	🗂 Date	
	© 12:43 PM	Resolved	
69	Images	Yes	
	Other Location Info	No	
Type * Drainage/Flooding	Completion/Percelued Date	User	
Type Description	 Completion/Resolved Date Setting completion date to today or earlier will set Resolved to Yes 	MNichols2@indot.IN.gov	

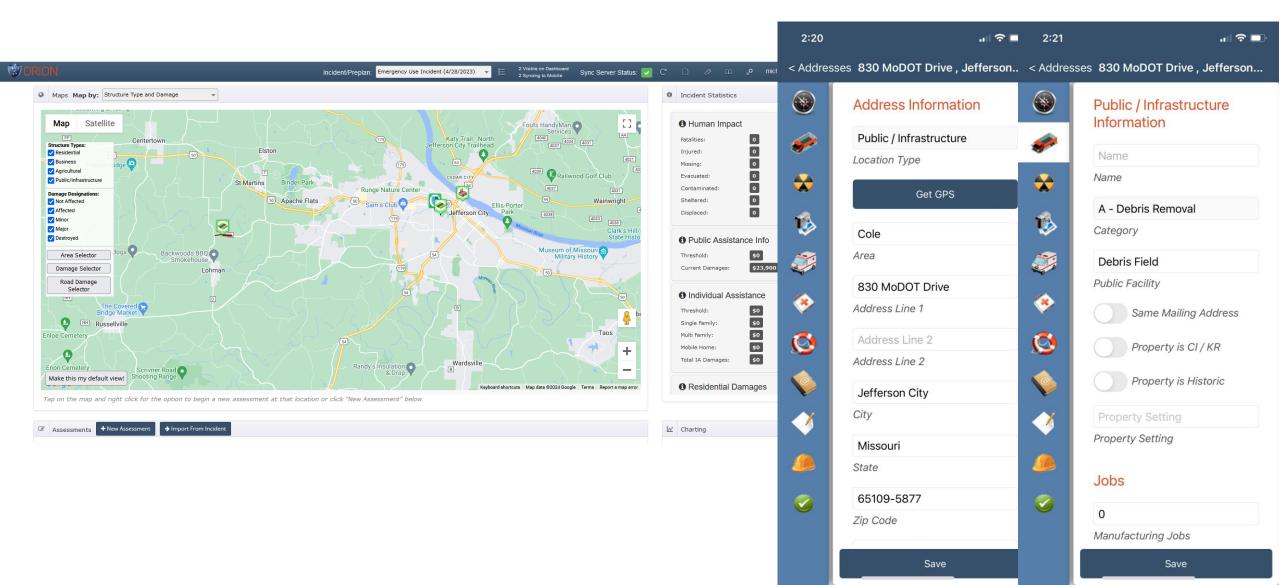
- Inputs by field personnel on mobile device
- Dashboard/Map view by command

Future Enhancements

- Interact with FHWA DDIR reimbursement
- Interact with State Homeland Security



MoDOT Damage Assessment App (Orion)



Contact Information

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