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.
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.

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

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

Bird Safe Glass
Can (should) we build at the water’s edge?

Fostering Resilient Ecological Development
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Fostering Resilient Ecological Development

Can we create a riverfront community that fosters social resilience and connection?

Hastings on Hudson

Marshlands & Ecological Landscapes

Protecting and enhancing the natural landscapes and ecology is 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 must remain as safe and beautiful environments for living, and can be a destination for residents and the public.

Piers & High Ground

Vibrant pedestrian-friendly streets and paths on the crest of a successful neighborhood. 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 rise's 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 resilient ecological system to function effectively, housing should be clustered together and interspersed above and between open space across the site. Strategically locating higher density of diverse housing types helps sponsor neighborhood cohesion and connectivity.
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
Can technology increase access to health?

Indoor Sports Pavilion
By 2050, **143 MILLION** people are projected to be displaced by climate change.

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

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

**Rethinking Refugee Communities**

**Can refugees improve existing cities?**

The UN Refugee Agency + EnneadLAB + Stanford University
RETHINKING REFUGEE COMMUNITIES
how can we design for
INDEFINITE TIME FRAMES?

CONTINGENCY  EMERGENCY  TRANSITION  SUSTAINABLE  INTEGRATION / EXIT
refugees need

AGENCY not dependency
when given agency, refugees have the opportunity to reclaim their lives
existing communities can become PARTNERS not hosts
what is the potential for
SHARED RESOURCES?

SURVIVAL
- WATER SOURCE
- FOOD DISTRIBUTION
- SHELTER
- SECURITY
- HEALTH SERVICES
- GENDER-RELATED SERVICES
- IMMIGRANT SERVICES
- COUNSELING
- LAUNDRY
- MARKET
- JOBS
- FOOD PRODUCTION
- PRODUCTION OF GOODS

SOCIAL EXCHANGE

CULTURE
- COMMUNAL FOOD PROCESSING
- EDUCATION (CHILDREN)
- EDUCATION (ADULTS)
- PLACES OF WORSHIP
- SPORTS
- ENTERTAINMENT
- COURT OF LAW

INFRASTRUCTURE
- WATER DISTRIBUTION
- WASTE MANAGEMENT
- RENEWABLE FUEL SOURCE
- COMMUNICATIONS
- STORMWATER MANAGEMENT
- SOIL IMPROVEMENT
- STORAGE
what is the TOOLKIT CONCEPT?
CONTINGENCY
- SITE SELECTION
  What are the critical drivers?
  Who are the key players?

EMERGENCY
- REGIONAL CULTURAL RESEARCH
  What is the appropriate planning typology?

TRANSITION
- DEFINE THE ABSORPTION CAPACITY
  What is the potential for shared program & infrastructure?
- TOPOGRAPHY ANALYSIS
  What layout does the topography lend itself to?

SUSTAINABLE
- MEASUREMENT & VERIFICATION
  Impact on host region economy & environment
- LOCAL INTEGRATION
  What new programs and facilities can be implemented to benefit both refugees and host communities?

INTEGRATION
- LOCAL CULTURAL RESEARCH
  What is the local housing pattern?
- PLANNING FOR GROWTH
  Where should public space be reserved for future facility growth?
- ADAPTATION & REUSE
  How can the facilities & infrastructure be reused by the host populations in the case that the refugee population exits?
WHO is the toolkit for?

REFUGEES

PARTNERS

HUMANITARIAN ACTORS

Economics
Cultural Anthropology
Policy
Planning
Environmental Analysis
TESTING THE TOOLKIT

CASE STUDY: MUGOMBWA, RWANDA
Site & regional analysis

LOW ELEVATION PRONE TO FLOODING
DO NOT BUILD SHELTERS

EASILY ACCESSED; PUBLIC FACILITIES AND DISTRIBUTION
TESTING THE TOOLKIT: INTEGRATION PHASE

In 2012, we took part in a mission to an underdeveloped settlement location to test the toolkit to employ future planning strategies for diverse old refugee camps. This was an opportunity to evaluate the transition of a settlement from emergency phase to transition and ultimate integration schemes. We worked closely with both humanitarian actors and refugees themselves to evaluate potential future planning and integration schemes. This was also an opportunity to provide tools in the toolkit to address longer-term community developments.

ORIGINAL CAMP PLAN

FUTURE INTEGRATION SCHEMES
Illuminate Message and Mission

The Great Acceleration

Rowan University Edelman Fossil Park
Illuminate Message and Mission

Rowan University Edelman Fossil Park
Rowan University Edelman Fossil Park
What can a Museum Do?

Sing Sing Prison Museum
Sing Sing Prison Museum
If one accepts the premise that: \textit{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?