Creating Positive Community Impact through MetroHealth’s Campus Transformation Plan
The MetroHealth System Cuyahoga County and NE Ohio

- Public safety net hospital, 180+ years
- 1 rehab and 2 community hospitals
- 20 Health Centers with an additional 40 sites offering MetroHealth care
- 1.4 million patient visits annually
- Over 300,000 patients, 75% of whom are uninsured or on Medicaid or Medicare
- 7,700 employees, 10\textsuperscript{th} largest employer in 15 county NE Ohio region
• 2014 Polar Vortex – loss of 200 beds

• Facilities Assessment - $1B to rehab

• Campus Transformation Plan: new hospital, central utility plant, parking garage, View Road, community park

• Improved finances 2013-2018 enabled bond funding for nearly $1B for design and construction

• Self-funding allows for flexibility to pursue innovative design and paths to get there
### Resilience Assessment Tool

**Hazard Vulnerability Assessment**

<table>
<thead>
<tr>
<th>RISK</th>
<th>LEVEL OF CONCERN</th>
<th>HUMAN IMPACT</th>
<th>PHYSICAL ASSETS IMPACT</th>
<th>BUSINESS IMPACT</th>
<th>PREPAREDNESS</th>
<th>INTERNAL RESPONSE</th>
<th>EXTERNAL RESPONSE</th>
<th>SEVERITY = (MAGNITUDE - MITIGATION)</th>
<th>RISK</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Likelihood &amp; owner concern</td>
<td>1 = Low</td>
<td>2 = Moderate</td>
<td>3 = High</td>
<td>1 = Low</td>
<td>2 = Moderate</td>
<td>3 = High</td>
<td>1 = Low</td>
<td>2 = Moderate</td>
</tr>
<tr>
<td>Climate</td>
<td>Extreme/Intense Precipitation Events</td>
<td>High</td>
<td>Low</td>
<td>High</td>
<td>Moderate</td>
<td>Low</td>
<td>High</td>
<td>Moderate</td>
<td>67%</td>
</tr>
<tr>
<td></td>
<td>Temperature Extremes</td>
<td>Moderate</td>
<td>Low</td>
<td>Low</td>
<td>Moderate</td>
<td>Low</td>
<td>High</td>
<td>High</td>
<td>30%</td>
</tr>
<tr>
<td></td>
<td>Drought</td>
<td>Low</td>
<td>Low</td>
<td>Low</td>
<td>Low</td>
<td>Low</td>
<td>High</td>
<td>High</td>
<td>19%</td>
</tr>
<tr>
<td></td>
<td>Dew Point Changes</td>
<td>Moderate</td>
<td>Low</td>
<td>Moderate</td>
<td>Low</td>
<td>Moderate</td>
<td>High</td>
<td>30%</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Changes in Precipitation</td>
<td>Low</td>
<td>Low</td>
<td>Low</td>
<td>Low</td>
<td>Low</td>
<td>High</td>
<td>Moderate</td>
<td>17%</td>
</tr>
<tr>
<td>Natural</td>
<td>Extreme Wind (straight line, hurricane, tornado)</td>
<td>Low</td>
<td>High</td>
<td>High</td>
<td>High</td>
<td>Moderate</td>
<td>High</td>
<td>High</td>
<td>24%</td>
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<tr>
<td></td>
<td>Excessive Snow Load</td>
<td>Moderate</td>
<td>Low</td>
<td>Moderate</td>
<td>Moderate</td>
<td>Low</td>
<td>High</td>
<td>Low</td>
<td>44%</td>
</tr>
<tr>
<td></td>
<td>Excessive Ice</td>
<td>Moderate</td>
<td>Moderate</td>
<td>Moderate</td>
<td>Moderate</td>
<td>Moderate</td>
<td>High</td>
<td>Low</td>
<td>48%</td>
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<tr>
<td></td>
<td>Groundwater Infiltration</td>
<td>High</td>
<td>Low</td>
<td>High</td>
<td>Moderate</td>
<td>High</td>
<td>High</td>
<td>High</td>
<td>50%</td>
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<tr>
<td></td>
<td>Hail</td>
<td>Low</td>
<td>Low</td>
<td>Low</td>
<td>Moderate</td>
<td>High</td>
<td>High</td>
<td>High</td>
<td>13%</td>
</tr>
</tbody>
</table>
issue #1: maintain power
Energy Supply

Electric

- Utility Distribution
- Emergency Power Capacity & Distribution
- UPS
- Demand Response Mode
- Backup Fuel Storage

Natural Gas

Sustain operation during utility outages
We have power.

How about water?
Water Systems

Municipal Supply

Water Storage for 96 hours

Stormwater

Temporary Connection

Well Water as backup

Potable Water

RO Water

Chilled Water Thermal Storage

Site design

Internal Flood

Centralized Systems

Redundancy

Backup

Reliable Water to support the Patient Environment
From Campus Transformation to Neighborhood Transformation

- Zip code = Health (Social determinants of health)
- Clark-Fulton neighborhood – high poverty, low education level, > 50% minority, chronic illnesses
- Elevate to become healthier, more equitable, economically and socially resilient, environmentally sustainable
- Community engagement
- Transparency - public reporting on progress
- Systems thinking – generational sustainability

= EcoDistricts Protocol
Social Determinants of Health

- 20% Healthcare Interventions
- 80% Influencers of Health

https://ecodistricts.org/protocol/
- District Energy
- Affordable Housing
- Digital Connectivity
- Transportation
- Stormwater Management
DRAFT EcoDistrict Governance for Collective Impact

Core Team
Co-chairs: Councilwoman, Community Development Corporation, Hospital (anchor institution) + City, Philanthropy, Elected Residents

Collaborative
Core Team + business council, faith community institutions, community development corporation, housing organization, public transit authority, metro area park non-profit, public library....

Community Ambassadors
Residents, community leaders, advocates

Neighborhood
Transformation for Resilience, Health, Community, Equity, Sustainability