

**Resilience  
Risk  
Reward**

**April 27-28  
Philadelphia**

# **Global Phase Change: Pervasive Interconnectedness**

**Global networked relationships**

**Small effects propagate and multiply**

**High leverage**

**Diffuse control**

**Unknown relationships**

**Unanticipated events**

**Smart actors motivated to disrupt**

# **Themes: from reliability to resilience**

**Diffuse responsibility**

**Coordination under difficult conditions**

**Containment**

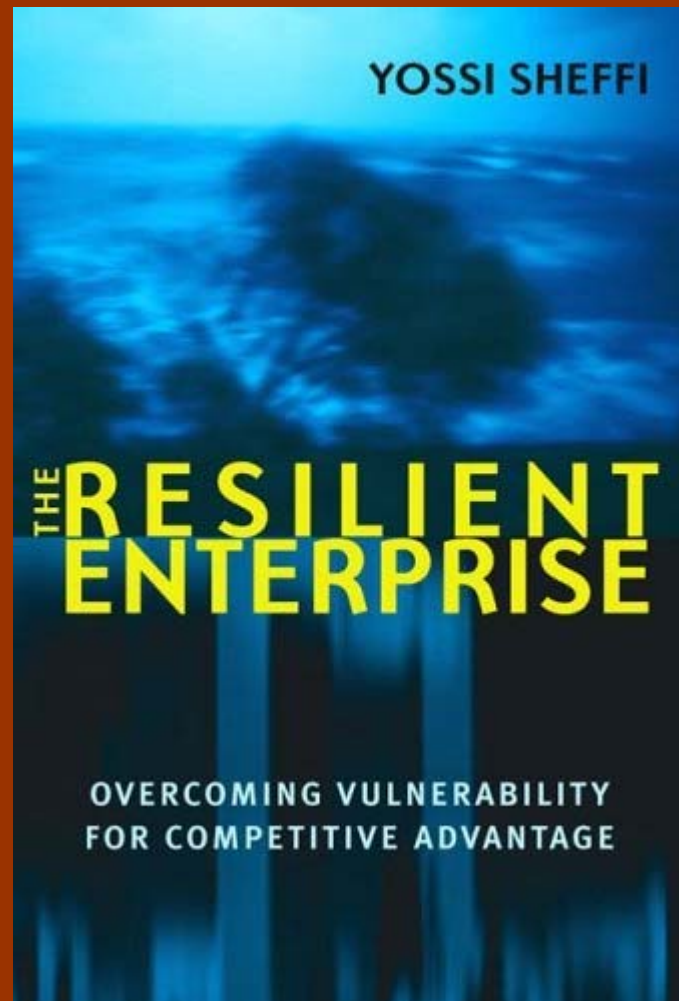
**Networked response – damping the bad, amplifying the good**

**Evolving new responses**

# **Resilient enterprises**

**Competitive gain from  
competitor pain**

# Yossi Sheffi - MIT



# **Infrastructure under stress**

**Clark Gellings**  
**Electric Power**  
**Research Institute**

**Disruption-  
tolerant  
communications  
networks**

**Vint Cerf - Google**

**Scott Burleigh - JPL**

# Planet-scale distributed systems

# Larry Peterson - PlanetLab

**Reducing  
vulnerabilities to  
natural, industrial,  
and terrorist  
disasters**

**Charles Perrow**  
**Yale University**



**Emergency  
communications  
and disaster  
planning**

# **Art Botterell**

**30 years experience in  
emergency  
communications and  
planning**

# **Resilient interoperable networks**

**Paul Evans**  
**SharedBand, Ltd.**

**Perfect  
power?**

**Kurt Yeager  
Galvin Electricity  
Initiative**

**Engineering  
“liquid” phase  
vs. “solid” phase  
systems**

**David P. Reed**  
**MIT Media Lab**  
**and HP Labs**

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