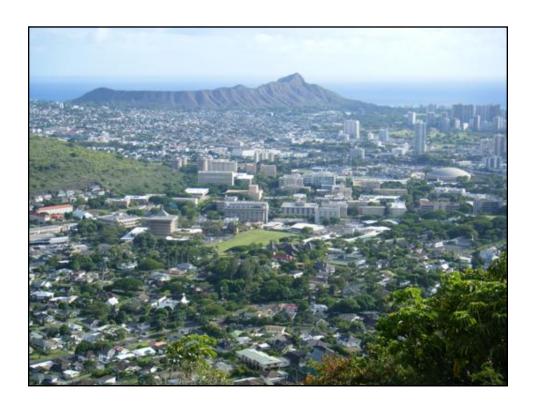
FELT FUTURES

Stuart Candy, PhD
Director, Situation Lab
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July 2nd, 02018
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"For me, futures studies are basically a game of dissenting visions. They are an attempt to widen human choices, by reconceptualising political, social and cultural ends; by identifying emerging or previously ignored social pathologies that have to be understood, contained or transcended; by linking up the fates of different polities and societies through envisioning their common fears and hopes."

Ashis Nandy, 'Bearing Witness to the Future'

The inner game of dissenting visions

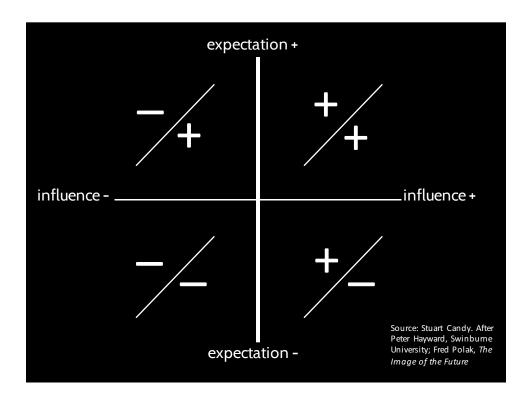
Three Acts:

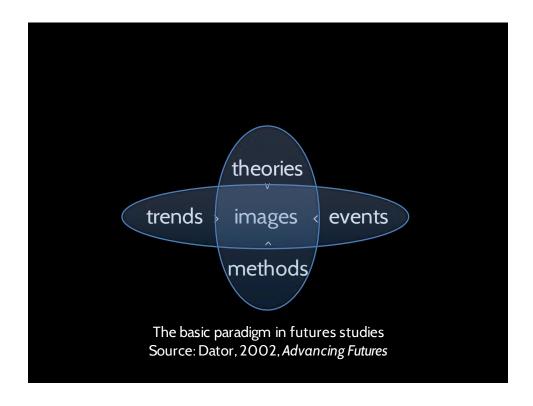
- 1. Where Do You Stand?
- 2. Three Dimensions of Foresight
- 3. The Thing From The Future

Act 1 Where Do You Stand?

A physical game to highlight our images of the future: The Polak Game, aka Where Do You Stand?

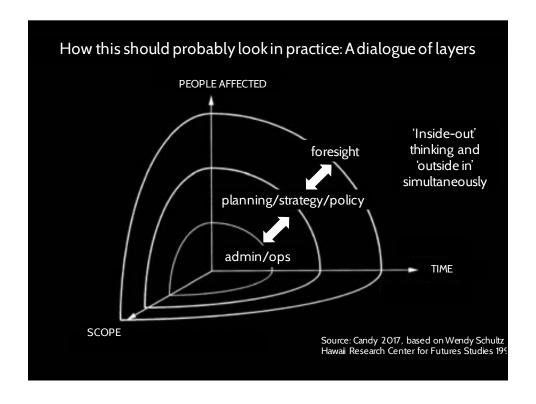
More info: Hayward & Candy 2017, https://www.researchgate.net/publication/322144099_The_Polak_Game_or_Where_do_you_stand







Act 2
Three Dimensions of Foresight



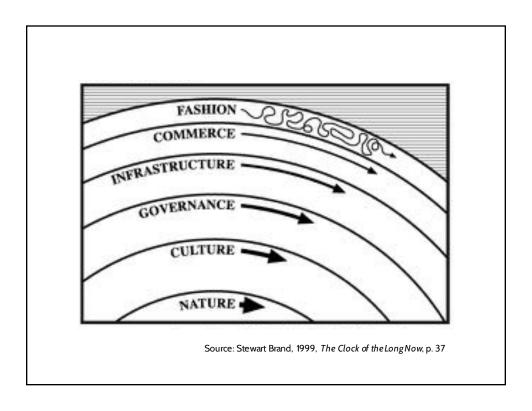
Taking the future context into account properly requires grappling with three dimensions of foresight

Three Dimensions of Foresight

1. Difference

The first dimension is addressing that the future context is not the same as the present context.

Everything that exists once did not. Everything that currently exists one day will no longer.





Example: Spreading org-wide Arup Drivers of Change 2006-present



STEEP

Social
Technological
Economic
Environmental
Political

Example: Dipping a toe in UK OST Pilot Horizon Scan A 2004/05

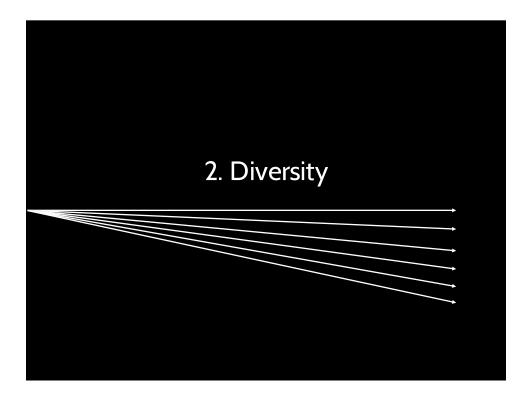


"A broad (STEEP) horizon scan and application of that scan to key infrastructure including communications, transport and utilities." Scanning (which has different forms) is a family of ways of dealing with dimension one: Difference

Scanning is also of course not an end in itself, but part of a broader foresight process

First dimension: Difference the future is another place

Takeaway: It's important to ask how the future context might be different from the present, and to make a habit of tracking change in different aspects of the system

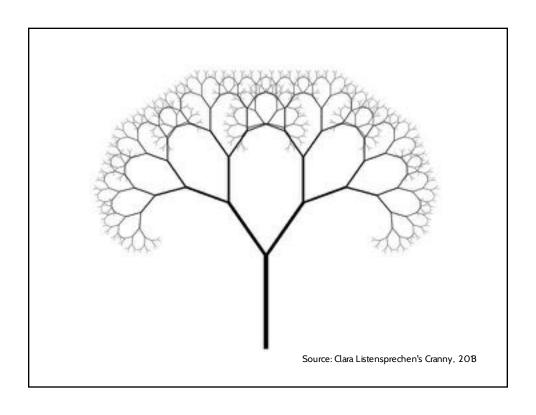


Any *single* image of the future, no matter how compelling, is *incomplete*.

The linear conception of the future is a trap.

1. A parade of mistaken predictions

"History is merely a list of surprises. It can only prepare us to be surprised yet again." - Kurt Vonnegut 2. The nature and shape of change over time itself



An exclusive focus on the "probable" is virtually certain to come to grief, especially over longer timeframes

"The future" cannot be "studied" because "the future" does not exist.

- Dator's first law

Future (singular)

→ FutureS (plural)

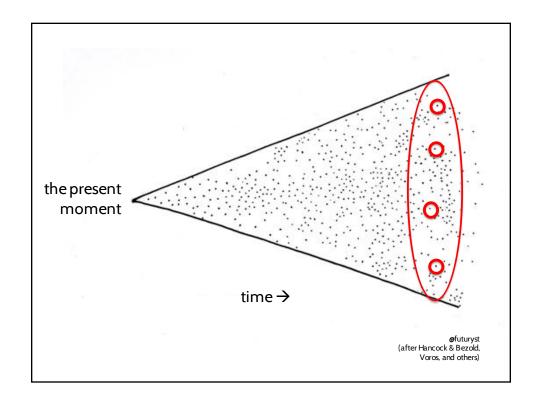
How do we get from this to something concrete enough to be useful for our work?

A scenario *set* is a sort of sample or tour of possibility space (a selection of alternative futures).

Different scenario generation techniques have different strengths and weaknesses.

Some scenario generation techniques:

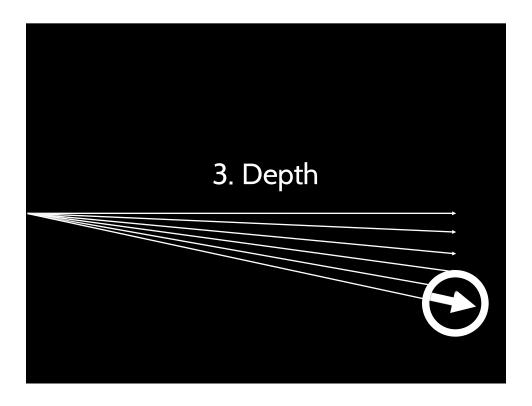
- Generic images of the future
- Branch analysis
- Critical uncertainties / 2x2
- Morphological analysis
- Causal Layered Analysis (And so on.)



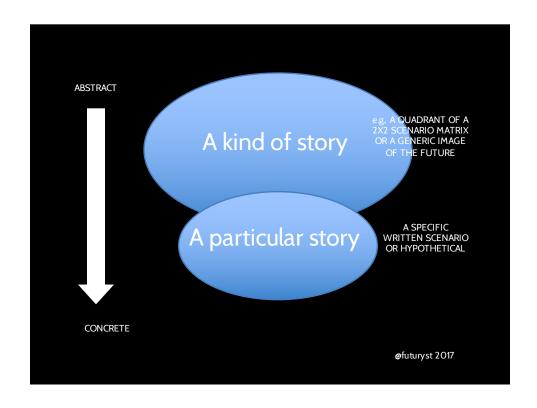
However they may be generated, all scenarios are a strategy for dealing with uncertainty, based on stories making explicit assumptions about various ways change could unfold

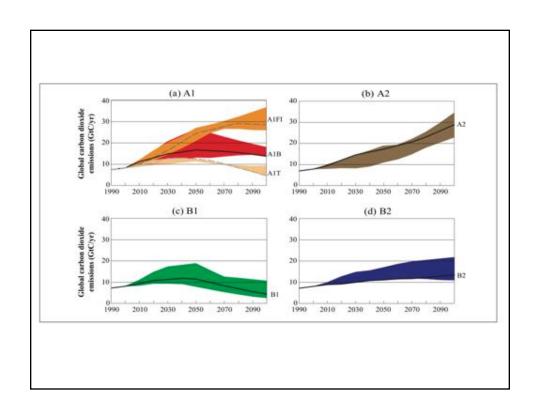
Second dimension: Diversity The future is always multiple potentials, not just one Takeaway: It is important for resilient organizations to map a range of futures, on an ongoing basis, to keep up with change

But simply raising the possibilities is not sufficient.



Scenarios are artificially specific stories about how the context in which you are operating could change.





THE EMISSION SCENARIOS OF THE IPCC SPECIAL REPORT ON EMISSION SCENARIOS (SRES)17

AL The Al storyline and scenario family describes a future world of very rapid economic growth, global population that peaks in mid-century and declines thereafter, and the rapid introduction of new and more efficient technologies. Major underlying themes are convergence among regions, capacity building and increased cultural and social interactions, with a substantial reduction in regional differences in per capita income. The Al scenario family develops into three groups that describe alternative directions of technological change in the energy system. The three Al groups are distinguished by their technological emphasis: Gassil-attentive (AIFI), non-fossil energy sources (AIT) or a balance across all sources (AIB) (where balanced is defined as not relying too heavily on one particular energy source, on the assumption that similar improvement rates apply to all energy supply and end use technologies).

A2. The A2 storyline and scenario family describes a very heterogeneous world. The underlying theme is self-reliance and preservation of local identities. Fertility patterns across regions converge very slowly, which results in continuously increasing population. Economic development is primarily regionally oriented and per capita economic growth and technological change more fragmented and slower than other storylines.

B1. The B1 storyline and scenario family describes a convergent world with the same global population, that peaks in mid-century and declines thereafter, as in the A1 storyline, but with regid change in economic structures toward a service and information economy, with reductions in material intensity and the introduction of clean and resource-efficient technologies. The emphasis is on global solutions to economic, social and environmental sustainability, including improved equity, but without additional climate initiatives.

B2. The B2 storyline and scenario family describes a world in which the emphasis is on local solutions to economic, social and environmental sustainability. It is a world with continuously increasing global population, at a rate lower than A2, intermediate levels of economic development, and less rapid and more diverse technological change than in the B1 and A1 storylines. While the scenario is also oriented towards environmental protection and social equity, it focuses on local and regional levels.

An illustrative scenario was chosen for each of the six scenario groups A1B, A1F, A1T, A2, B1 and B2. All should be considered equally sound.

The SRES scenarios do not include additional climate initiatives, which means that no scenarios are included that explicitly assume implementation of the United Nations Framework Convention on Climate Change or the emissions targets of the Kyoto Protocol.

** Emission scientification are not assessed in this Working Group I Report of the IPCC. This box summarising the SRES scientifical is seen from the TAPI and has been adopted to prior the by-line approval by the Panic.

While this is what's at stake...



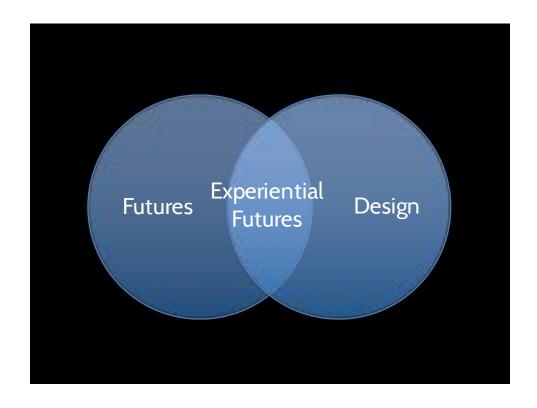


There is an 'experiential gulf' between how we typically represent/narrate futures for serious purposes, and what real situations feel like on the ground

This experiential gulf is built in to most traditional futures methods and projects

"By encoding imagined scenarios into long-term memory, we can use our prior simulations at later time points so that they can substitute for real experiences."

- Benoit, Szpunar and Schacter, 2014



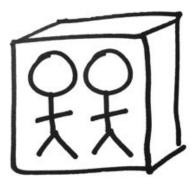
Experiential futures (XF): the design of situations and stuff from the future to catalyse insight and change.

Candy, 2015

XF "exploits the continuum of human experience to enable a different and deeper engagement than has traditionally been possible through textual and statistical means of representing scenarios".

- Candy, 2010, The Futures of Everyday Life

Experiential futures



Immersive scenarios



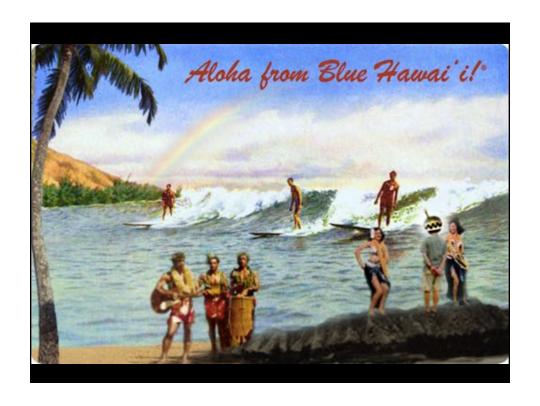
Future artifacts

@futuryst / thx @gregvan

XF purposes may include

- Entertainment
- Experimentation
- Exploration
- Education
- Evangelism
- Escapism













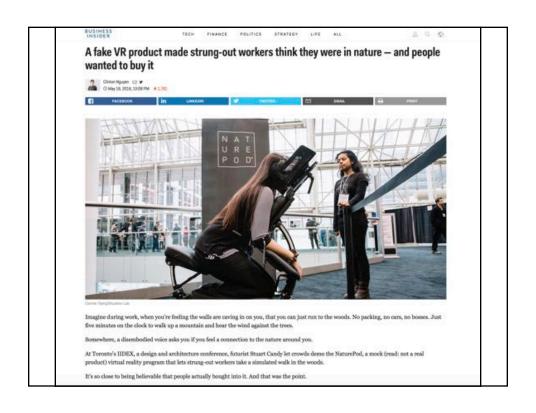


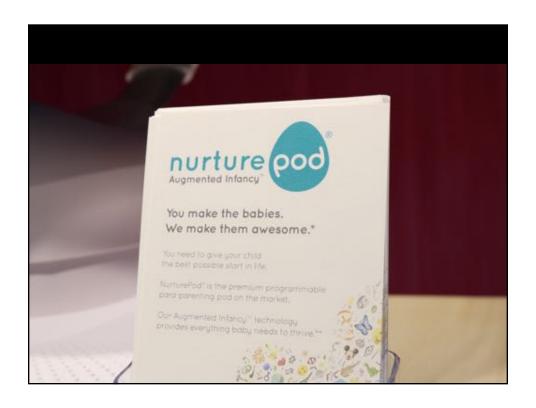






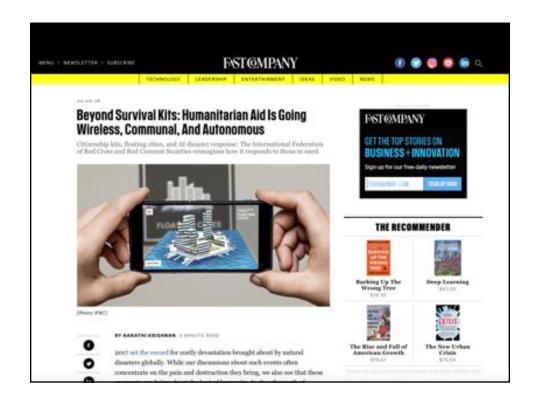


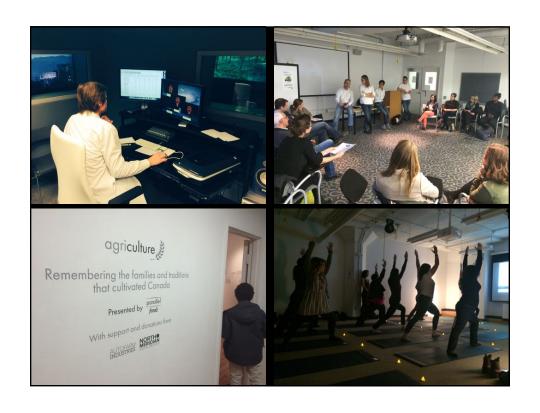






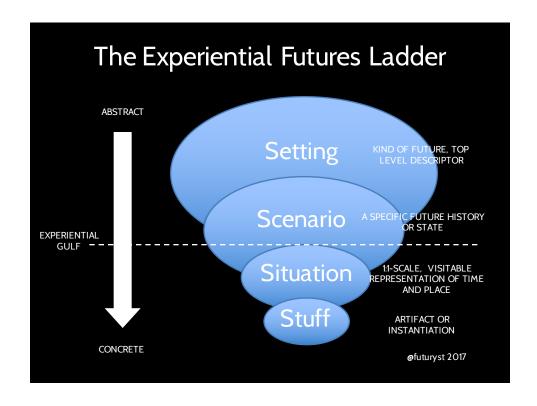












All this work comes from a simple recognition that bridging the experiential gulf means moving from abstract to concrete

The reason to get concrete is to help make the abstract future(s) ideas cognitively, psychologically, organisationally, culturally tractable.

Third dimension: Depth Any future that we get will be as real and complex as the present is.

Takeaway: We must try to not just think, but also feel, our way into these future conditions if we are to grapple with them effectively Futures imagined with Difference, Diversity, & Depth...

All of which enables the 4th 'D'...

Design.

Wiser choices between vividly and rigorously imagined alternatives.

The risks of not having these competencies built in are becoming increasingly serious, and obvious.

Act 3
The Thing From The Future

Any scenario can be rendered experiential through countless situations and endless stuff

We were looking for a more systematic way to parse / investigate the possibility space



The Thing From The Future is an award-winning imagination game for making concrete thinking about possible futures more fun and approachable. An experiential futures method, in the form of a card game





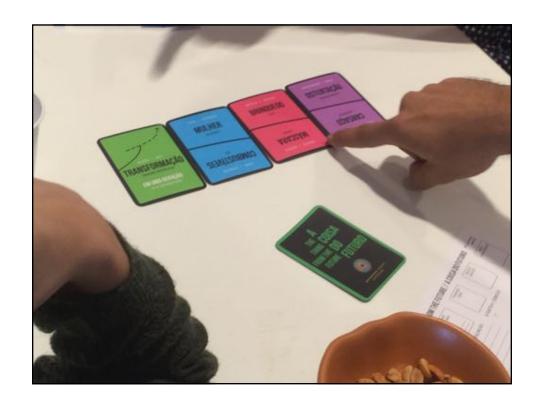


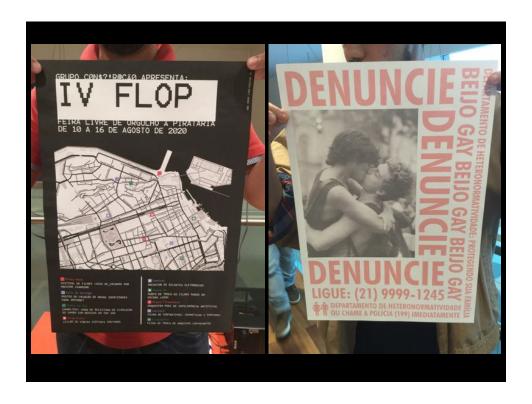






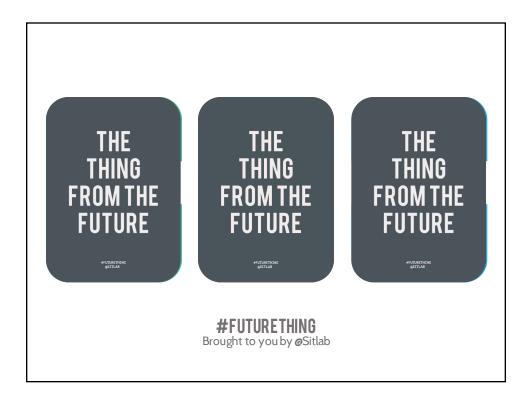


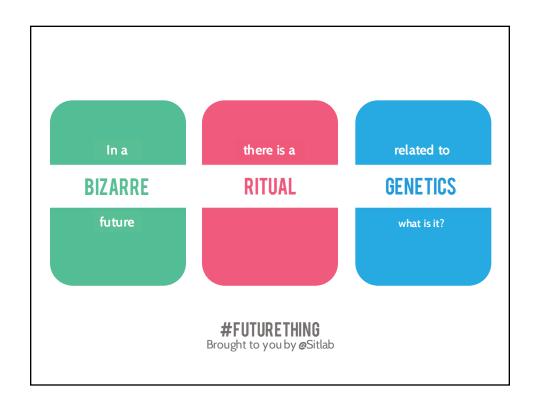


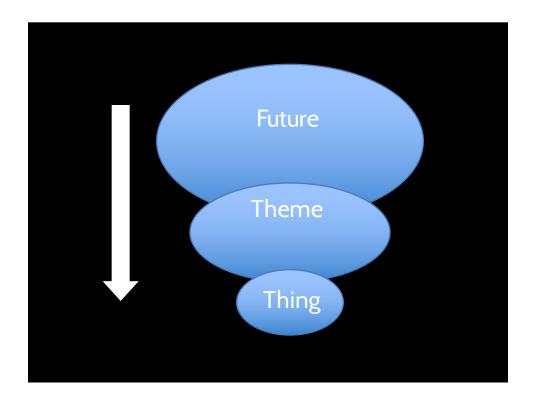


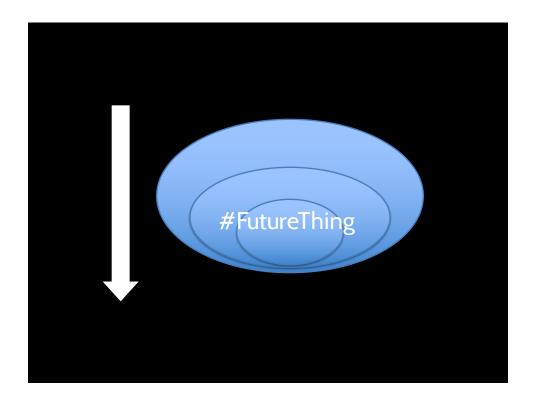


Second Edition (2018): 108 Cards 3 Suits (Future + Thing + Theme) ~40,000 Prompts









A few places The Thing From The Future has appeared...

- MIT Media Lab, Cambridge MA
- Stanford d.School, Palo Alto CA
- United Nations Development Programme, New York
- UNESCO World Youth Forum, Paris
- Lee Kuan Yew School of Public Policy, Singapore
- FutureFest (Nesta), London
- Museum of Tomorrow, Rio de Janeiro
- INK Conference, Mumbai
- Asia Pacific Foresight Network Conference, Taipei
- World Future Society Conference, San Francisco
- Amplify Innovation Festival, Sydney
- 5D Institute Transmedia Conference, Los Angeles
- Maker Festival, Toronto
- Centro de Estudios Superiores de Diseño de Monterrey (CEDIM), Mexico City
- European Commission Joint Research Centre, Brussels
- United States Conference of Mayors, Boston



The Thing From The Future: Cities Edition created to introduce futures thinking to Mayors from across the United States



Thank you for playing!

Thanks 谢谢 Terima kasih | し | し | し | Gracias | ありがとう | scandy**@**cmu.edu | **@**futuryst **@**sitlab