The Living City

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city as rain forest

- biodiversity
- complexity
- esynergy

the great fires

- Chicago
- London
- Edo / Tokyo

how we beat fire

- changed behavior
- building better
- public fire brigades
- building codes

fire took systems level changes

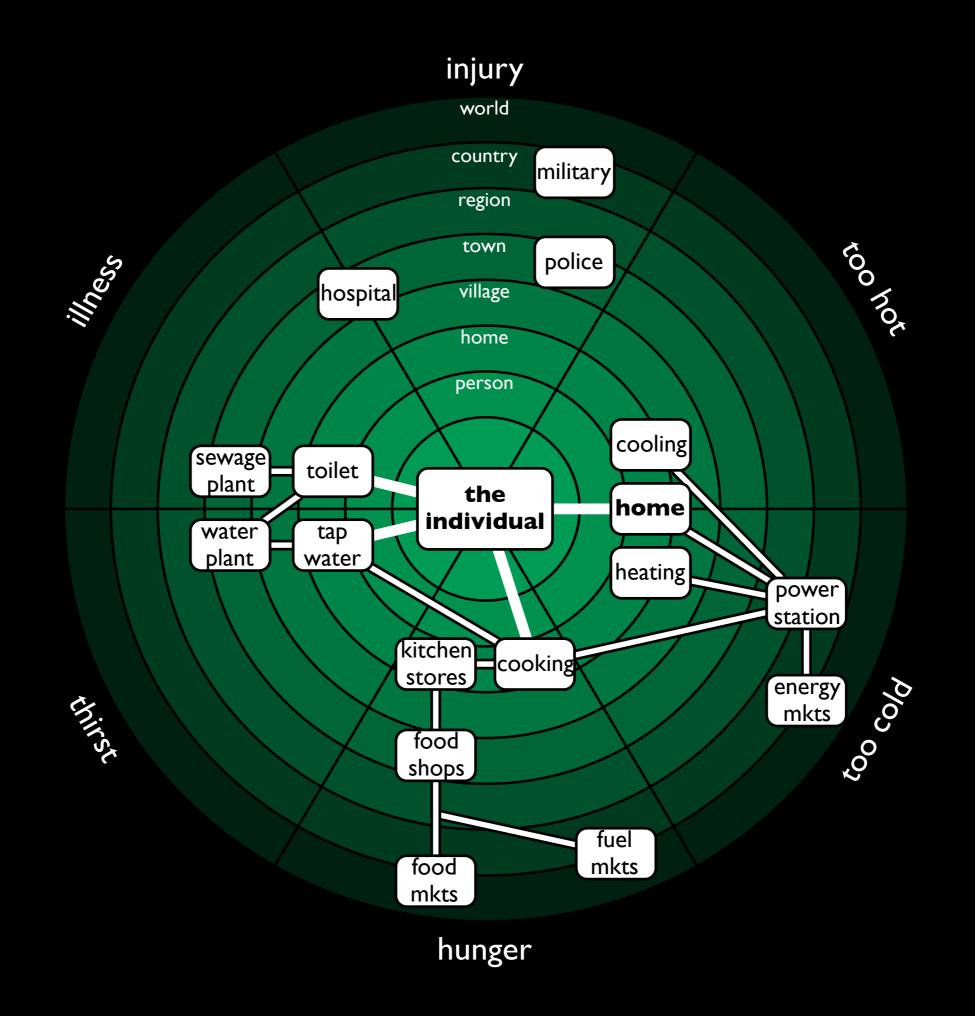
- individual, group, organization, state
- eall buildings / code
- brigades / business

risks: new, point and systemic

- climate: new and systemic
- earthquakes: point
- pandemic: systemic

defining risks

- esix ways to die
 - hot, cold, hunger, thirst, illness, injury
- economic risk
- population leaves



scenario one pandemic

- OHINI 2009 / 1918
- enot if but when
- quarantine / supply chains

the unexpected

- how do you move supplies?
- what about food?
- what about insulin?

http://diabetes.niddk.nih.gov/dm/pubs/America/pdf/chapter3.pdf

six ways to die revisited

- flu hits people and supply chains
- interdependencies are the hardest part

mitigating risks

- estockpile / backup
- plan to do without
- otraining
- change systems

who handles risks?

- FEMA, CDC, FDA, EPA do their risks
- local responders
- including citizens!

rational response is cross-level

- individual, group, organization, state
- good individual choices help a lot

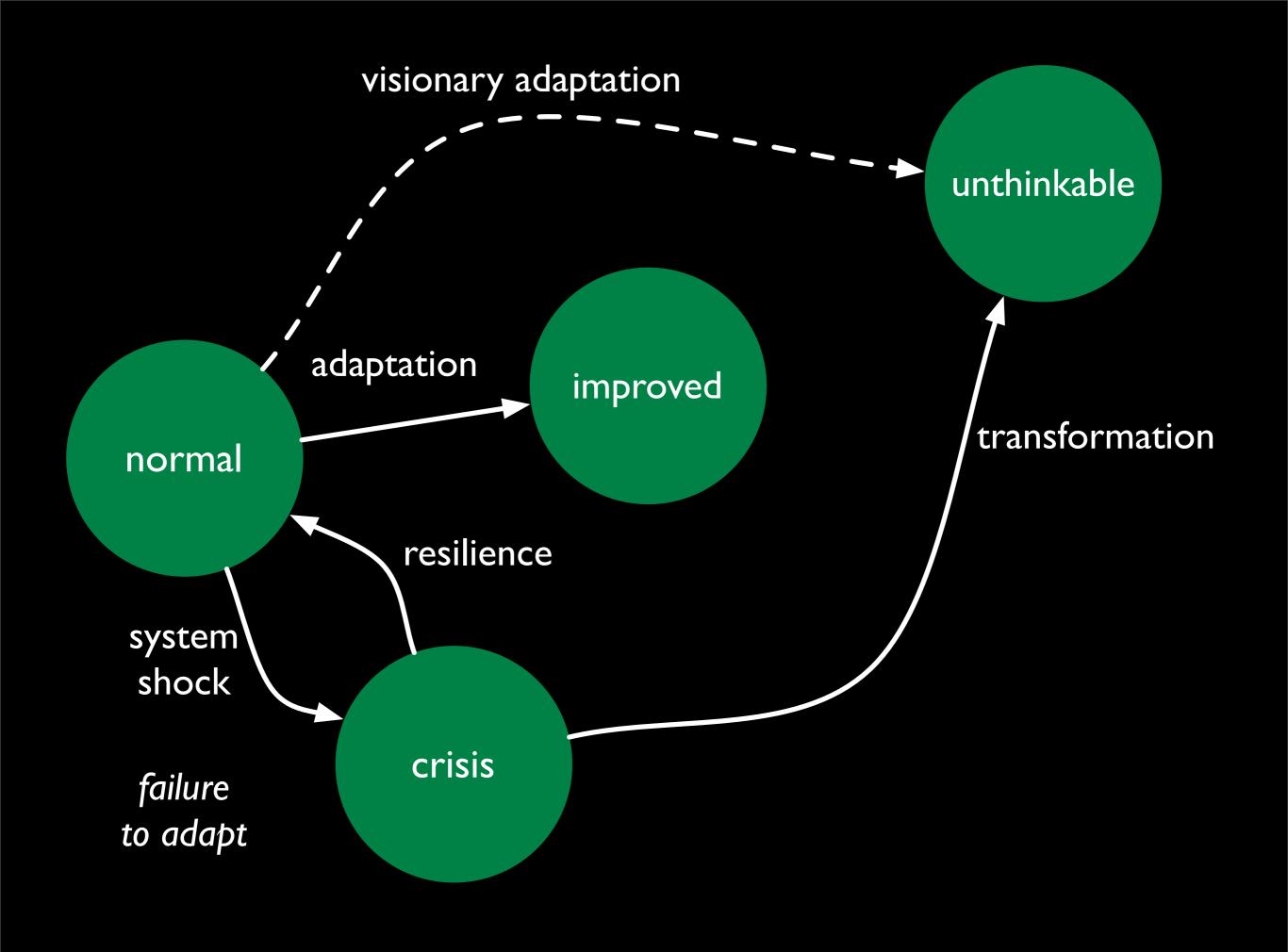
scenario two cold katrina

- Ofragile grid "brittle power" http://www.natcapsolutions.org/publications_files/brittlepower.htm
- Oterrorist engineers 2006/20Jihad.pdf

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- prolonged winter grid failure

beyond resilience

- o CK requires change
- Change our models
- Ounmake the risk
 - not just hardening



how the mind understands risk

- probability/impact
- risk estimation
- Complex scenarios
- OUNDER REACTION

change the system one brick at a time

- everything changes
 - Olike beating fire
- buildings and cars
- we make, they buy

imagine if we had not fixed fire

- 06.5 bn, half urban
- the environment is like fire once was
- policy backs tech

it is an engineer's future

- we made this mess
 - buildings and cars
- eand now we fix it

recommendations

- investigate systems transformation
- Oresilience now! plans
- opilot project: Arup?

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