

# The Florida Brownfields Redevelopment Atlas A Decision Support Tool for Sustainability Assessment

### Background

Both the U.S. Environmental Protection Agency (EPA) and the Florida Department of Environmental Protection (FDEP) would like to better understand the impacts of federal funding provided to eligible communities who have demonstrated a need for funding assistance for assessment and remediation work in advance of planned and agreed-upon brownfields redevelopment.

This project is a collaborative effort between EPA, FDEP, and the University of South Florida (USF), with the greater goal of identifying social and economic impacts associated with redeveloped brownfield sites across Florida where assessment and cleanup activities were funded under the State and Tribal Response Program (SRP) Grant program. The project resulted in the creation of the Florida Brownfields Redevelopment Atlas, available at www.usf.edu/brownfields.





# E. Christian Wells, Ph.D. • Center for Brownfields Research & Redevelopment • University of South Florida

#### **Overview**

The Florida Brownfields Redevelopment Atlas is an online discovery tool that allows researchers to explore, summarize, and extract various types of environmental and socioeconomic data, with an emphasis on change over time, at the census block group level for the entire state of Florida (all census data currently used in the Atlas are intended to be analyzed at the block group level of geography).

Data for the Atlas originates from numerous sources. Census data were









A total of 15 brownfield sites (with established BSRAs) have been evaluated with the Atlas for return on investment (ROI), calculated on a scale of 1 (low) to 10 (high) using the social, economic, and environmental indicators. All sites were then groundtruthed in person, where semi-structured interviews with area residents and local businesses were conducted, transcribed, and analyzed. Overall, the findings indicate that the Atlas correctly predicted the perceived ROI approximately 80 percent of the time. In cases where there was a significant mismatch, we found that political factors unexpectedly influenced the redevelopment process. We also found that state investments in brownfields remediation through SRP funding had only a small effect (Cohen's d=0.2) on underserved communities.



## Evaluation