

Alastair Brown

Is your Council being Resilient

APSE Energy Summit

02 October 2019

What is Resilience?

Resilience is the capacity of communities, institutions, businesses, and systems and towns and cities to survive, adapt, and grow, no matter what kinds of chronic stresses and acute shocks they experience

Resilient to What?

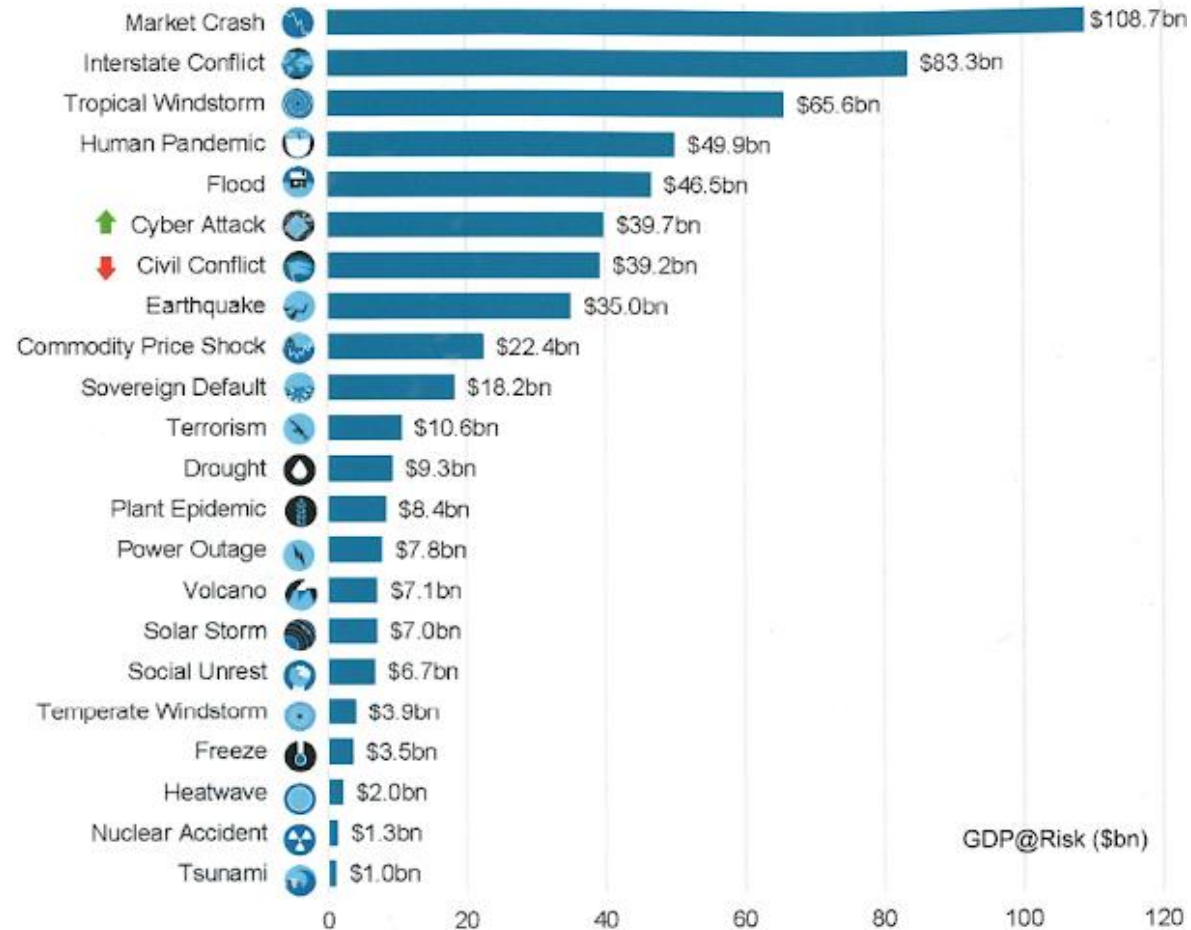
- Shocks are typically considered single event disasters, such as fires, earthquakes, and floods.
- Stresses are factors that pressure a city on a daily or reoccurring basis, such as chronic food and water shortages, endemic violence or high unemployment. Also longer term future stresses as may come from climate change or migration and urbanisation

What does being resilient look like?

- City resilience is about making a city better, in both good times and bad, for the benefit of all its citizens, particularly the poor and vulnerable
- with the dividend being the ability to become stronger

The Cambridge Global Risk Index for 2019

2019 Threat Rankings



Beast from the East (2018)



Warnings?



Political Leadership

New Orleans – 2005



Sichuan - 2008



Who is affected and how?

- Geographics – clearly defined or graded
- Loss of life
- Bereaved
- injured
- Loss of property



Who is affected and how?



- Impact on emergency services
- Loss of community structure
- Contamination
- Health effects
- Adult/children

Hurricane Maria – Puerto Rico - 2017





Manchester
Arena
Bombing –
May 2017

Sustainable Water Management - Rotterdam



Melbourne Urban Forest



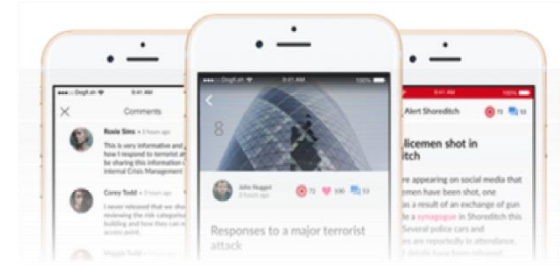
Paris
School Playground
Heatwave Programme



APPLICATION FOR RESILIENT COMMUNITIES

A scalable platform that drives behavioural change to support greater business resilience by connecting business communities and providing the ability to store, access and share guidance and best practice through a single application.

Licence cost - £20 per month per user



Library

- A database of best practice and guidance which can be accessed by communities
- Multiple categories to cover a variety of threats that have the potential to impact a community



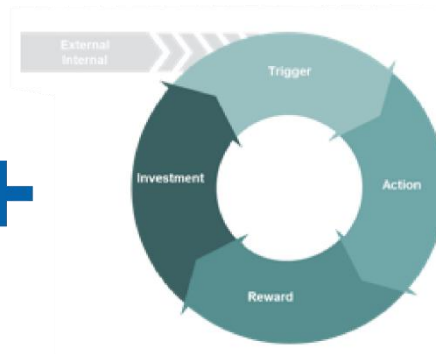
Connected

- A platform for users to share and discuss best practice and guidance
- Communities overlap to enable effective sharing of information
- Database self validated by members to grow and enhance content



Behavioural Change

- Innovative technology designed to assist users in adopting resilient activities
- Optimised flows to allow users to easily access relevant information



Monitor

- Establish a baseline of current behaviours
- Use data to drive decision making and focus efforts
- Monitor progress to show success



Cyber Resilience



- Cyber security now judged to be one of the four biggest risks to UK industry
- Particularly at risk – banks, hospitals, retailers, universities, transportation, media, manufacturing
- Cyber attack and data theft biggest risks
- Atlanta in US – March 2018 – ransomware attack – more than a 3rd of applications went offline. Incident response and recovery cost over \$8M