



# The Polis Center Annual Report FY2019

## About The Polis Center

The Polis Center is an applied research unit at IUPUI committed to linking university and community knowledge. By combining data and information technologies effectively across a variety of domains, we support research and analysis for better decision-making and to help improve policy and practice for the greater good of communities in Indiana.

*A unit of the IUPUI School of Liberal Arts*

# Contents

Overview .....	4
Key Initiatives .....	6
Emphasis Areas .....	10
Community Informatics .....	10
Geoinformatics .....	16
Health Geoinformatics .....	23
Other Center Activities .....	29
Spatial Humanities .....	29
Spirit & Place.....	31
Organizational Structure .....	36
Sustainability.....	37

# Overview

*Mission: The Polis Center works with our partners to define, measure, and improve community health, well-being, and resilience.*

The Polis Center empowers communities to become healthier and more resilient. Our motto is “we bring things into perspective” and our primary service is to build understanding of issues from diverse viewpoints. We help others create a vision of the common good and realize their vision with practical tools and methods.

Our strengths are in community and place-based research, analysis, collaborations, and advanced information technologies. We have experience in community health and development, religion, government, social services, information management, and arts and culture. We maintain a unique capability in managing large complex projects involving a number of participating organizations, and in gathering, organizing, and analyzing data collected from multiple sources. Geospatial technologies are our preferred tools because of their unique ability to integrate and visualize information by location. We use our expertise and relationships to develop partnerships that multiply the value of what we offer.

Our three primary areas of emphasis—geoinformatics, community informatics, and health geoinformatics—collectively represent a comprehensive community research infrastructure that supports innovation and knowledge-sharing. This environment includes a large community information system, staff, technical skills, extensive project and project management experience, and a long record of attracting external funding. In the next several years, we will expand its skills, methods, technologies, and data on behalf of its partner communities.

We are engaged in ground-breaking work in a variety of activities important to Indiana communities and beyond. We managed more than 93 projects in FY2019; 35 percent of these projects were new grants or contracts. The following descriptions highlight our major accomplishments in each sphere of collaboration and in a major civic enterprise, the Spirit & Place Festival, which we launched in 1995 and direct on behalf of IUPUI and the IU School of Liberal Arts.







# Key Initiatives



## Grand Challenges

We participate in two of Indiana University's Grand Challenges—*Precision Health* and *Responding to the Addictions Crisis*—to address the economic, social, and environmental problems affecting our state and nation.

- *Responding to the Addictions Crisis.* We are working with Regenstrief Institute, the IU School of Medicine, the State of Indiana's Management Performance Hub (MHP), and the Indiana Business Resource Center (IBRC) to develop the Indiana Addictions Data Commons, a decision-support framework for sharing and integrating data and information on the state's opioid epidemic.
- *The Precision Health Initiative.* We collaborated with the IU School of Medicine to develop an Exposome API to provide access to the SAVI database for the initiative's Health Data Commons. This approach will help clinical researchers and health providers consider patient social and environmental conditions in care and treatment decisions.

### **SAVI Community Information System**

SAVI ([savi.org](http://savi.org)) is the nation's largest and most comprehensive community information system, developed to help people and organizations make data-informed decisions. Communities use this information to plan, secure and target resources, and to advocate. It is our vision that all organizations in Central Indiana will have access to and use data to improve the quality of life in the communities they serve. Created in partnership with the United Way of Central Indiana.



### **Indiana Data Partnership**

We collaborate with the State of Indiana's MPH, the IU Public Policy Institute (PPI), and the IBRC on the Indiana Data Partnership (IDP). Its aim is to increase the availability and usefulness of data-sharing among state agencies and between the state and various local government and nonprofit organizations. IDP has focused initially on combatting the opioid epidemic and improving education and workforce development initiatives for Hoosiers. We lead the opioid work, using social network analysis and cluster mapping to discover networks of connected organizations, as well as to determine the strength of those connections. Our aims are to discover organizations that serve as relationship brokers and identify potential new partners for coalitions to combat the opioid epidemic.



## 2019 State Hazard Mitigation Plan

We partnered with the Indiana Department of Homeland Security (IDHS) to develop the 2019 State Hazard Mitigation Plan. The plan outlines the natural hazard risks faced by the state's citizens, infrastructure, and economy as well as opportunities for making communities resilient to those risks. The Indiana Geographic Information Council recognized The Polis Center and IDHS in 2019 for Special Achievement in GIS for creating "an outstanding information resource." We also work in partnership with many Indiana counties to prepare local mitigation plans.



## The Digital Encyclopedia of Indianapolis

A legacy project of the Indianapolis bicentennial effort (2020–21), the Digital Encyclopedia of Indianapolis (DEOI) will integrate and access the explosion and fragmentation of knowledge created both as born-digital information and as a large new digital archive. In addition to updating the *Encyclopedia of Indianapolis*, which Polis published in 1994, DEOI will be the hub of an innovative knowledge environment, linking a variety of digital resources among eight heritage and culture organizations across the city. It will be accessible across desktop and mobile devices. It also will serve as a way for citizens and groups to contribute materials (histories, records, photographs, etc.) to an open archive and to participate in the placemaking efforts that define the city.







# OUR EMPHASIS AREAS



## Community Informatics

We generate information to support the decision-making process with and for nonprofits, community-based organizations, and government. We create solutions grounded in data, research, and civic process. We build community information systems and decision-support tools; develop and analyze community data to understand social issues and their impact on communities; bring academic research to practical applications; foster data literacy; and build capacity for decision-making.

### Key Accomplishments

We collaborate to address important community issues including domestic violence, basic needs, opioid use, household financial stability, access to quality education and transportation, and gentrification. This past year, our key partnerships involved United Way of Central Indiana, the Domestic Violence Network, the IUPUI Office of Community Engagement, the State of Indiana's Management Performance Hub (MPH), the

Indianapolis Neighborhood Housing Partnership (INHP), the IU Public Policy Institute (PPI), the Indiana Business Research Center (IBRC), and the IU Lilly School of Philanthropy.

*We joined United Way of Central Indiana to build capacity in the nonprofit community.*

In partnership with United Way of Central Indiana, SAVI enters its 25th year serving nonprofit and community based organizations in Central Indiana by 1) providing reliable data about communities; 2) creating actionable information; 3) developing tools for data analysis; and 4) building capacity of nonprofit and community-based organizations to use data effectively.

In June, we completed a major three-and-a-half-year initiative to enhance SAVI's support of United Way of Central Indiana, its agencies, and the Central Indiana nonprofit community. Significant accomplishments from this grant include:

- Better, more relevant data, which improves the ability of nonprofits to conduct assessments and plan programs.

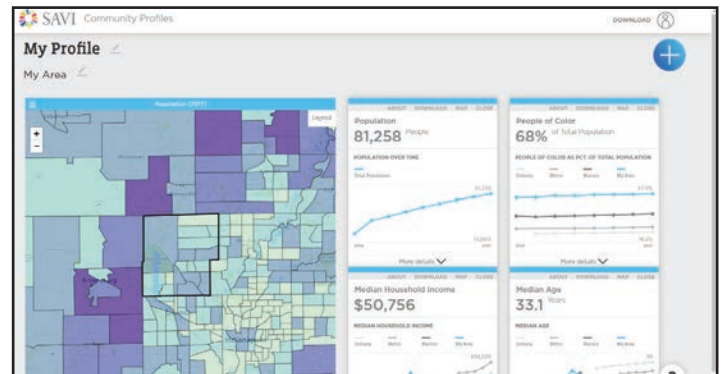


- Enhanced technology in SAVI, which simplifies public access to data. With community advisors, we designed four new online data tools: community assessment tool, community profiles, topic profiles, and population profiles.
- Improvements to the SAVI training curriculum, which is building data literacy in organizations across Central Indiana.
- Actionable information from SAVI, which informs community conversations about important issues.

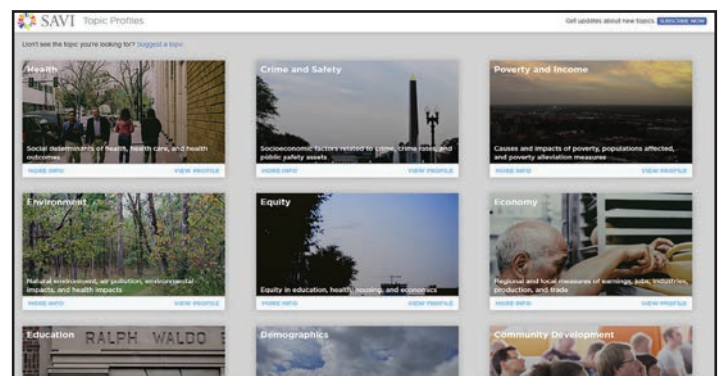
*Through SAVI, we increased data literacy and built capacity to use data. This year we:*

- Launched a 20-hour data literacy training curriculum, featuring nine hands-on modules that teach participants basic skills to find, analyze, and interpret data to make informed decisions. Participants can earn continuing education units.
- Trained more than 300 representatives from more than 100 nonprofit organizations and supported nearly 100 individuals in their use of community data.
- Published actionable information, such as reports on changes in poverty and schools. Several case studies highlighted area organizations that use SAVI for strategic planning, proposal writing, and other purposes.
- Convened 130 people for two SAVI Talks events, uniting multiple sectors to discuss important community issues including regional and neighborhood changes in schools and poverty, using data as the starting point for conversation.

*We improved access to SAVI's data with online dashboards and decision-support tools.*



- » *SAVI Community Profiles.* Introduced in 2018, *Community Profiles* provides quick access to demographic, socio-economic, and asset data for customizable geographic areas. These custom, interactive dashboards present data about the population, assets, and resources in the chosen area. Dashboards can be saved, shared on social media, and embedded in other websites. The data also displays in summary tables and may be downloaded. (<http://profiles.savi.org>)



- » *SAVI Topic Profiles.* In 2018, we released *Topic Profiles*, which uses the community profile template for depicting and exploring information. A user chooses a topic (e.g. health, equity, education, or economy) and geography to access a dashboard of data

trends and comparisons relevant to that topic. We continue to incorporate new data sources for these topics. (<http://profiles.savi.org/topics>)

» *SAVI Population Profiles*. We unveiled *Population Profiles* in 2019, delivering data specific to certain demographic groups with one mouse click. The site features four population categories currently: Hispanics and Latinos, Working Age, Youth, and Working Poor. Collaborating with topic experts, we created new approaches to visualize SAVI data and incorporated new data sources. (<http://profiles.savi.org/populations>)

*Refreshed data in existing SAVI online tools:*

» *Community Assessment & Planning Tool*. Created in collaboration with United Way of Central Indiana, this tool allows nonprofits to define a custom geographic boundary and access a wealth of data describing the health, basic needs, income, and education needs of its residents and the existing resources to support those needs. (<http://assessment.savi.org/>)

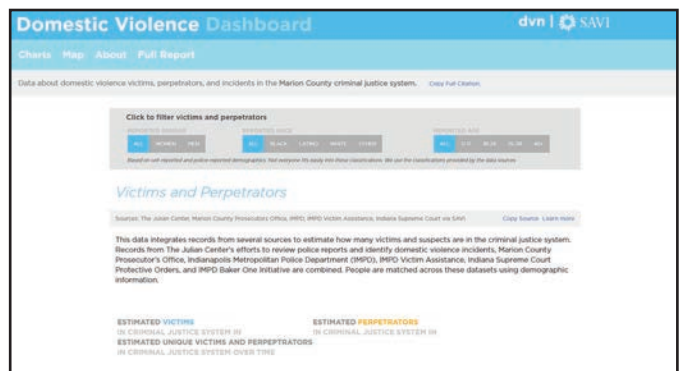
» *IndyVitals*. Developed in collaboration with Plan 2020 and the City of Indianapolis, *IndyVitals* provides SAVI's neighborhood-level data through a dashboard for tracking neighborhood progress on several neighborhood health and sustainability indicators. (<http://indyvitals.org>)

» *Indianalmpact*. Indianalmpact offers a community dashboard for each county in Indiana that describes the health, education, income, and basic needs of residents. (<http://Indianalmpact.org>)

*We partnered with the IUPUI Office of Community Engagement (OCE) to create a Community Engagement Map that leverages the data and tools in SAVI.*

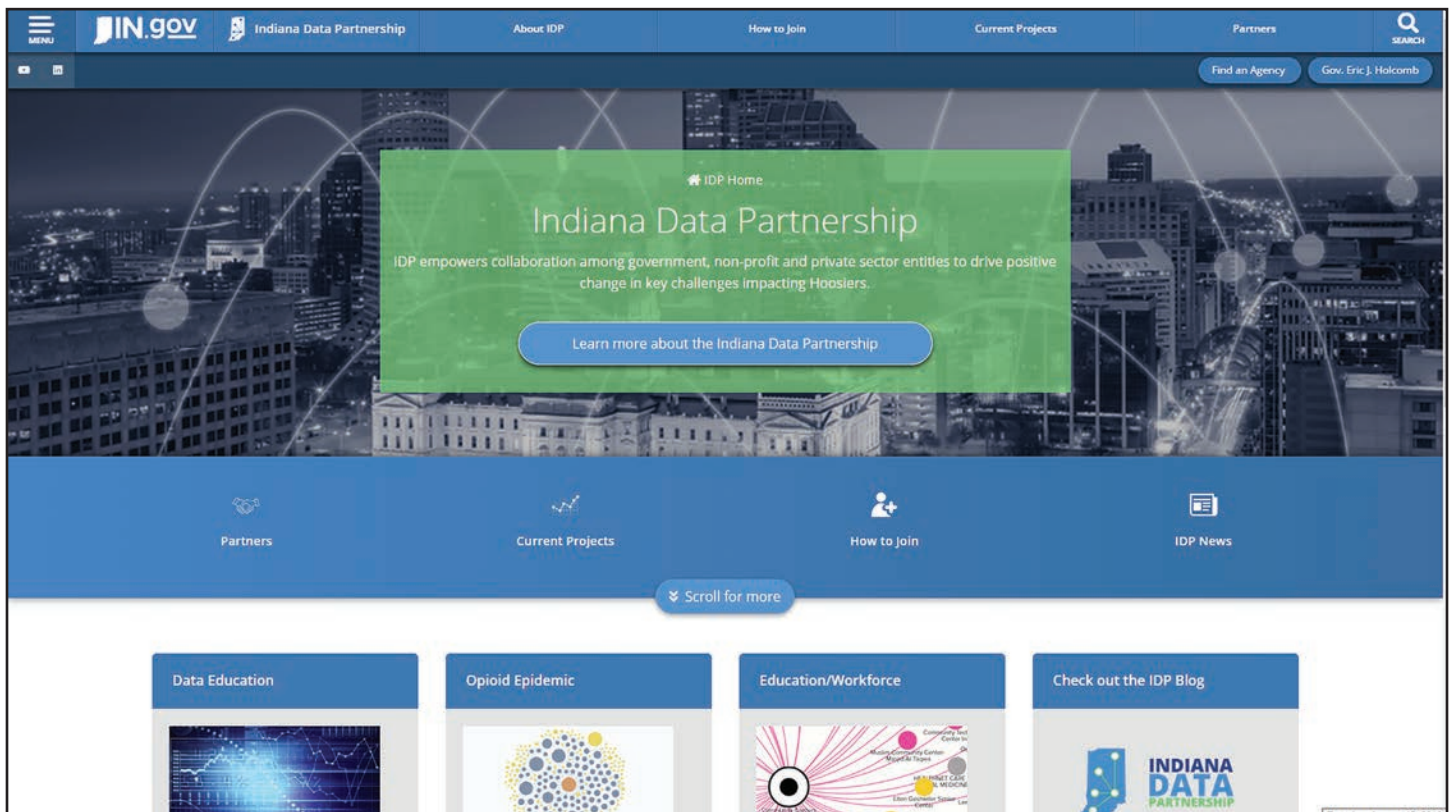
• Polis and OCE received a second Welcoming Campus Innovation Fund Grant for the project, "Building a Data-Informed Approach to Community Engagement." We linked data from SAVI and IUPUI's Collaboratory to produce an online searchable map that depicts the location of select IUPUI engagement activities in the surrounding communities, as well as socio-economic conditions, demographics, and community assets. The map and narrated data stories will engage stakeholders in more strategic, multi-disciplinary collaboration to address pressing community issues with the goal of improving quality-of-life for Central Indiana residents. (<https://engage.iupui.edu/partner/partnerships/index.html>)

*We created a dashboard on the state of domestic violence in Marion County, Indiana.*



• In association with the Domestic Violence Network, we integrated and analyzed data from several sources in the criminal justice system with SAVI data to better understand domestic violence victims and perpetrators in Marion County. A new online dashboard summarizes





trends through charts and maps, making the data easy-to-use for media, advocates, and policymakers. (<http://www.indydvdata.org/>)

*We maintained online data visualization tools about US philanthropic giving patterns.*

- In partnership with the IU Lilly School of Philanthropy, we continue to support a set of online data visualization tools to disseminate information about philanthropic giving patterns across the US. Tools include a Give-o-meter, Generosity Maps, and Generosity Reports. (<http://generosityforlife.org/generosity-data/data-tools/>)

*Through the Indiana Data Partnership (IDP), we expanded data and grew capacity to address important community issues.*

- We increased the inventory of nonprofit organizations and the health and human service programs they offer and used these data to address the opioid crisis. By understanding the landscape of service providers and contributors

delivering treatment, education, funding, advocacy, and policy around this issue, stakeholders and community leaders will more effectively build collaborations and target resources leading to a more comprehensive solution. (<https://jtcoller.kumu.io/identifying-potential-collaborators-to-help-address-the-opioid-epidemic> and <https://jtcoller.kumu.io/identifying-referral-networks>)

*Partnered with IU Public Policy Institute (PPI) to support community evaluation efforts.*

- We continue our work with the Indianapolis Neighborhood Housing Partnership (INHP), in collaboration with IU Public Policy Institute, to conduct an impact study of INHP's transformational grant. In December 2018, we completed an evaluation plan, and in April 2019, we created a baseline report measuring the social, health, and economic impact of INHP's investments in Indianapolis communities.

- Great Families 2020 is a major Social Innovation Fund grant from the US Corporation for National and Community Service awarded to United Way of Central Indiana. This program targets four high-risk neighborhoods in Indianapolis to address key factors that impact family stability. The IU Public Policy Institute and Polis are evaluating this innovative service model that will be extended to other programs which United Way funds. The team submitted a 110-page evaluation of the program implementation and an assessment of the feasibility to conduct an impact evaluation.

## **Presentations**

- “Tools for Data-informed Community Development.” Unai Miguel Andres. United for Change (UFC) 2018 Urban Servant Leadership Un-Conference, Indianapolis, IN. August 25, 2018.
- “Statistics for Spatial Analysis.” Kelly Davila. Indiana Geographic Information Council, webinar. September 13, 2018.
- “Program Planning and Evaluation: Qualitative and Quantitative Data.” Sharon Kandris and Matt Nowlin with Kathy Davis (City of Indianapolis) and Dr. Mike Simmons (Bridge Builder Strategies). Faith & Action Data Workshop, Christian Theological Seminary, Indianapolis, IN. September 14, 2018.
- “Data Integration and Management.” Kelly Davila. John Boner Neighborhood Center, US Department of Education’s Promise Zone Peer Exchange Network, panel of Promise Zones, Indianapolis, IN. September 19, 2018.
- “Data Reuse for Local Community.” Sharon Kandris with Ellen Cutter (Fort Wayne Inc.) and Jerica Copeny (Evansville Vanderburgh Public Library). Community Data Use Colloquia, Indianapolis, IN. September 21, 2018.
- “Transportation, Neighborhoods and Equity.” Kelly Davila with John Kileen (Data Works NC), Jennifer Newcomer (Shift Research Lab), and Jessie Partridge Guerrero (Boston Metropolitan Area Planning Council). National Neighborhood Indicators Partnership Conference, Los Angeles, CA. October 17, 2018.
- “Building a Data-Informed Approach to Community Engagement.” Sharon Kandris with Lauren Wendling (IUPUI Office of Community Engagement). National Assessment Institute, Indianapolis, IN. October 22, 2018.
- “SAVI Talks: Where Schools Are Changing: Regional and Neighborhood Dynamics from 2010 to 2016.” Kelly Davila and Matt Nowlin. SAVI Talks Public Forum, Indianapolis, IN. November 8, 2018.
- “SAVI Education Report.” Kelly Davila and Matt Nowlin with Eric Weddle (*WFYI* education reporter). *No Limits WFYI* Radio, Indianapolis, IN. December 6, 2018.
- “Marion County Food Access.” Unai Miguel Andres. The Indy Food Council System Shift, Indianapolis, IN. January 31, 2019.
- “Addressing the Opioid Crisis through Cluster Maps.” Kelly Davila, Unai Miguel Andres, Matt Nowlin, and Karen Comer. Management Performance Hub (MPH) Data Day, Indiana Statehouse, Indianapolis, IN. March 20, 2019.
- “Building a Data-Informed Approach to Community Engagement.” Sharon Kandris with Jennifer Boehm (IUPUI Office of Community Engagement). IUPUI Welcoming Campus Conference, Indianapolis, IN. April 16, 2019.
- “SAVI Talks: The Changing Landscape of Poverty.” Matt Nowlin and Unai Miguel Andres. SAVI Talks Public Forum, Indianapolis, IN. June 27, 2019.



## Associations

- American Planning Association, Member
- National Neighborhood Indicators Partnership (NNIP, Urban Institute, Washington, DC), Member
- United Way of Central Indiana, Community Impact Committee, Member

## Community Advisors

Our project diversity requires that we operate several advisory boards to achieve the best and most relevant advice for work.

### *Advisory Committee for SAVI Topic Profiles*

Marquisha Bridgeman, Senior Director of Community Engagement, The Mind Trust  
Karen Comer, Director of Collaborative Research and Health Geoinformatics, The Polis Center  
Cynthia Cunningham, Senior Consultant, Community Solutions  
Peggy Frame, Deputy Director, Southeast Community Services Center  
Tricia Frye, Chief Data Officer, John Boner Center  
Daniel Hedglin, Senior Planner, Department of Metropolitan Development  
Mark A. Russell, Director of Advocacy & Family Services, Urban League  
Tess Weathers, Research Associate, Richard M. Fairbanks School of Public Health

### *Advisory Committee for SAVI Population Profiles*

Purbasha Dasgupta, Research & Evaluation Manager, United Way of Central Indiana  
Jessica Fraser, Executive Director, Indiana Institute for Working Families  
Charlie Geier, Impact, Data Solutions & Statewide Advocacy Vice President, Indiana Youth Institute  
Jonathan Hague, Data Analyst, Central Indiana Council on Aging  
Yeciana Tostado, Associate Director of Indy Achieves, EmployIndy

### *Advisory Committee for Community Profiles*

Eden Bezy, Director, Office of Public Health Performance Management, Indiana State Department of Health  
Anthony Bridgeman, Director of Community Initiatives, Indianapolis Children's Museum  
Karen Comer, Director of Collaborative Research and Health Geoinformatics, The Polis Center  
Tricia Frye, Planning Supervisor, Indianapolis Public Schools  
Joe Hanson, CFO and EVP of Strategic Initiatives, Indianapolis Neighborhood Housing Partnership  
Chris Hartley, Data Manager, Renew Indianapolis  
Jeff Hasser, CDBG Manager, Department of Metropolitan Development  
Tawnya McCrary, Operations Director, Edna Martin (Center for Working Families)  
Kelli Mirgeaux, Consultant, Polyphonic

### *SAVI Education Program Steering Committee*

Tiffany Hatfield, Director of Foundation and Corporate Giving, YMCA of Greater Indianapolis  
Denise Luster, Vice President, Impact Research and Analytics, United Way of Central Indiana  
Breanca Merritt, Senior Research Analyst, PPI  
Khaula Murtahda, Associate Vice Chancellor, IUPUI Office of Community Engagement  
Maury Plambeck, Training & Curriculum Development Specialist, Indianapolis Neighborhood Resource Center  
Mike Simmons, Director, Advocacy and Professional Relations, Eli Lilly  
Sarah Zike, Manager, Capacity Building, United Way of Central Indiana  
Marsha Williams, Quality Assurance Analyst, EmployIndy

*Advisory Committee for Domestic Violence  
Data Dashboard (in collaboration with Domestic  
Violence Network)*

Paul Babcock, Director of Public Health and \  
Safety, City of Indianapolis

Kelsey Gurganus, Director of Research and  
Evaluation, Domestic Violence Network

Kelly McBride, Executive Director,  
Domestic Violence Network

Jennifer Reister, Director of Non-Residential  
Services, The Julian Center

Mark Rice, Domestic Violence Branch  
Commander, Indianapolis Metropolitan  
Police Dept.

Taylor Schaffer, Deputy Chief of Staff, City  
of Indianapolis

Officer Tyneka Sperry, Indianapolis Metropolitan  
Police Dept.

*Welcoming Campus Initiative Community  
Engagement Map IUPUI Advisory Committee (in  
collaboration with Office of Community Engagement)*

Jennifer Boehm, Assistant Vice Chancellor,  
Office of Community Engagement

David B. Burr, PhD Associate Vice Chancellor  
for Research

Robert Comer, Research Associate, Media Arts  
and Science

Carole Kacius, Associate Dean for Education and  
Training, Richard M. Fairbanks School of  
Public Health

Brad Ray, Assistant Professor, School of Public  
and Environmental Affairs

Sarah Wiehe, Associate Professor, Indiana  
Children's Health Service Research



## Geoinformatics

We assess different types of vulnerabilities and needs for local, state, tribal and federal government; the private sector; and nonprofits. We reinforce community efforts to prevent or reduce losses from natural disasters by combining geospatial analysis, modeling, and outreach activities. Our disaster (or crisis) informatics initiatives support preparedness, mitigation, response, and recovery activities.

We design and develop open source as well as Esri technology-driven information systems through which to explore the interconnectedness of people, place, community, information, and technology to increase community resiliency. We also conduct research to assess the physical, social and economic impacts of hazards.

## Key Accomplishments

### State Projects

- Indiana Department of Homeland Security (IDHS).
  - » We updated the State Multi-Hazard Mitigation Plan this fiscal year. The Indiana Geographic Information Council recognized the plan and the partnership between IDHS and Polis with a Special Achievement Award



in GIS: “For your commitment of working with others in the Indiana GIS community and beyond, toward a common goal while performing important, often pioneering work to create an outstanding information resource.”

» We partnered with IDHS and the Federal Emergency Management Agency (FEMA) Region 5 to create multi-hazard mitigation plans for the following counties: Daviess, Decatur, Dubois, Fountain, Franklin, Henry, Huntington, LaGrange, Pulaski, Tipton, and Washington.

» Indiana Flood Mitigation Planner. We developed a multi-hazard mitigation platform for the IDHS to consolidate disaster mitigation information, adding interactive mapping and search and query tools. Through an innovative map interface, the platform provides historic hazard data, information about buildings and populations exposed to flooding, and other types of critical data resources to support

multi-hazard mitigation plan development.

- FEMA and Indiana Department of Natural Resources (IDNR).

» In September 2018, FEMA awarded Polis a Cooperating Technical Partner grant with a performance period of three years. The award funds flood mapping updates for portions of 24 Indiana Counties. We will partner with IDNR for this effort.

» Risk MAP. Continuing a decade-long partnership with IDNR, we expanded the geographic extent of FEMA's Risk MAP program, which assists local communities with their mitigation efforts.

» Indiana Floodplain Information Portal (INFIP). We assisted IDNR in maintaining and improving GIS data used in INFIP.

- Transportation Asset Vulnerabilities Analysis for the Sugar Creek Watershed. We continue analyzing vulnerabilities to



transportation assets in Indiana. This project is part of phase three of the Fluvial Erosion Hazards (FEH III) project in partnership with the US Geological Survey, the Center for Earth and Environmental Science at IUPUI, and the Indiana Silver Jackets.



- Georgia Department of Natural Resources. Teaming with the Space Science and Engineering Center at the University of Wisconsin, we conducted sophisticated modeling of current and future climate conditions for the State of Georgia. We analyzed 118 different scenarios to assess the risk from coastal and riverine flood hazards and hurricane winds. The study measured the benefits of green infrastructure on reducing those impacts. We gave increased focus to creative solutions such as green projects that can reduce overall flood risk to the community and simultaneously provide many environmental, economic, and social benefits.

- The South Carolina Division of Emergency Management. We developed the South Carolina Multihazard Mitigation Platform (SCMHMP), a dynamic, open source solution for efficient management and sharing of reports and data related to hazard mitigation planning, minimal ongoing maintenance costs, and simplicity in design allowing in-house management.

The platform offers three main features: 1) access through a series of interactive maps to spatial data required to support mitigation planning; 2) access to a collection of tools used to post and track local mitigation plans and supporting data; and 3) a user-friendly dashboard to access to automated maps, charts, tables, documents and other resources that are dynamically generated from information stored on the platform.

- The Association of State Floodplain Managers (ASFM). We partnered with the University of Wisconsin Space Science and Engineering Center to develop a Flood Recovery Index for ASFM that identifies at-risk populations with higher likelihood for longer recovery times after a flood disaster. The study leveraged existing research that suggests attributes such as debt to income ratio, flood insurance, property value, mortgage status, and poor mental health susceptibility play a role in a person's flood recovery time.

Unlike previous approaches to determine at-risk populations, this method combined data at multiple scales. It used a site-specific process that does not exist in other socioeconomic modeling approaches and included unique risk profiles for multiple flood scenarios.

### *Geospatial and Resiliency Education*

We develop and support standardized as well as customized training and education in the geographic information systems tools and methods that support disaster risk assessment and mitigation planning. We have delivered workshops, presentations, and related services in more than 100 cities in 40 states and multiple countries since its inception.





While this program serves a wide range of audiences, a key focus of program activities during FY2019 has been applications of geospatial technologies for reducing social and economic impacts from natural hazards.

- Disaster Resiliency Courses/Workshops.
  - » We continue to be recognized as a leader in the development and delivery of practitioner courses and workshops that build competencies in the identification of natural hazards, the analysis of their potential economic and social impacts, and solutions in mitigating those impacts. In the past year, we delivered multiple workshops at the FEMA's Emergency Management Institute in Bethesda, Maryland.
  - » We continue to support FEMA's Emergency Management Higher Education Program through workshops at the annual Higher Education Conference on the use of GIS within academia to support service, research and teaching. This conference brings together hundreds of faculty and researchers from higher education institutions across the nation.

» We developed a series of courses for the Florida Division of Emergency Management that provide guidance on how to analyze and mitigate hurricane and related flood hazards based on processes and data specific to that state.

#### *Other Notable Achievements*

- In June 2019, Kevin Mickey, director of professional development and geospatial technologies education, delivered an invited presentation, "Geospatial Trends and Strategies," to FEMA's National Emergency Executive Academy. The Academy draws a diverse representation of senior emergency management executives involved with multi-jurisdictional, national, and international homeland security and emergency management policy development and decision-making responsibilities.
- In October 2018, Mickey was recognized for his leadership role in Urban and Region Information Systems (URISA) with the URISA Leadership Award. This award is presented to



members who have demonstrated exemplary leadership to URISA, creativity, innovation, and dedicated support of URISA programs.

- In October 2018, Mickey published *Facilitating Collaboration between the Higher Education and Practitioner Communities to Promote Advancements in Scientific and Geographic Literacy* for the FEMA Higher Education Program. The paper is based on a study which identifies best practices that simplify collaboration between the academic and practitioner community, providing guidance on how these collaborations can develop, thrive, and lead to practical applications of scientific and geographic advances to address current community needs.

The study and paper were in response to the FEMA's Emergency Management Institute Higher Education Program report, *Next Generation of Core Competencies for Emergency Management Professionals: Handbook of Behavioral Anchors and Key Actions for Measurements*, which was released in August 2017. The report identified a series of core competencies that should be integrated into higher education emergency management curriculum to inform future generations of emergency management professionals.

#### *Key Hire*

- We named Marianne Cardwell, PMP, GISP, CSM as GIS project coordinator. In this role, she supports a variety of projects that use geospatial data and technologies on behalf of our partner communities and foster relationships within those communities to cultivate new project opportunities. Prior to joining Polis, Cardwell was aviation geospatial project manager for Woolpert. She earned her BS degree in geography from

Michigan State University and MS degree in geographic and cartographic sciences from George Mason University.

#### **Presentations/Papers**

- "Mitigation Saves: Observations and Next Steps." Kevin Mickey. Kentucky Association of Mitigation Managers Conference, Cadiz, KY. September 18, 2018.
- "Preparing for the GISP Certification." Kevin Mickey. URISA GIS Pro Conference, Palm Springs, CA. October 9, 2018.
- "Geospatial Resources in Indiana." Jim Sparks. American Water employees, Indianapolis, IN. October 10, 2018.
- "Modeling Future Georgia Hurricanes and Floods to Inform Current Decisions." Kevin Mickey. URISA GIS Pro Conference, Palm Springs, CA. October 11, 2018.
- "Using GIS to support emergency management." Kevin Mickey. George Washington University, Washington, DC. October 29, 2018.
- "Hazard Mitigation and GIS." Kevin Mickey. New York State GIS Association, webinar. November 6, 2018.
- "The Impact of Overreliance on Static Floodplain Maps." Kevin Mickey and Shane Hubbard (University of Wisconsin at Madison). *Journal of the National Institute of Building Sciences*, Winter 2018
- "The Changing Role of Geospatial Technologies in Assessing and Communicating Flood Risk." Kevin Mickey. Community Flood Risk Management Workshop, University of Central Florida, Orlando, FL. February 28, 2019.
- "GIS for Government: Answering the Big Questions." Jim Sparks and Kevin Mickey, panelists. Urban and Regional Information System Association (URISA), national webinar, Indianapolis. May 29, 2019.

- “Adding Automation Tools to Your Work Flow. Ever wondered how to take advantage of Python, FME, and other automation tools for GIS?” Marianne Cardwell and Kavya Ravichandra. 2019 Indiana Geographic Information Council (IGIC) Annual Conference, Bloomington, IN. May 15-17, 2019.
- “Highlights of the Indiana State Multi-Hazard Mitigation Plan.” Marianne Cardwell, Kayla Swoveland, and Torry Glover, IDHS. 2019 IGIC Annual Conference, Bloomington, IN. May 15-17, 2019.
- “How to Increase the Value of the Bing Structures Dataset.” Jim Sparks and Marianne Cardwell. 2019 IGIC Annual Conference, Bloomington, IN. May 15-17, 2019.
- “Tips and Tricks for ArcGIS Pro.” Marianne Cardwell. 2019 IGIC Annual Conference, Bloomington, IN. May 15-17, 2019.
- “Contemporary Issues in Practice of GIS.” Jim Sparks. 2019 IGIC Annual Conference, Bloomington, IN. May 15-17, 2019.
- “Mapping, Modeling and Communicating Disaster Information Using GIS.” Kevin Mickey. FEMA Annual Higher Education Symposium, National Emergency Training Center, Emmitsburg, MD. June 3-7, 2019.
- National Institute of Building Sciences Multihazard Mitigation Council, Kevin Mickey, Immediate Past President.
- Association of State Floodplain Managers, Member
- Indiana Association for Floodplain and Stormwater Management, Member
- National States Geographic Information Council, Member
- Indiana Silver Jackets, member (a federal-state coordinating body). Through this group, we coordinate and facilitate activities related to mitigation of flooding in Indiana. Member organizations in addition to Polis include: Indiana Department of Homeland Security; Indiana Department of Natural Resources; Indiana Department of Transportation; Indiana Geographic Information Office; Indiana Finance Authority; Indiana Office of Community and Rural Affairs; US Army Corps of Engineers Louisville; US Geological Survey; National Weather Service; Center for Earth and Environmental Science; IUPUI; Indiana Geological and Waters Survey; Association of State Floodplain Managers; and Christopher B. Burke Engineering, LLC

## **Associations**

- Indiana Geographic Information Council, Member and Jim Sparks, President of Board of Directors
- Indiana Math and Science Academy, Jim Sparks, Vice Chair of Board of Directors
- Urban and Region Information Systems (URISA), Kevin Mickey, Chair, Professional Education Committee and Chair, Community Resilience Task Force
- Indiana Geographic Information Council, Kevin Mickey, Board of Directors









## Health Geoinformatics

Our work with the health sector advances community health and supports the growing discipline of population health management. We combine and analyze clinical, social, and environmental data, and create assessment and decision-making tools. In our collaboration with the public health and health care sectors, we curate an extensive collection of datasets on the social determinants of community health and resilience. Our research supports community health improvement planning, population health management, patient-centered decision-making, and analysis of the social determinants of health.

### Key Accomplishments

#### *Advancement of Evidence-Based Community Health Needs Assessment*

We transformed social, cultural, economic, and environmental data into actionable information for large hospital systems and built their capacity to identify and address community needs.

- **Community Health Network.** We collaborated with the Community Health Network, a five-hospital system in Central Indiana, to conduct their federally-required 2018 community health needs assessment (CHNA) and draft their 2019-2021 Community Health Improvement Implementation Strategy.

- **Parkview Health System.** We worked with Parkview Health System, a seven-hospital system in Northeast Indiana, on their federally-required community health needs assessment and community health improvement planning activities. This work resulted in a 2019 Community Health Needs Assessment Report, which in turn will support the development of Parkview Health's 2020-2022 Community Health Improvement Plan.

- **Community Health Priority Rating Tool.** Based on our extensive experience in working with hospital systems and local health departments on community health needs assessments, we partnered with the IU School of Informatics and Computing to develop the Community Health Priority Rating Tool. This interactive tool assists in the translation of community health indicators, community input, and intervention research into community health priority scores for evidence-based community health improvement planning. This tool will be used not only to assist hospitals and public health agencies in the CHNA work, as well as neighborhood organizations and other groups engaged with IU on community health initiatives.

#### *Advancement of Evidence-Based Community Outreach and Engagement*

- **State of Aging in Central Indiana Report.** We are partnering with the Central Indiana Senior Fund (CISF) to develop an authoritative, accessible, and sustainable "State of Aging in Central Indiana Report" (SoAR). The report will provide funders, policy makers, and decision-makers access to the most up-to-date data and actionable community intelligence to inform decision making about programs, funding, and policy intended to ensure Central Indiana



seniors have equal opportunity for a healthy, dignified, and enjoyable life as they age into retirement and beyond.

This effort uses Polis' advanced information technology infrastructure, knowledge of the local community, and the domain expertise of Polis and our partners, IU Public Policy Institute and IU Center for Aging Research, in the areas of aging, equity, and social and economic issues. Through the development of this report and creation of an associated CISF State of Aging Information Portal, we will help CISF realize its vision of becoming the trusted voice and go-to resource for information on senior matters.

- Indiana CTSI 3.0 Population Health Initiative. In support of the Indiana CTSI 3.0 Population Health Initiative and to inform community health outreach and engagement, we collaborated with the IU School of Medicine, the Richard M.

Fairbanks School of Public Health, and the Marion County Public Health Department to design and develop neighborhood-level indices of vulnerability and health in Marion County, Indiana.

- Diabetes Impact Project: Indianapolis Neighborhoods (DIP-IN). We are working with the Richard M. Fairbanks School of Public Health (FSPH) and the Marion County Public Health Department on the five-year Diabetes Impact Project: Indianapolis Neighborhoods (DIP-IN). Funded by Lilly Global Health, the project is evaluating current approaches of diabetes intervention and recommending new methods. To support this community-based, participatory research project, we developed online, interactive Community Profiles for each of the three Indianapolis neighborhoods partnering on this study, including the Northwest, Near Westside, and Northeast neighborhoods.



## *Informing Medical and Public Health Research Initiatives*

- We developed a research infrastructure to examine the determinants of community health, well-being, and resiliency. We curated extensive datasets about the social and physical environment and spatially-integrated these data with clinical and epidemiological data to inform multiple medical and public health research initiatives, including but not limited to:

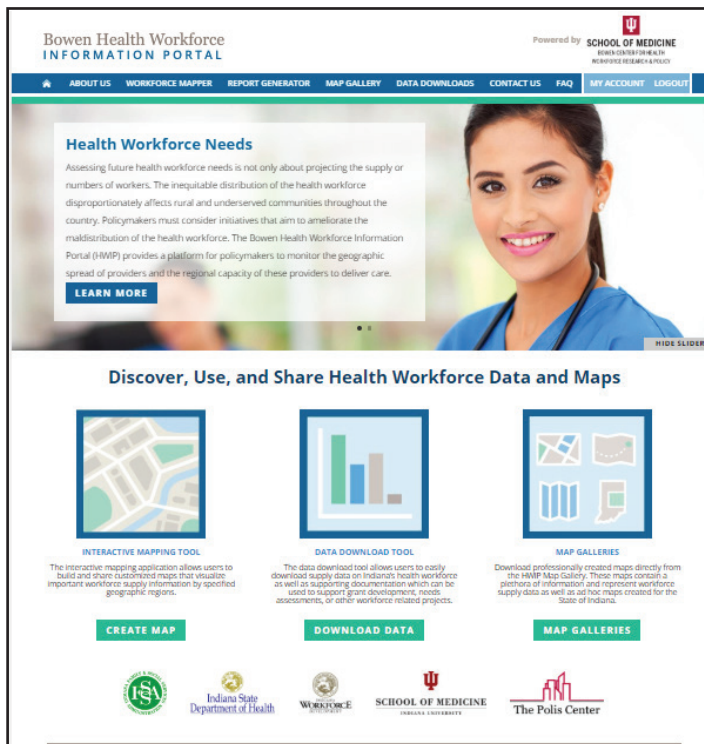


- Indiana Addictions Data Commons (IADC). As part of the IU Grand Challenge Responding to the Addictions Crisis, we partnered with Regenstrief Institute and its partners on the design and development of the Indiana Addictions Data Commons. We are designing the IADC to be a more streamlined means for researchers to obtain both clinical and non-clinical data. The IADC is helping researchers better understand the breadth and depth of information available.
- Indiana Network for Patient Care (INPC) Geocoding Service. We are collaborating with Regenstrief Institute to specify and design a state-of-the-art geocoding service for the Indiana Network for Patient Care (INPC). This work, funded by the Indiana Addictions Data Commons project, will become part of the infrastructure for an envisioned Indiana Network for Population Health (INPH).

- IUPUI Collaborating Research Center, Robert Wood Johnson Foundation Systems for Action. As part of the IUPUI Collaborating Research Center's project, "Addressing upstream determinants of health through collaboration and analytics," we partnered with the Richard M. Fairbanks School of Public Health on the development of custom community level indicators for input to predictive modeling of patient needs.

## *Development of Infrastructure for Evidence-Based Policymaking*

- Chemical Surveillance System for the Synthetic Drug Crisis. We are collaborating with the IU School of Medicine Department of Emergency Medicine, the IU School of Science Department of Chemistry, and the Indiana Poison Control Center, on a Phase 2 IU Grand Challenge Responding to the Addictions Crisis project, "Chemical Surveillance System for the Synthetic Drug Crisis." This initiative is developing a monitoring program to identify the drug compounds causing emergency department overdose visits. We will link the collected drug surveillance data with clinical, demographic, and location data and create an online dashboard for clinicians, researchers, public safety professionals, and policymakers.
- Bowen Health Workforce Information Portal. We continue to partner with the Bowen Center for Health Workforce Research & Policy on expanding the Bowen Health Workforce Information Portal. This year, we developed a Trend Visualization Tool to examine trends across health workforce indicators for the overall state as well as each of Indiana's 92 counties and each of its Economic Growth Regions, Area Health



Education Center (AHEC) Regions, and Public Health Preparedness Districts. The Bowen Portal is gaining national attention as a “best practice” in supporting health workforce planning. The new trend visualization features were unveiled at the Indiana Health Workforce Summit on May 21.

## Presentations & Papers

- “Learning in the Zone: Toward Workforce Development of Evidence-based Public Policy Communication.” Karen Comer with Beth Meyerson, Laura Haderxhanay, and Gregory Zimt. BMC Public Health, Indianapolis, IN. June 2018.
- “System-Wide 2018 Community Health Needs Assessment (CHNA).” Karen Comer. Network Executive Leadership Team Meeting, Community Health Network, Indianapolis, IN. August 28, 2018.
- “Anderson Region 2018 Community Health Needs Assessment (CHNA).” Karen Comer. Anderson Region Executive Leadership Team Meeting, Community Health Network, Anderson, IN. September 5, 2018.

- “North Region 2018 Community Health Needs Assessment (CHNA).” Karen Comer. North Region Executive Leadership Team Meeting, Community Health Network, Indianapolis, IN. September 11, 2018.
- “Partnering to Improve Community Health.” Karen Comer. All In: Data for Community Health National Meeting, Denver, CO. September 12, 2018.
- “South Region 2018 Community Health Needs Assessment (CHNA).” Karen Comer. South Region Executive Leadership Team Meeting, Community Health Network, Indianapolis, IN. September 27, 2018.
- “Howard Region 2018 Community Health Needs Assessment (CHNA).” Karen Comer. Howard Region Executive Leadership Team Meeting, Community Health Network, Kokomo, IN. October 8, 2018.
- “East Region 2018 Community Health Needs Assessment (CHNA).” Karen Comer. East Region Executive Leadership Team Meeting, Community Health Network, Indianapolis, IN. October 11, 2018.
- “The Polis Center Community Research Infrastructure.” Karen Comer. IADC Opioid Collaboratory, Indianapolis, Indiana. June 13, 2019.

## Community Advisors

*Indiana Addictions Data Commons (IADC)*

*Governance Committee*

Kaitlyn Boller, Indiana Hospital Association

Charlie Clarke, HC1.com

Karen Comer, The Polis Center

Stanley Crosley, Crosley Law Offices

Brian Dixon, Regenstrief Institute

Peter Embi, Regenstrief Institute

Joe Gibson, Marion County Public Health Department

Shaun Grannis, Regenstrief Institute

Rachel Lane, Family and Social Services Administration



Joshua Martin, Indiana Management  
Performance Hub  
Carl Dean McKinley, Regenstrief  
Carol Rogers, Indiana Business Research Center  
Kosali Simon, IU Bloomington School of  
Public Health  
Brian Tabor, Indiana Hospital Association  
Nicolas Terry, IU School of Law  
Joshua Vest, Richard M. Fairbanks School of  
Public Health  
Sarah Wiehe, IU School of Medicine

*Indiana United Ways: Intersections of Health and  
Financial Stability*

Logan Charlesworth, Prosperity Indiana  
Julie Johns Cole, Indiana 211

Karen Comer, The Polis Center  
Purbasha Dasgupta, United Way of Central Indiana  
Kaytlin Eastes, Prosperity Indiana  
Mark Fairchild, Covering Kids and Families Indiana  
Jill Gordon, Indiana Philanthropy  
Karen Hemberger, United Way Madison County  
Sharon Kandris, The Polis Center  
Catherine McNaughton, Indiana 211  
Waldo Mikels-Carrasco, Michiana Health  
Information Network  
Drew Richardson, Indiana Health  
Information Exchange  
Keith Sarber, United Way Elkhart County  
Nancy Vaughan, United Way Madison County









# Other Center Activities



## Spatial Humanities

We serve an international community of scholars interested in applying geospatial technologies to explore new questions about the relationship of space to human behavior and social, economic, political, and cultural development.

### Key Accomplishments

- David Bodenhamer served as one of three international experts on a panel to award € 1 million+ grants to six proposed centers from a field of twenty-four applicants in a major EU research initiative. The panel met at the University of Antwerp in March, 2019.
- Bodenhamer was at University of Leeds (UK) from April 23-26 for the last of a series of three expert workshops funded by the Arts and Humanities Research Council (UK) to explore how Qualitative Spatial Representation, a formal logic to identify and manage uncertain or ambiguous spatial relationships, can be linked to GIS and the spatial humanities. Computer scientists from Leeds, Lancaster University, University of Maine, and Stanford University joined geographers and historians from

University of Bristol, University of Manchester, British Library, Turing Institute, and UK National Archives to test methods on a variety of humanities-focused problems and data. Two major proposals are under development to continue this work.

- Bodenhamer's work on deep mapping and spatial humanities led to invitations to deliver keynote addresses to international meetings at Zhejiang University (Hangzhou, China), University of Cremona (Italy), Lancaster University (UK), and University of Luxembourg, as well as to the annual meeting of the University Consortium for GIS in Washington, DC. He also delivered invited lectures at University of Florence (Italy), Academia Sinica (Taiwan), and University of Bristol (UK).

### Presentations

- "The Varieties of Deep Maps." David Bodenhamer. International Conference of Historical Geographers, July 2018. Warsaw, Poland.
- "Between Matter and Meaning: Spatial Humanities, Deep Mapping, and Cultural Heritage." David Bodenhamer. Association of Critical Heritage Studies Conference [keynote], August 2018. Zhejiang University, Hangzhou, China.
- "Deep Mapping for the Spatial Humanities," European Social Science History Association, Queens University of Belfast (UK).
- "Deep Mapping and Cultural Organizations." Lancaster University Expert Workshop on Spatial Humanities and Cultural Institutions [invited lecture], September 19, 2018. Lancaster University, UK
- "The Value (and Future) of Spatial Humanities." David Bodenhamer. 2nd Spatial

Humanities Conference [keynote], September, 2018. Lancaster University, UK.

- “The Role of Spatial Humanities.” David Bodenhamer. University of Florence, [invited lecture], March 2019.
- “Spatial Humanities and the Embodied World.” David Bodenhamer. Conference on Mapping Spaces, Sounding Places [keynote], March 2019. University of Cremona.
- “Deep Mapping, Federated Data, Crowd Sourcing, and Digital Encyclopedias,” April 2019. Academia Sinica.
- “Beyond GIS: The Emergence of Spatial Humanities.” David Bodenhamer. University Consortium for Geographic Information Science (UCGIS) Annual Meeting [keynote], June 2019. Washington, DC.
- “Developing University Centres for Sustained Engagement and Impact.” David Bodenhamer. [invited lecture]. June, 2019 . University of Bristol, UK.
- “Spatial Humanities, Deep Mapping, and the Future of History.” David Bodenhamer. Center for Digital Humanities [invited lecture], June 2019. University of Luxembourg.

## Associations

- *Virtual Center for Spatial Humanities (VCSH)*. A collaboration among IUPUI (Polis Center), Florida State University, and West Virginia University to set an agenda and develop projects and technology for spatial humanities.
- IU Press Series on Spatial Humanities. David Bodenhamer, series general editor.
- *IJHAC: A Journal of the Digital Humanities* (Edinburgh University Press), David Bodenhamer, co-editor.

## Advisory Board Members

*Virtual Center for Spatial Humanities*

John Corrigan, Lucius Moody Bristol

Distinguished Professor of Religion and Professor of History, Department of Religion, Florida State University

Trevor Harris, Professor of Geography, Department of Geology and Geography, West Virginia University

David Bodenhamer, Executive Director, Polis Center at IUPUI

Ed Ayers, Tucker-Boatwright Professor in the Humanities, Department of History and President Emeritus, University of Richmond

Peter Bol, Vice Provost for Advances in Learning and Charles H. Carswell Professor of East Asian Languages and Civilizations, Office of the Provost, Harvard University

Peter Doorn, Director, Dutch Archives and Networking Service (DANS), Netherlands

I-chun Fan, Research Fellow, Institute of History and Philology and Executive Director, Center for Geographic Information Science, Academia Sinica, Taiwan

Michael Goodchild, Emeritus Professor of Geography, University of California -Santa Barbara

Yuzuru Isoda, Associate Professor, College of Asia Pacific Studies, Ritsumeikan Asia Pacific University, Japan

Kim Knott, Professor of Religious Studies, University of Leeds, UK

Anne Knowles, Professor of History, University of Maine; formerly Professor of Geography, Middlebury College

Andreas Kunz, Economic Historian and Sr. Researcher, Institute of European History (Mainz), Germany



Lew Lancaster, Professor Emeritus, Department of East Asian Languages and Cultures, University of California-Berkeley

Gary Lock, Emeritus Fellow, Professor of Archaeology, Department for Continuing Education, University of Oxford, UK

Barney Warf, Professor of Geography and Atmospheric Science, Department of Geography and Atmospheric Science, Kansas University

May Yuan, Ashbel Smith Professor of Geospatial Information Sciences, Geospatial Information Sciences, University of Texas-Dallas



## Spirit & Place

Spirit & Place is a community initiative managed by The Polis Center at IUPUI that grew out of our Project on Religion and Urban Culture, which looked at how religion and community have shaped our city and region. Its mission since 1996 is to be a catalyst for civic engagement and enduring change through creative collaborations among the arts, humanities, and religion. Through its annual November festival, people-centered community engagement, and year-round activities, Spirit & Place seeds cross-sector collaborations, inspires innovation, and strengthens civic capacity.

In 2018, Spirit & Place explored the theme of INTERSECTIONS. This theme provided diverse points for inquiry, creativity, and conversation around key questions such as: How do science and literature explore medical ethics and what it means to be human? What can we learn from the intersection of race, philanthropy, and faith? How might artistic practices help us reimagine complex social challenges?

### Key Accomplishments

#### *23rd Annual Spirit & Place Festival*

- Working in collaboration with 102 cultural, civic, and faith-based organizations and 193 presenters, the festival's 30 events explored the intersections of art and automobiles; equity and power; parenting and addiction; food and culture; film and music, and more.



- Our Annual Public Conversation featured techno-sociologist Zeynep Tufekci talking about the ways in which authority, technology, and civic society intersect.
- We presented a \$1,000 Award of Awesomeness to festival partner Ivy Tech Community College-Central Indiana for "Art-omotive," a creative family event held at the Indianapolis Speedway Museum.
- Festival attendees—of which 38 percent were new—hailed from Marion County (74.5 percent), contiguous counties (19.5 percent), other Indiana



counties (3.1 percent), and nine other states (1.6 percent). Audience demographics were 76 percent white, 13 percent Black/African American (an 18 percent increase), 2% Hispanic/Latinx, with remainder representing six additional identities.

#### *Powerful Conversations on Race*

- Launched in 2017, this monthly discussion series continued through November. Built around the book, *Charleston Syllabus: Readings on Race, Racism and Racial Violence* (2016), 21 volunteer facilitators led two-hour conversations using the Civic Reflection Dialogue method, an arts and humanities-based technique pioneered by the Center for Civic Reflection at Valparaiso University.
- Over 400 individuals participated, with 39 percent reporting significant changes in their beliefs around race and 31 percent reporting changes in their actions.
- Members of Noah's Ark Interfaith Collective (Bloomington, IN) attended to prepare for their

own conversations on race, and other local groups have expressed interest in integrating these conversations into their own race and equity work.

#### *Civic Saturdays*

- Two one-hour events combined humanities-based readings, poetry, community singing, a civic talk, and small group conversation to provide public space for wrestling with the complexities of equality, liberty, and citizenship in the US. Program Director Erin Kelley was one of 19 participants selected by Citizens University (Seattle, WA), creator of the Civic Saturday model. Over 40 people attended each session.
- One local congregation featured both talks in their Sunday services and other community organizations have expressed interested in future hosting.

#### *Indy Community Innovation Lab*

- After a national Request For Proposals (RFP) process in 2017, EmcArts (New York



City) selected Indianapolis as the fifth US city to convene a Community Innovation Lab. The lab engaged diverse stakeholders from multiple sectors in a 20-month process to address these questions: How can we build inclusive and sustainable economies for formerly incarcerated men and women? How can artists and arts-based practices help leverage and incubate new solutions to this challenge?

- The lab included training of local artist-facilitators and process facilitators, five intensive workshops for diverse community representatives with local and national facilitators, and five pilot projects to test assumptions.
- The Mending Circles pilot project was a daylong practice that used journaling, storytelling, and mindfulness practices as tools for uncovering and acknowledging trauma, identifying the limits and opportunities of our stories, and integrating these healing practices into our own lives so that we could potentially help others do the same. Participants from Bellfound Farm, Project Lia, and Craine House (re-entry programs for women) want to integrate this work in their institutions.

### **Budget and Community Partners**

Major funders for 2018 projects included: Lilly Endowment Inc.; Allen Whitehall Clowes Charitable Foundation, Inc.; Bohlsen Group; Christian Theological Seminary; Eskenazi Health; Indiana Humanities with support from the National Endowment for the Humanities; The Indianapolis Foundation, a CICF fund; IUPUI; The Lacy Foundation; The Margot L. and Robert S. Eccles Fund, a CICF fund; MetLife Foundation (via EmcArts); and Second Presbyterian, among others. Other key community partners included Groundwork Indy, Indianapolis Public Library, Kheprw Institute, League of Women Voters, and MLK Center.

### **Advisory Board/Committee Members Steering Committee (advises on policy, themes, strategic planning)**

Beth Perdue Outland, Chair, Vice President,  
Community Engagement & Strategic  
Innovation, Indianapolis Symphony Orchestra  
Keira Amstutz, President & CEO,  
Indiana Humanities  
David Bodenhamer, Executive Director,  
The Polis Center at IUPUI (ex-officio)  
Elizabeth Goodfellow, Executive Director for  
Advancement, IU School of Liberal Arts at  
IUPUI (ex-officio)  
Hope Hampton, Founder, Indescribable Gift  
Ken Honeywell, Chair, Partner/Creative  
Director, Well Done Marketing  
Venetta Keefe, State of Indiana, Transportation  
Pegg Kennedy, Sales Associates, Tucker Realty  
Leslie Kidwell, Vice President for Strategic  
Engagement, Indiana Youth Institute  
David Kosene, President, Kosene and Kosene,  
Development & Management Co., Inc.  
Sr. Norma Rocklage, Executive Director,  
Education Formation Outreach,  
Marian University  
Gail Thomas Strong, Vice President, Community  
Engagement, *WFYI* Public Media  
Robin Thoman, Principal, Paradox Dental Care

### *Emeritus Members*

Kevin Armstrong, Chief Mission & Values Officer,  
IU Health  
Vicki Bohlsen, CEO, Bohlsen Group  
Jane Henegar, Executive Director, ACLU-Indiana  
Bruce Hetrick, Principal, Powerful Appeals  
Ken Honeywell, Chair, Partner/Creative Director,  
Well Done Marketing  
Sandy Sasso, Rabbi Emerita, Congregation Beth  
El Zedeck

Joyce Sommers, Emeritus President,  
Indianapolis Art Center  
David Wantz, CEO, Independent Colleges  
of Indiana  
Karen Whitney, President, Clarion University  
Lynn Youngblood, Provost Emeritus, University  
of Indianapolis

## Presentations

- “Liberation through Vocal Improvisation.” Pam Blevins Hinkle and Michelle Jones. Imagining America 2018 National Gathering, October 19-21, 2018. Chicago, IL.
- “The History of Unigov.” Erin Kelly. Purdue Extension Community Economics & Leadership Program (CELP), March 28, 2019. Indianapolis, IN.
- Spirit & Place, Facilitator. Indianapolis Sustainability Summit, April 17, 2019. Indianapolis, IN.
- “On Being an Artist and Using Art to Change the World.” Lawshawnda Crowe Storm. Community Theatre for Social Action Conference, April 26-28, 2019. South Bend, IN.
- “A Powerful Conversations on Race.” Erin Kelley, Pam Blevins Hinkle, and LaShawnda Crowe Storm. IUPUI Welcome Campus Conference, April 16, 2019. Indianapolis, IN.



## Forging an Identity: An Interactive Timeline of IUPUI's Growth and Development

In partnership with the IUPUI University Library Archives, we developed the IUPUI Interactive Timeline, a web-based, interactive and extensible timeline that will note milestones and key events in the growth of IUPUI.







# Organizational Structure

The Polis Center at IUPUI operates as a matrix organization, with directors for each area of emphasis who draw from a common pool of technical support staff for specific project needs. We also staff a communications function that supports our major areas of work.

## Administration

David Bodenhamer, Executive Director  
(also directs the Spatial Humanities area)  
Sharon Kandris, Associate Director  
(also directs the Community Informatics Area)  
Melissa Gona, Business Manager  
Gloria Harmsen-Hastings, Financial Assistant  
Lou Ann Glidden, Administrative Assistant

### Geoinformatics

Jim Sparks, Director  
Marianne Cardwell, GIS Project Coordinator  
Matthew Riggs, Senior GIS Analyst  
Kavya Urs Beerval Ravichandra, GIS Analyst  
Kayla Kauffman, GIS Analyst  
*Student*  
Melissa Long, Intern (GIS)

### Health Geoinformatics

Karen Comer, Director  
*Research Associates*  
Patrick Lai, PhD ABD  
Amnah Anwar, MPH, MBBS  
*Research Assistants*  
Madison Asbell, MPH Epidemiology Intern  
Stephanie Anair, MPH Epidemiology Intern  
Emma Morone, MPH Epidemiology Intern  
John White, Biostatistics Graduate Intern

Taylor Childress, Informatics Graduate Intern  
Nimra Nayar, Informatics Graduate Intern  
Clay Doten, MPH Health Policy & Management Intern

### *Consultants*

Mariana Lopez-Owens, La Plaza  
Bart Caylor, Caylor Solutions  
Paul Wolff, University of Alabama, School of Public Health

### Community Informatics

Sharon Kandris, Director  
James Colbert, Data Manager  
Kelly Davila, Senior Research Analyst  
John Hayes, Data and Quality Assurance Coordinator  
Deb Hollon, GIS Analyst  
Unai Miguel Andres, GIS and Data Analyst  
Matt Nowlin, Data and Research Analyst  
Naomi Penney, Research Assistant  
Kim Sarver, Senior Project Manager

### *Students*

Jabari Artis, Research Assistant  
Meghann Bowman, Research Assistant  
Griffin Brown, Social Media Intern  
Jonah Butler, Data Analytics Intern  
Victor Creed, Social Media Coordinator  
Kade Diallo, Social Media Intern  
Zachary Null, Data Analytics Intern  
Neha Patil, Informatics Intern  
Vibhuti Sharma, Event Management Intern  
Saket Talware, Informatics Intern  
Muzi Zheng, Informatics Intern

### Systems Development

Neil Devadasan, Lead Systems Engineer/  
Systems Engineering Manager  
James Dowling, Database Administrator  
Robert Ferrell, Senior Programmer





John Gona, LAN Technician  
Gautham Bavandla, Research Programmer  
*Student*  
Jason Croddy, Computer Science Intern

### **Professional Education**

Kevin Mickey, Director

### **Spirit and Place**

Pam Blevins Hinkle, Director  
LaShawnda Crowe Storm, Community  
Engagement Director  
Erin Kelley, Program Director  
Janna Thomas, Fundraising Assistant

### **Communications**

Allegra East, Manager  
Norma Erickson, Writer/Researcher

## **Sustainability**

Our goal is to enter each fiscal year with sufficient income under contract to fund our work for the year. We met this goal for FY2019, and we enter FY2020 with contracted income sufficient to meet our obligations for the next year



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