David Paschane, Ph.D.

Building Resiliency Actions for Pandemics

Chattanooga, Tennessee
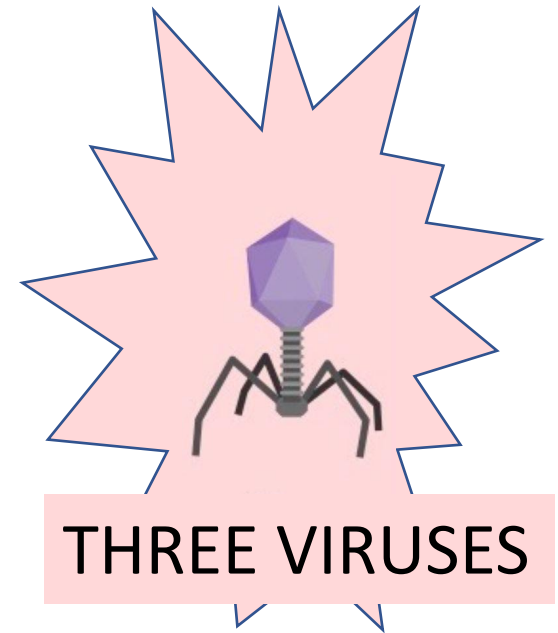February 3, 2021

Pandemics Change Our Questions

1. Have I effectively reassured those I care for?

2. Do I understand my own vulnerabilities?

3. How are those with less resources managing?

4. How can I better care for others?
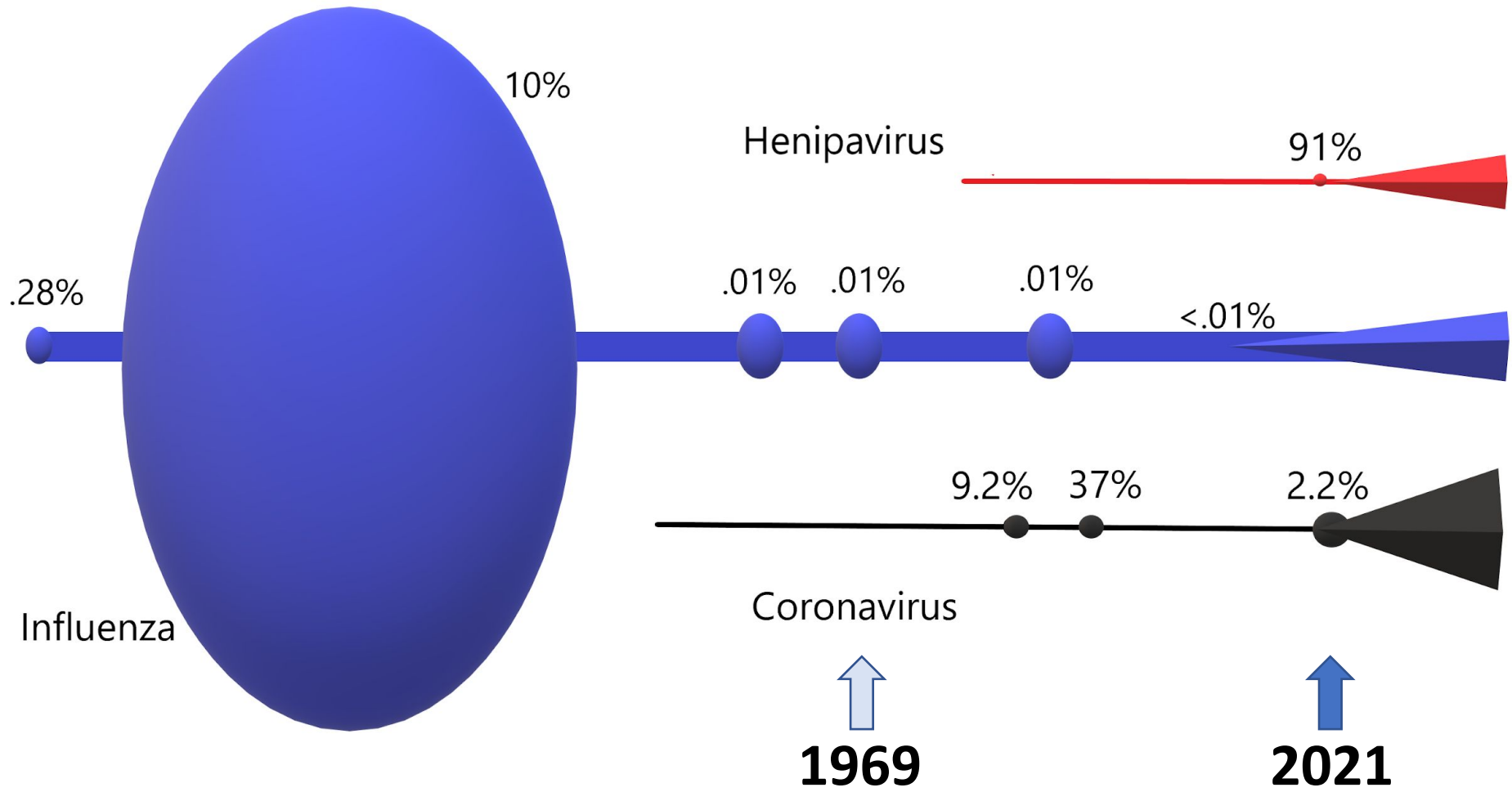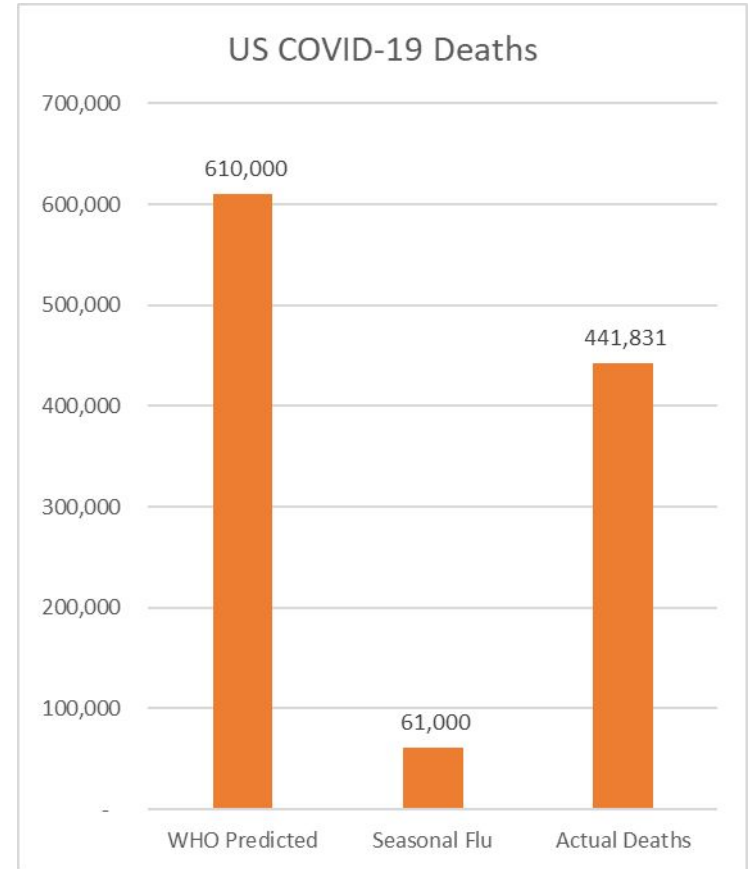
5. What relationships do I want to start or strengthen?
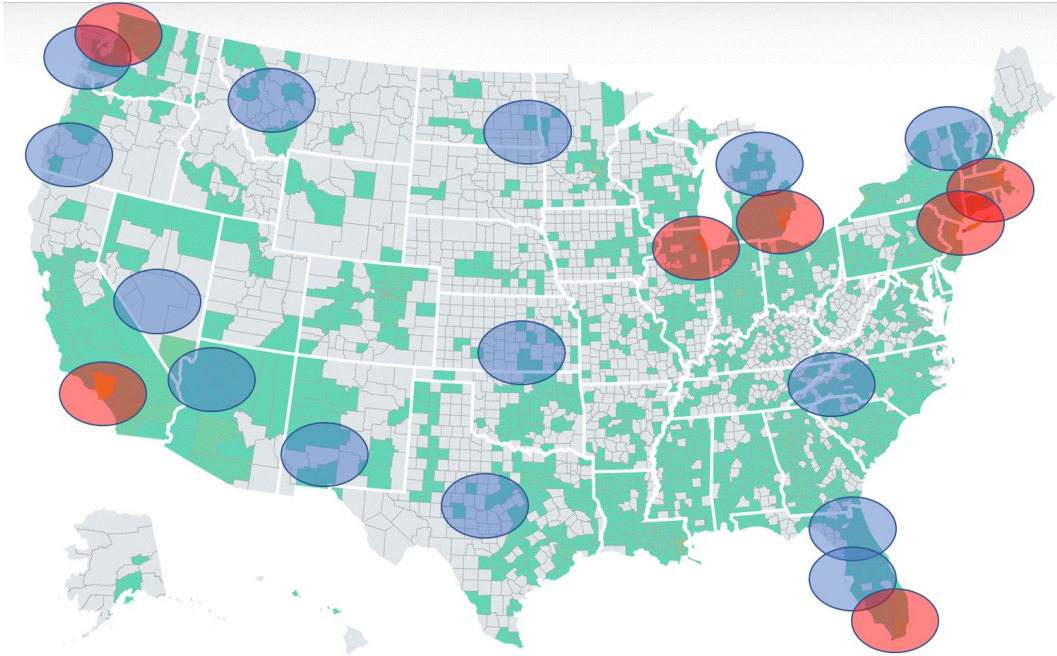
What is our future with pandemics?

The High-Risk Profile:

1. Cross over from animals to humans

2. Incubate in a person without symptoms

3. Replicate easily and eventually mutate (RNA)

4. Spillover to new victims through human travel

5. Transmit through respiratory droplets (aerosols)

THREE VIRUSES

10%

Henipavirus   91%

.28%   .01%   .01%   .01%   <.01%

                                        9.2%   37%   2.2%

Influenza

                        Coronavirus

                            ↑   ↑
                          1969   **2021**

US COVID-19 Deaths

Building resiliency is a focus on geographic scale – driving data trends down to local strategy and actions

City Strategy

Amplify analyses

Reinforce relationships

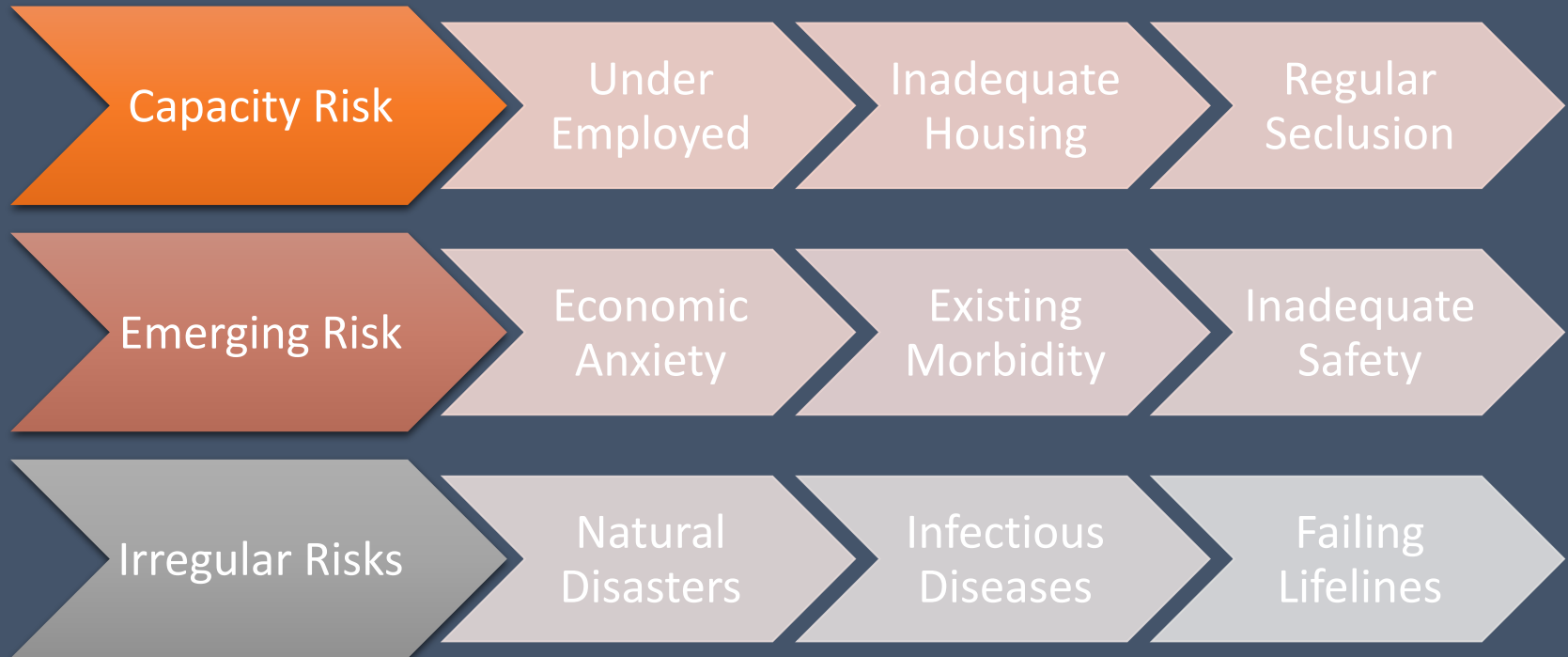Leverage technologies

Advocate policies

Amplify Analyses

1. Academic Leadership – business discipline, geographic, and practical

2. Practical Business Analyses:
    a. Protection Standards
    b. Multi-use Buildings
    c. Safety Innovations
    d. Efficient Services
    e. Risk Profiles

Analyses: Tiered Risk Profiles

Capacity Risk	Under Employed	Inadequate Housing	Regular Seclusion
Emerging Risk	Economic Anxiety	Existing Morbidity	Inadequate Safety
Irregular Risks	Natural Disasters	Infectious Diseases	Failing Lifelines

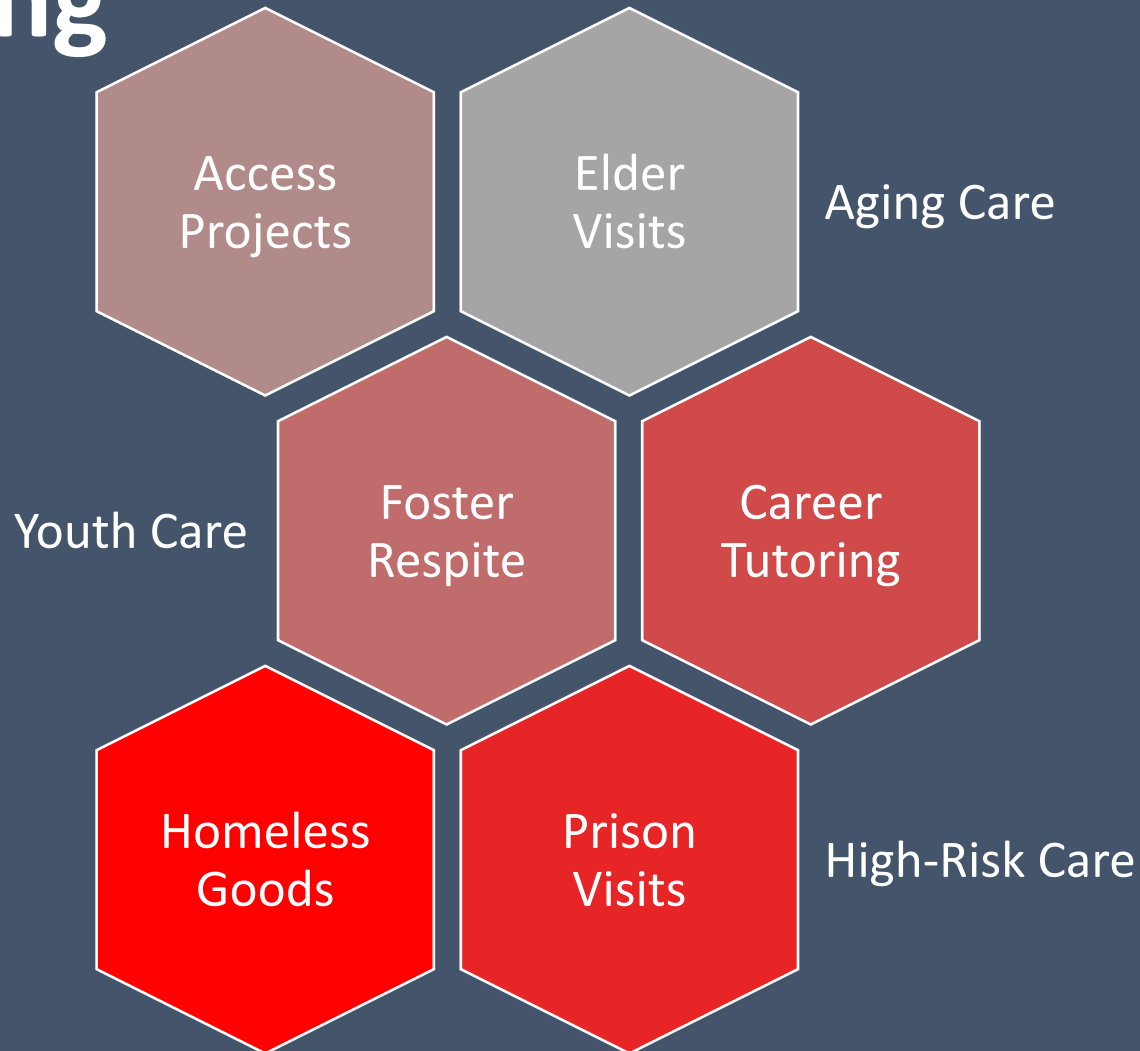# Reinforce Relationships

1. Substantive relationships are built, over time:
   a. Tangible Outcomes
   b. Use & Provide Benefits
   c. Cross-Sector Teaming
   d. Accountability
   e. Personal Agency

2. Requires Stretching Leaders:
   a. Government – know gaps, prevent subjugation
   b. Businesses – demand efficiency, promote creativity
   c. Churches – overcome apprehension, build endurance

Relationships: Training & Badging

Access Projects

Elder Visits

Aging Care

Youth Care

Foster Respite

Career Tutoring

Homeless Goods

Prison Visits

High-Risk Care

Leverage Technologies

Resiliency Building Goals:
1. Useful case data
2. Cross-sector cooperation
3. Networking volunteers

Employee Support Goals:
1. Convenient counseling
2. Work brokers
3. Remote accountability

Technologies: Creating Alignments

GIS
- Align Gaps, Strategies and Resource

MAP
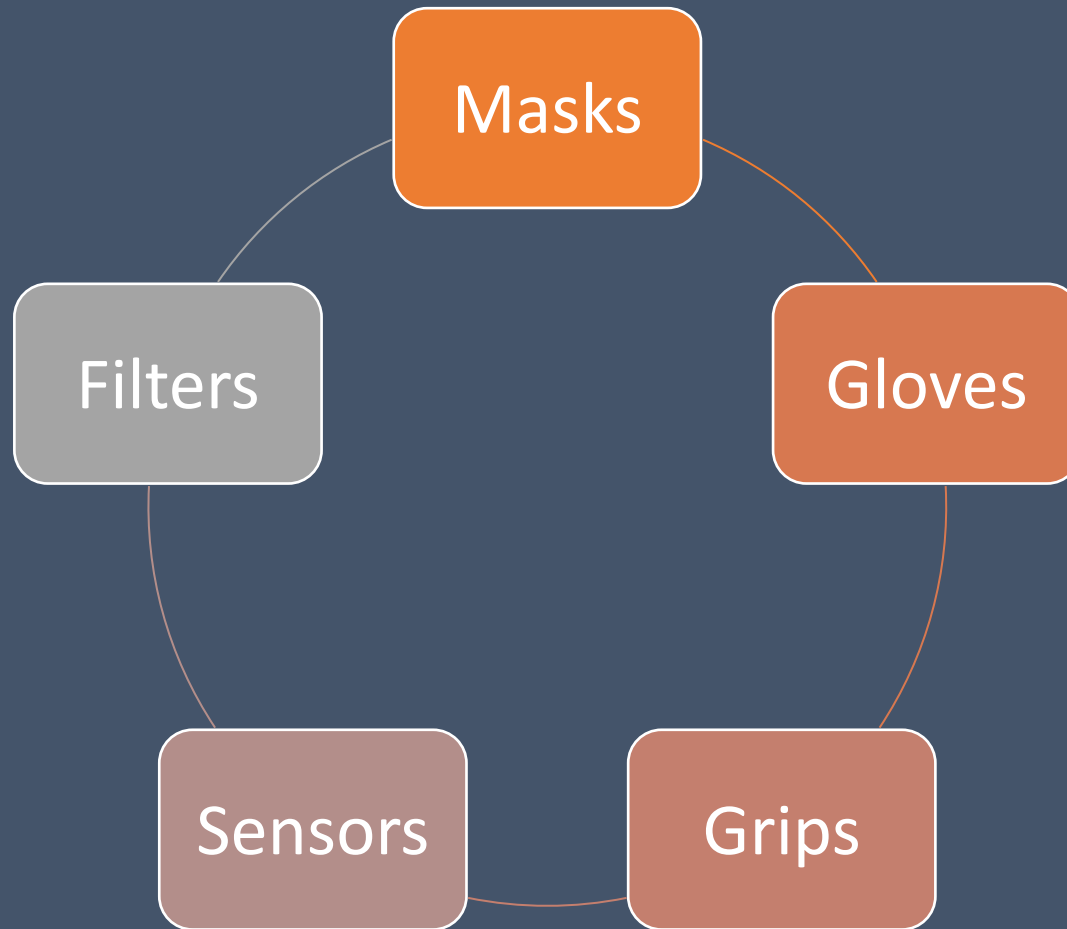- Align Service Profiles and Accountable Actions

LIN

Advocate Policies

1. Increase local resources and opportunities

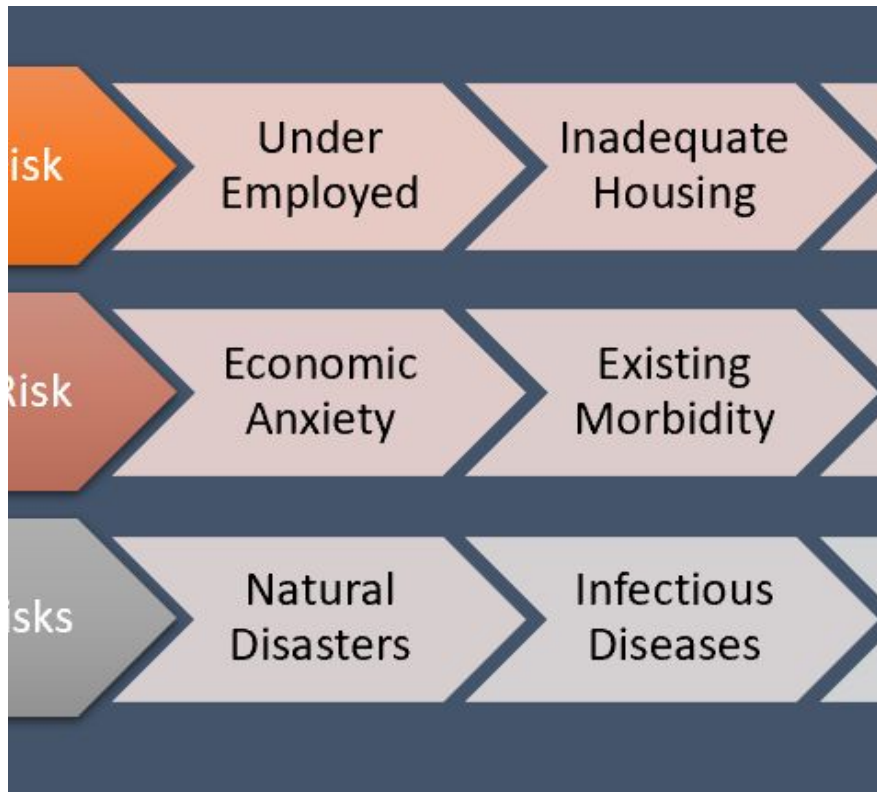2. Set models and standards for other communities

   Priorities:
   a. Pandemic Geography
   b. Risk Profiles
   c. Empowered Volunteers
   d. Safety Cache

Policies: Cache Innovative Safety

Starting Tomorrow?

- Ask Chattanooga church leaders to investigate the challenges and opportunities in developing and sustaining volunteers in places with high crime rates.

- Ask Mr. Gary Rollins, sponsor of UTC Business School, who is an expert in controlling infectious disease vectors, to establish a Center of Resiliency Management at the business school, to increase analytic capacity, leadership training and technology innovation for resiliency.

- Ask the regional hospital leaders to look at economies of scales they can create to support procuring advance safety resources and caching them for emergencies.

- Pandemics add to the layers of human risk
- Integrated talents and insights build resiliency