8TH ANNUAL CA WATER DATA SUMMIT

INTELLIGENT QUESTIONING (IQ)
SHARING WATER WISDOM

KEYNOTE
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CHIEF EXECUTIVE OFFICER, DATAKIND

STANFORD UNIVERSITY | PALO ALTO, CA

#CAWaterDataSummit #IntelligentQuestioning

CALIFORNIA DATA COLLABORATIVE

SWAN SMART WATER NETWORKS FORUM

Improving the Future of Water with Data Science

Lauren Woodman

CEO, DataKind

DataKind tackles the world's toughest problems with data science and AI.

25K strong
350 projects
10 years

Shapes or land masses of countries are representations and not necessarily accurate.

We believe
data allows us to act
with greater
certainty,
efficacy,
and impact.

328.7 terabytes of data every day

(that's 12.5m years of binging Netflix 24 hours/day)

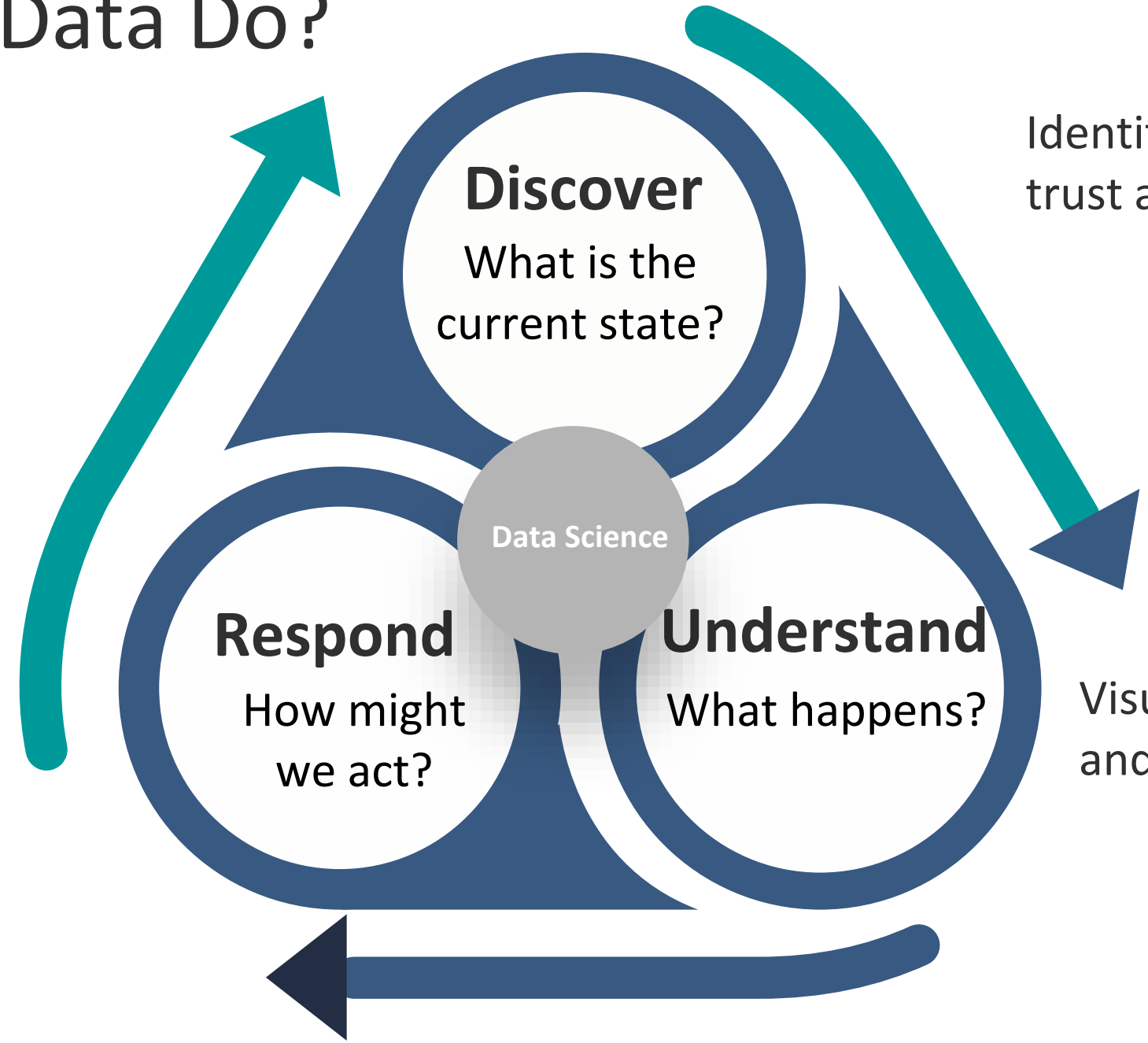
328.7 terabytes of data every day

90% in the last two years

Data ≠ Information

Credit: Intersection Digital

What Can Data Do?

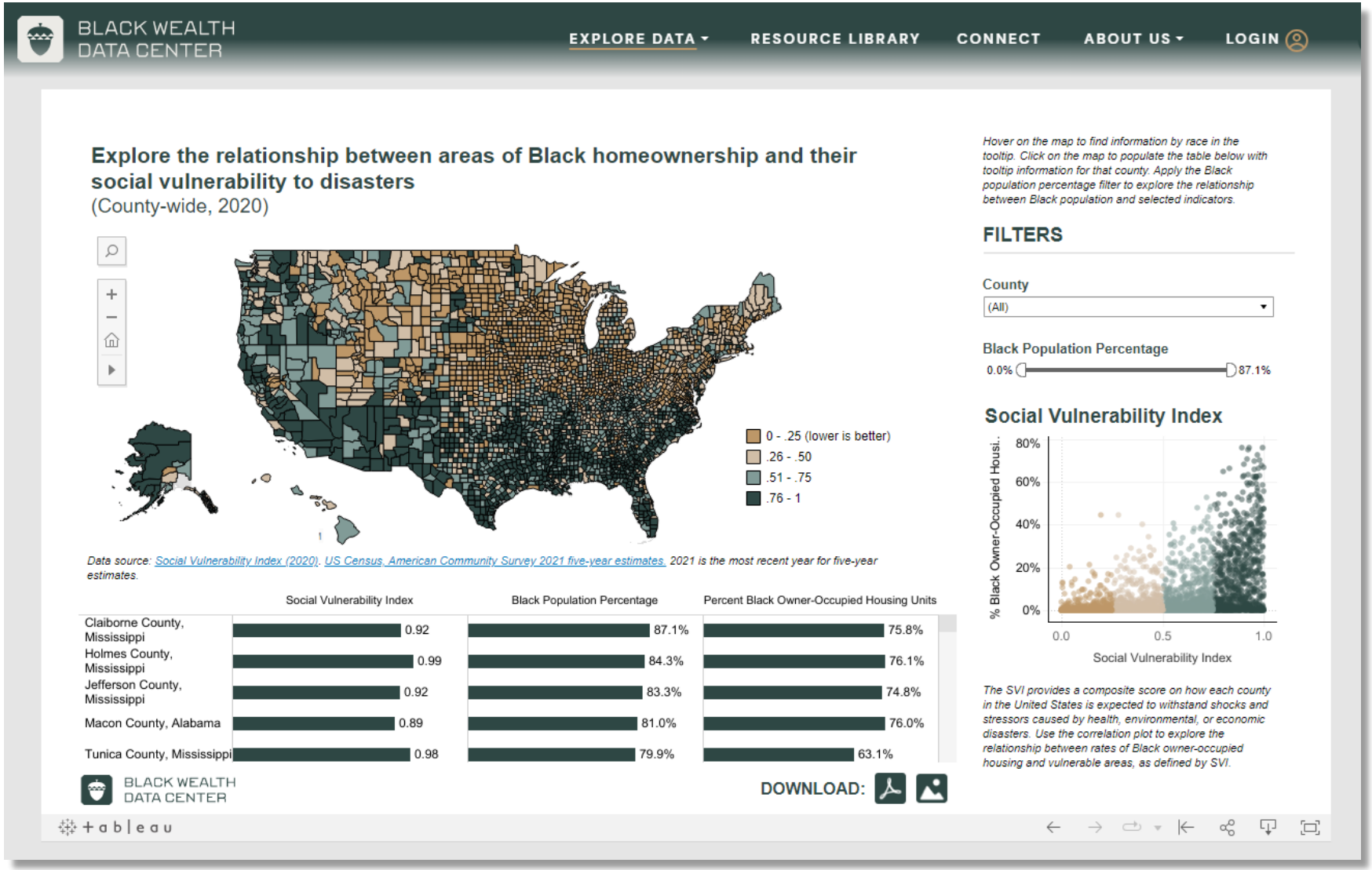


Empowering Decision-Makers

Black Wealth Data Center

National and county-level data that compares how race influences factors that contribute to wealth.

Empowers decision-makers with reliable data to increase generational wealth and combat chronic underinvestment.

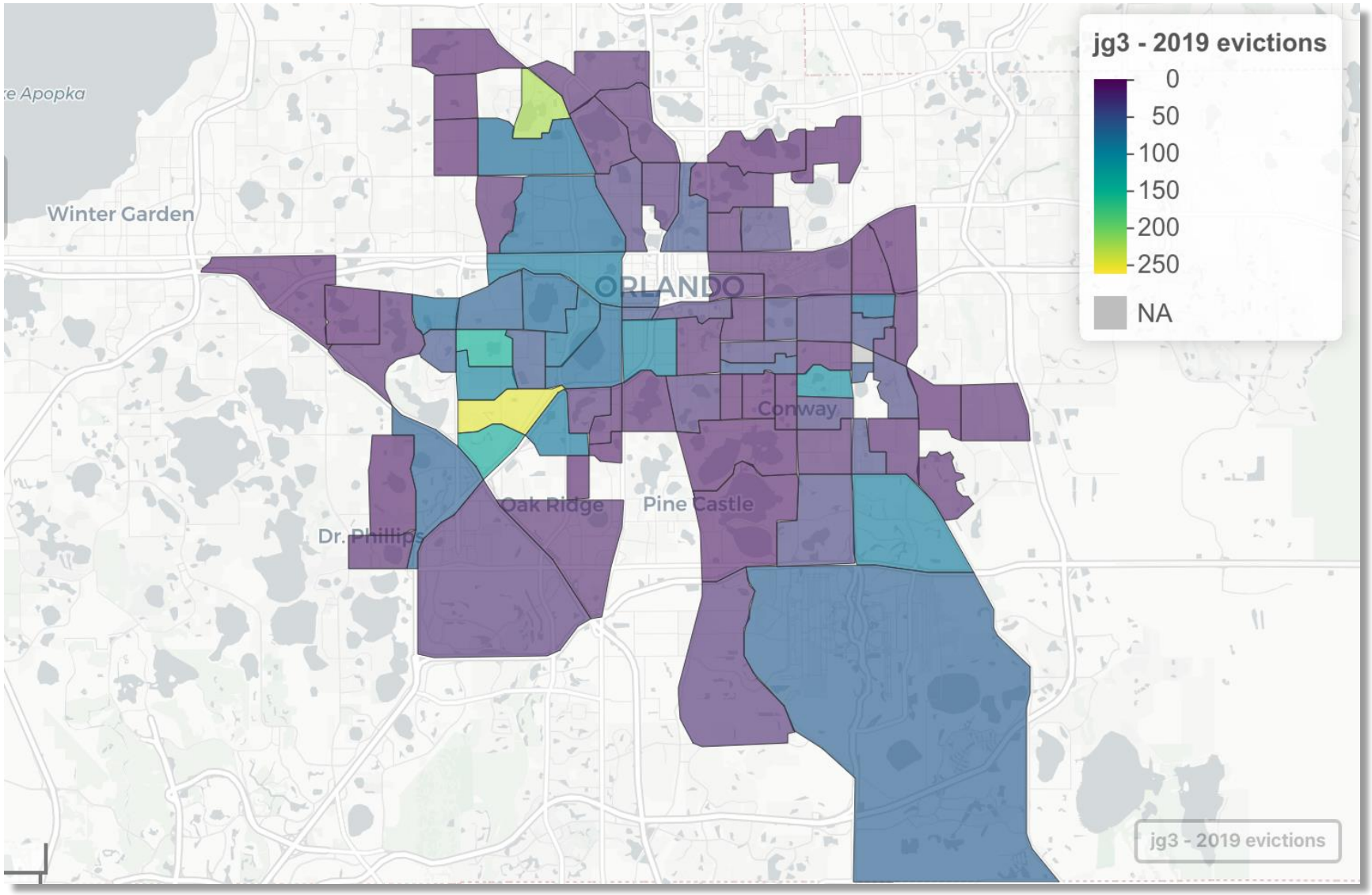


Assessing Community Needs

Foreclosure & Eviction Analysis Tool

Mapping analyzing evictions in Orlando, FL for 2019

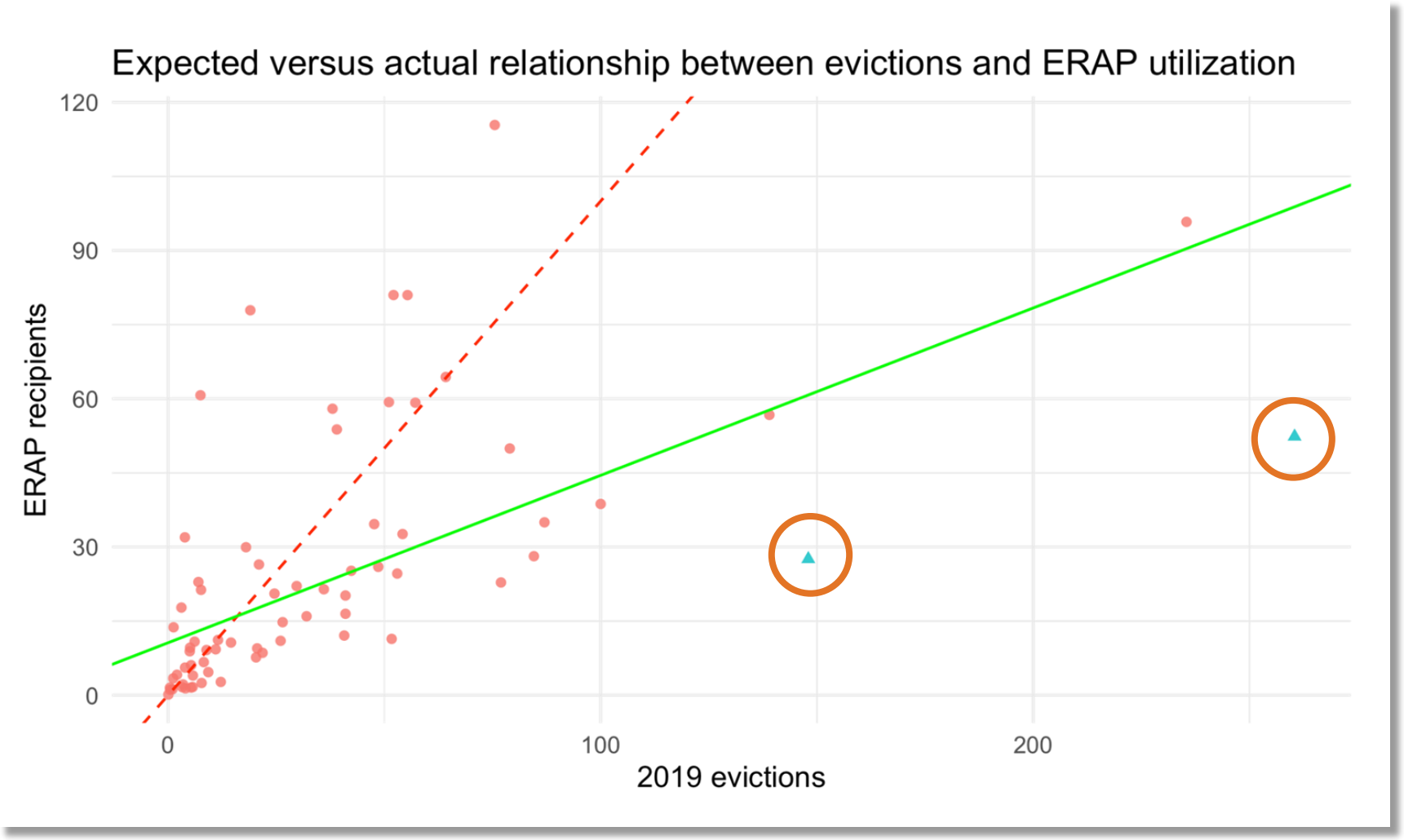
Most evictions are on the west side of the city, where there are relatively low incomes and higher rents



Foreclosure & Eviction Analysis Tool (continued)

Data compares emergency rental fund utilization and evictions.

The red dotted line shows the 1:1 ratio of evictions and ERAP recipients. The green line is the observed regression line – for most census tracts, need outstrips supply 3:1.



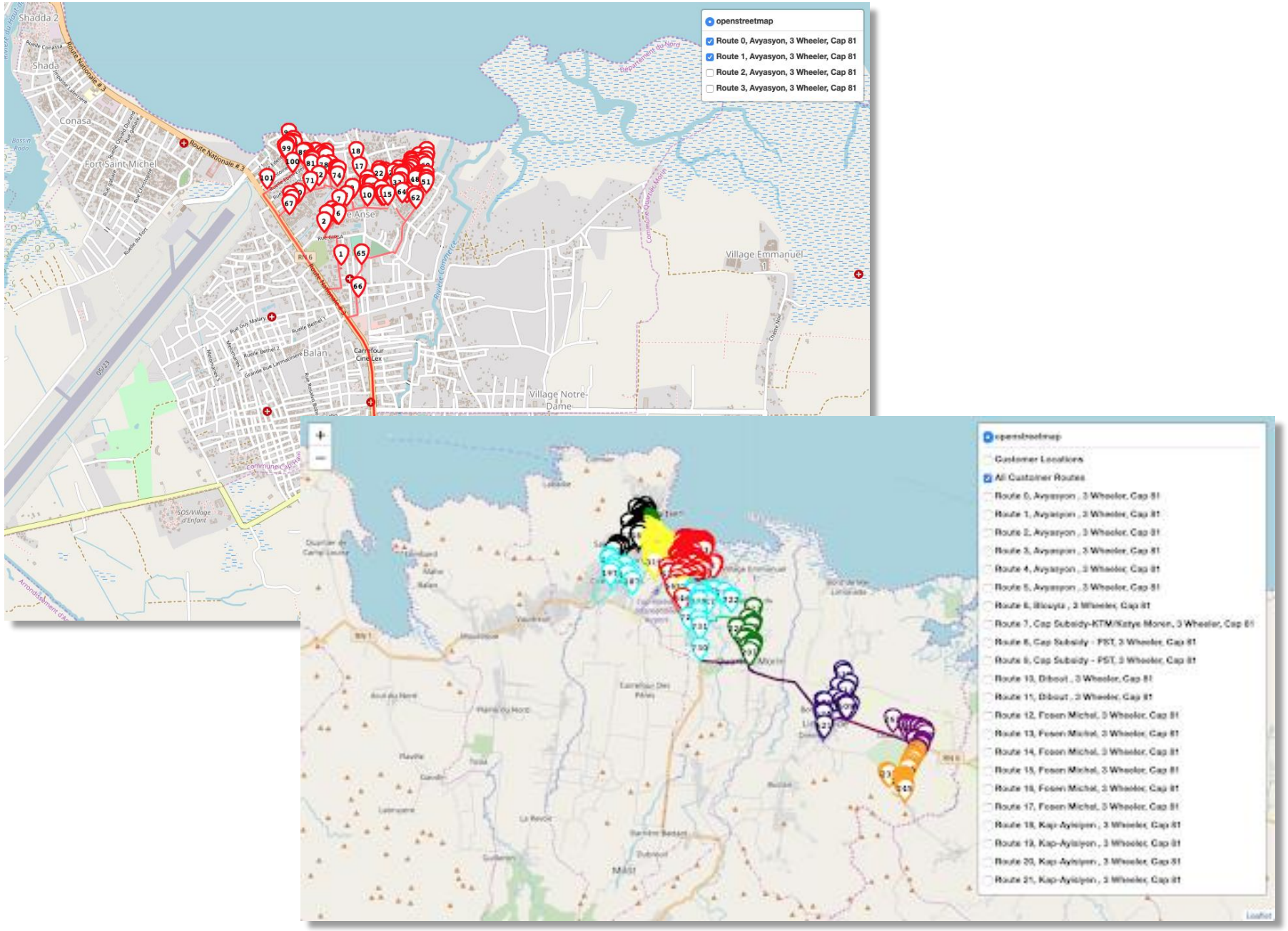
Optimizing Efficiency

SOIL Haiti

Leveraging open and client data, optimized routes for capacitated vehicles

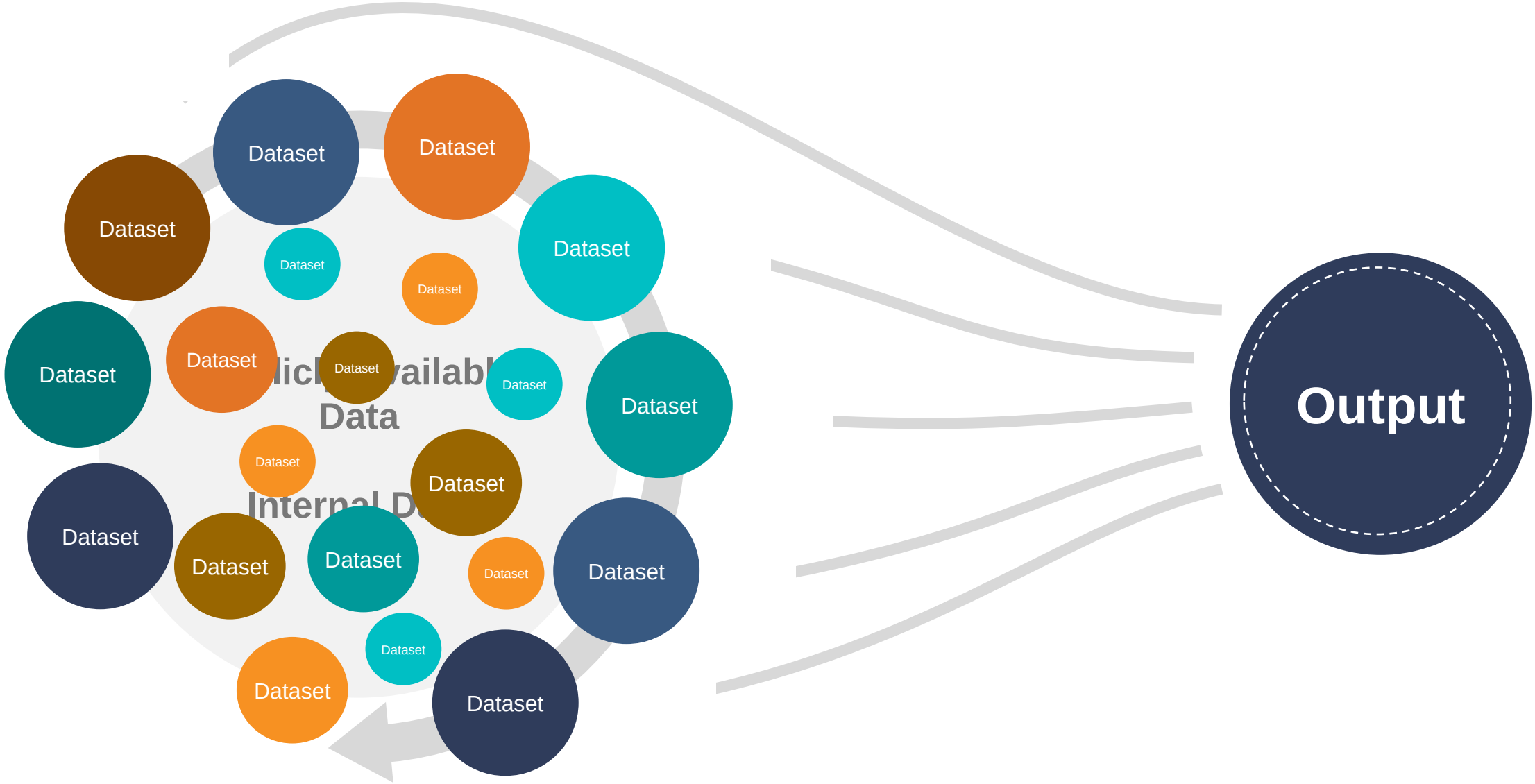
Produces offline-accessible turn-by-turn directions for drivers & allows for driver customization

SOIL Haiti saved 13% of their previously-spent resources to conduct the same number of trips

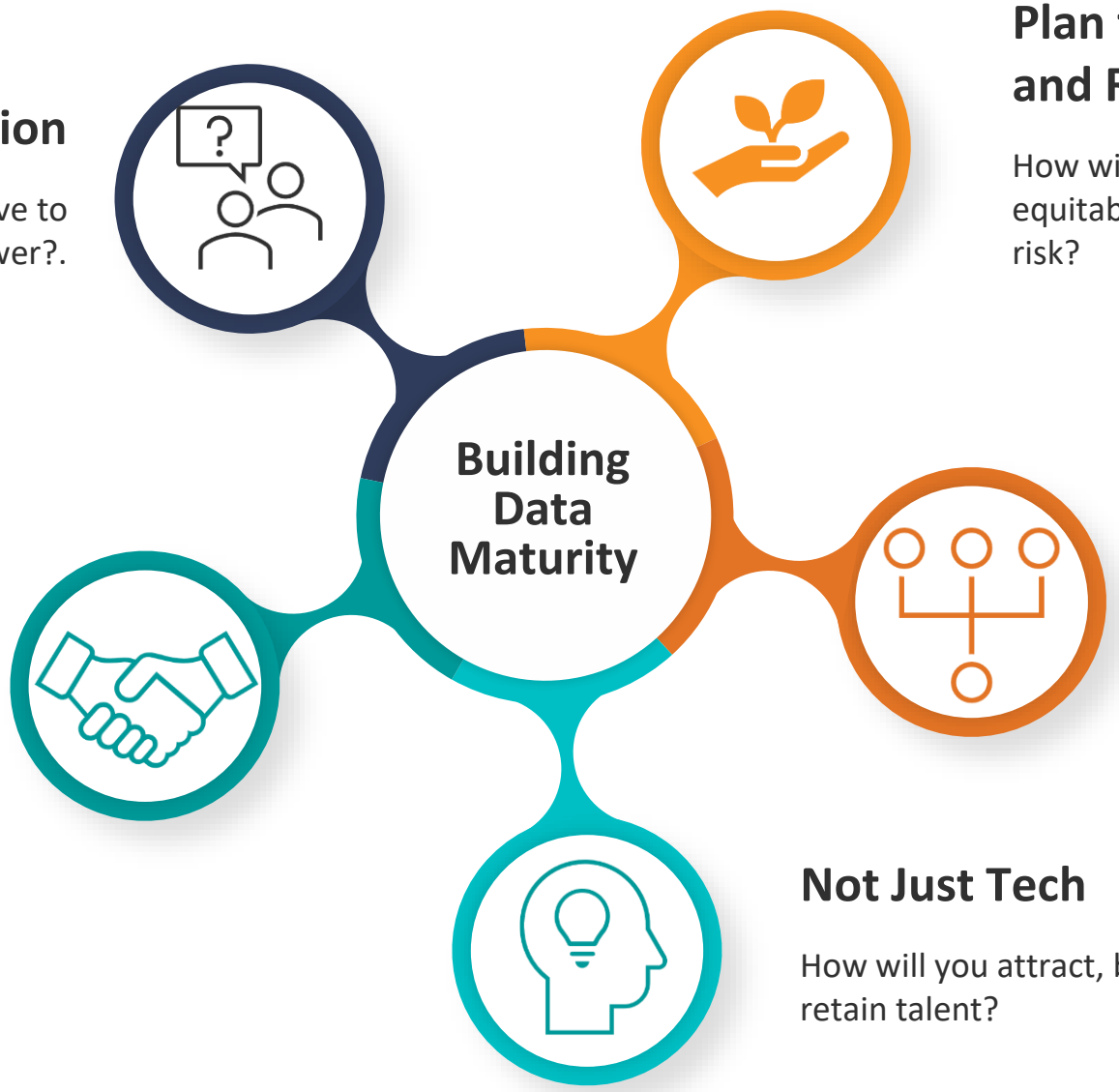


Improving Preparation & Planning

Humanitarian Data Insights Platform



Building for the Future



Start with a Question

What questions do you have to answer?.

Plan for Ethics, Equity, and Risk

How will you make ethical and equitable decisions and balance risk?

Partner & Collaborate

Who will you work with?

Contextualize

Who are the stakeholders, and what can you learn from them?

Not Just Tech

How will you attract, build and retain talent?

Data will empower
you to act with greater
certainty,
efficacy,
and impact.

Thank you.

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