

Arizona State University

Science and Imagination A Blueprint for Better Futures

Ed Finn

Inspiring collective imagination for a better future.

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1: Thesis

Stories are the building blocks we use to make the future



ROCKET SHIP GALILEO HEINLEIN



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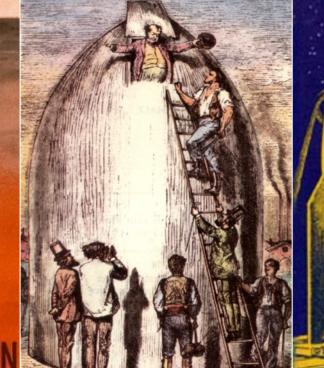
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MAN-LIKE MACHINES RULE THE WORLD! Fascinating Tales of a Strange Tomorrow

Isaac Asimov

SPACE Cadet

ROBERT HEINLEIN









2: Methods

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Radical Collaboration

Project Hieroglyph

Hieroglyph

Two year pilot project bringing science fiction writers and technical experts together to create technically grounded, optimistic visions of the near future





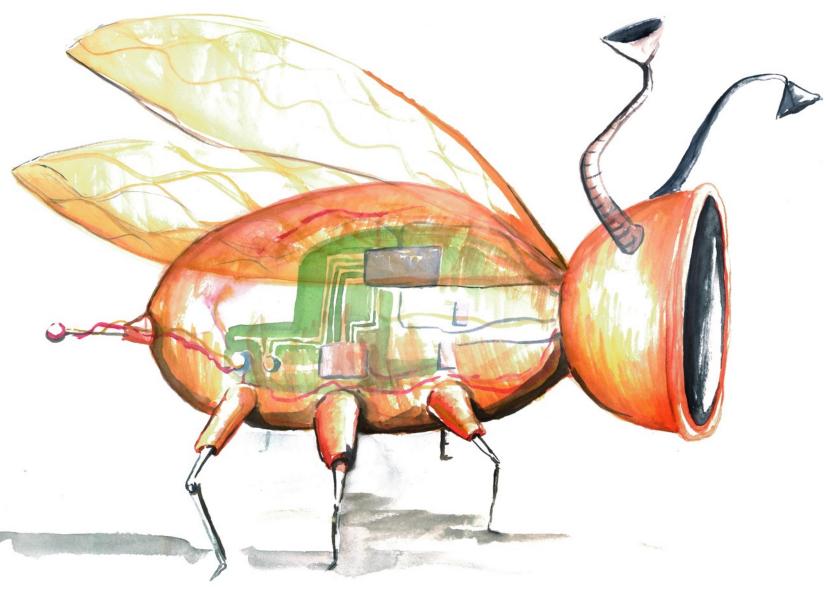
big ideas

real science

great stories

"This collection could be the shot in the arm our imaginations need. It's an important book, and not just for the fiction." --Wall Street Journal

The book and project generated hundreds of news articles and engagements with leaders in many public and private sector roles







Technical Grounding

Visions, Ventures, Escape Velocities

Narrative Space Futures

Adapting the Hieroglyph model to space commercialization and publicprivate partnerships

Two-year NASA-funded project bringing together space scientists, social scientists, SF writers and others

NOW

21:37

GMT +0

Narratives explored Mars, Asteroids, Low Earth Orbit and Exoplanets

KERAS

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ASEI VALLES

HARANOV

RONGXAR

Nonfiction essays explore historical parallels, current technical and social challenges to space exploration



If we meet intelligent life, will we even recognize it? "Shikasta," Vandana Singh What slime molds have to teach us about Al "Night Shift," Eileen Gunn Environmental entities take on political agency "Baker of Mars," Karl Schroeder



KASEI VALLES

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NILOKERAS



RANOV

Inclusive Storytelling

Frankenstein 200



Increasing Learning and Efficacy about Emerging Technologies through Transmedia Engagement by the Public in Science-in-Society Activities

This material is based upon work supported by the National Science Foundation under Grant No. 1516684

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Animating Questions What is life? What does it mean to be human? Why do we create?



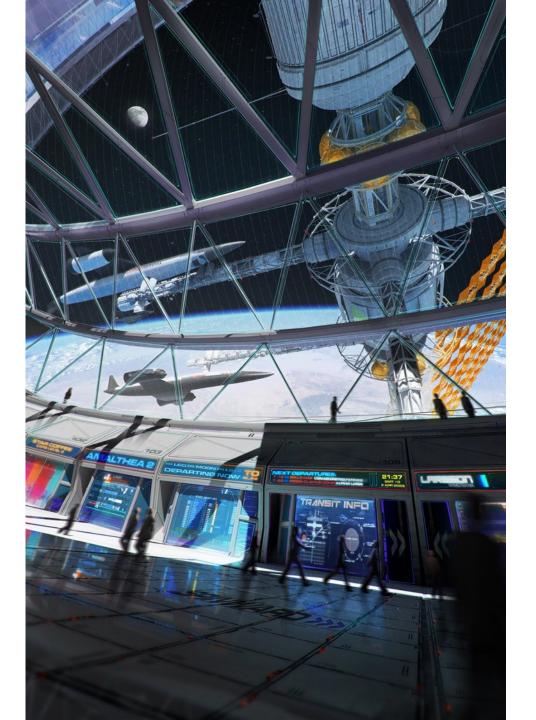


Worldbuilding

Luna City

Worldbuilding: Some Starting Points

- Design Fiction
- Speculative Design
- Science Fiction Prototyping
- Theater, Film, Performance
- Iterative Prototyping
- Storytelling



WHO WILL YOU BE IN LUNA CITY? ASU EMERGE | LUNA CITY 2175





March 17–18 | 10:30 a.m. – 3:30 p.m.

Galvin Playhouse

Open to the public, reserve your ticket at emerge.asu.edu



WELCOME TO LUNA CITY NEIGHBORHOOD 83 HISTORIC DISTRICT

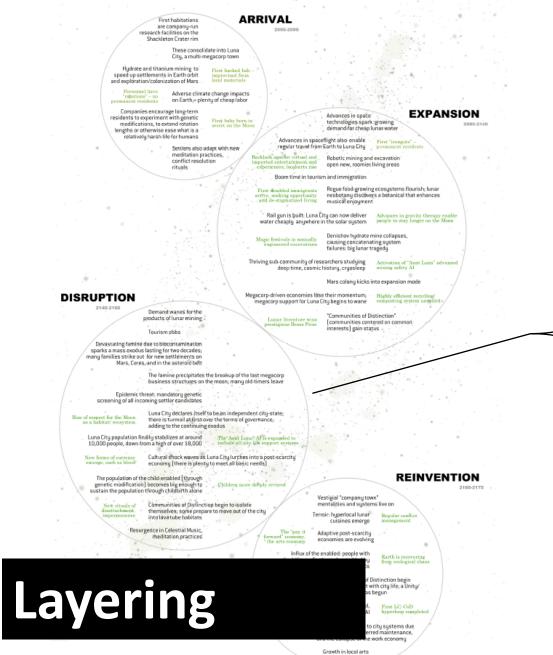
Brainstorming

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LUNA CITY A brief history



DISRUPTION

2140-2160

Demand wanes for the products of lunar mining

Tourism ebbs

Devastating famine due to biocontamination sparks a mass exodus lasting for two decades; many families strike out for new settlements on Mars, Ceres, and in the asteroid belt

The famine precipitates the breakup of the last megacorp business structures on the moon; many old-timers leave

Epidemic threat: mandatory genetic screening of all incoming settler candidates

Rise of respect for the Moon as a habitat/ ecosystem. Luna City declares itself to be an independent city-state; there is turmoil at first over the terms of governance, adding to the continuing exodus

Luna City population finally stabilizes at around 10,000 people, down from a high of over 18,000

The"Aunt Luna" AI is expanded to include all city life support systems

Megacorp-driven economi

megacorp support for

Lunar literature

prestigious Bezos l

New forms of currency emerge, such as blood^{*}

Cultural shock waves as Luna City lurches into a post-scarcity economy (there is plenty to meet all basic needs)

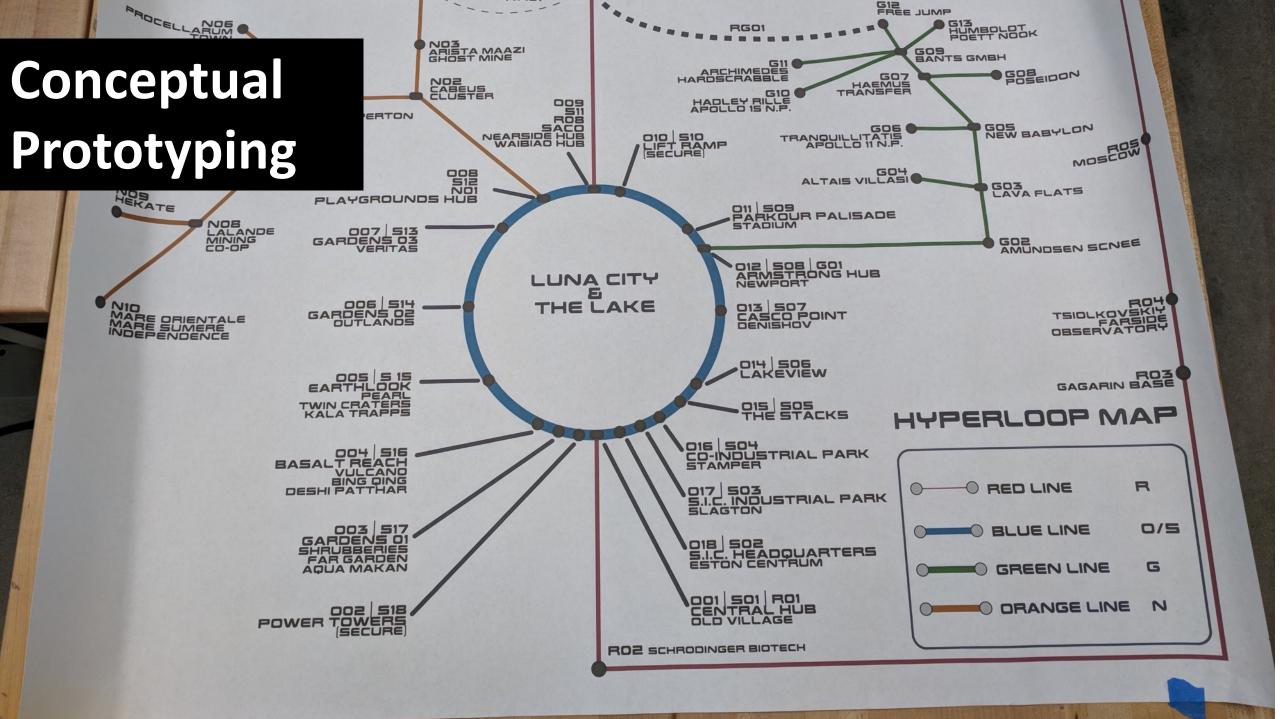
The population of the child-enabled (through genetic modification) becomes big enough to sustain the population through childbirth alone

Children more deeply revered

New rituals of disattachment, impermanence Communities of Distinction begin to isolate themselves; some prepare to move out of the city into lava tube habitats

Resurgence in Celestial Music, meditation practices

The "pay it forward" economy, the arts economy



Physical Prototyping

Fabrication

Experience Design



Engagement

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Performance

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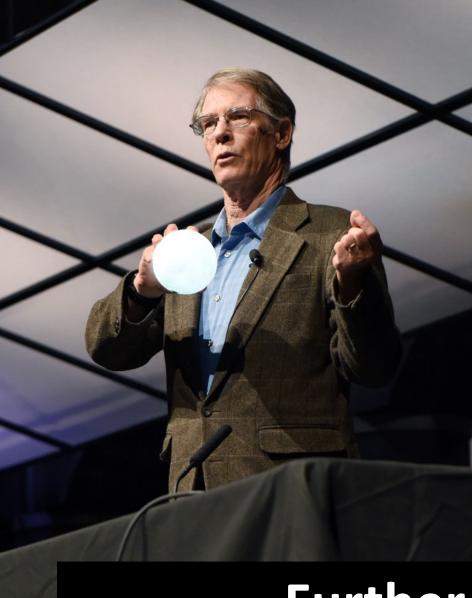
Community

Critical Thinking



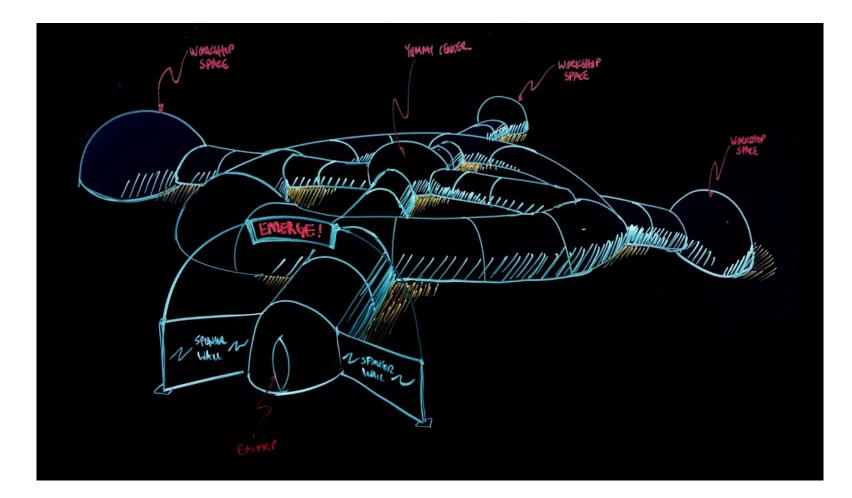






Further Destinations

Emerge 2019: Invention



Transformative Change

Imagination and Climate Futures Initiative

Imagination and Climate Futures

climateimagination.asu.edu



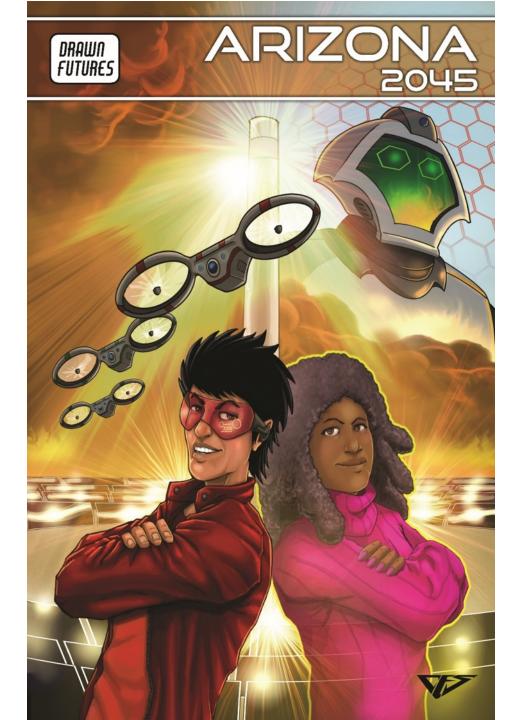
Everything Change Climate Fiction Contest 2018

540 submissions66 different countries

Drawn Futures: Arizona 2045

A science-based comic book for 5th through 8th grade students

Created by award-winning comics authors and advised by ASU sustainability scholar Dr. Paul Hirt, this original story envisions the near future of Arizona's energy systems



3: Conclusions

So what are stories good for?

- Invitations to immersive and participatory futures
- "Minds-on" models for complex and ambiguous problems
- Stories contain worlds—and methodologies
- Building our collective capacity for imagination



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Arizona State University

edfinn@asu.edu

csi.asu.edu

twitter.com/imaginationASU facebook.com/imaginationASU