The world is in trouble.
Yiwu, China produces 60% of the world’s Christmas decorations and accessories.

In 2009, the deadliest bush fire in Australia’s history caused over 173 deaths and destroyed over 2,000 homes in and around Melbourne.
(Urban) Resilience is the capacity of individuals, communities, institutions, businesses, and systems within a city to survive, adapt, and grow no matter what kinds of chronic stresses and acute shocks they experience.
City Resilience Framework
12 drivers that determine the city’s ability to withstand a wide range of shocks and stresses.
Partnering with cities for a better today and a stronger tomorrow.
Partnering with cities for a better today and a stronger tomorrow.

NYC Chief Resilience Officer Daniel Zarrilli with Mayor Bill de Blasio
Partnering with cities for a better today and a stronger tomorrow.

Resilience Strategy planning workshop in Oakland
City Resilience Framework
12 drivers that determine the city’s ability to withstand a wide range of shocks and stresses.
Economy & Society
The social and financial organizations that enable urban populations to live peacefully, and act collectively.

- Promotes cohesive & engaged economies
- Ensures social stability, security & justice
- Fosters economic prosperity

Infrastructure & Environment
The way in which manmade and natural infrastructure provides critical services, protects, and connects urban citizens.

- Provides & enhances natural & manmade assets
- Ensures continuity of critical services
- Provides reliable communications & mobility
Leadership & Strategy
Effective leadership, empowered stakeholders, and integrated planning.

Provides leadership & effective management
Empowers a broad range of stakeholders
Fosters long-term & integrated planning

Multiple factors contribute to resilience
URBAN RESILIENCE Initiatives

New Orleans, LA

Berkeley, CA

Oakland, CA

Norfolk, VA

Boulder, CO
Christine Morris
Chief Resilience Officer
Norfolk, VA
christine.morris@norfolk.gov
@NorfolkVA
Norfolk, Virginia

Norfolk’s Vision 2100—Future Land Use
Tactical Resilience

Zoning Ordinance Rewrite
• Resilience Quotient
• Risk Mitigation
• Stormwater Management
• Energy Options
• Required on-site back-up generation for community-critical uses

Resilient Building Codes
• Virginia USBC focuses on uniformity
• Conditions are not uniform
  • Seismic areas
  • Wildfire areas
  • Snow load areas
  • Coastal areas
    • Water, Wind, Energy
Resilient Revitalization

<table>
<thead>
<tr>
<th>Building</th>
<th>Year Built</th>
<th>Number of Units</th>
<th>Number of Residents</th>
</tr>
</thead>
<tbody>
<tr>
<td>Young Terrace</td>
<td>1953</td>
<td>752</td>
<td>1,797</td>
</tr>
<tr>
<td>Calvert Square</td>
<td>1957</td>
<td>310</td>
<td>749</td>
</tr>
</tbody>
</table>

Source: Virginia Pilot

Source: NHRA

Thank you

Stewart Sarkozy-Banoczy
Senior Advisor, 100RC
Acting Director, Europe & Middle East

Liz Yee
Vice President, 100RC
City Solutions
eyee@100rc.org
@eyee5

Otis Rolley
Director, North America, 100RC
United States & Canada
rolley@100rc.org
@otisrolley

Christine Morris
Chief Resilience Officer
Norfolk, VA
christinemorris@norfolk.gov
@ChristineNorfolkVA

@precoverylabs