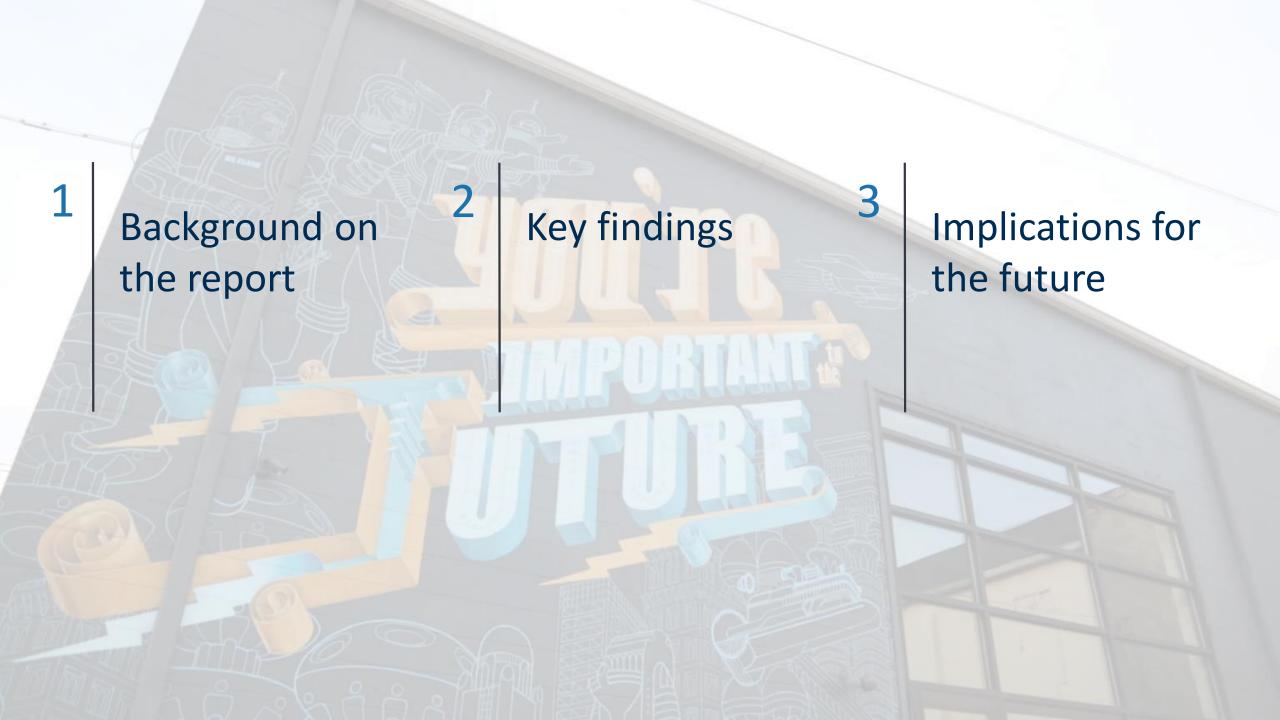
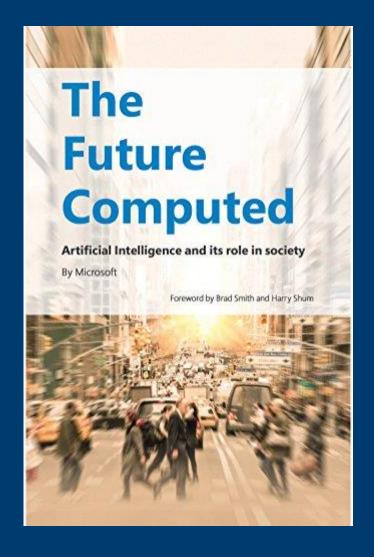
# How Louisville can become a stronger and more equitable hub for AI and data economy jobs



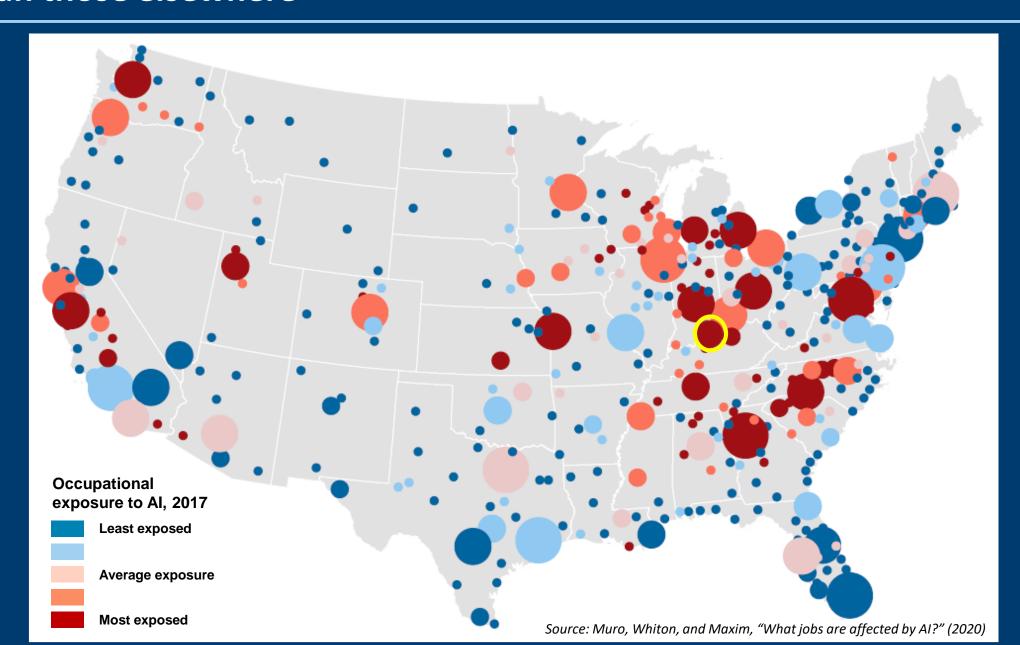




ARTIFICIAL INTELLIGENCE A set of technologies that enable computers to perceive, learn, reason, and assist in decisionmaking to solve problems in ways that are similar to what people do.

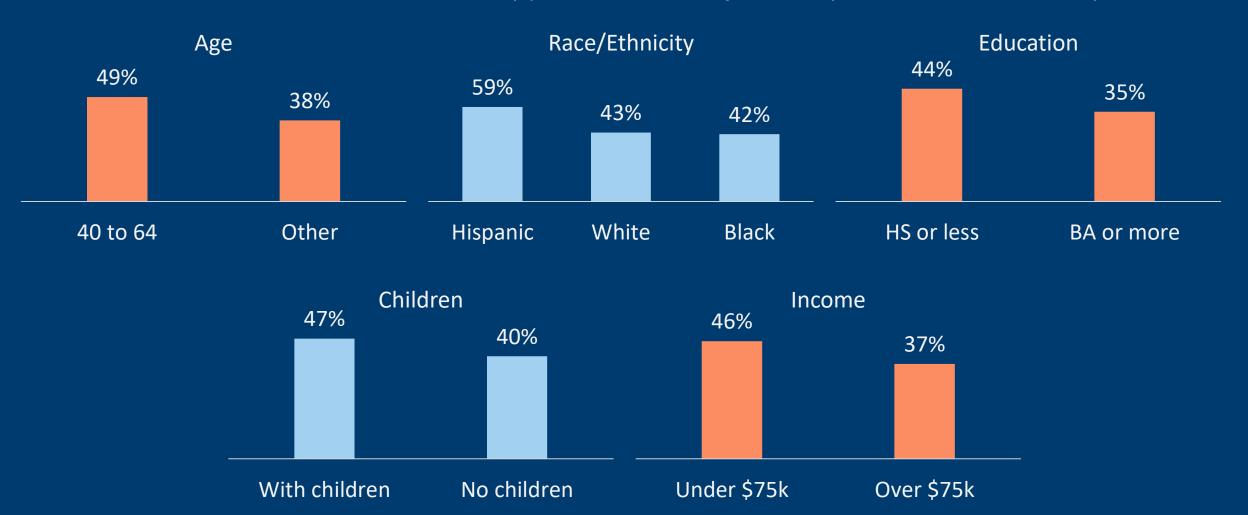


### Jobs in the Louisville region are more exposed to the impacts of Al than those elsewhere



#### Workers in KY who lost jobs over the past year were more likely to be middle-aged, Hispanic, less educated, lower-income, with kids

Share of households affected by pandemic-related job loss by characteristic, Kentucky



Source: Census Household Pulse Survey



#### LOUISVILLE

#### FUTURE OF WORK INITIATIVE

POWERED BY MICROSOFT AND LOUISVILLE METRO GOVERNMENT

#### **Workforce transformation**

Preparing Louisville's workforce for the next tech revolution with a focus on inclusion

#### **Industry development**

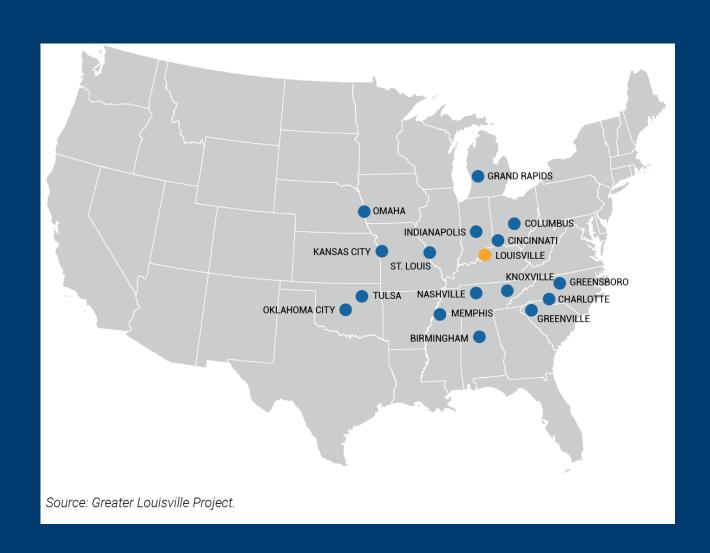
Strengthening Louisville's clusters by driving innovation and supporting application of Al/data science/IoT

#### Al for good

Demonstrating the power of data and AI to solve social issues to increase awareness/adoption

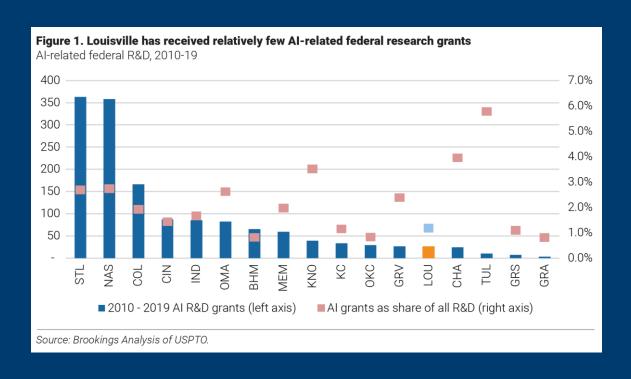
## We benchmarked Greater Louisville among its peer regions on five drivers of technological success

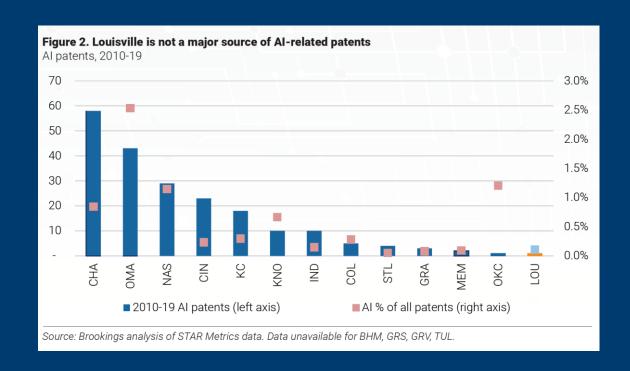
- 1. Innovation
- 2. Talent
- 3. Industry specialization
- 4. Financial capital and startup ecosystem
- 5. Collaboration





### Innovation: Louisville lags most peer metro areas in simple measures of AI innovation capacity





## Talent: Louisville has yet to cultivate a deep supply of Alspecific talent

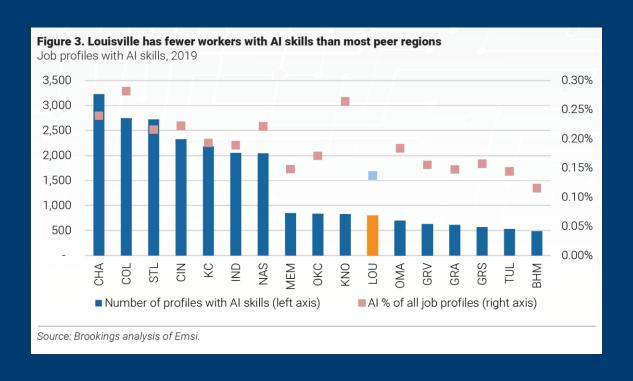
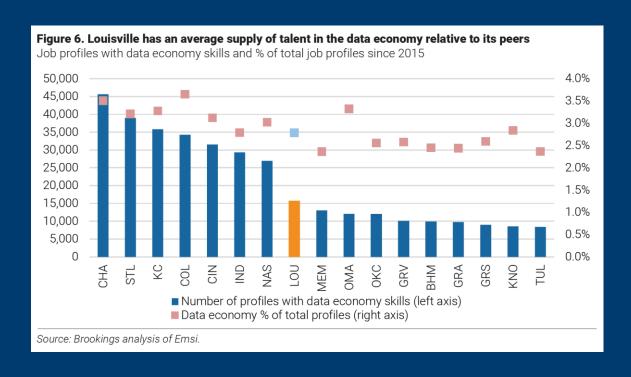


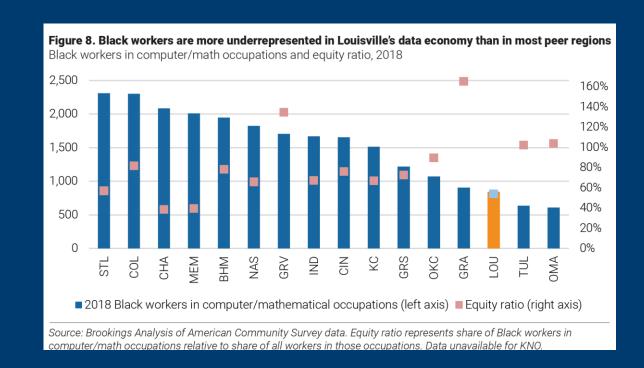
Figure 4. Top firms in Louisville employing workers with AI skills, since 2015		
Firms	Al job profiles	% of total AI talent
Humana, Inc.	72	9.9%
University of Louisville	66	9.1%
Samtec, Inc.	9	1.2%
Material Handling Systems Inc	8	1.1%
Indiana State University	7	1.0%
General Electric Company	7	1.0%
Norton Healthcare, Inc.	6	0.8%
Cognizant Technology Solutions Corp.	6	0.8%
Tata Consultancy Services, Ltd.	5	0.7%
Kindred Healthcare, Inc.	5	0.7%
Jefferson County Public Schools	5	0.7%
Source: Brookings analysis of Emsi.		

Limited pool of workers with AI skills

Al workers concentrated in few places

## Talent: Louisville has a broader pool of data economy talent, but it does not represent the whole community

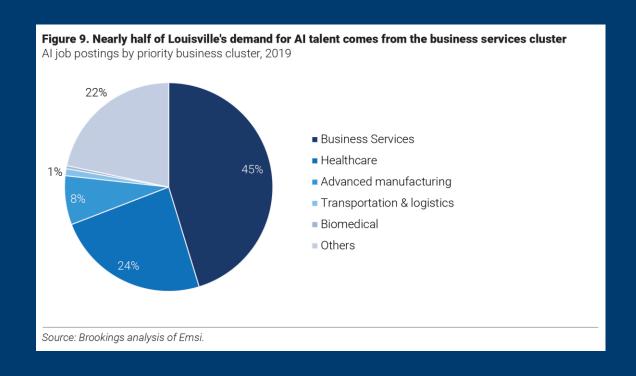


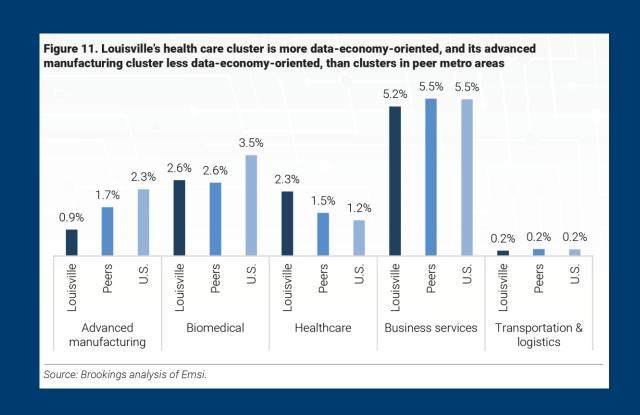


Broader pool of data economy talent

Racially unrepresentative data economy workforce

## Clusters: Louisville's strong clusters differ in the intensity/growth of their Al/data economy orientation

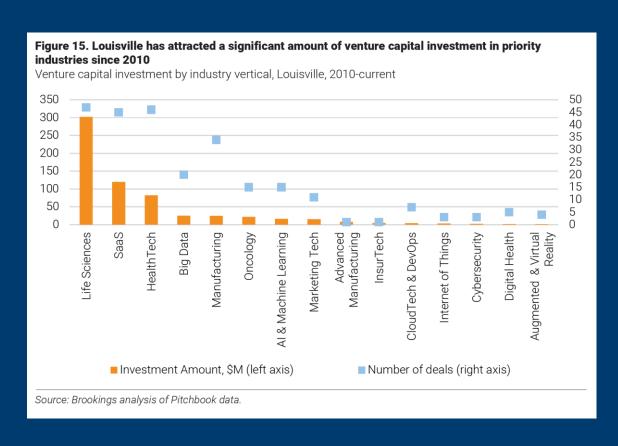


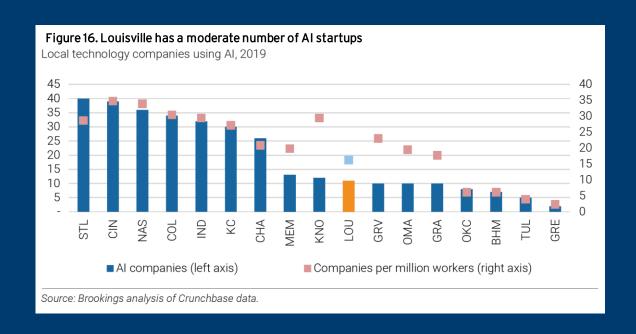


High demand for data economy in business services and healthcare clusters

Advanced manufacturing lags region/nation in data economy orientation

## Financial capital and startup ecosystem: Louisville is growing as a magnet for investment, but its AI ecosystem remains small

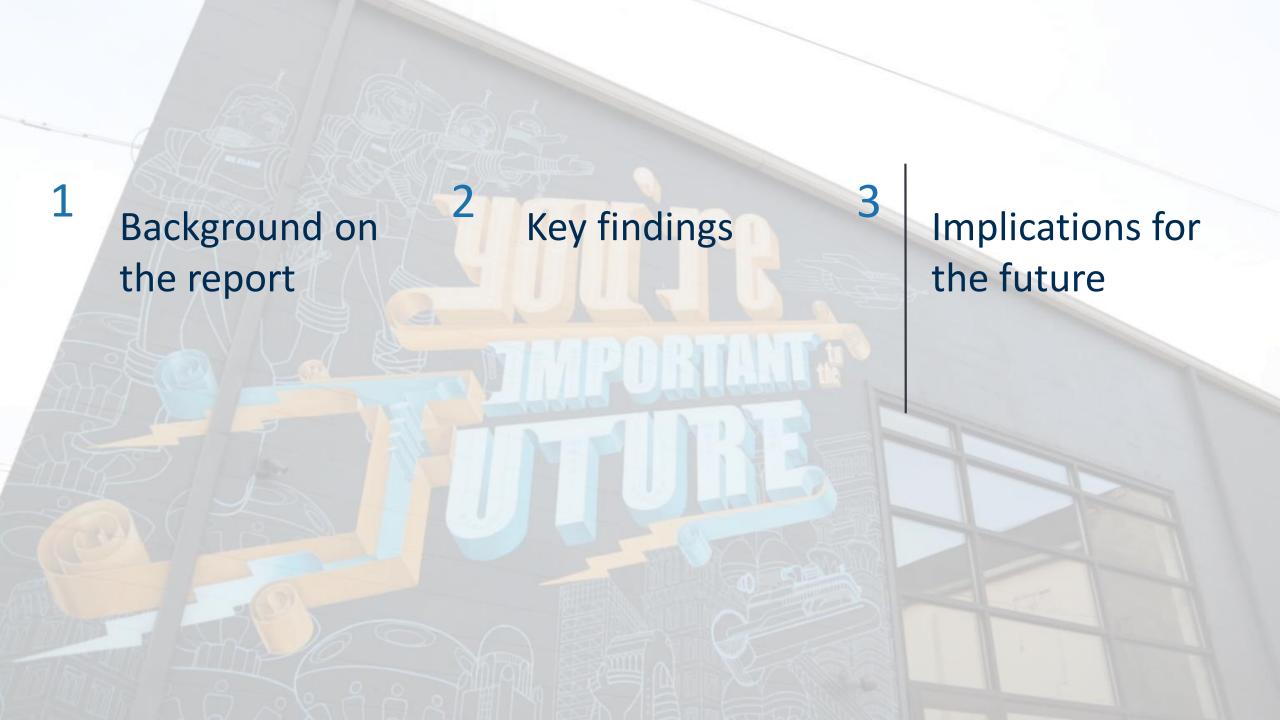




Significant VC investment in life sciences, software, and health tech industries

Modest number of AI startups relative to many other peer regions





### Broaden and diversify Louisville's AI talent pipeline



#### Support AI adoption and adaptation in Louisville's businesses







### Develop and market Louisville's AI niche in the broader region



# How Louisville can become a stronger and more equitable hub for AI and data economy jobs

