



## Tool Abstracts and Presenter Bios

### NJTPA Hub Initiatives

**Abstract:** For the last year and a half, the NJTPA has been evaluating and exploring a new Esri platform called ArcGIS Hub. ArcGIS Hub is an easy-to-configure community engagement platform that organizes people, data, and tools through information-driven initiatives. To date the NJTPA has launched several Hub initiatives including, Open Data Portal, MAP Forum, Local Concept Development studies, and Plan 2050. These initiatives provide data, information on upcoming events, and interactive maps and applications to support community engagement and data exchange.

**Presenter:** Gabrielle Fausel, NJTPA

**Bio:** Gabrielle Fausel has been working as a Principal Planner in GIS and Planning Tools at the NJTPA for the last nine years. Her work at the NJTPA is primarily on GIS projects ranging from data management to web mapping. She has a bachelor's degree in environmental studies, master's in community planning and certificate in GIS.

### NJFloodMapper

**Abstract:** The NJFloodMapper (<https://www.njfloodmapper.org/>) is an interactive mapping tool that allows users to conduct flood exposure analysis based on the best available science for sea-level rise and numerous other parameters, including total water levels, hurricane surge, FEMA flood zones, and Hurricane Sandy surge. Additional map layers depict infrastructure, environmental hazards, marsh and open space, social vulnerability, flood insurance payments for property loss, and land use. The application was designed and created to provide a user-friendly visualization tool for those who make coastal decisions. It can be used to promote enhanced resilience and land use planning decisions with considerations for possible future conditions. Funding for the development of this website was provided by NOAA's Cooperative Institute for Coastal and Estuarine Environmental Technologies (CICEET), New Jersey Recovery Fund, New Jersey Sea Grant, New Jersey Department of Environmental Protection, the New Jersey Agricultural Experiment Station and the National Estuarine Research Reserve System (NERRS) Science Collaborative.



**Presenter:** Lucas Marxen, Rutgers University

**Bio:** Lucas Marxen is the Associate Director of the Office of Research Analytics at Rutgers University where he provides leadership and direction on the development of analytical capabilities and services to meet the ongoing demand of stakeholders both within and outside the university. Lucas has expertise in developing geographic information systems (GIS), enabling spatial analysis and modeling for research initiatives in a variety of disciplines. In addition, he leads a team that specializes in developing data informatics systems that combine computer science and data visualization techniques into platforms that bring research and data to a broad set of stakeholders. He has also established in-house capacity for developing custom software, database and website solutions for a variety of research and extension initiatives. Lucas earned a master's in city and regional planning from the Edward J. Bloustein School of Planning and Public Policy, a master's in computer science from Rutgers University, and is currently pursuing a doctorate in planning and public policy from the Edward J. Bloustein School of Planning and Public Policy.

### **Engage!**

**Abstract:** The NJTPA's newly updated toolkit that allows users to search through more than 300 specific tools for innovative public engagement. Approaches and tools range from best practices to specific methods or platforms to prepare for and conduct research and obtain valuable input from stakeholders and the public (<https://engage.njtpa.org/>).

**Presenter:** Ted Ritter, NJTPA

**Bio:** Ted Ritter is Manager of External Affairs at the NJTPA. He represents the NJTPA at official meetings, conferences, and special events; develops creative videos and presentations; and manages innovative, award-winning public engagement projects.

Mr. Ritter joined the NJTPA after a career as a radio news anchor, writer, and reporter in the Washington/Baltimore corridor and NJ/NY metropolitan area. He earned a master's degree in journalism and public affairs from American University and a bachelor's degree in political science with honors from Niagara University.



## **NJ Land Use + Transit Data Application Version 2.0**

**Abstract:** The NJ Land Use + Transit Data Application (<https://njlutrans.org/>) debuted in 2017. The application allows users to map, report, and download a range of land use, travel, public transit, demographic, and real estate development data. Version 2.0 of the application will be launched later this spring. The updated version will feature a new user interface, updated data, including local development data for municipalities in Bergen, Hudson, and Passaic counties and the City of Newark, and high-frequency bus corridors statewide. In addition, the updated application will include several new tools, including: a corridor planning tool, a transit oriented development (TOD) opportunity tool, flood exposure tool, and a tool to visualize social justice data. This demonstration will preview the new layout, data, and data exploration tools included in the updated application.

**Presenter:** Jon Carnegie and Lucas Marxen, Rutgers University

**Bios:** Jon Carnegie, AICP/PP, is Executive Director of the Alan M. Voorhees Transportation Center at Rutgers, The State University of New Jersey and an adjunct member of the faculty at the Edward J. Bloustein School of Planning and Public Policy at Rutgers. Mr. Carnegie has nearly 30 years of experience in the fields of land use and transportation planning and policy at the municipal, county and regional level. His expertise includes: multimodal transportation planning and policy, land use planning, transit-oriented development, emerging mobility options, community development, public engagement, vulnerability/risk assessment, resilience and climate change adaptation, community impact assessment, sustainability, driver licensing policy, transportation equity, and environmental justice. Mr. Carnegie has served as the principal investigator or co-principal investigator on a range of transportation planning and policy projects for public, private and non-profit clients. He holds a bachelor's degree and a master's degree in city and regional planning from Rutgers University.

For Lucas Marxen's bio, please see above.