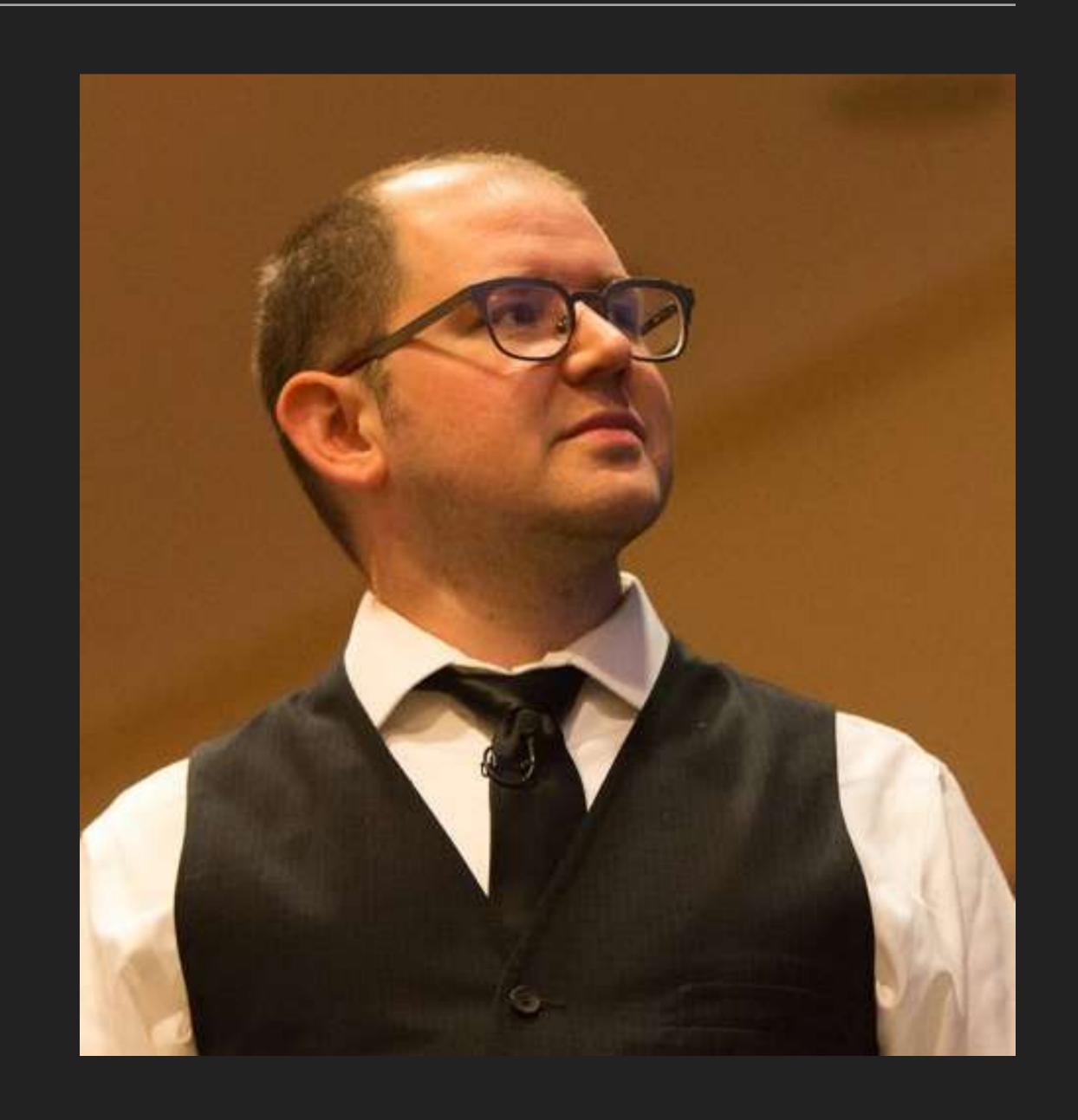
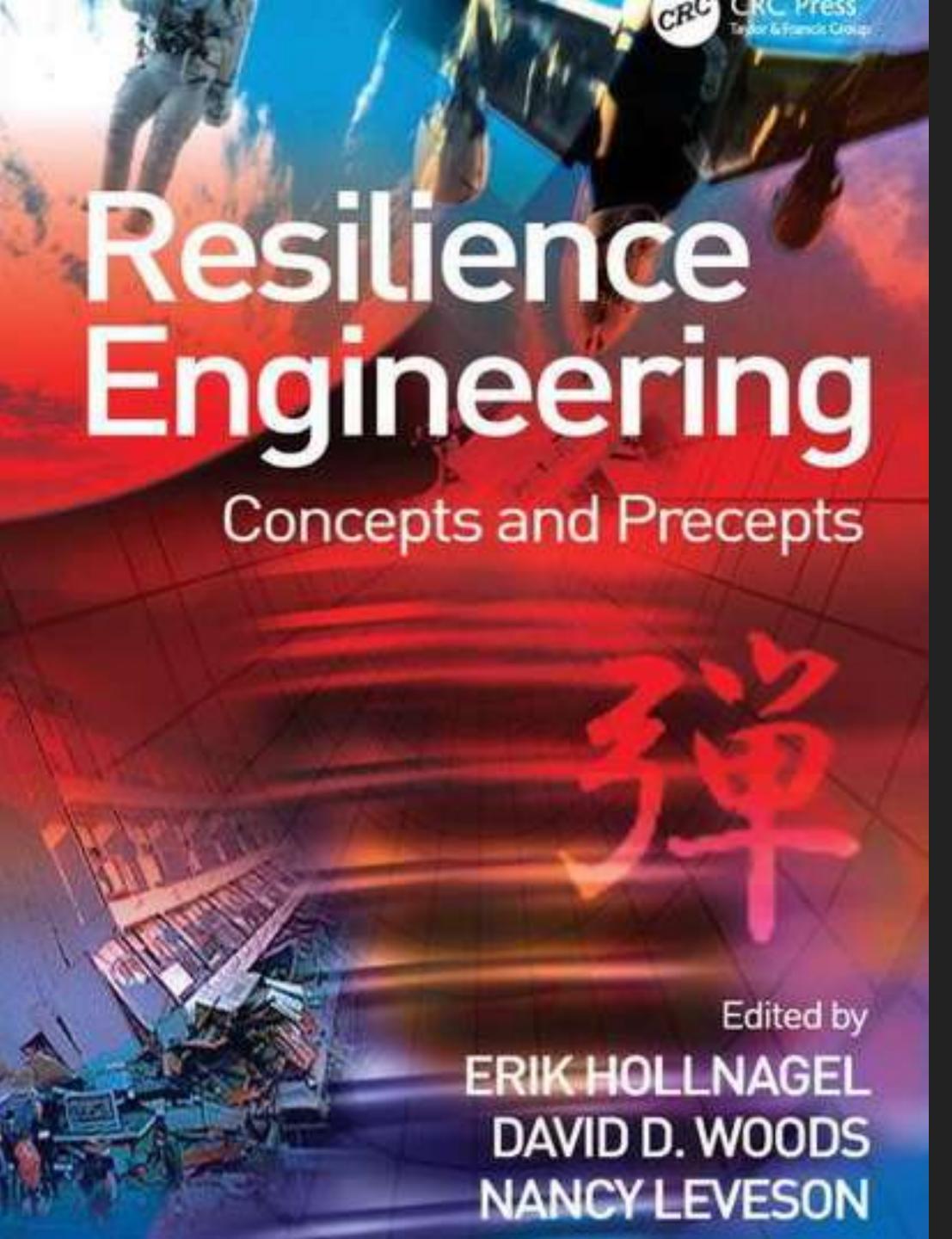


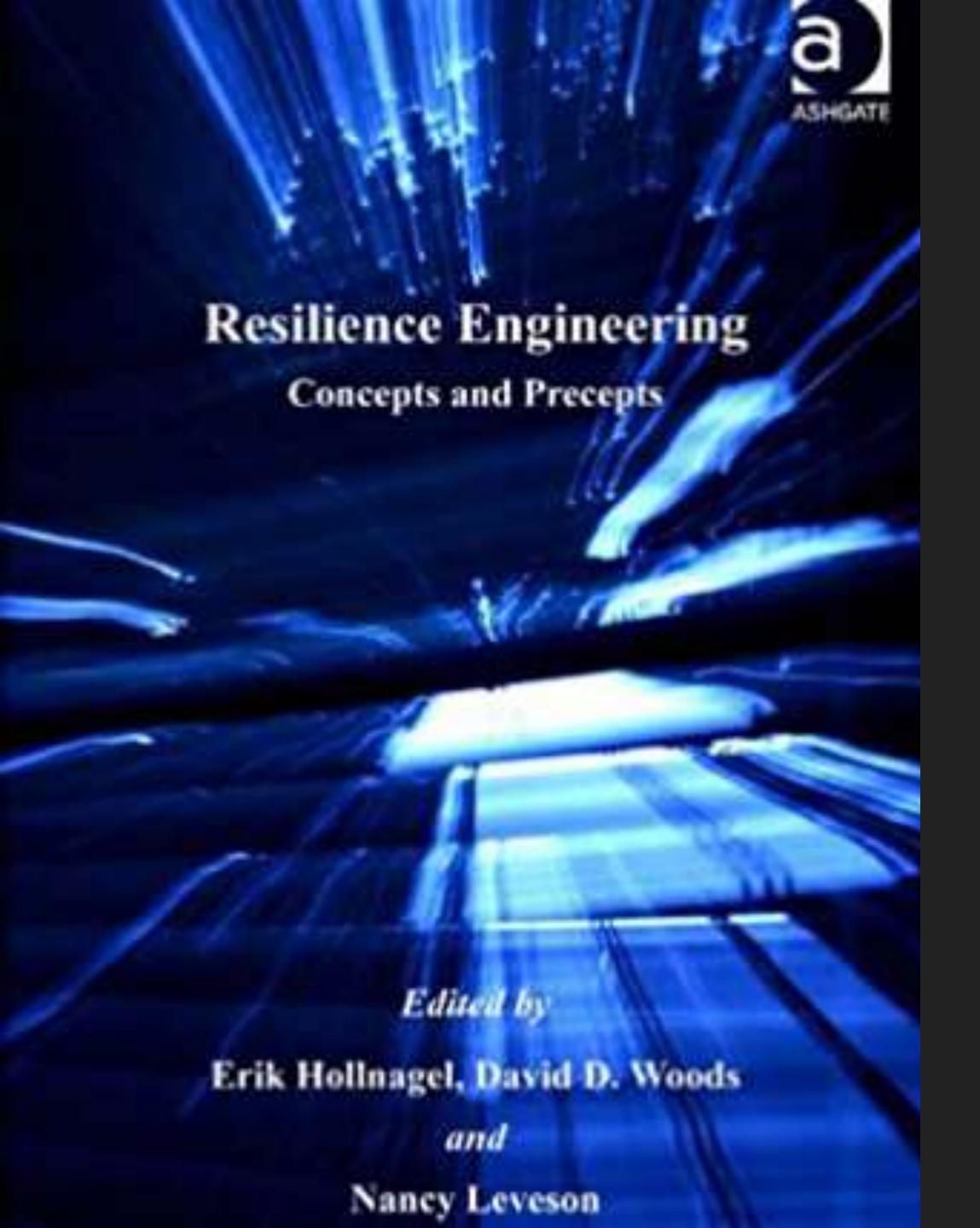
J. PAUL REED

- @jpaulreed on
- ▶ Alumn of The Ship Show
- ▶ 20 Years in Build / Release Engineering
- ▶ Senior Applied Resilience Engineer on Netflix's
 - Critical
 - Operations &
 - Reliability
 - **Engineering team**
- MSc, Human Factors and Systems Safety: jpaulreed.com/thesis





"RESILIENCE" "ENGINEERING?"



"RESILIENCE" "ENGINEERING?"

E_TOOMANY_Rs Robustness Reliability Resilience

Resiliency

Rebound

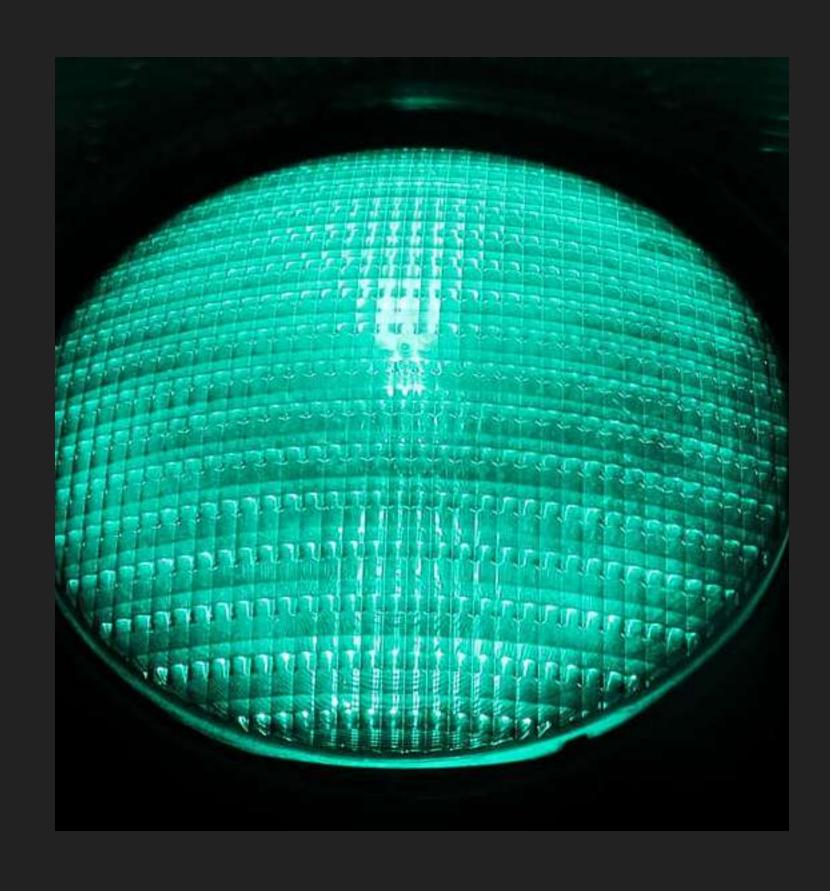
E TOOMANY_Rs Robustness Reliability Resilience

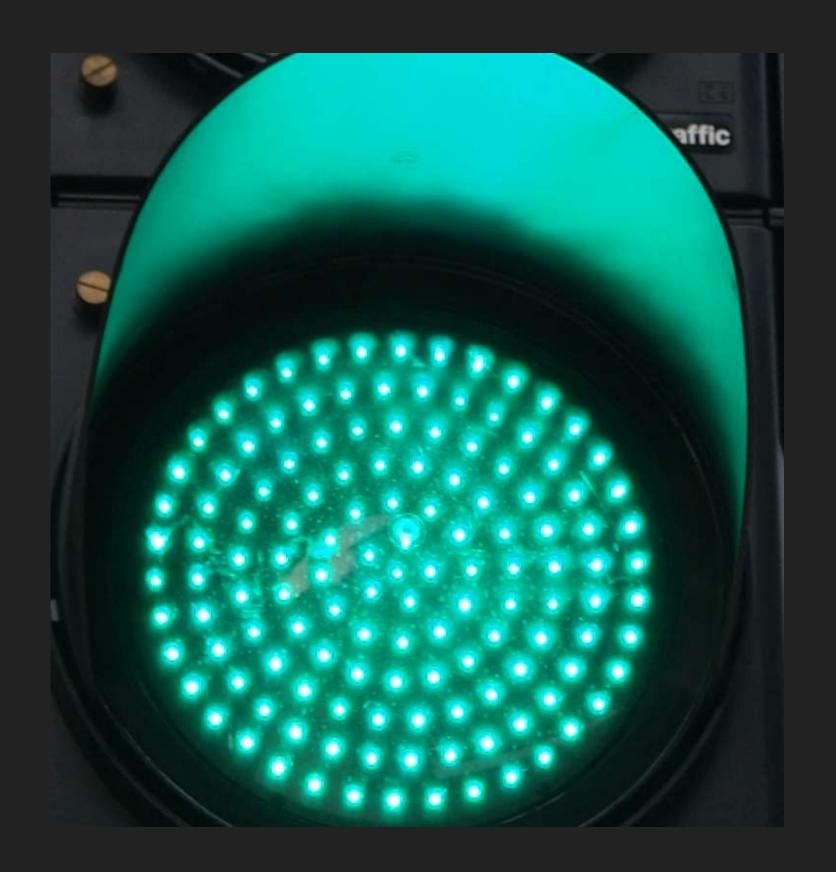


Rebound



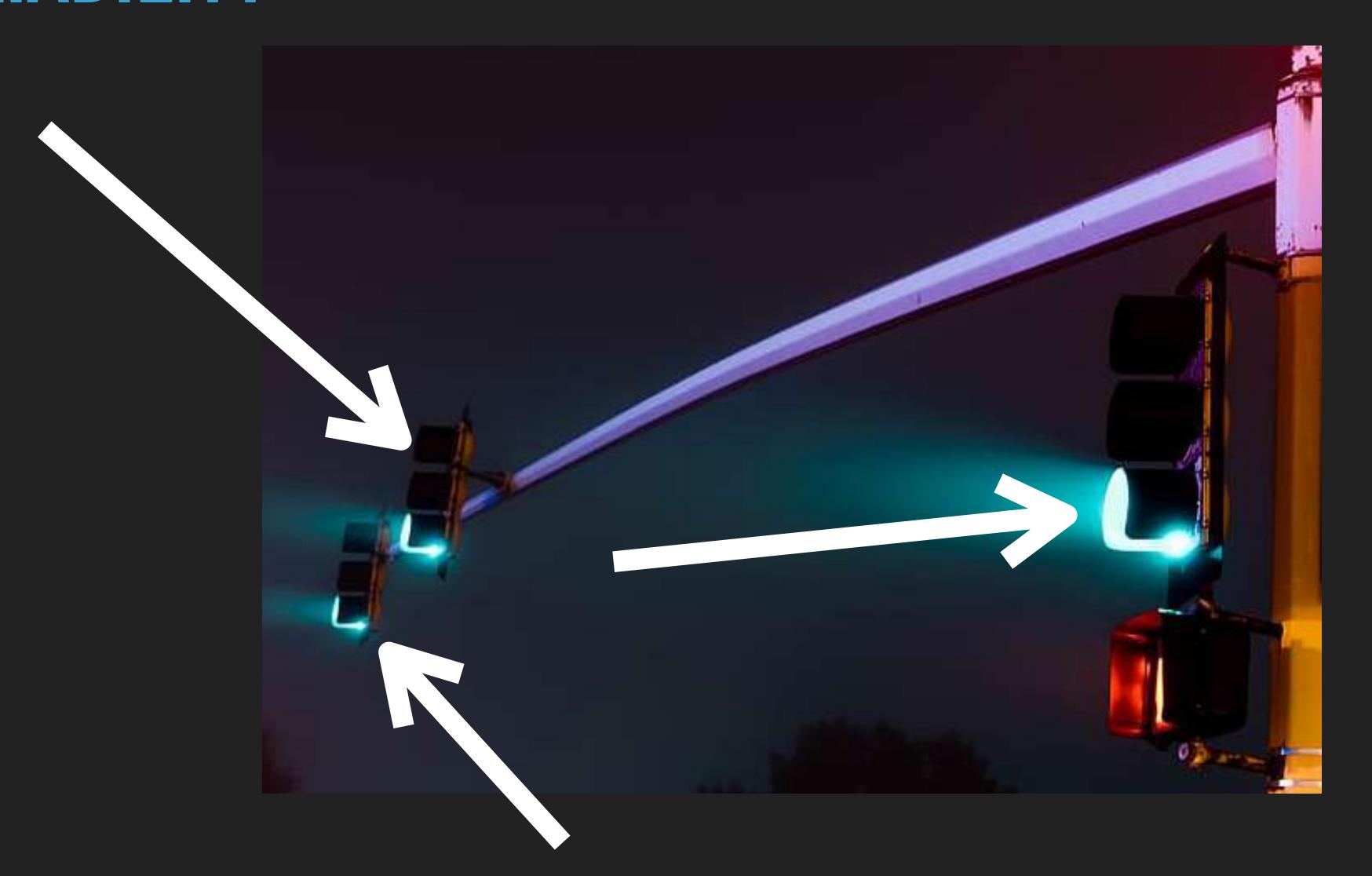
"ROBUSTNESS"



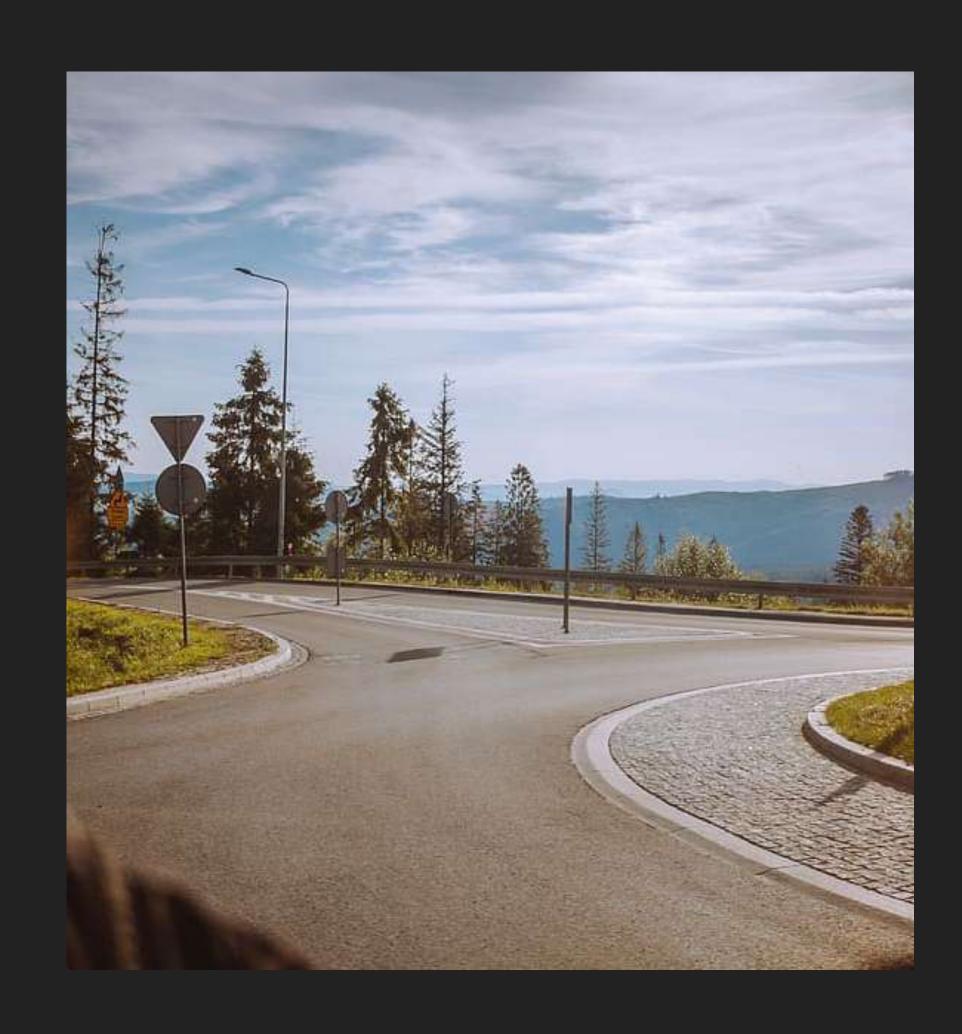


Incandescent versus LED Lights

"RELIABILITY"



"REBOUND"



VS.



"RESILIENCE"



"For the last 45 minutes, this man has kept [this New York City] intersection alive."

"RESILIENCE"



RESILIENCE ISN'T SOMETHING YOU HAVE, IT'S SOMETHING YOU DO.

Dr. David Woods*

BEWARE THE IDES OF MARCH...

San Francisco Chronicle

Coronavirus order: Gov. Gavin Newsom tells Californians to stay at home

Alexei Koseff and Erin Allday | March 19, 2020 | Updated: March 19, 2020 9:28 p.m.

The New York Times

One in Five Americans Ordered to Stay Home in Coronavirus Crackdown

Strict new directives in New York, California, Illinois and other states were intended to slow the spread of the coronavirus.



Coronavirus impact: How the COVID-19 shut down the sports world in just 43 hours

...TO



ery worker riding down Nostrand Avenue in Brooklyn on Friday. Demetrius Freeman for The New York Times

ADAPTIVE CAPACITY

- How unique are the interventions?
- How small can they be and still maintain effectiveness?
- How quickly can we modify them?
- Are there appropriate signaling mechanisms in place?





ADAPTIVE CAPACITY MARATHON, NOT ADAPTIVE CAPACITY RACE



BARAQUE D NIVEAU 1.2 & 3

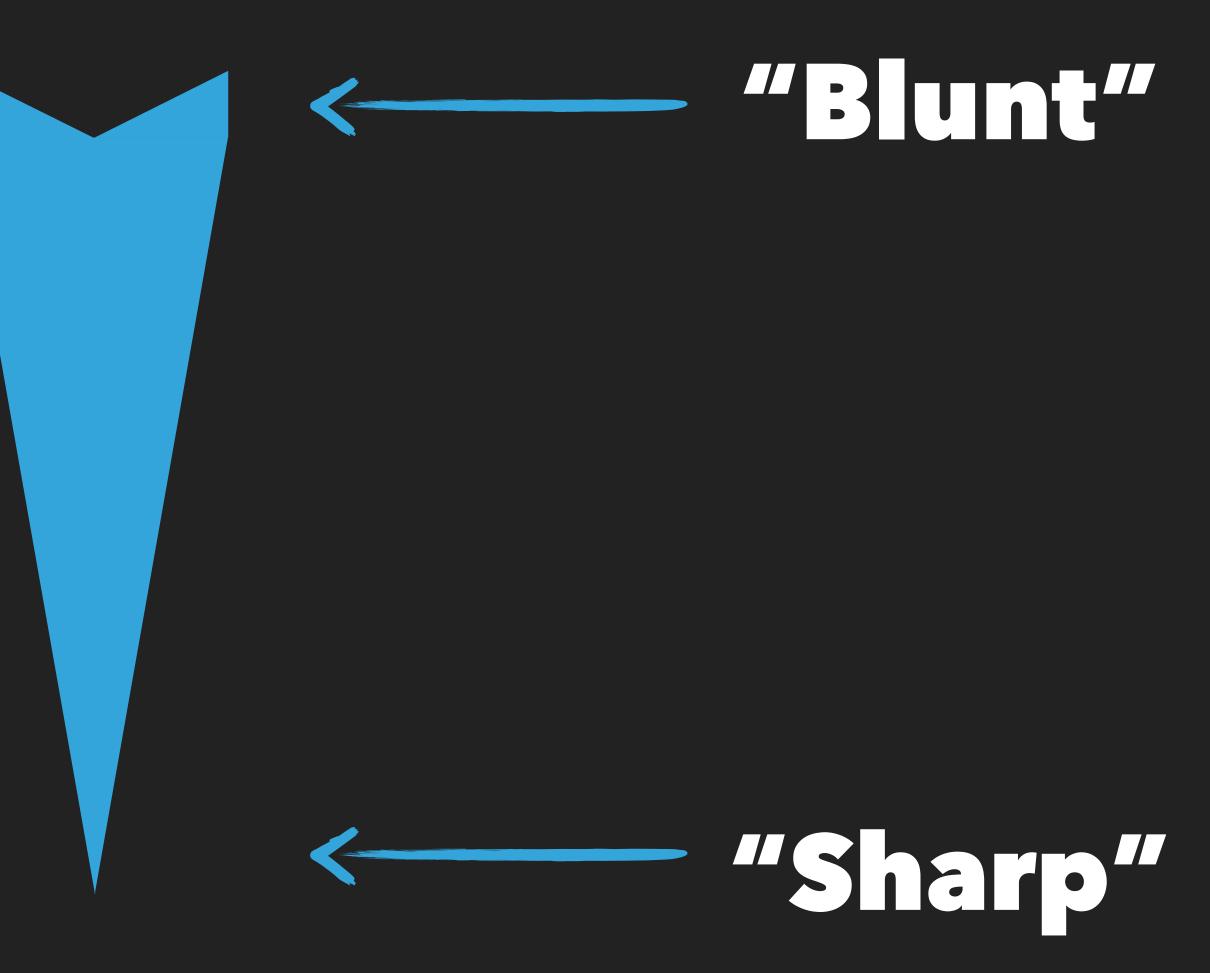


AN INTERESTING QUESTION

During this once-in-a-century global pandemic, do you stop deploying?

ASKING THE WRONG QUESTION

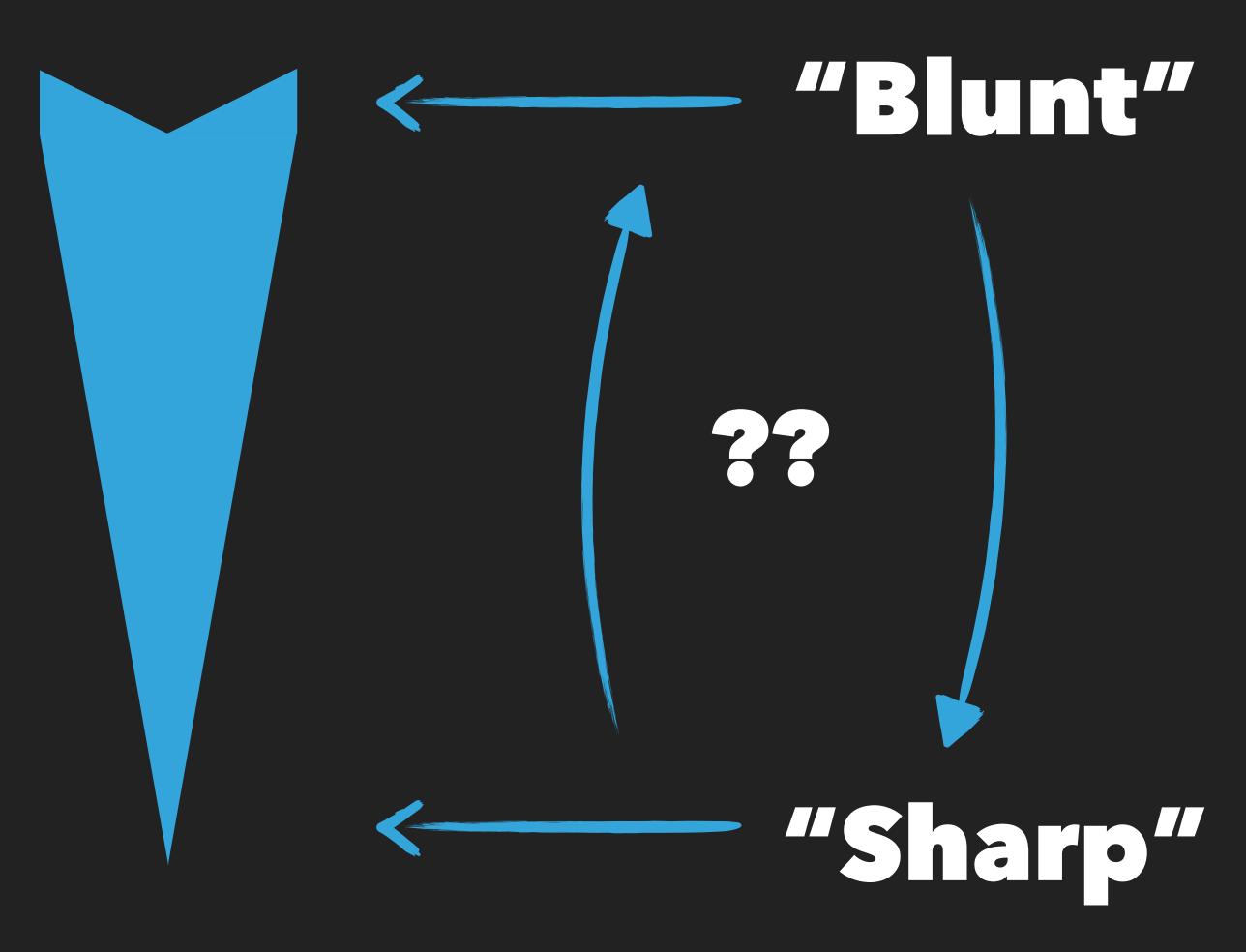
"Ends"
of the
Socio-technical
System



ASKING THE WRONG QUESTION

- Where is the idea coming from?

- Where is pressure being applied?



SO WHAT NOW?

COPING WITH COGNITIVE LOAD IMPACT

- Shed load
- Trade off thoroughness in each task
- Shift work in time
- Recruit more resources

COPING WITH TEAM IMPACT: "COMMON GROUND"

- Basic Compact
- Goal Alignment and Commitment
- Interpredictability
- Sustain and Repair

ONE MORE THING...

