





Faculty Director, Stanford Design Foresight next-Gen Design Thinking in the Center for Design Research (with Larry Leifer)

— Stanford d.school



d.global — blended learning in the way of design —Stanford Continuing Studies

Program in Urban Studies Program in Science Technology Society Program in Writing and Rhetoric

JANUS Initiative -— looking back that we might be better prepared for uncertain futures — Business Archaeology

Michael Shanks



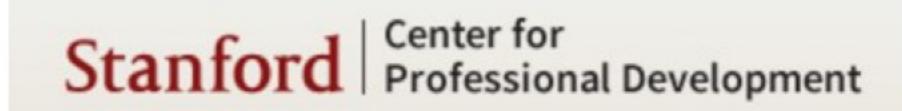
























































a design archaeologist working with organizations and businesses

this is so much more than a virus

we have always lived with other species, and in communities that include things for better, for worse

complex human ecologies — connections

social distancing, control and regulation of movement and gathering in a world of insecurity and doubt

is this a "new normal"?

what we are experiencing is not new

there is actually no "post-COVID"!

this is human experience

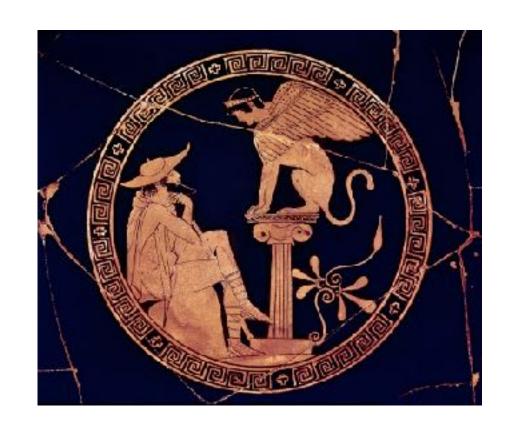
the limitations of short-term thinking the irony of human centered design — the human experience is so much more than a person's lifespan and memories

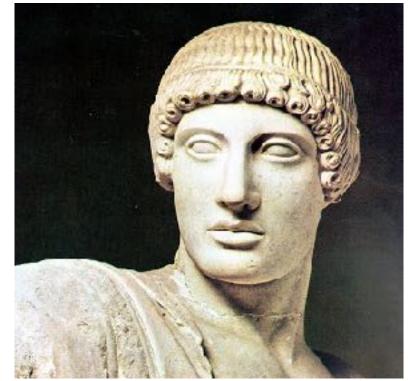
what many of us are experiencing for the first time is the normal in human history

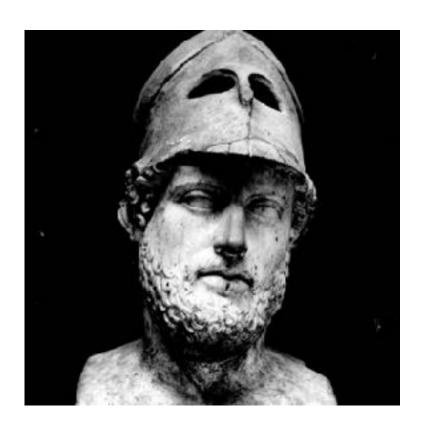
Oedipus — thought he knew best and had the answers

Agamemnon and Achilles, and Apollo — autocrats, arrogance and matters of who is in charge

Pericles — 5th century Classical Athens — matters of leadership and the people







three ancient stories of epidemic

what many of us are experiencing for the first time is the normal in human history

navigating COMPLEXITY and uncertainty insecurity and who to trust

the limitations of reducing the world to rational deterministic causal relationships

uncertainty and ambiguity are features of complexity, not problems!

the virus is the norm!

complexity



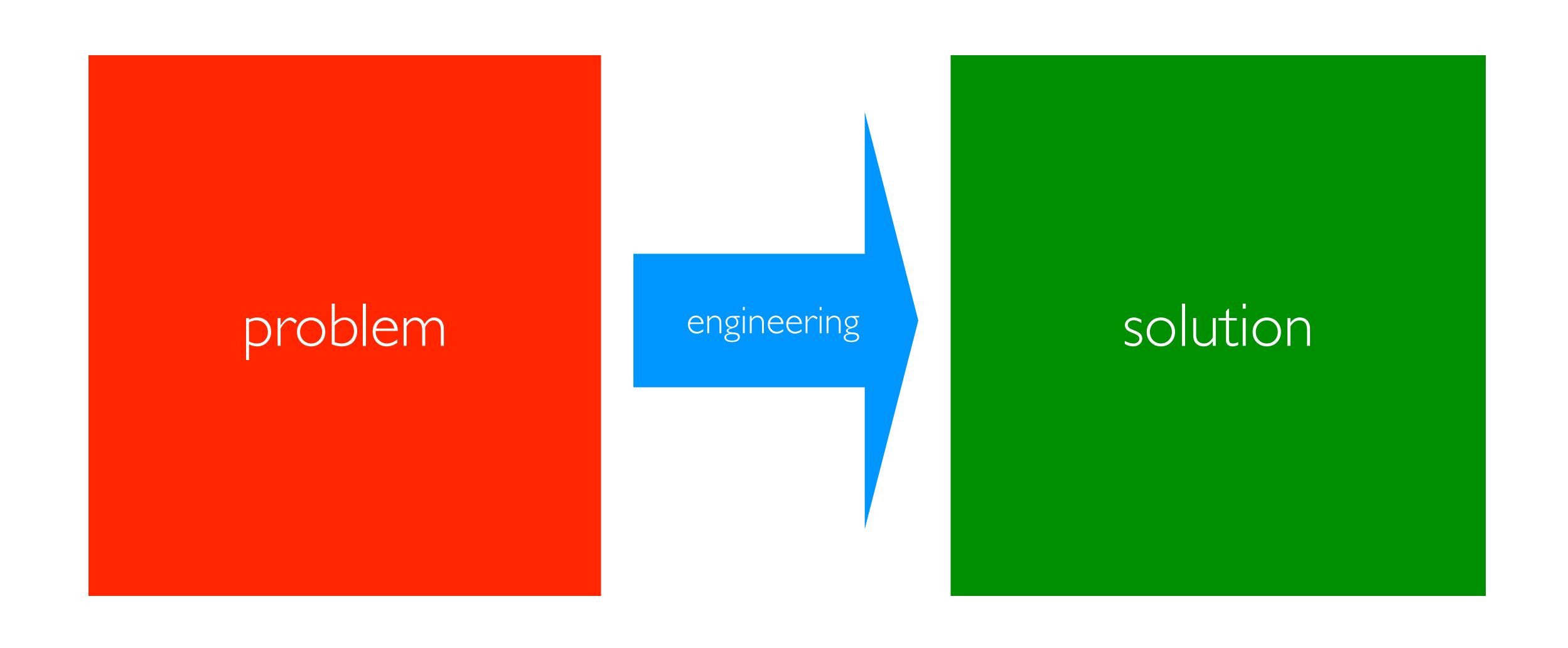
the Segway

how not to understand complexity



the Segway

the result of a problem-solution mindset
— a failure to understand complexity



commuter Segway engineering frustration



what's the attitude to the future in this problem-solution mindset?

can we fix it? — yes we can!

the world treated as a series of problems for which fixes/solutions may be engineered

through data capture, information analysis, rationalization, parsing of behavior, application of algorithms

involving transparency (sensors everywhere monitoring/mediating everything), quantification, optimization, elimination of ambiguity

a problem-solution mindset

security/insecurity and perceiving/assessing risk

finding trustworthy information and people

establishing effective collaboration (families, networks, corporations, states)

mobility and reach, migrations and territories, local/global scaling

human experience
— long-term insights into our current crisis

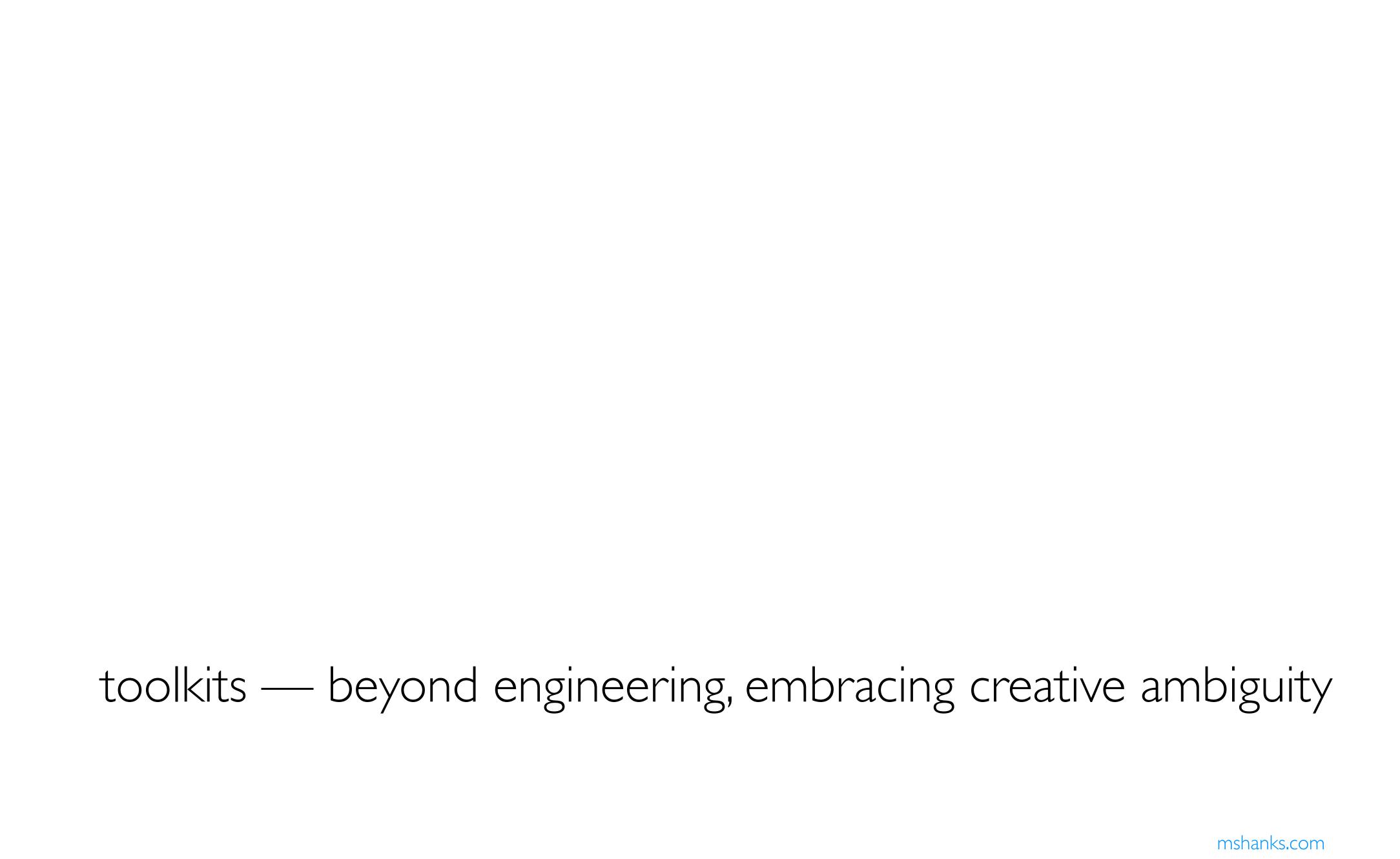
embrace ambiguity, complexity, uncertainty

all predictions will fail

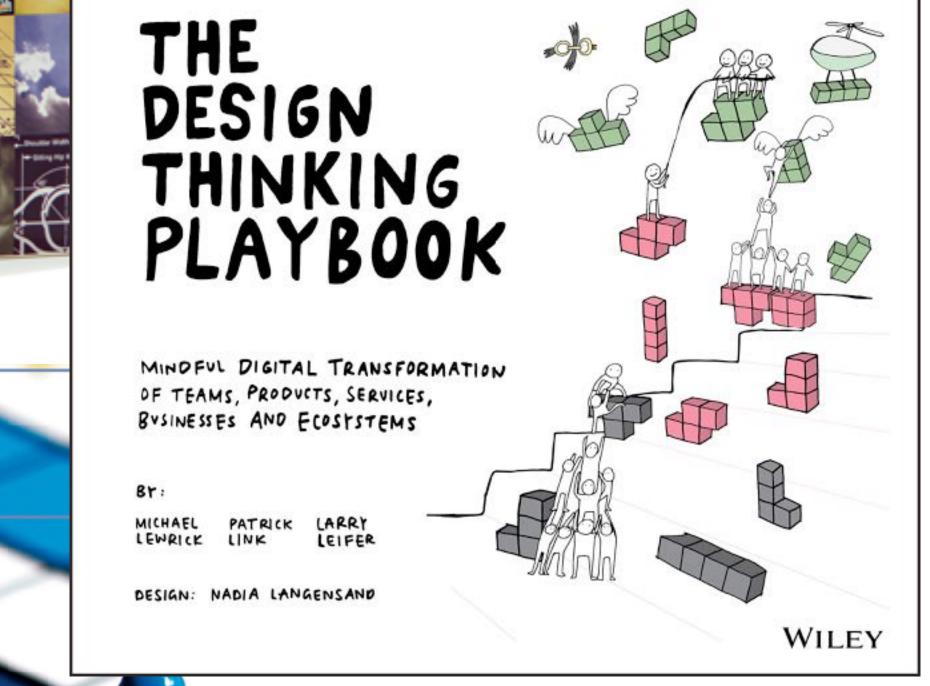
we need an imagination toolkit for future world building

creative pragmatics

a future building toolkit centered on open exploration of matters that may actually never be defined







creative pragmatics
— action oriented

PLAYBOOK
FOR STRATEGIC
FORESIGHT AND
INNOVATION

A hands-on guide for modeling,
designing, and leading your
company's next radical innovation

good news — we have the toolkits

METHOD SHORTCUTS

PERSPECTIVE	OPPORTUNITY	SOLUTION	TEAM	VISION
		0		$\stackrel{\longrightarrow}{\longrightarrow}$
Context Map → page 61	Generational Arcs → page 94	White Spots → page 127	Buddy Checks → page 168	Vision Statement → page 203
Progression Curves → page 70	Future User → page 103	Paper Mockups → page 136	VOICE Stars → page 178	DARPA Hard Test → page 213
	[35/3a)	***	E S 3	
Janus Cones → page 81	Futuretelling → page 114	Change Paths → page 149	Crowd Clovers → page 188	Pathfinders → page 230

reframe

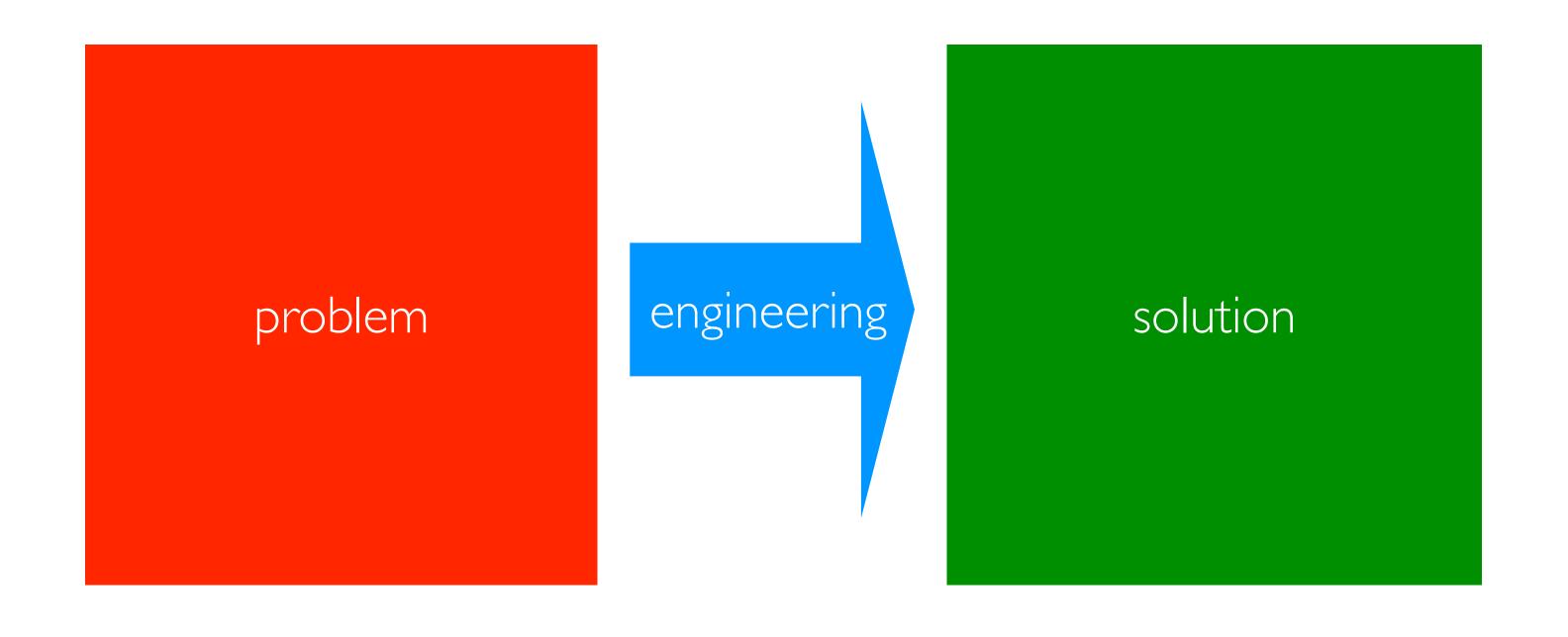
explore play experiment

iterate

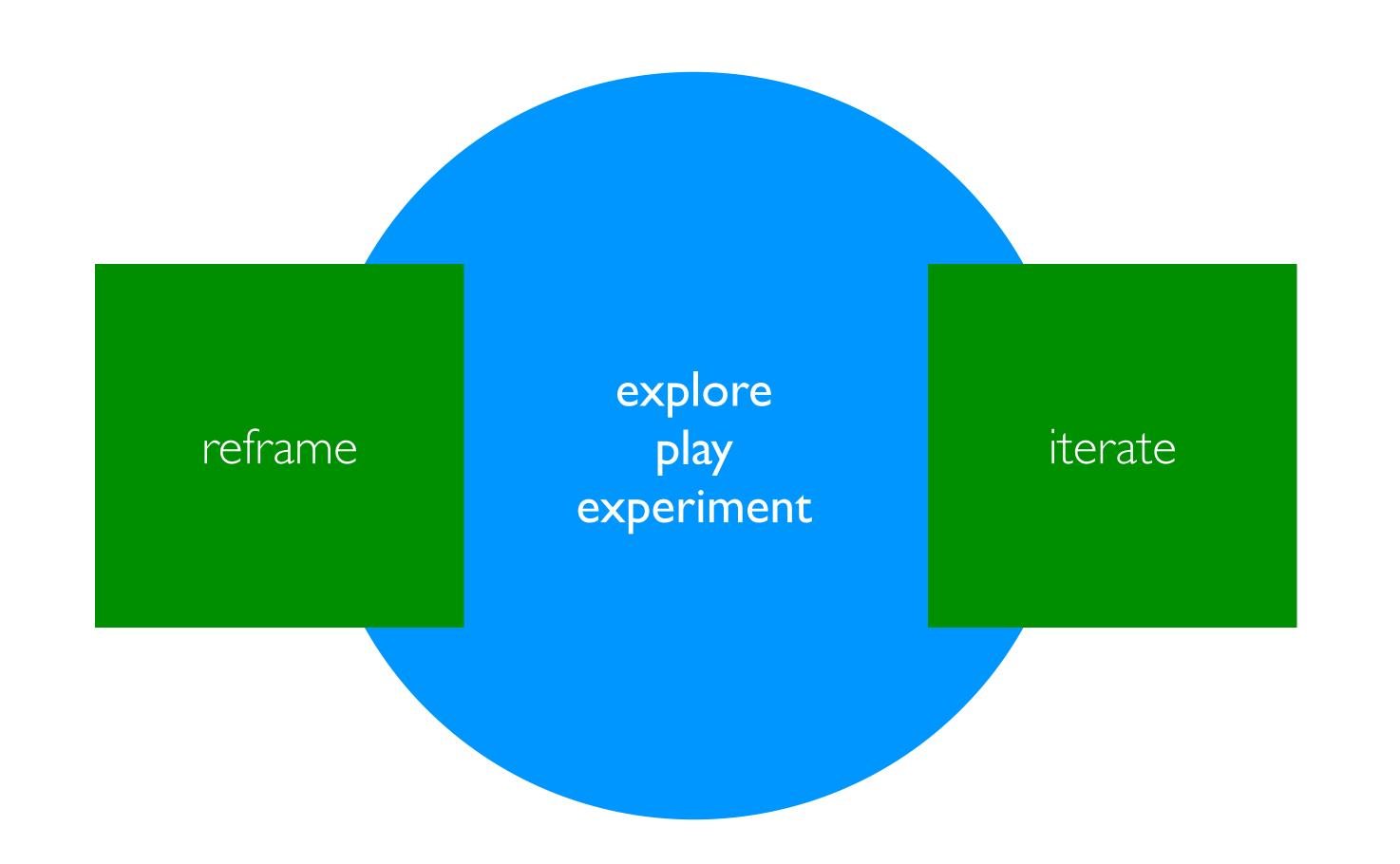
reframe — it's not about a virus

what are the lessons?

complexity and the failure of traditional (project) management



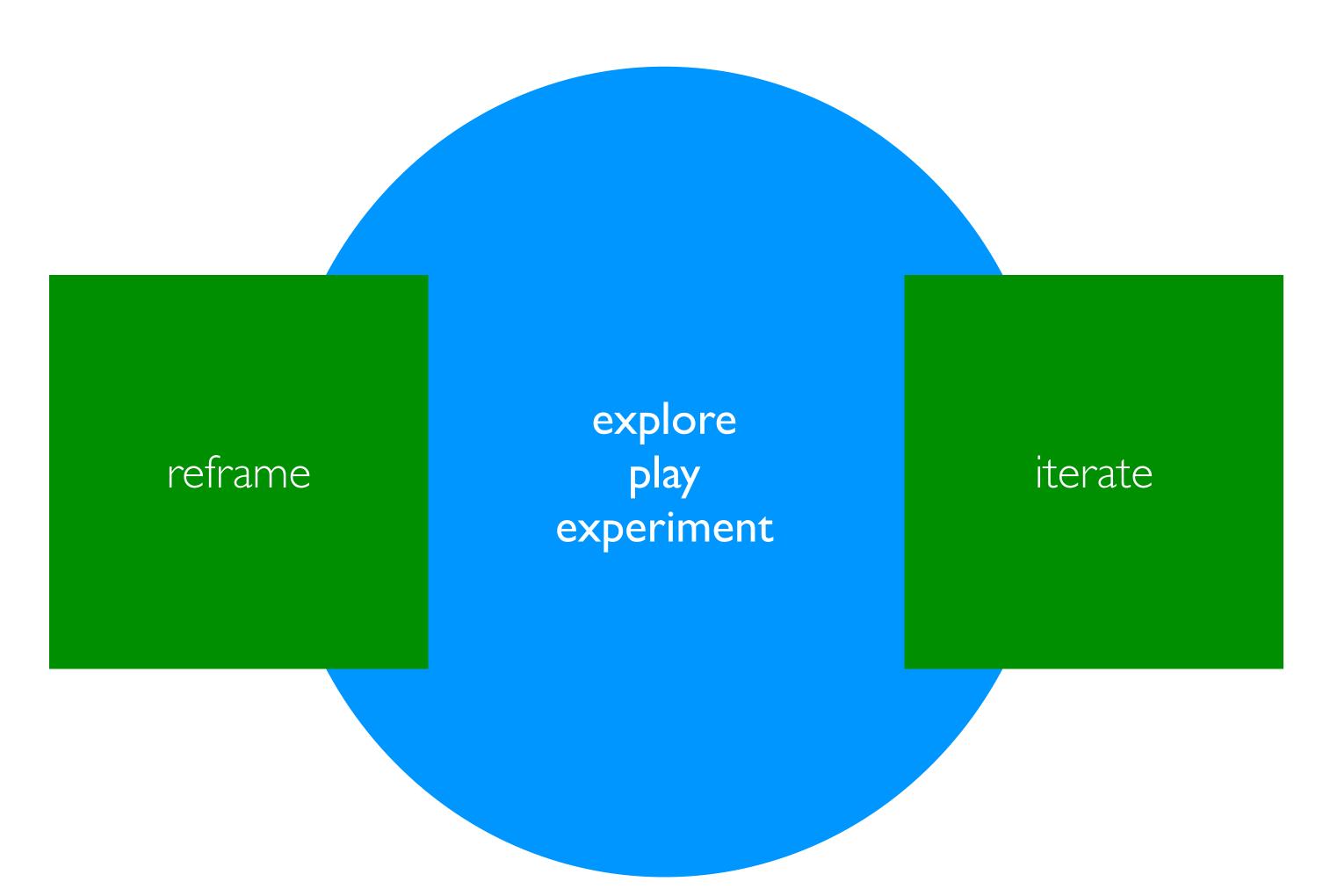
the limitations of a problem-solution mindset



iterative exploration and constant learning

research counts — and it's not just about numbers

agility — all courses of action are local and provisional



this is creative pragmatics

creative pragmatics

go out, research, explore, ideate, build, test and do it again and again!