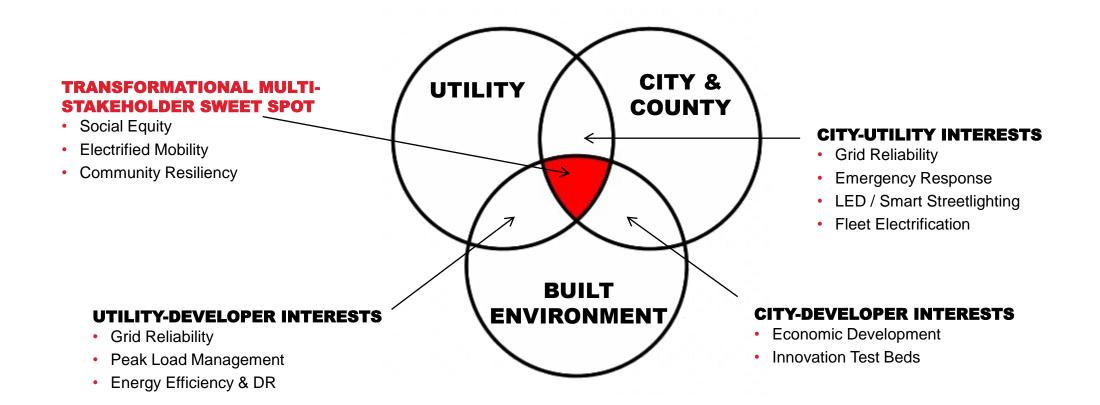


MARKET CONTEXT & KEY DRIVERS OF SUCCESS



1) Multi-Stakeholder Alignment; 2) Sustainable Business Models; 3) Show Quick Wins

SMART CITY SOLUTION ELEMENTS

OUTCOMES FOR CITY ADMINISTRATION & CITIZENS



Ensure continuity of city infrastructure & improved response time to deliver city services



Improved quality of life for citizens



Higher citizen awareness & engagement

HONEYWELL CITY SUITE & THIRD-PARTY APPLICATIONS





Public

Safety

Muni Building Emergency Response Management



Smart Streets



Multimodal Mobility



Sustainability & Resiliency



Energy Equity

Omnichannel Engagement

HONEYWELL'S CITY SUITE IOT & AI PLATFORM



IOT Hub, Service Bus



Stream Analytics



GIS Engine



Analytics Engine

CITY IOT NETWORK

FIELD DEVICES + SENSORS



Utility Meters



Parking Sensors



Street lighting controllers



Bin Sensors



Environmental Sensors



Cameras



Traffic controllers



Vehicle mounted displays



Social Networks

Comprehensive capabilities that lead to compelling outcomes

READY-TO-DEPLOY AI TEMPLATES



PUBLIC SAFETY

Video Analytics

Emergency Response



CITIZEN ENGAGEMENT

Citizen Services

Resource Planning

Social Media Analytics



TRANSPORTATION

Yield Analysis

Bus Scheduling

Predictive Maintenance



INFRASTRUCTURE

Water & Wastewater

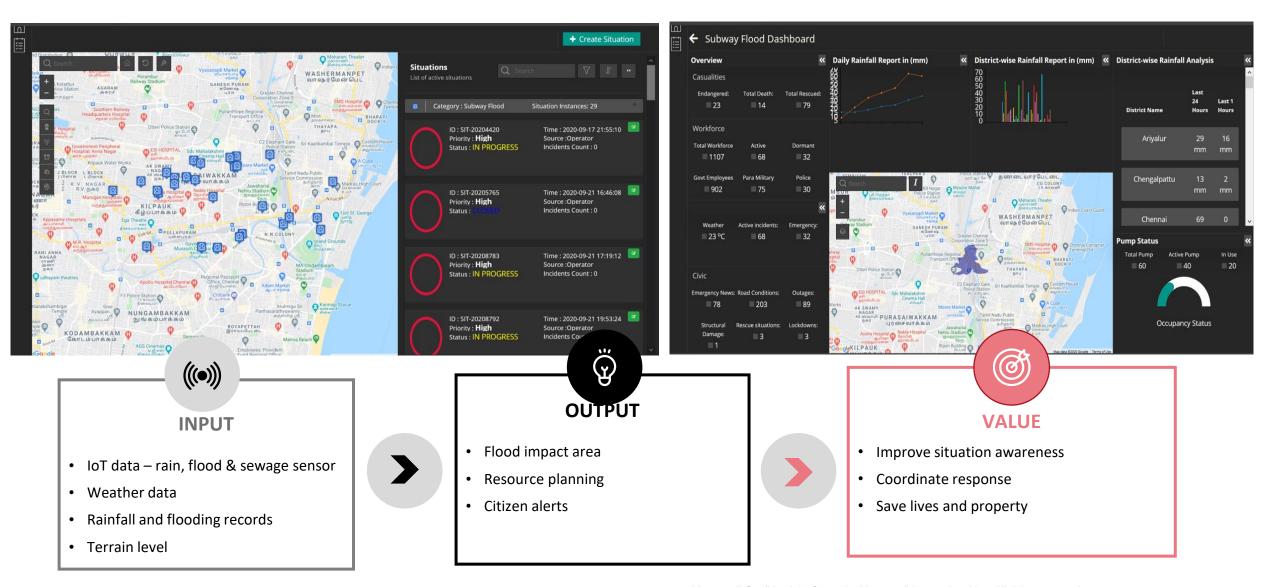
Parking

Garbage

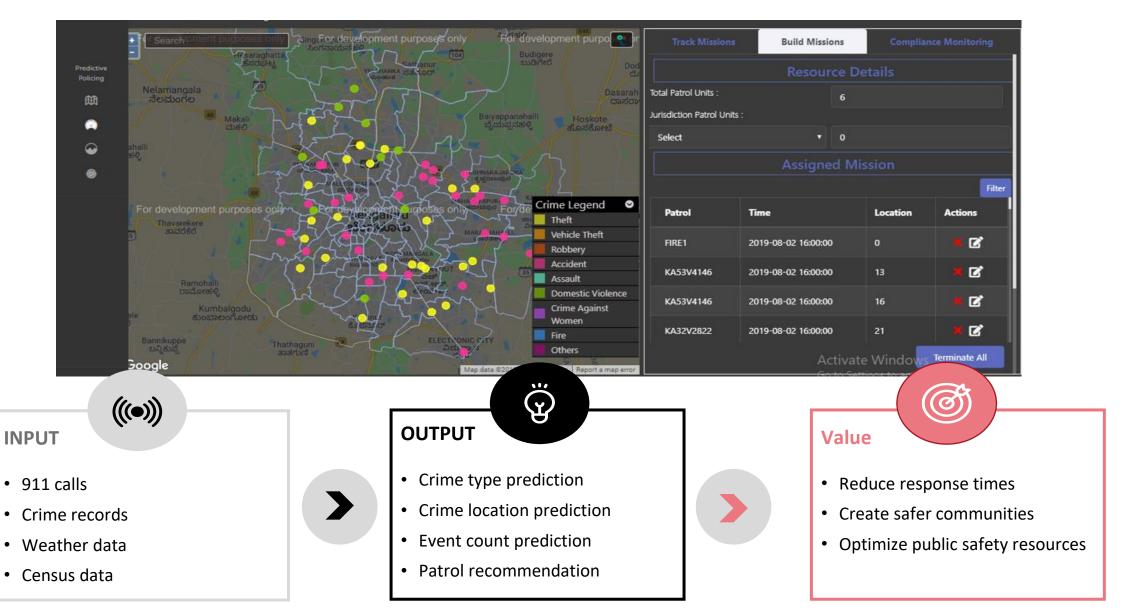
Energy

Accelerating time to value for multiple departments

PREDICTIVE EMERGENCY RESPONSE



PREDICTIVE PUBLIC SAFETY



CITY-UTILITY USE CASES



Streetlight & IOT Management

- Native support for streetlight management & 3rd party systems
- Provides granular and grouped control (on/off/dim) & reporting
- Can manage individual or multiple commercial & municipal customers
- Can manage multiple pole-attached IOT devices across entire territory from "single pane of glass"



Integrated DSM

- Integrates various loads and stakeholders for flexible, feeder-level control to reduce peak demand and improve grid reliability
- Integrates key utility systems & offers integrated DERMS functionality tightly coupling utility and customer loads when needed
- Supports wide range of customer load types and systems



Community Resiliency

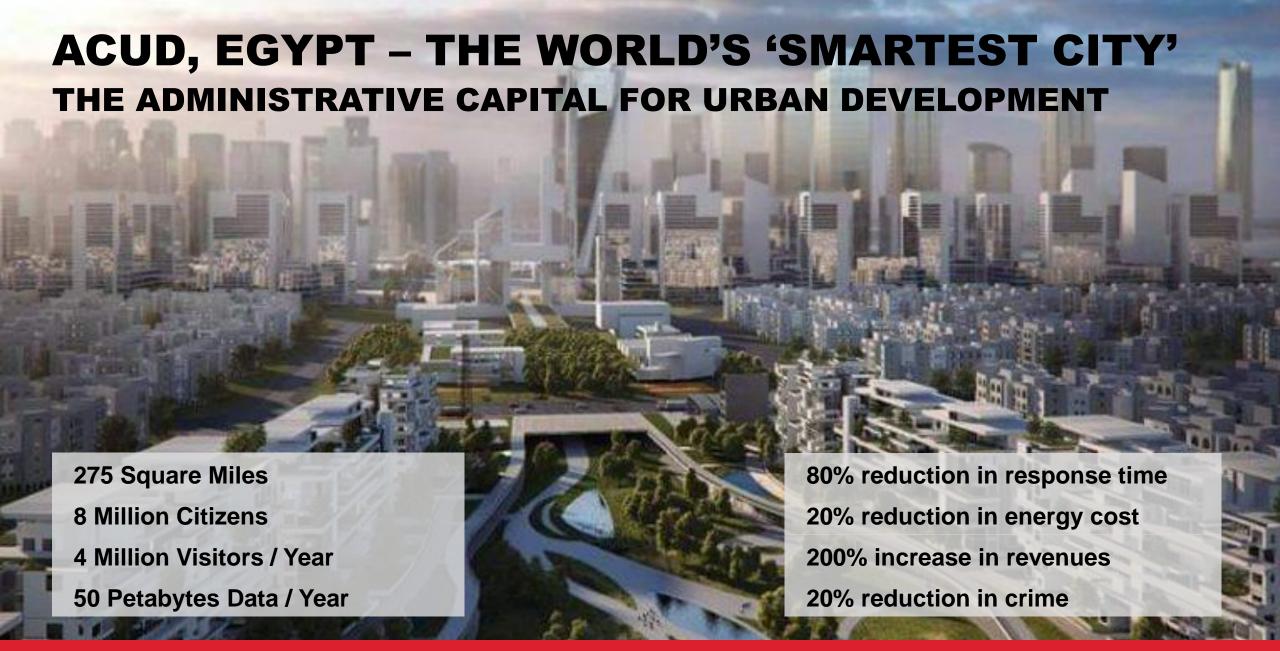
- Monitors & controls a diverse set of DERs and microgrids
- Integrates city and utility IT & OT systems for collaborative resource management
- Extends City Suite's IDSM features to help cities & utilities monitor and optimize system-wide resiliency resources during service interruptions



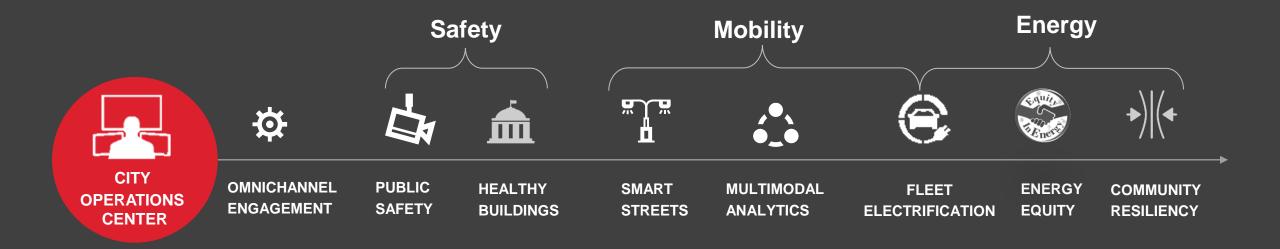
Energy Equity VPP

- Eases energy burden of low- and moderate-income (LMI) households
- Extends traditional VPP program to provide additional & focused benefits to LMI households
- Addresses a critical need of city leaders nationwide
- Can help utilities gain rate case support

Smart City Platforms Help Utilities Evolve and Better Serve Municipal Customers



HONEYWELL CITY SUITE





Includes City Operations
Center and pre-integrated
analytics



Enables situational awareness and control across all city systems



Provides system-ofsystems integration and data analytics



Supports both Honeywell and thirdparty applications



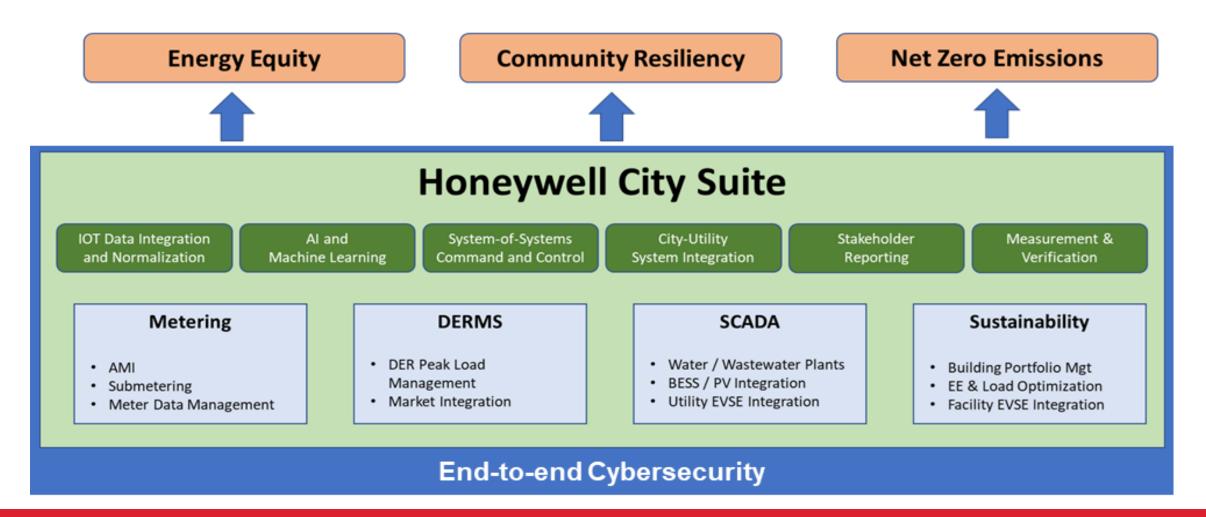
Speeds response times and improves operational efficiency



Enables data-driven decision making and city-scale management

Integrated Insight, Monitoring and Control Across City Silos

HONEYWELL ENERGY EQUITY & RESILIENCY (HEER)



Unique energy innovation delivered via single point of accountability

ENERGY EQUITY VIRTUAL POWER PLANT (VPP)

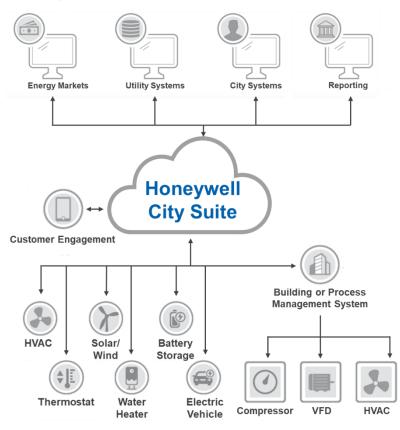
Reducing Peak Electric Load Through Energy Efficiency and Demand Response



Program Summary

- DOE-supported program combines market integration (Recurve), project financing (Dividend) & delivery (Honeywell)
- Supports multiple utility business models and aligns city-utility strategic priorities
- Provides focused benefits for low- & moderate-income (LMI) households via shared risk-reward ESPC model

Energy Equity VPP Solution Architecture



Program Benefits

- Enables energy flexibility at different time scales to improve grid reliability & resiliency
- Accurately values full system benefits (grid benefits, emissions benefits, etc.) of energy efficiency and demand response resources (more lucrative)
- Integrates a diverse set of Commercial and Residential loads and systems (t-stats, PV, batteries, heat pumps, fuel cells, EVs, etc.)
- Can uniquely address energy burden of LMI households, who typically struggle with energy efficiency project financing due to credit rating

Integrated demand side management delivered through a social equity lens

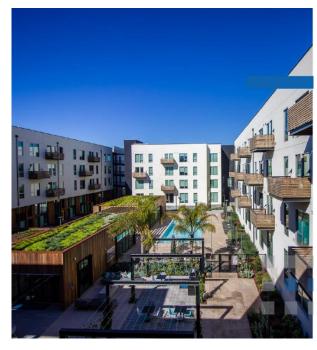
COMMUNITY RESILIENCY (1)

Creating Resilient and Sustainable 'Net Zero Multifamily Microgrid Communities'



Program Summary

- DOE-supported program combines modular builder (Guerdon), project financing (Innovatus) & energy resiliency solutions (Honeywell)
- Complexes typically 300-500 units, \$350M value & can be mixed-use
- 10% of units workforce / affordable via P3 model if city donates the land







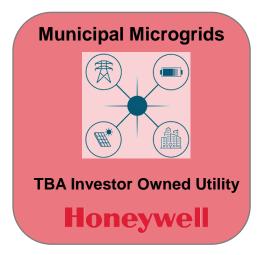
Program Benefits

- Creates <u>market-based</u> model for resilient multifamily development nationwide (targeting 10 US cities initially)
- Advanced apartment-level load management via smart breaker panel and mobile app (manage 'energy budget' during microgrid islanding)
- Accelerates EV infrastructure build out and adoption of EVs among traditionally underserved communities
- Can uniquely address energy burden and resiliency gap for low-and moderate-income (LMI) households

Resiliency and EV charging integrated into sustainable apartment living

COMMUNITY RESILIENCY (2)

Creating Interconnected Municipal Microgrids



Program Summary

- Commercially financed nationwide program combines project financing (TBA utility) & municipal microgrid solution development (Honeywell)
- Comprehensive resiliency solutions span municipal needs (e.g., large, medium, small & highly distributed)
- Local utility gets time-limited right of first refusal on asset ownership



(neighborhood microgrid ex.)

Program Benefits

- Creates <u>market-based</u> model for municipal microgrid development nationwide
- Comprehensive approach can drive resiliency broadly throughout a city
- Batteries and natural gas generators (for long-duration large loads) replace unreliable and dirty diesel generators
- Business model reduces capital investment needs for cities and provides more consistent service
- Offloads need for city staff for advanced skill sets to plan, operate and maintain complex microgrids

Resiliency and EV charging integrated into sustainable apartment living

Honeywell

THE FUTURE IS WHAT WE MAKE IT