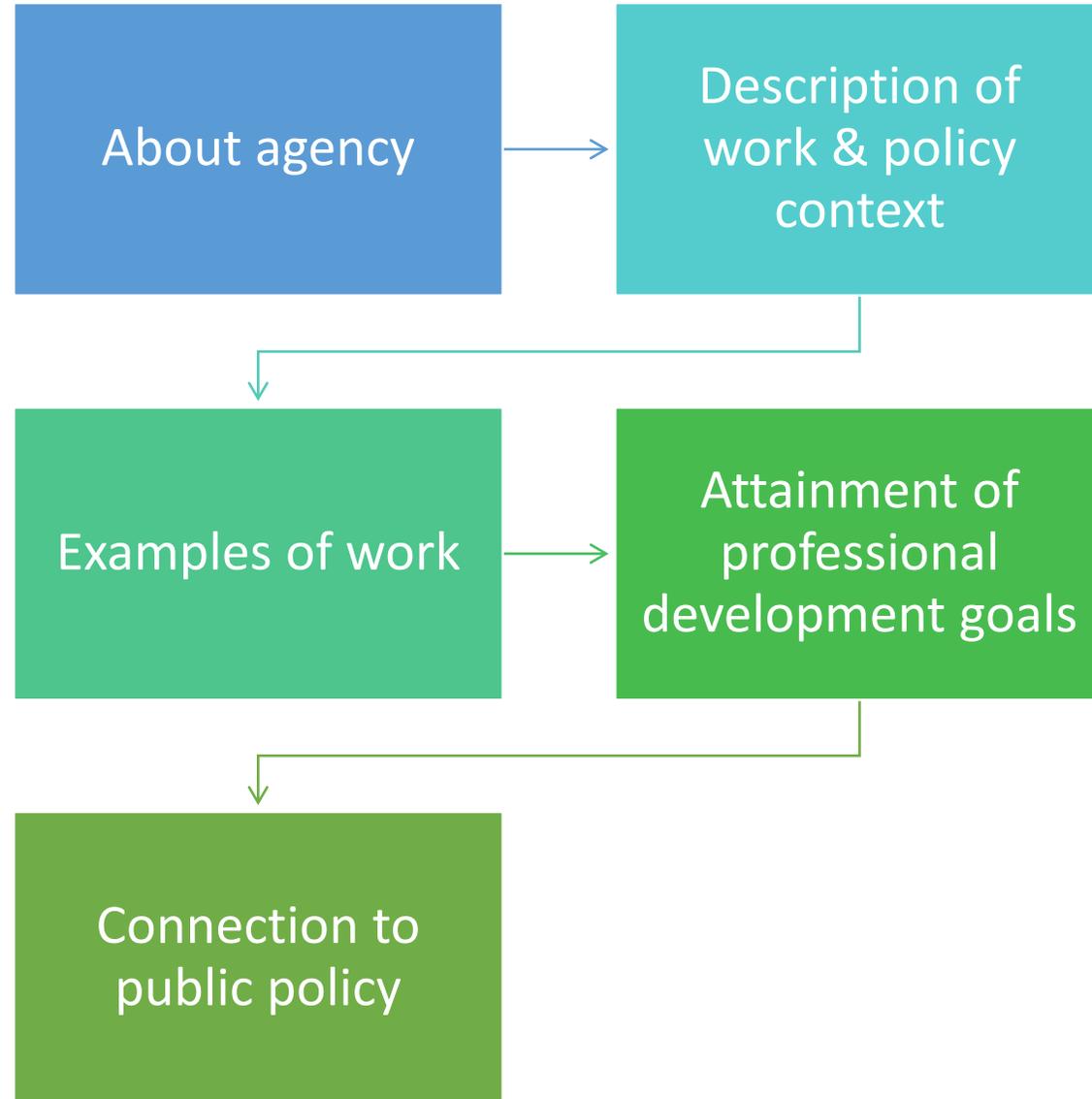


Working for the New Jersey Climate Change Resource Center

Tracy P. Glova,
Master of Public Policy Candidate '22

Agenda



- Housed at Rutgers University
- Chartered in January 2020 to “create and support the use of impartial and actionable science to advance government, public, private, and nongovernmental sector efforts to adapt to, and mitigate, a changing climate”



Introducing the Climate Resilience Corps

Meet the team of graduate students helping New Jersey municipalities assess and plan for climate hazards.

[Watch the Video](#)

Climate Resilience Corps

- “Cohort of graduate students supporting the Center’s applied research, analysis, and program work”
 - Develop guidance to practitioners to enhance adaptation, mitigation, and resilience in the public, private, and nongovernmental sectors;
 - Undertake pilot projects that can be replicable throughout the State; and
 - Enhance the State’s capacity to address climate risks and impacts through outreach, training, engagement, and education of policy-makers, practitioners, the media, and other key stakeholders.

Description of work & policy context

- Graduate Assistant for NJAdapt project (Spring 2021-Spring 2022)
- Technical skills: data organization, data cleaning, ArcGIS, land use planning, hazard mitigation planning, policy analysis

Relevant policy:

- New Jersey Executive Order 89
- NJ S2607
- 09/10/21 FEMA update to Hazard Mitigation Assistance programs and mitigation planning regulations



Advancing Climate Change Resilience in New Jersey:
Intersecting science-informed data visualization tools with guidance and vulnerability assessment to inform resilience and hazard mitigation planning

September 15, 2020

Example of data organization

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Calibri (Body) 11 Wrap Text General Conditional Formatting Format as Table Cell Styles Insert Delete Format Sort & Filter Find & Select Analyze Data Sensitivity

F25

	A	B	C	D	E	F	G	H
1	Components and subcomponents	HIFLD Data Sets	Data URL	Feature Service URL	HIFLD Data is NJADAPT Layer	Location in FloodMapper Layers	Location in Municipal Snapshots	Action / Status
2	Medical Care							
3	Hospitals	Hospitals	https://hifld-geoplatform.opendata.arcgis.com/datasets/hospitals	https://services1.arcgis.com/Hp6G80Pky0om7QvQ/ArcGIS/rest/services/Hospitals_1/FeatureServer/0	Y	Infrastructure	Critical Assets, Public Health	
4	Hospitals	Urgent Care Facilities	https://hifld-geoplatform.opendata.arcgis.com/datasets/hospitals	https://services1.arcgis.com/Hp6G80Pky0om7QvQ/ArcGIS/rest/services/Urgent_Care_Facilities/FeatureServer/0	N			
5	Hospitals	Urgent Care Facilities	https://hifld-geoplatform.opendata.arcgis.com/datasets/hospitals	https://services1.arcgis.com/Hp6G80Pky0om7QvQ/ArcGIS/rest/services/Urgent_Care_Facilities/FeatureServer/0	N			
6	Hospitals	Urgent Care Facilities	https://hifld-geoplatform.opendata.arcgis.com/datasets/hospitals	https://services1.arcgis.com/Hp6G80Pky0om7QvQ/ArcGIS/rest/services/Urgent_Care_Facilities/FeatureServer/0	N			
7	Dialysis	Kidney Dialysis Centers	https://hifld-geoplatform.opendata.arcgis.com/datasets/kidney-dialysis-centers	CSV file from DHS. Will need to manually host. Shapefile created and available.	N			
8	Dialysis	Kidney Dialysis Centers	https://hifld-geoplatform.opendata.arcgis.com/datasets/kidney-dialysis-centers	CSV file from DHS. Will need to manually host. Shapefile created and available.	N			
9	Pharmacies	Pharmacies	https://hifld-geoplatform.opendata.arcgis.com/datasets/pharmacies	CSV file from DHS. Will need to manually host. Shapefile created and available.	N			
10	Long-Term Care Facilities	Nursing Homes	https://hifld-geoplatform.opendata.arcgis.com/datasets/nursing-homes	https://services1.arcgis.com/Hp6G80Pky0om7QvQ/ArcGIS/rest/services/NursingHomes/FeatureServer/0	N			
11	VA Health Systems	Veterans Health Administration Medical Facilities	https://hifld-geoplatform.opendata.arcgis.com/datasets/veterans-health-administration-medical-facilities	https://services1.arcgis.com/Hp6G80Pky0om7QvQ/ArcGIS/rest/services/Veterans_Health_Administration_Medical_Facilities/FeatureServer/0	N			
12	Veterinary Services	Veterinary Service Facilities	https://gii.dhs.gov/host/rest/services/Hosted/Veterinary_Service_Facilities/FeatureServer/0					
13	Home Care	Hospices	https://data.hrsa.gov/maps/services	https://gisportal.hrsa.gov/server/rest/services/HealthCareFacilities/CMSApprovedFacilities_FS/FeatureServer/4	N/A			
14	Federally Qualified Health Centers	Federally Qualified Health Centers	https://data.hrsa.gov/maps/services	https://gisportal.hrsa.gov/server/rest/services/HealthCareFacilities/CMSApprovedFacilities_FS/FeatureServer/2	N/A	N/A	N/A	

SftyScrty_Ifln SftyScrty_Ifln_v2 **Hlth_Ifln** FWS_Ifln Comm_Ifln HazardInventory **NJFloodmapper** DataDisplayInventoryExample **FEMA Region II Community Profil** MiddlesexHMP +

Ready 100%

Example of work within ArcGIS:

[New Jersey Health and Medical Lifelines Flood Exposure Analysis](#)



Attainment of professional development goals

- ✓ Gain experience in hazard mitigation planning
- ✓ Work at state level
- ✓ More experience in ArcGIS

Connection to public policy

- Flood hazard exposure analyses are based on Flood Insurance Rate Maps (FIRMs) created by FEMA
- FEMA's budget is subject to Congressional allocation and Presidential budget cuts → Out of date, nonexistent FIRMs → Reduced community resilience





Thank you for listening!