

# Public Health Analytics & Reporting

## Using Data & AI Helps City Improve Crisis Response Effectiveness

Public health departments in the United States are responsible for the wellbeing and health of their communities. They have the responsibility to provide crucial health analytics to citizens and government agencies in a timely and accurate manner. Additionally, they are required to report accurate critical data to department workers, partner agencies, and other constituents in times of crisis.

Investing in solutions to streamline data aggregation, uncover insights, and develop predictive models will improve response during critical times. Ultimately, health departments will be able to rapidly analyze data and respond to health challenges more effectively. **Catapult's Public Health** offering helps health departments jump start their data road map. More recently, Catapult has worked with health departments to incorporate **COVID-19** data into their crisis response platform. For example...

### EMERGENCY RESPONSE

COVID-19 response planning across the United States is happening at a regional level, with cities, counties, and states building plans tailored to their citizens and their regional capabilities to respond. The internet is flooded with dashboards and information, the majority of which are backward looking and don't provide the local information needed to efficiently respond to case loads. With Catapult's Public Health offering, bed counts, ICU capacity, staff schedules, and equipment inventory are aggregated on a single platform, helping local health departments better plan their response.

### FLOOD RESPONSE

Houston faces flooding events frequently. With scarce resources and 660+ square miles to cover, the city needs to improve how resources are allocated when flooding happens. Catapult's Crisis Response offering gives health departments an automated framework to aggregate data from disparate sources to detect outliers, trends and patterns quickly to improve crisis response. Data quality processes improve vendor managed systems to further enhance analytics.

### AN EFFICIENT HEALTH ANALYTICS SOLUTION

The elasticity of the cloud allows health departments to consolidate data to take full advantage of high-grade security features, data at scale, advanced analytics and machine learning capabilities. With the right partner, you can make similar improvements to your health department.



#### 1. DISCOVER NEEDS:

A 2-hour session to understand the public safety agency's current state, assess their needs, and introduce the crisis response platform



#### 2. INNOVATE & DESIGN

**Day 1:** Taking inputs from needs discovery, align priorities to art of possible

**Day 2:** In-depth review of crisis response platform and design add-ons or customizations

Workshop  
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of sheet



#### 3. DEPLOY MVP:

- Deploy crisis response platform solution to Azure
- Connect agency's data to the platform
- Light up analytics & insights functionality

### CATAPULT HELPS TO:

#### 1. AUTOMATE PROCESSES

We leverage Azure to identify data sources, consolidate data, and create an automated process to update changing data environments.

*Duplication of efforts was eliminated.*

#### 2. IMPROVE DEPARTMENTAL RESPONSES

We improve response rate of critical and non-critical events by reducing manual reporting efforts.

*Dashboards provide quick access to key information. Alerts analysts of discrepancies.*

#### 3. INTRODUCE ADVANCED ANALYTICS

We introduce trend analysis and in-depth quality analysis of health data.

*Real-time IoT sensor data provides faster response rate in times of crisis.*

# Innovation and Architectural Workshop

## 2 DAYS OF INNOVATION DISCOVERY AND ARCHITECTURAL DESIGN MAPPING

Catapult, jointly with Microsoft, has an established a process that helps public agencies improve the availability, accuracy, and integrity of data reporting. Our Innovation Workshop and Architectural Design Session set the foundation for the successful implementation of data-driven solutions that help find answers more quickly and efficiently. With the use of your data and Azure’s AI and machine learning capabilities, as well as Power BI, Catapult and Microsoft will help you quickly create a solution that fits your needs.



### WHAT IT IS:

**DAY 1**  Catapult  
A QUSITIVE Company

**DAY 2**  Microsoft

#### Innovation Session

This two-to-three hour co-creation, in-person workshop is the first step toward understanding your priorities, ranking them, knowing where to start, and identifying the best way to build velocity in your journey. Catapult and the agency will co-ideate insights and advanced analytics scenarios and collaborate to prioritize ideas and scenarios.

#### Design Session

This one-day in-depth workshop reviews cloud technical solutions to the agency’s infrastructure and environment. Microsoft reviews data sources, components and solutions available. Microsoft and the agency identify use cases for exploration and map objectives. Architectural components, solutions, and practices that lead to success are recommended. Risks and mitigation strategies are documented

#### Deliverable:

Executive summary and solution briefs with prioritized needs and timelines.

#### Deliverable:

Statement of project goal, solution requirement and concerns, description of situation and proposed solution, and roadmap for next steps.

### SOME PROCUREMENT OPTIONS:

#### DIR Contract Vehicle

*(See information on procuring through DIR in attached sheet)*

Deliverables Based IT Services (DBITS)  
Contract #: DIR-CPO-4939

Microsoft Technical Services (MTS)  
Contract #: DIR-CPO-4909

#### GSA Federal Government Contract Vehicle

Contract #: GS-35F-0613W; SINS 54151, 54151S

### ABOUT CATAPULT:

*Catapult, a Qusitive company, is a Microsoft-focused solutions and services firm that specializes in imagining, building and sustaining digital transformation and cloud-based solutions that people love to use. Catapult has consistently been recognized as a leading Microsoft Partner with 10 Advanced Specializations and 17 Microsoft competencies. Recent accolades include 2020 MSUS Partner Award Winner Azure – DevOps, Top Microsoft 365 Security Partner for FY20, and being named a finalist of the Data Analytics 2020 Microsoft Partner of the Year Award. Catapult has offices nationwide.*

### FOR MORE INFORMATION:

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How can we help you?  
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2020 Partner of the Year Finalist  
Data Analytics Award

2020 MSUS Partner  
Award Winner  
Azure – DevOps

FY20 US  
Top Microsoft 365  
Security Partner