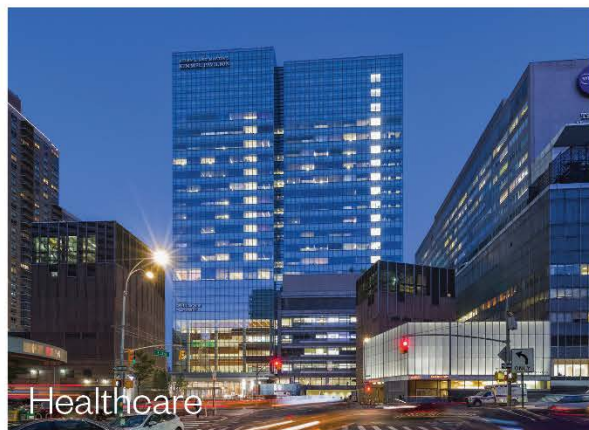
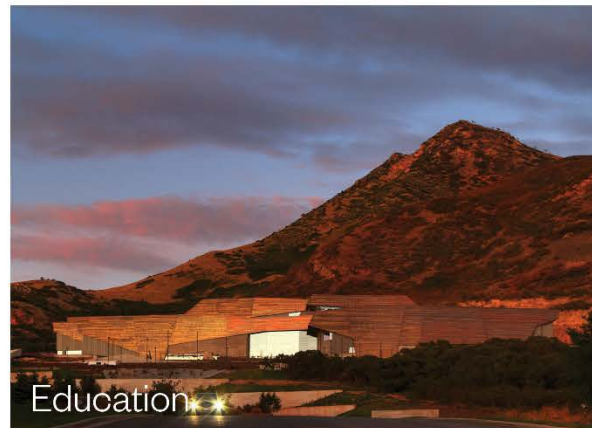
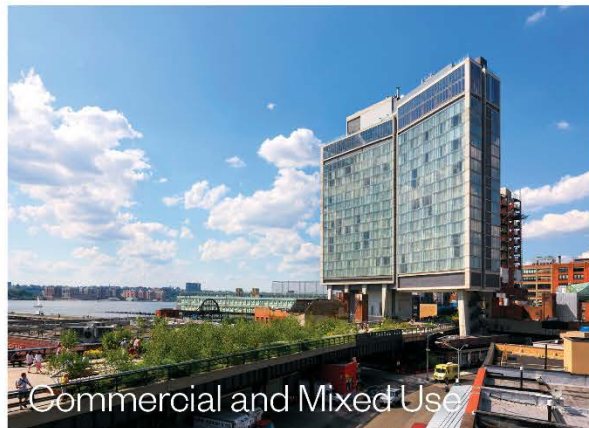




Don Weinreich

FAIA

ennead



About **Ennead**



Case Study: Ennead Lab and the Socratic Practice

Our mission is to

advance critical
narratives, ideas, and
processes in support
of **a just and lasting
world**;

develop theories,
tools, and objects that
contribute to a larger
discourse around
architectural and urban
spaces and inform our
own practice;

and support
multidisciplinary
collaborations working
to solve **relevant and
transcending issues**.

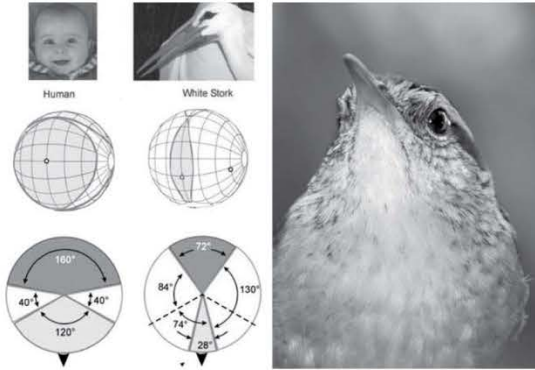


Sustainable Development Goals



Can we save 1 billion avian lives per year? Bird Collision Deterrence

Bird Safe Glass Denning House, Stanford University



Research and collaborations define the context and impact of issues in order to **ask the right question**.

Bird Safe Glass

LEED BD+C: New Construction | v3 - LEED 2009
Bird collision deterrence
 SSpc55 | Possible 1 point

Language Resources Addenda Forum

Strategic thinking determines a point of leverage which can **catalyze** change.

SAM LUBELL DESIGN 11.01.18 7:00 AM

HOW TO KEEP BUILDINGS FROM KILLING HUNDREDS OF MILLIONS OF BIRDS A YEAR



Metallic screens on the facade of Ennead's Bridge for Laboratory Sciences at Vassar College warn birds of danger. © RICHARD BARNES

Project and industry is impacted and strengthened at a **large and transcending scale**.



Can (should)
we build at the
water's edge?

Fostering Resilient
Ecological
Development

Fostering Resilient Ecological Development FARROC





Research and collaborations define the context and impact of issues in order to **ask the right question.**

Fostering Resilient Ecological Development

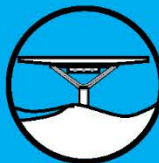
Marshlands & Ecological Landscapes

Protecting and enhancing the native landscape ecology the most effective and affordable way to achieve long-term resilience within a tidal riverfront context. The native marshlands and river landscapes of the Hudson River are unique and beautiful environments for living, and can be a destination for residents and the public.



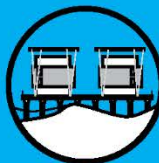
Piers & High Ground

Vibrant pedestrian-friendly streets and paths are the life-blood of successful neighborhoods. On sites that may be subject to sea-level rise and/or flooding and where housing is raised off the ground, elevated pedestrian streets echo the coastal river language of piers and boardwalks and keep the community connected, regardless of rising waters.

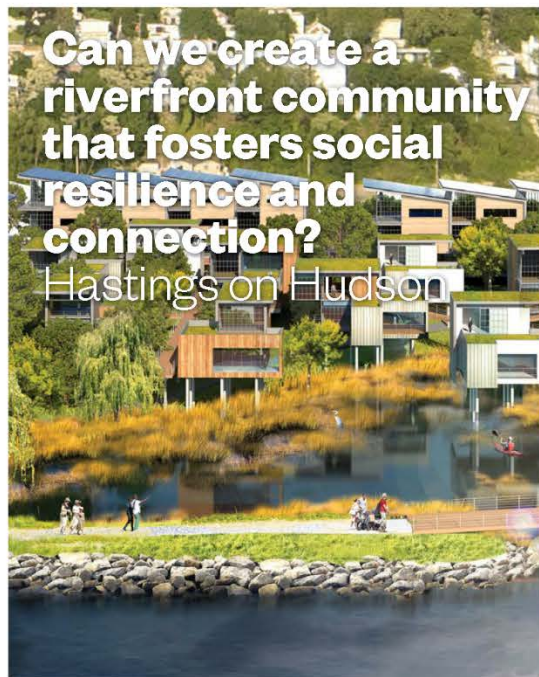


Elevated Housing Clusters

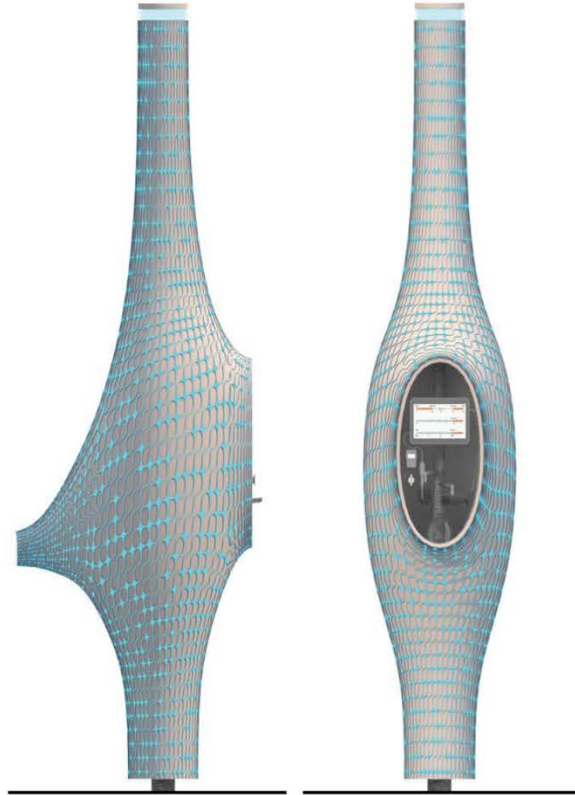
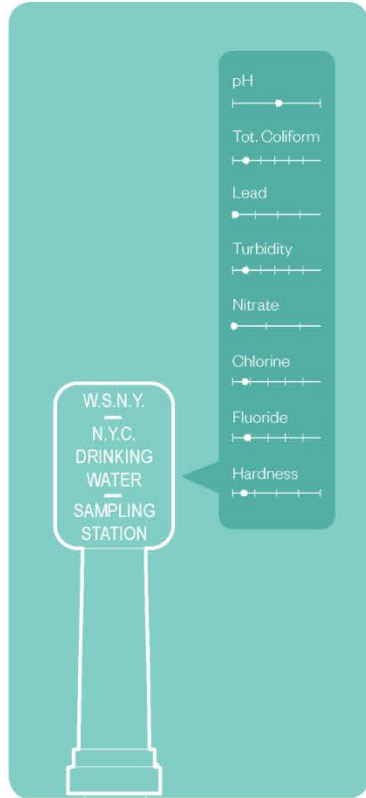
To maximize open space and to allow a marshland ecological system to function effectively, housing should be clustered together and interspersed above and between open space across the site. Strategically locating higher densities of diverse housing types helps sponsor neighborhood cohesion and connectivity.



Strategic thinking determines a point of leverage which can **catalyze** change.



Project and industry is impacted and strengthened at a **large and transcending scale.**



What if our infrastructure could talk?

Water Sampling Station



Water in the Public Realm Water Sampling Station

Is farming the next mission for veterans?

Heroic Food Farm



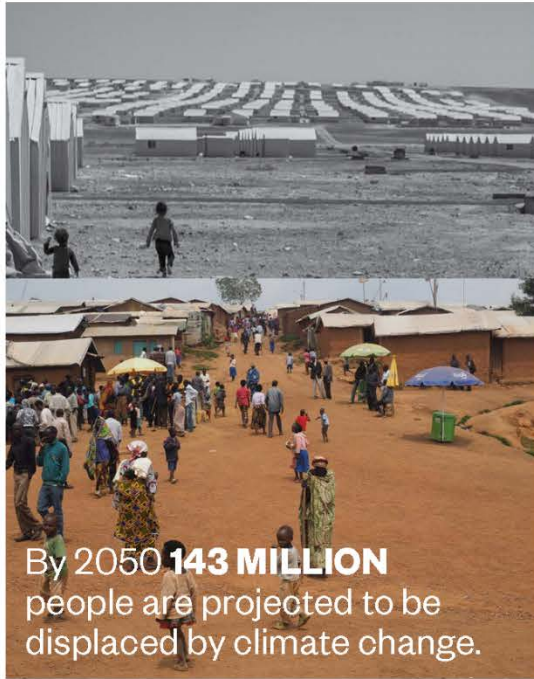
Heroic Food Farm





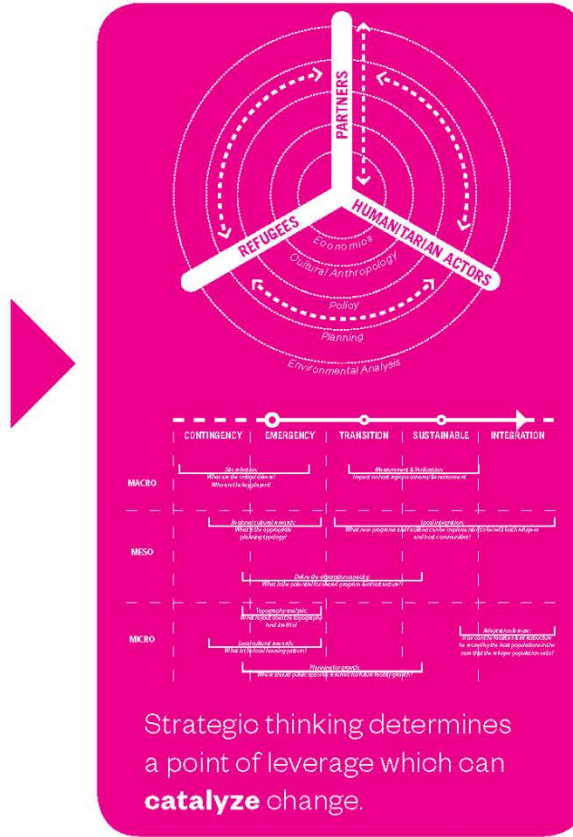
Can technology increase access to health?
Indoor Sports Pavilion

A stylized illustration of a cell with a glowing blue nucleus and a square inset showing a magnified view of the nucleus.



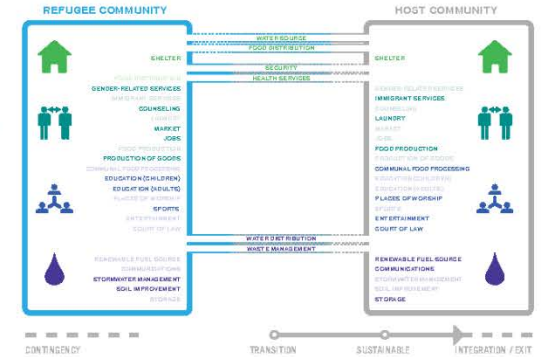
By 2050 **143 MILLION** people are projected to be displaced by climate change.

Research and collaborations define the context and impact of issues in order to **ask the right question.**



Can refugees improve existing cities?

The UN Refugee Agency + EnneadLAB + Stanford University



Project and industry is impacted and strengthened at a **large and transcending scale.**

Rethinking Refugee Communities



RETHINKING REFUGEE COMMUNITIES

 **UNHCR**
The UN Refugee Agency

 **STANFORD**
UNIVERSITY

ennead lab

© 2017 ennead architects

how can we design for
INDEFINITE TIME FRAMES?



refugees need
AGENCY *not dependency*



when given agency, refugees have the opportunity to
RECLAIM THEIR LIVES



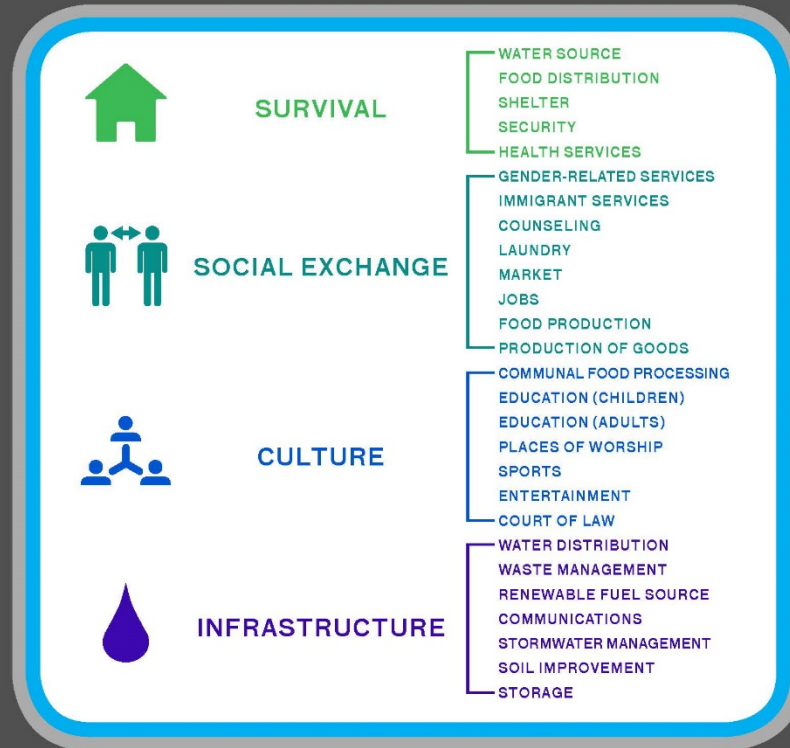
refugee ~~camps~~ CITIES



existing communities can become
PARTNERS *not hosts*

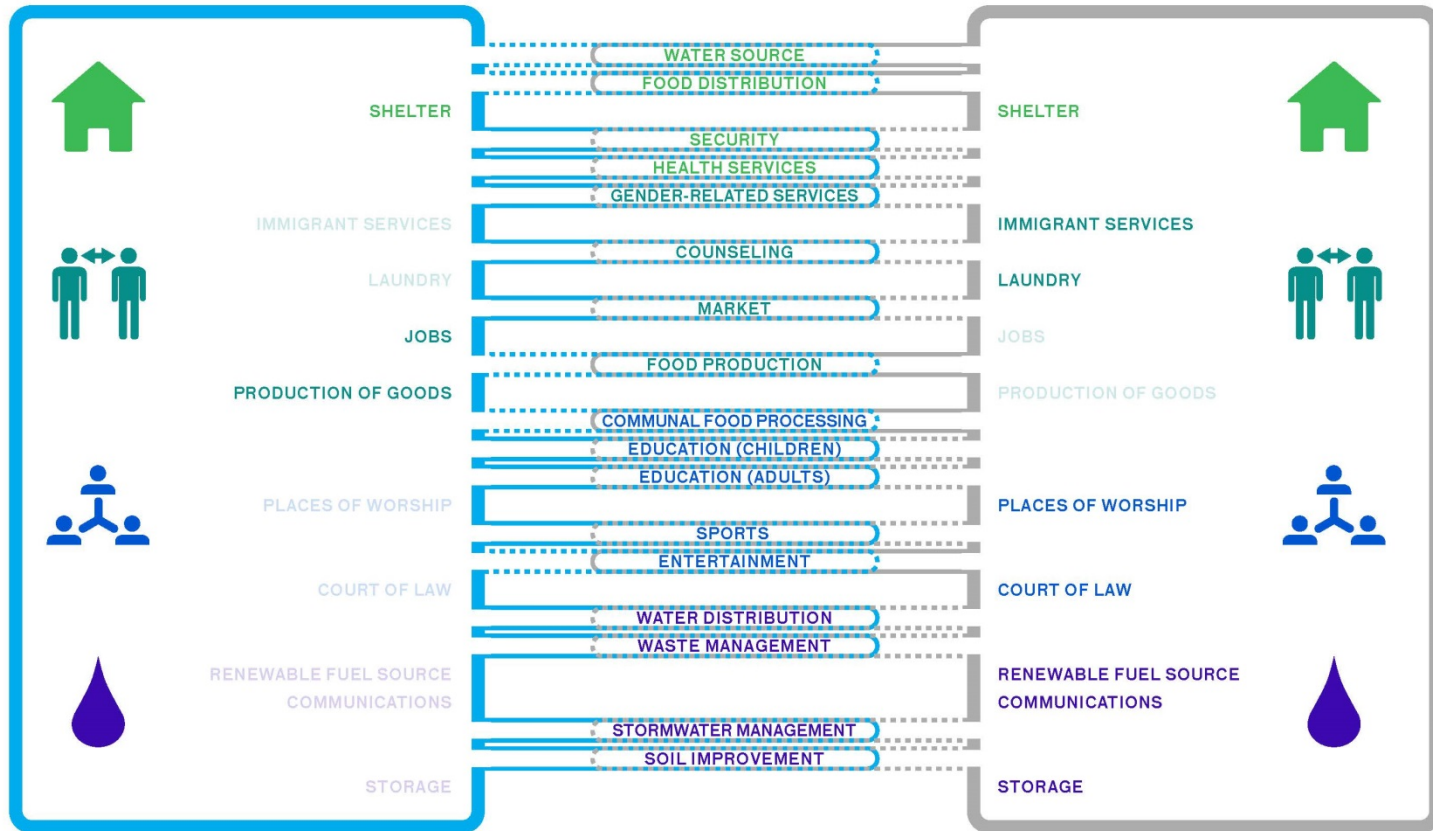


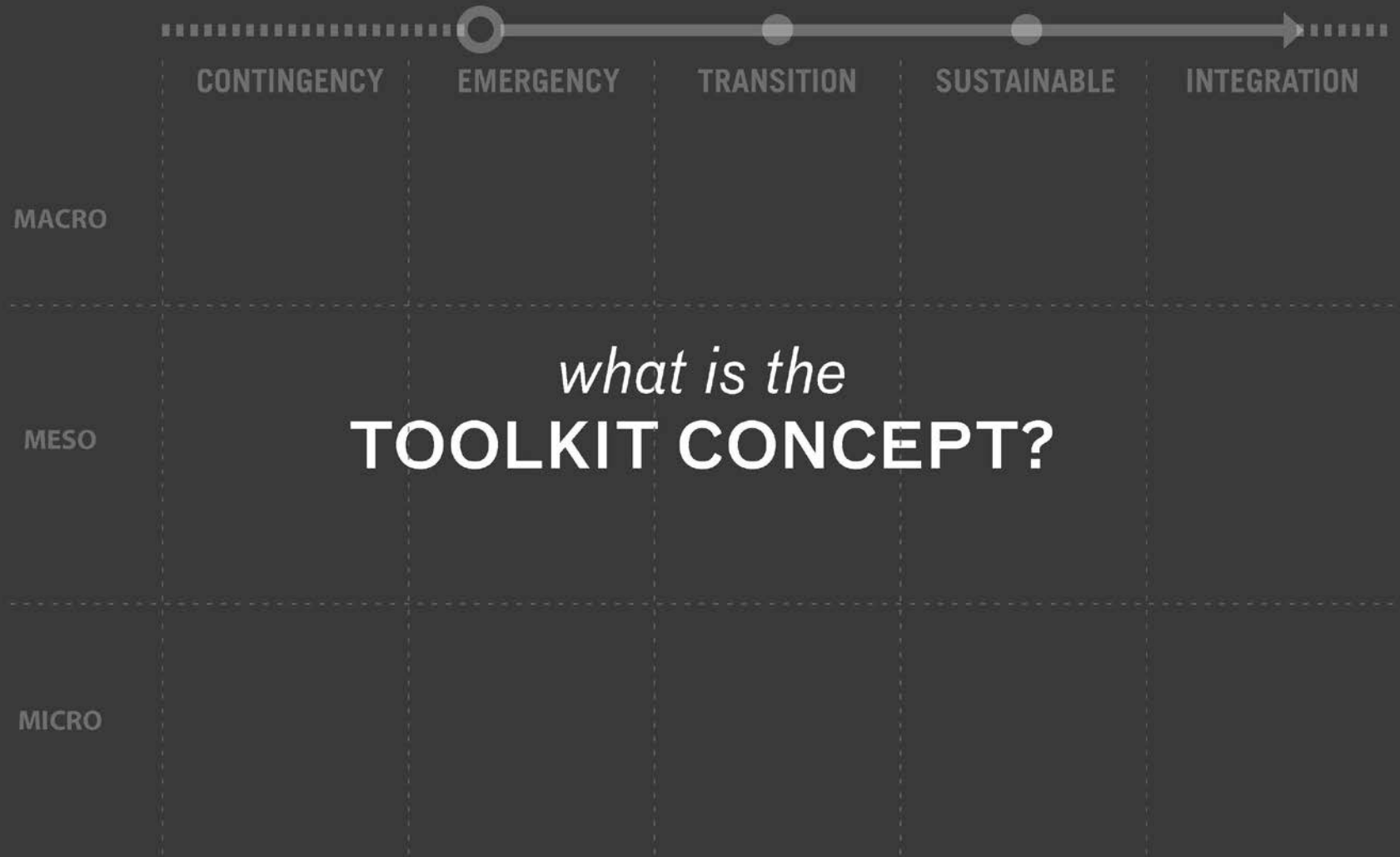
what is the potential for **SHARED RESOURCES?**

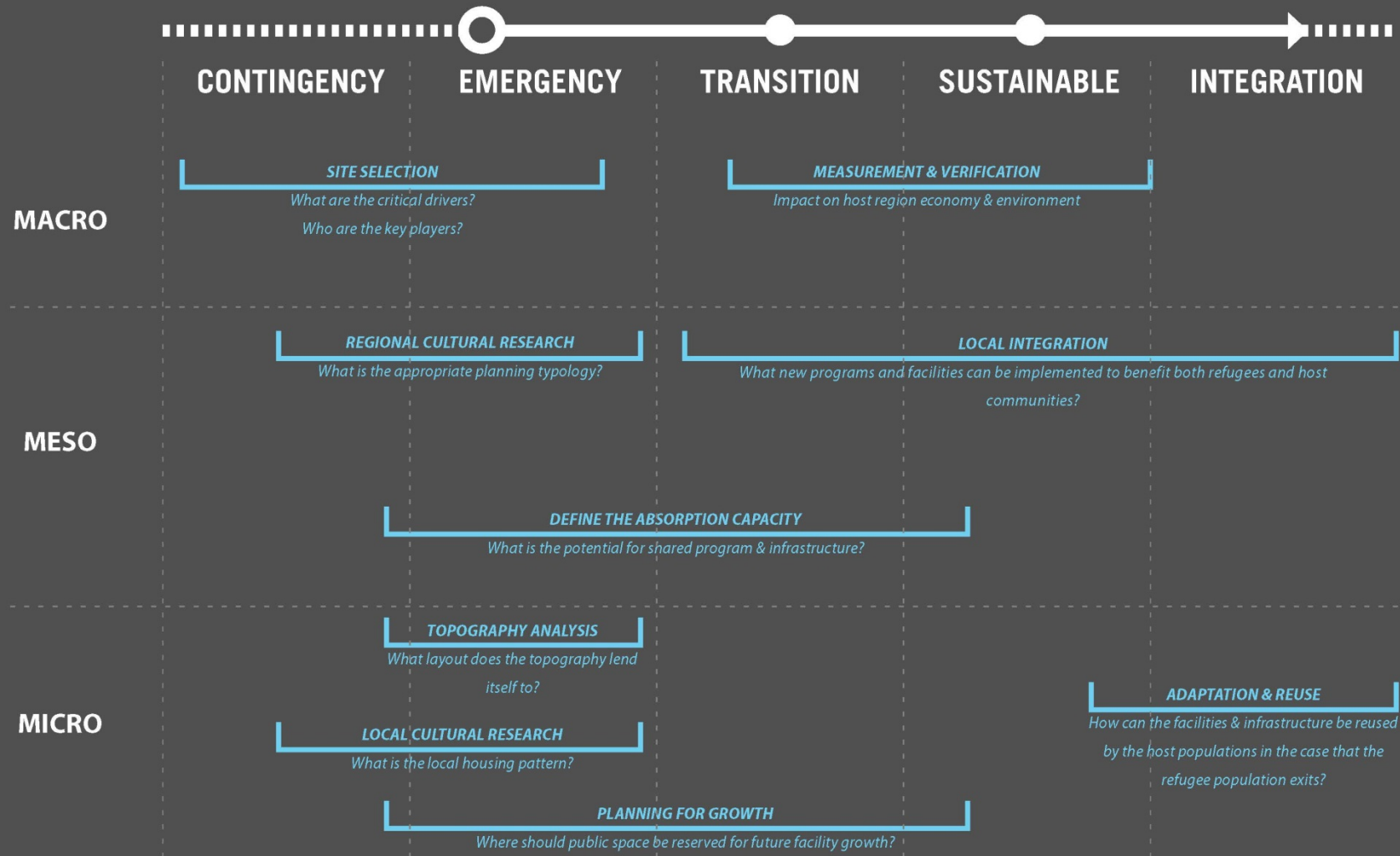


REFUGEE COMMUNITY

HOST COMMUNITY

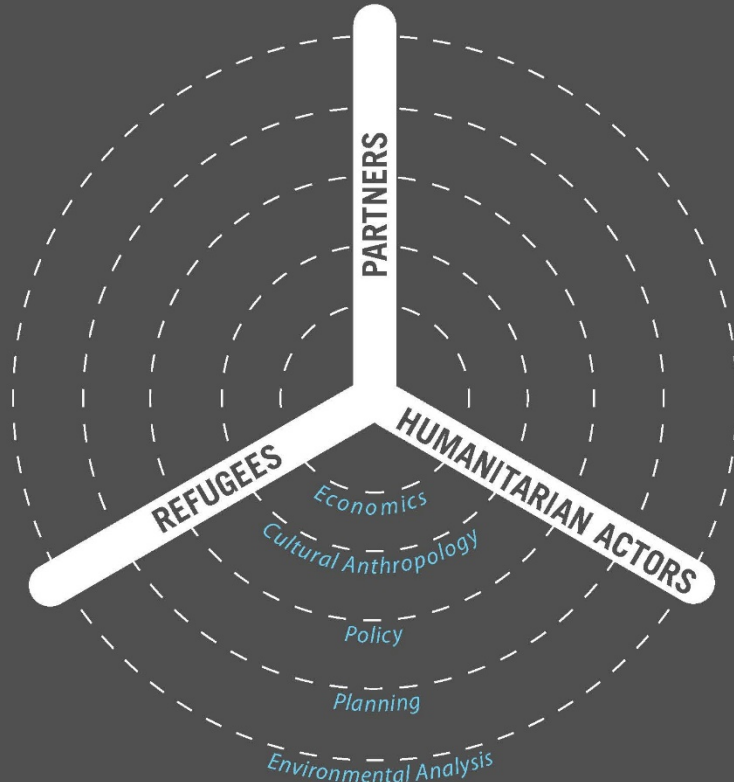






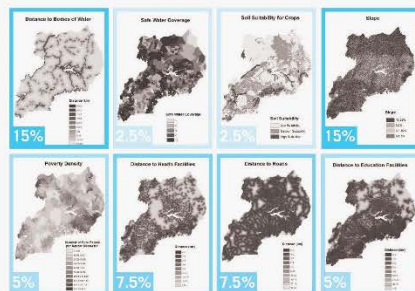
WHO

is the toolkit for?

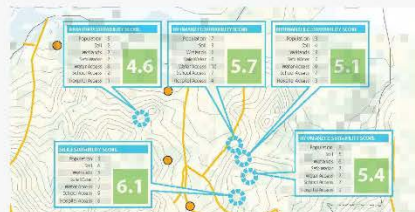
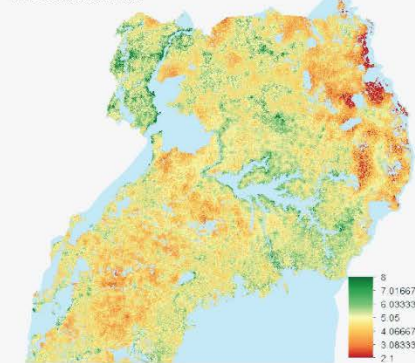


MACRO Site Selection

ENVIRONMENTAL & SOCIAL DATA LAYERS



SITE SUITABILITY MAP



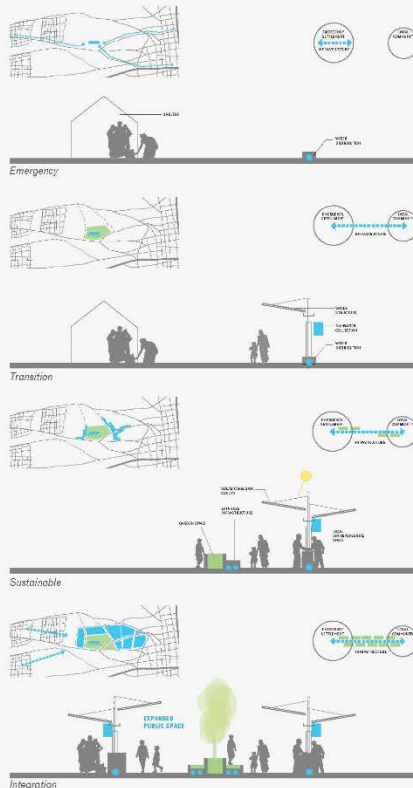
*Collaboration with Stanford University's 'GIS for Good' course.
Students: Cate Mong, Christy Nelson, and Manzi Oni

MESO Shared Use

PLANNING TYPOLOGIES



HOST - REFUGEE SHARED USE OVER TIME

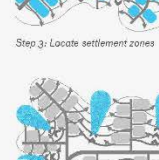
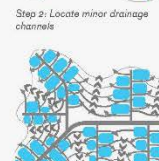
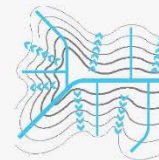
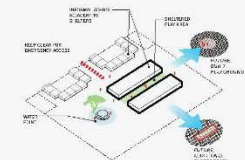
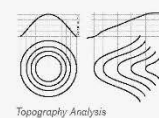


MICRO Site Design

PROGRAMMATIC & SPATIAL ADAPTATION PARAMETERS



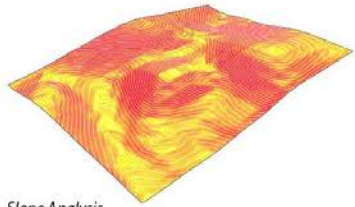
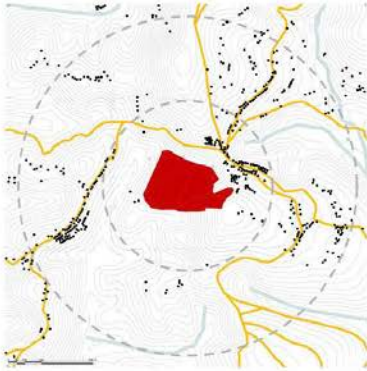
ENVIRONMENTAL CONDITIONS



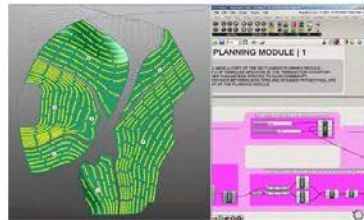
TESTING THE TOOLKIT

CASE STUDY: MUGOMBWA, RWANDA

Site & regional analysis



Slope Analysis

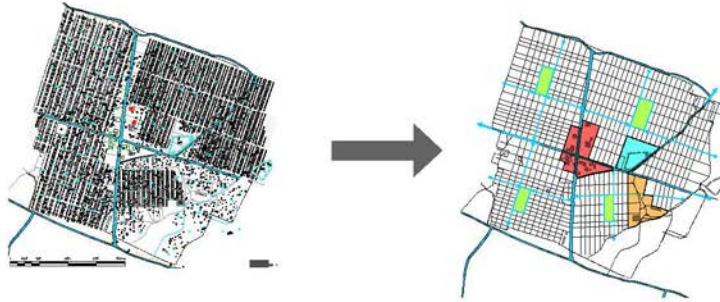


TESTING THE TOOLKIT: INTEGRATION PHASE

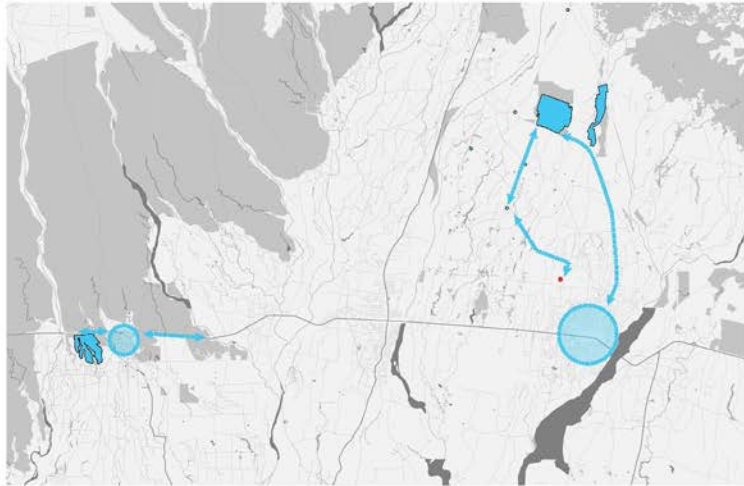
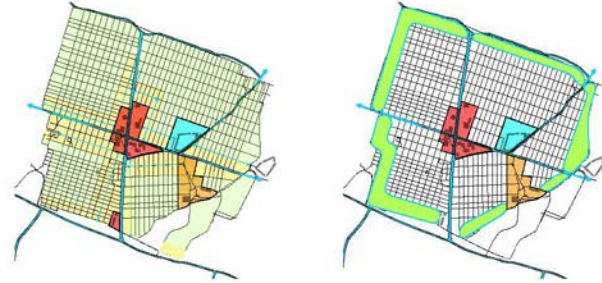
In 2017 we took part in a mission to an undisclosed settlement location to use the toolkit to explore future planning strategies for decades old refugee camps. This was an opportunity to evaluate the transformation of a settlement from emergency phase to transition and ultimately an

integration scenario. We worked directly with both the humanitarian actors and refugees themselves to evaluate potential future planning and integration schemes. This was also an opportunity to refine the tools in the toolkit as we addressed longer term community developments.

ORIGINAL CAMP PLAN



FUTURE INTEGRATION SCHEMES



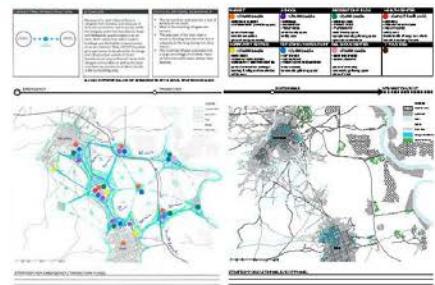
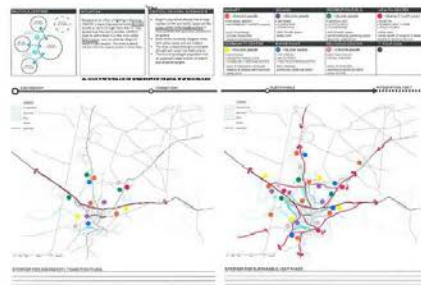
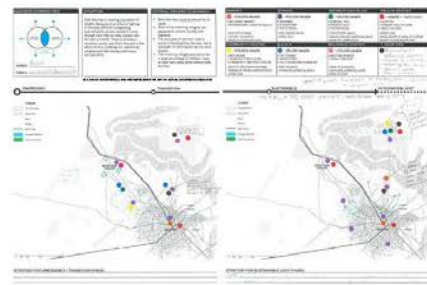
By highlighting key transit and economic connections to the nearby cities, the integration planning efforts aimed to strengthen the benefits each population are gaining from each other.

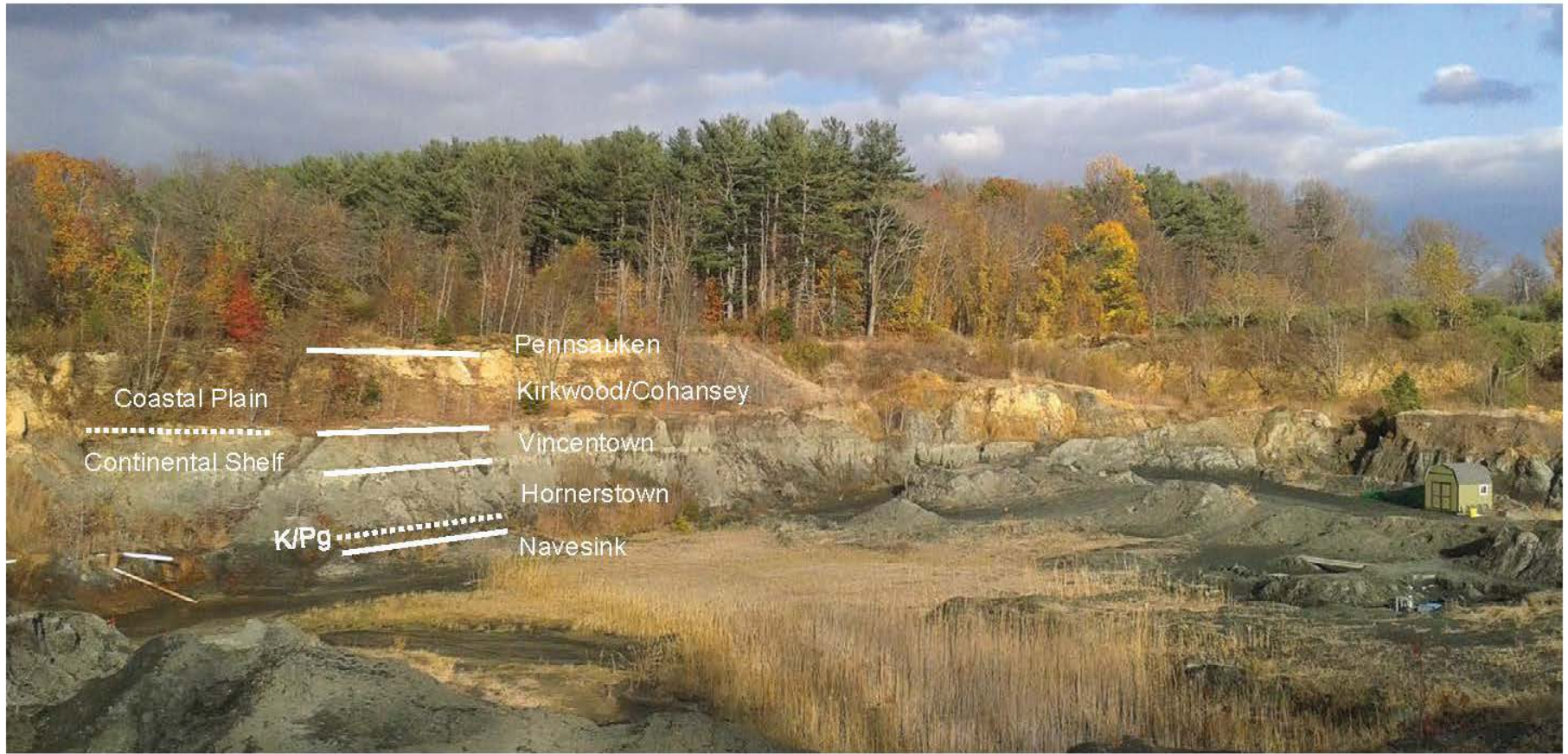


Decisions were made through collaboration and direct engagement with the refugees living there.

EVOLVING THE TOOLKIT

UNHCR, STANFORD, PRATT



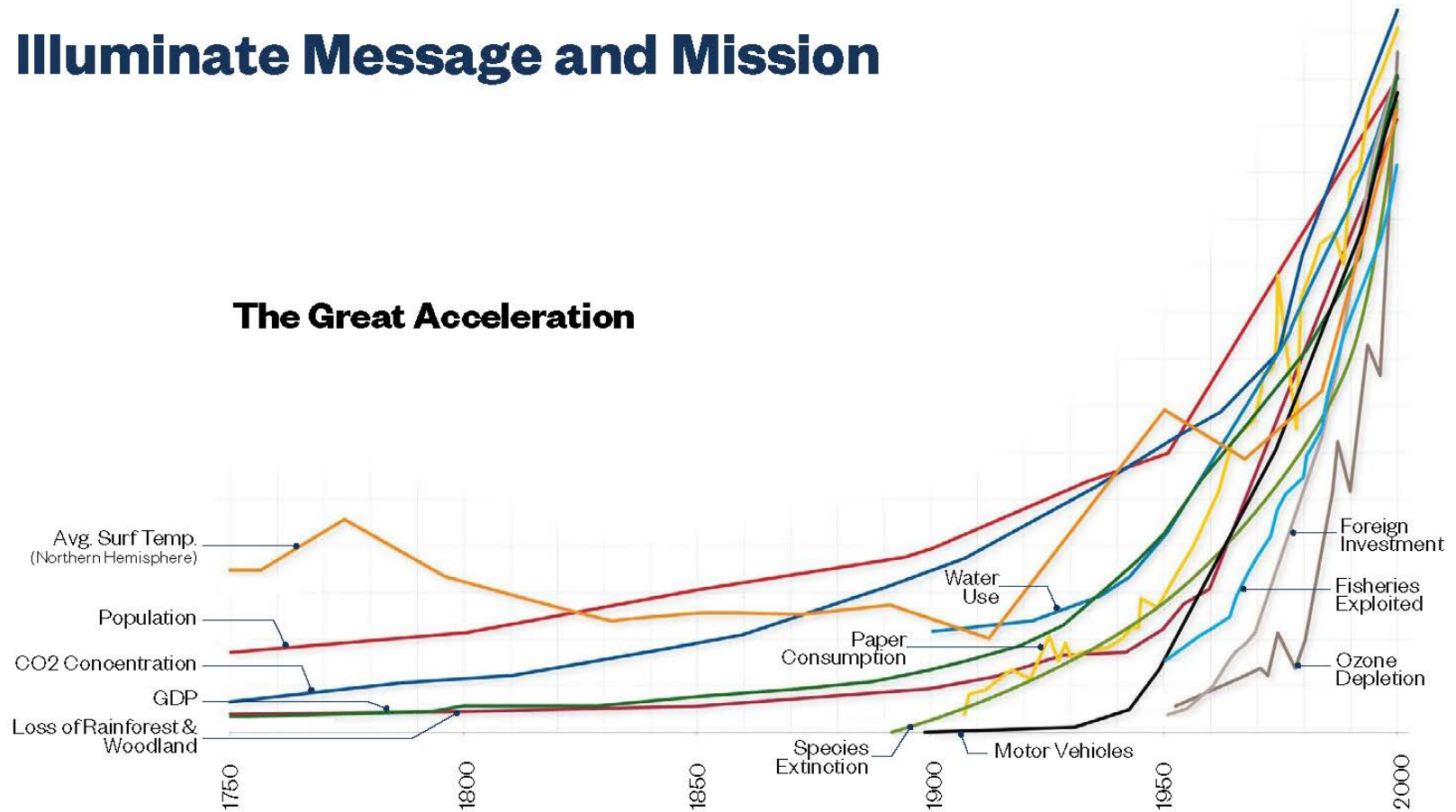


Rowan University Edelman Fossil Park

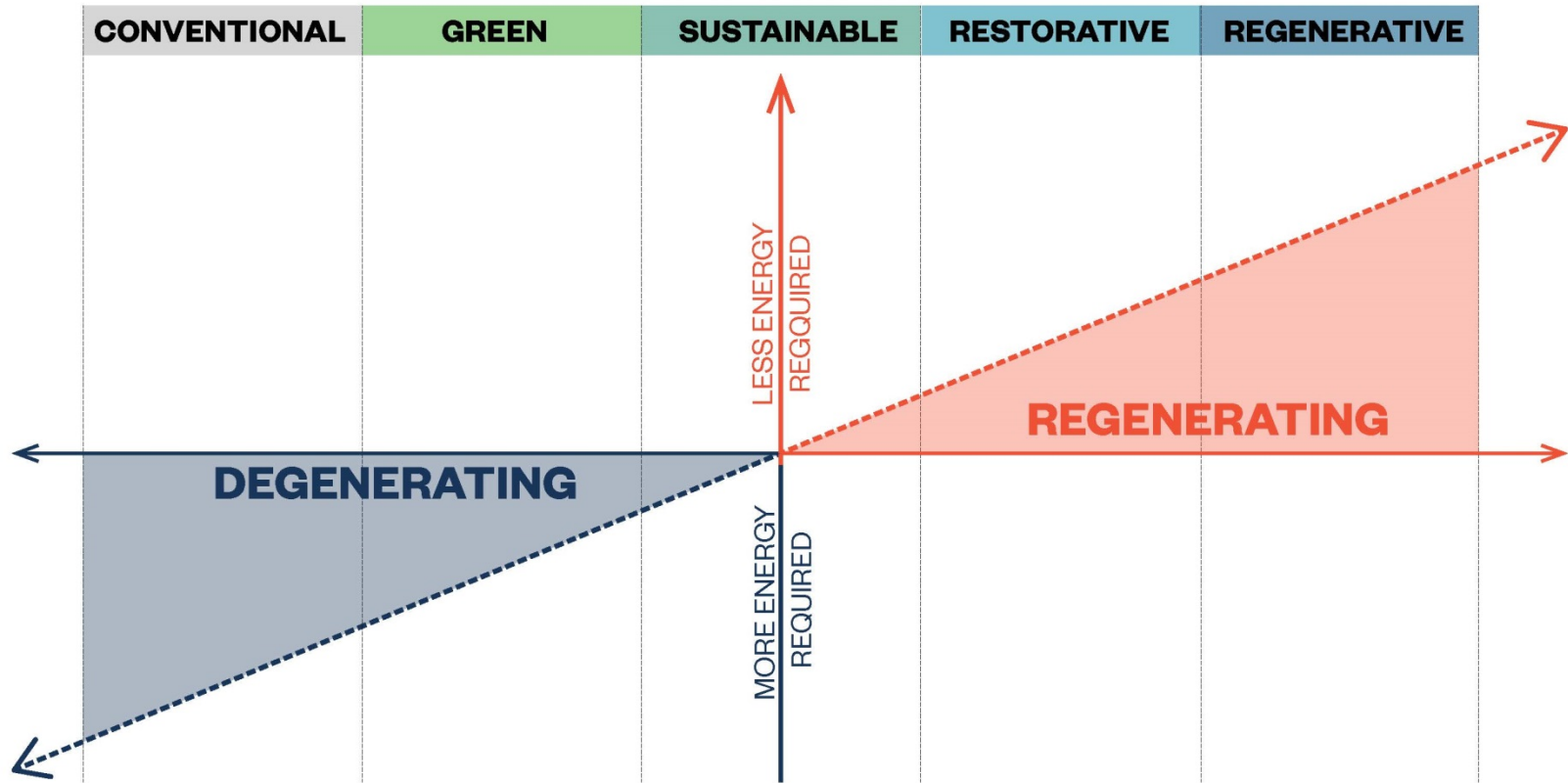


Illuminate Message and Mission

The Great Acceleration



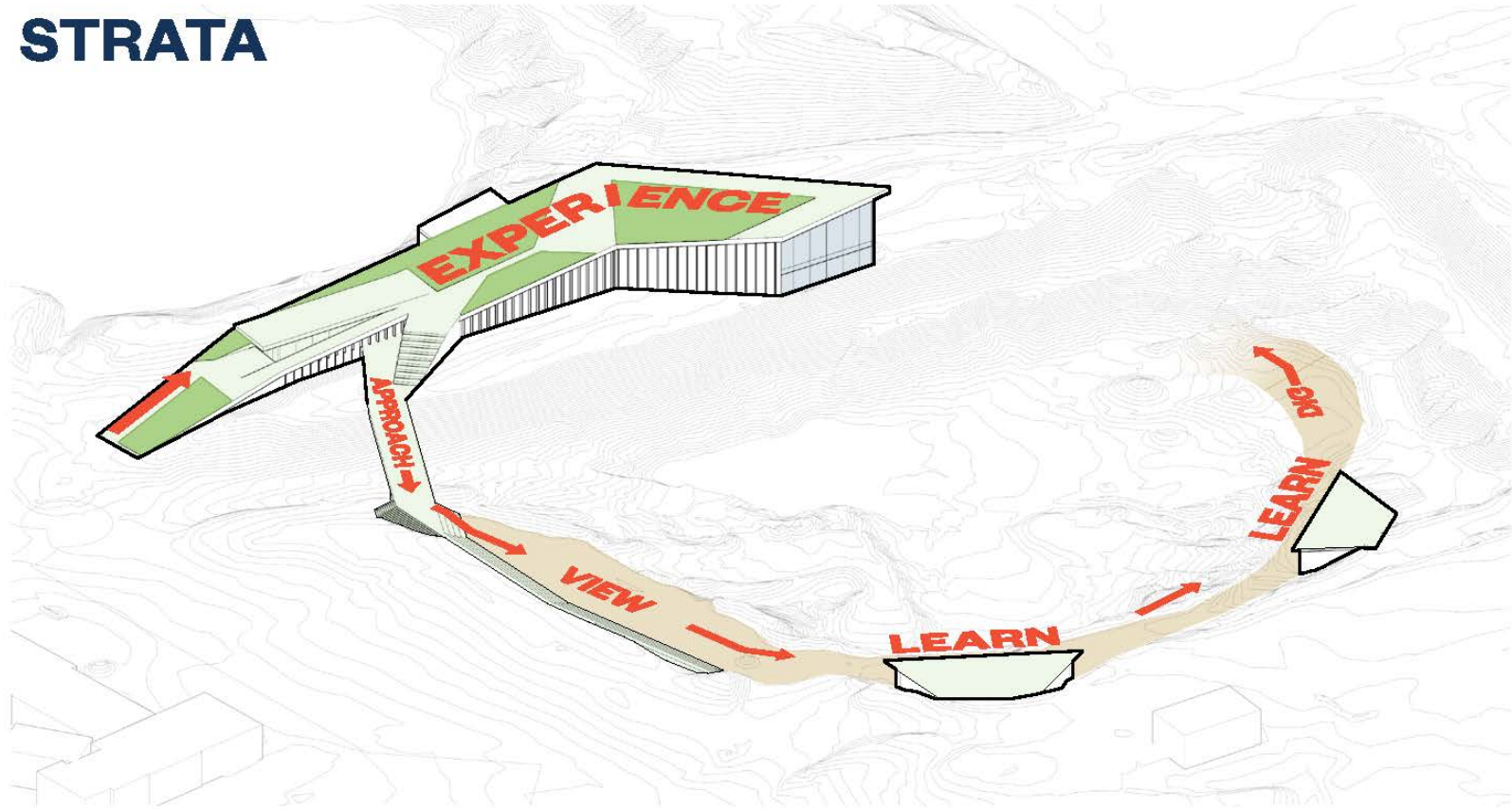
Illuminate Message and Mission



STRATA



STRATA



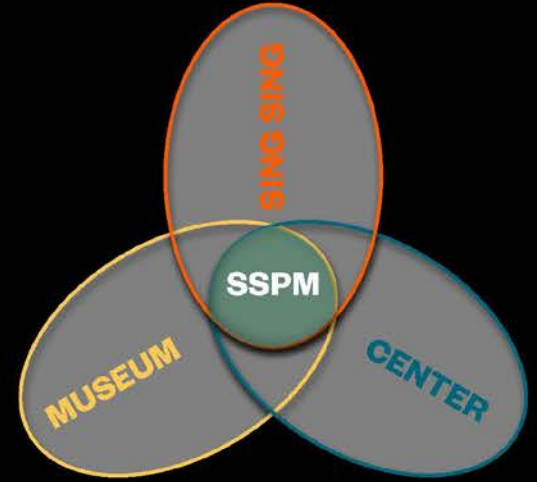
Rowan University Edelman Fossil Park

STRATA



Rowan University Edelman Fossil Park

What can a Museum Do?

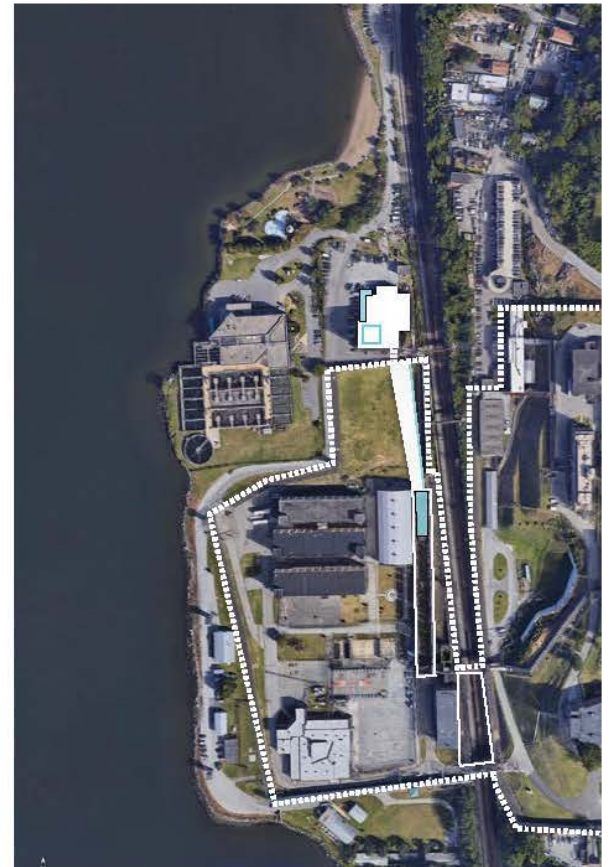
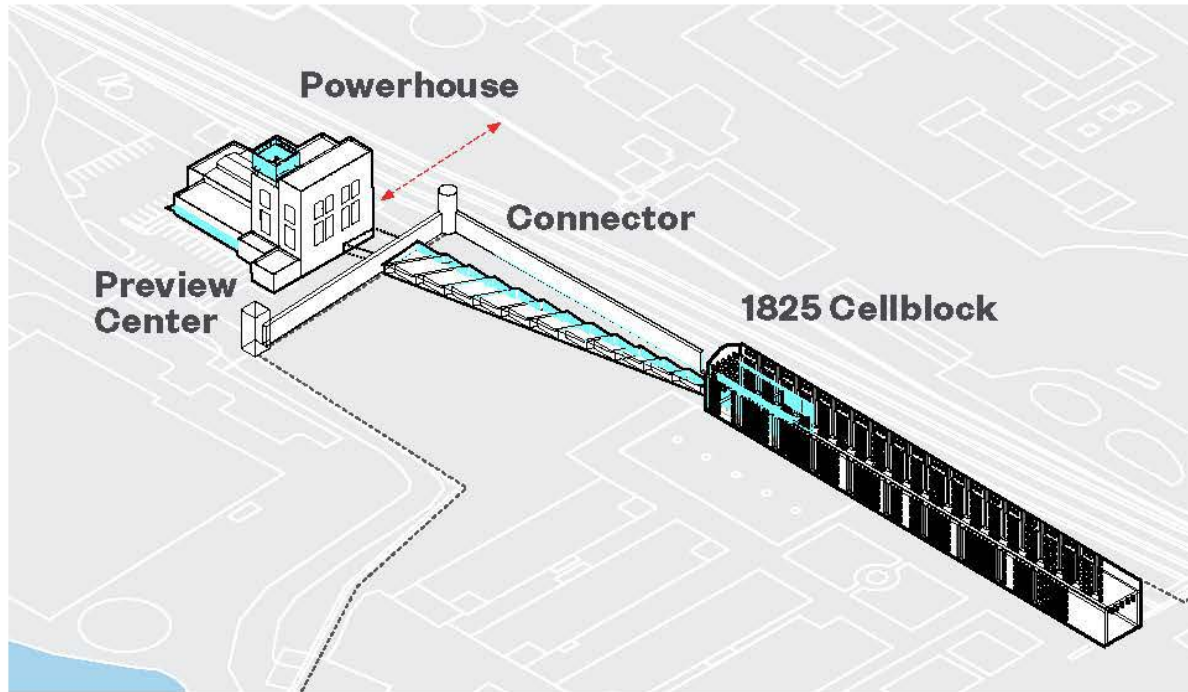


Sing Sing Prison Museum





Sing Sing Prison Museum



Sing Sing Prison Museum

If one accepts the premise that:

there are solutions at hand:

1 - What is the right framework for rapid and effective trans-disciplinary progress?

2 - Can capitalism be enlisted as a partner in effecting the solutions?

Two Questions

