The Future of Brownfields

Critical paths for regional redevelopment

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Field Museum,
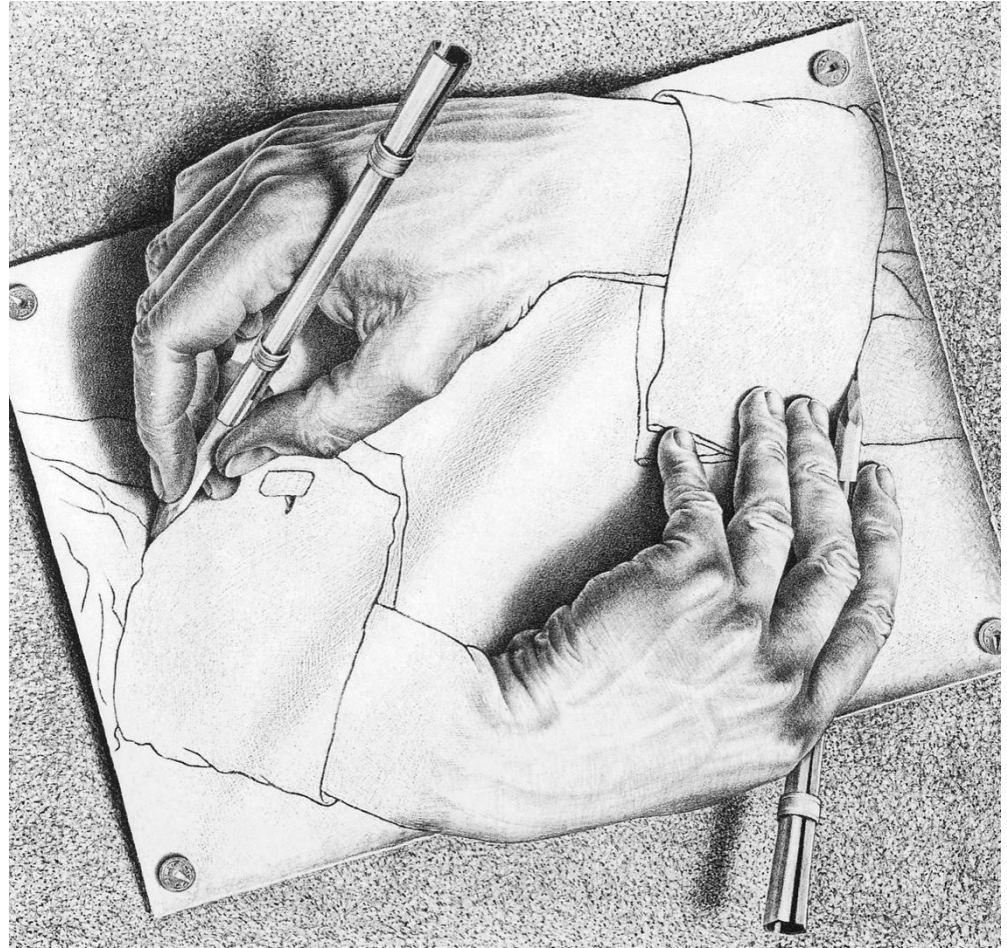July 12th, 2018

The Future of Brownfields
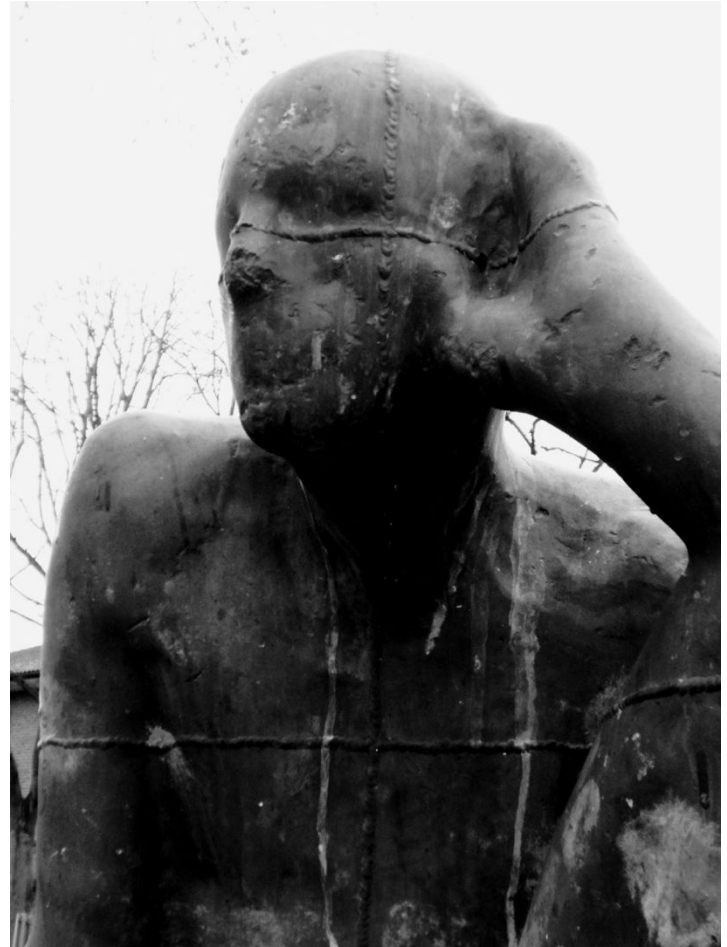
Critical paths for regional redevelopment

Hi!

Tell us more

"When you talk, you are only repeating what you already know. But if you listen, you may learn something new."
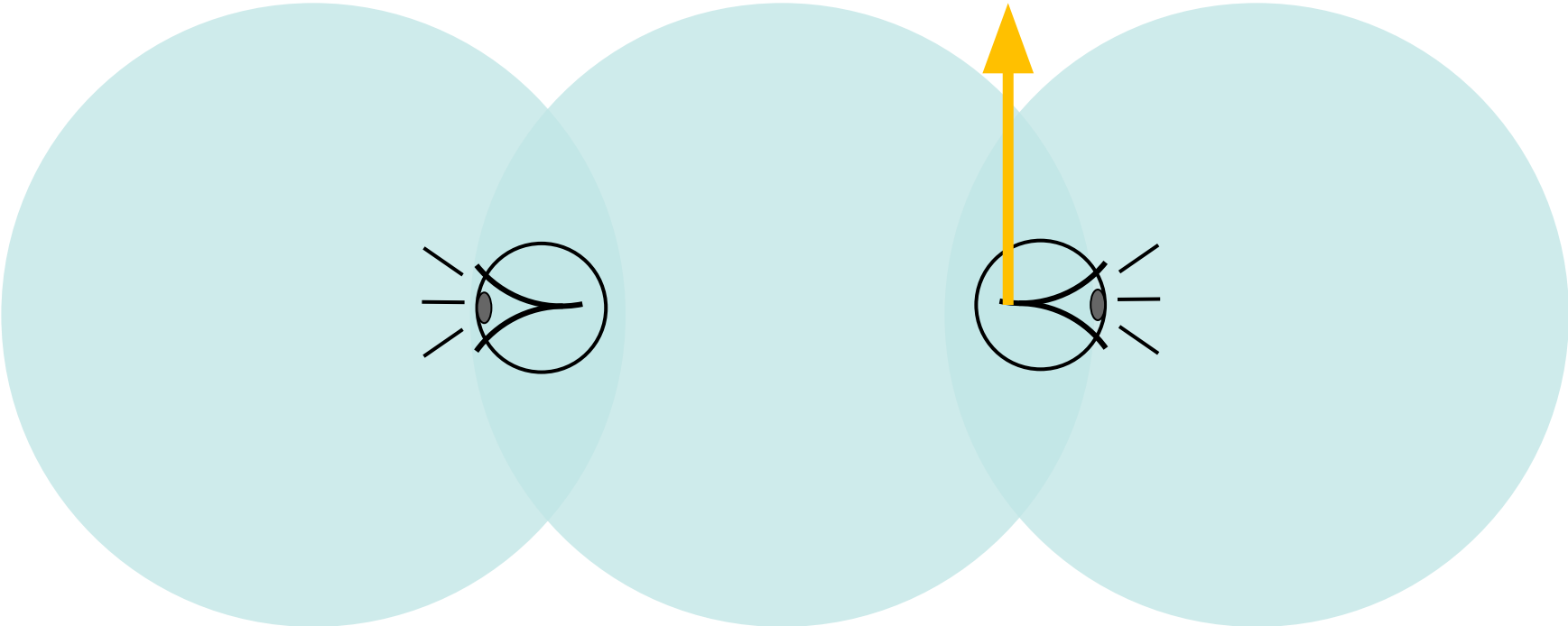
Dalai Lama

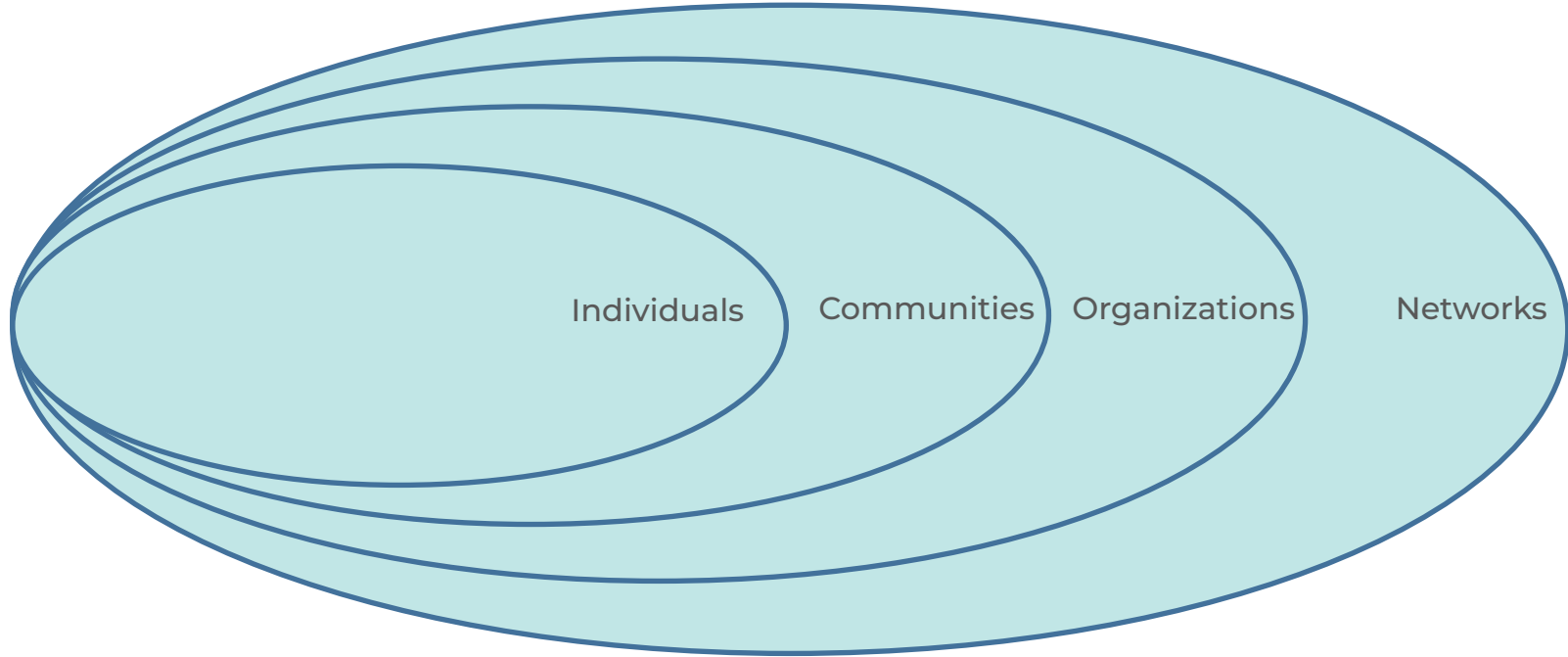# IIT – Institute of Design

About Design

Design

Past

Present

Future

Future approach

Individuals Communities Organizations Networks

Future approach

Individuals Communities Organizations Networks
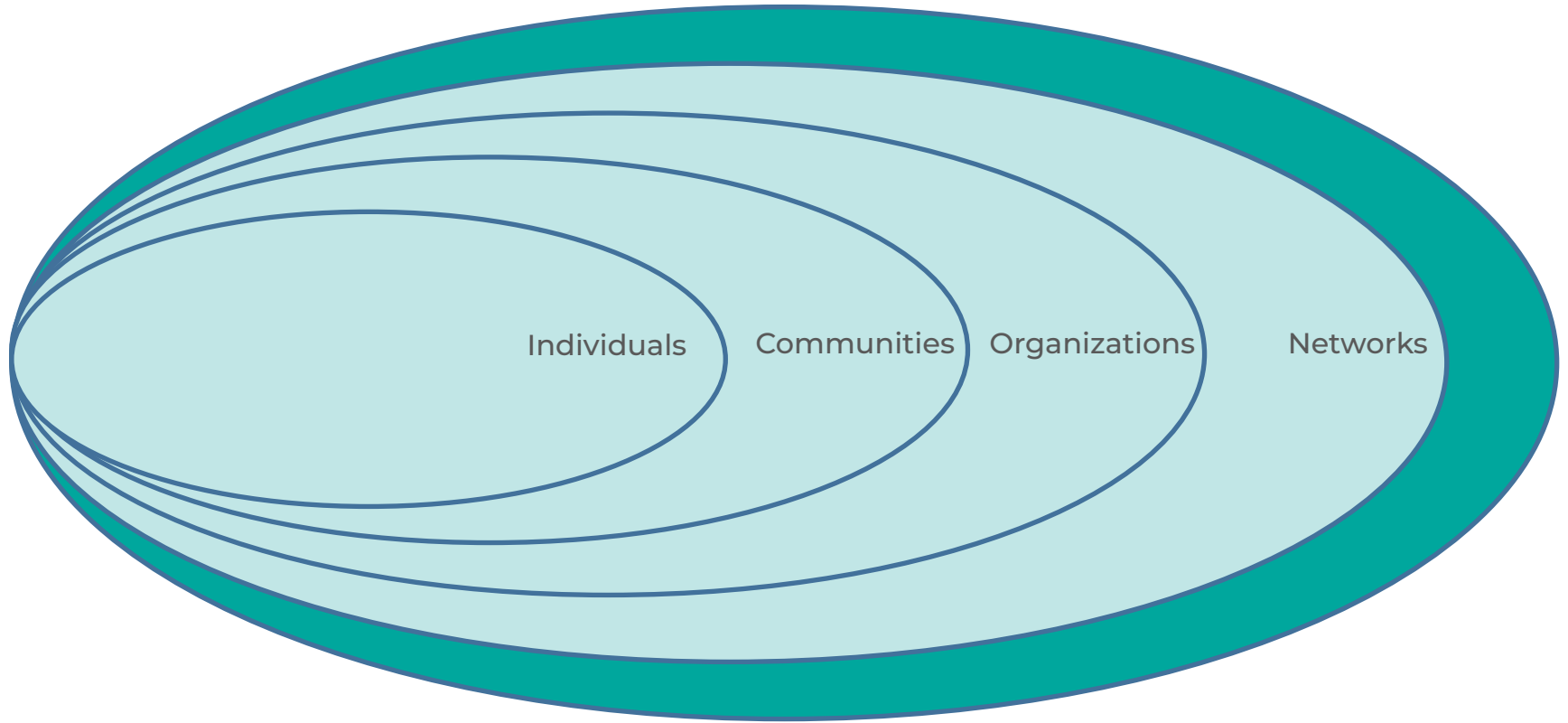
ENVIRONMENT

Calumet region

Calumet region

Michigan
Indiana

Lake Michigan

Cook Co.
Lake Co.
Porter Co.
LaPorte Co.

Illinois Indiana

0   3.75   7.5   15
Miles

Protected Lands
Rivers
State Boundary
Municipalities
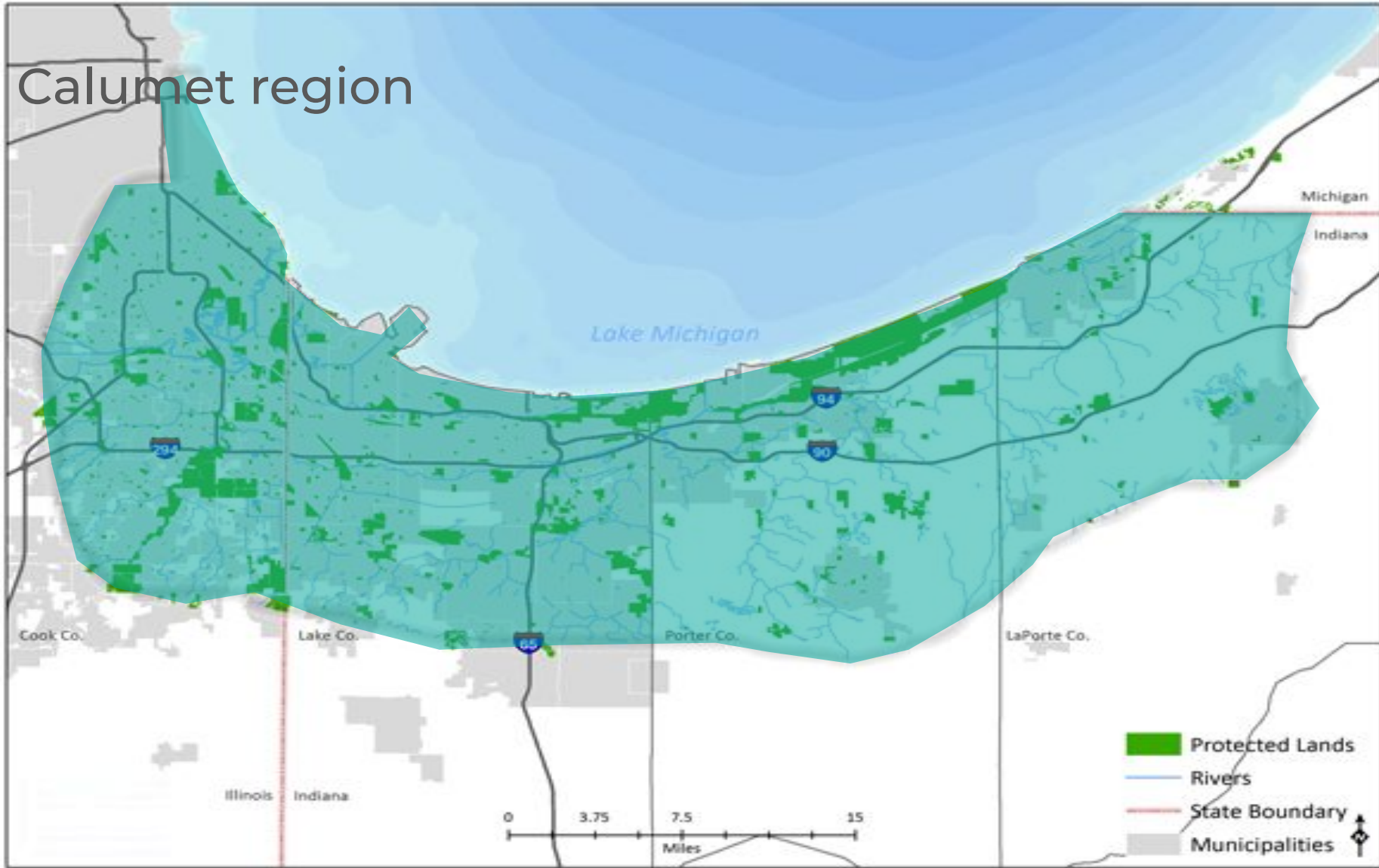
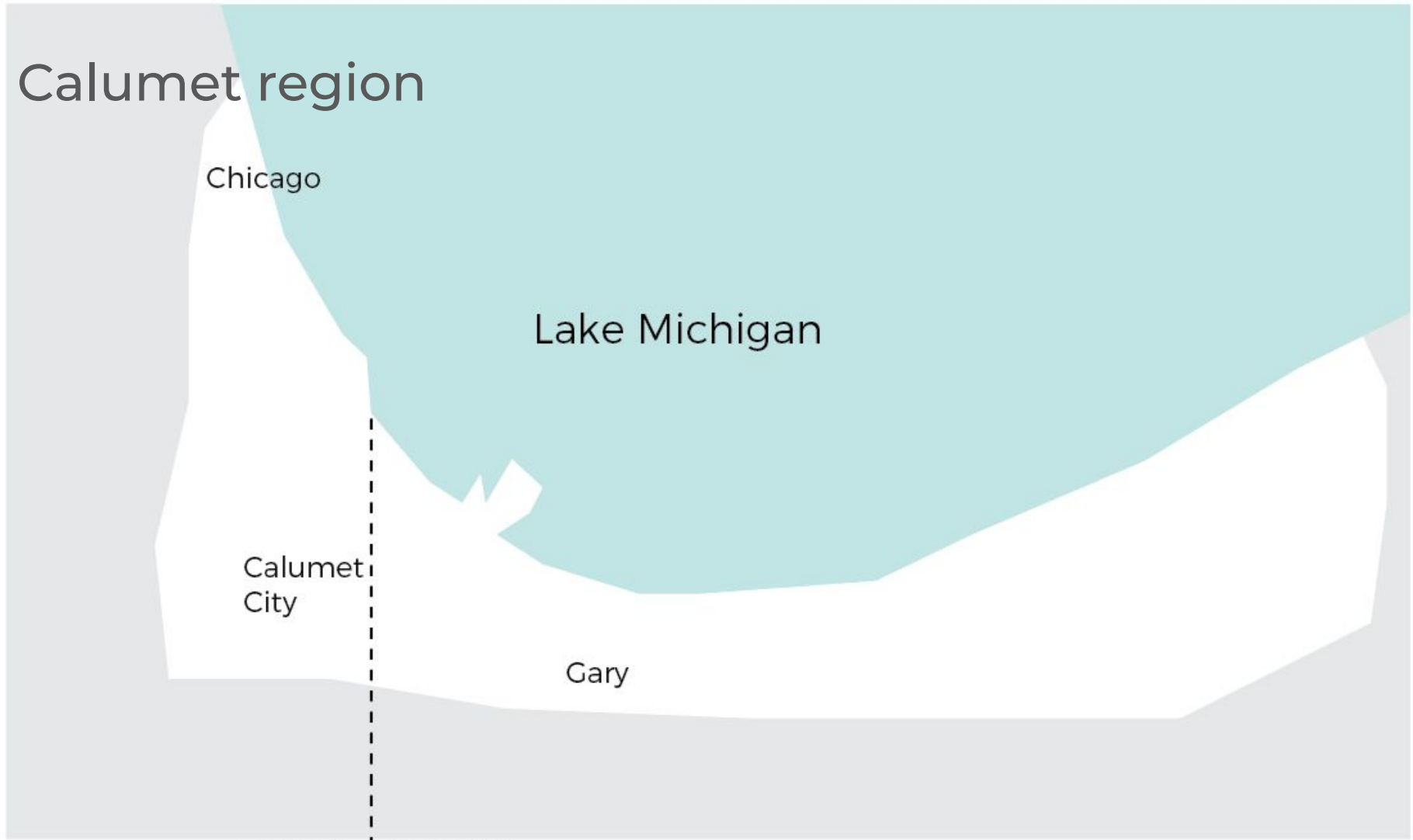# Calumet region

Chicago

Lake Michigan

Calumet City

Gary

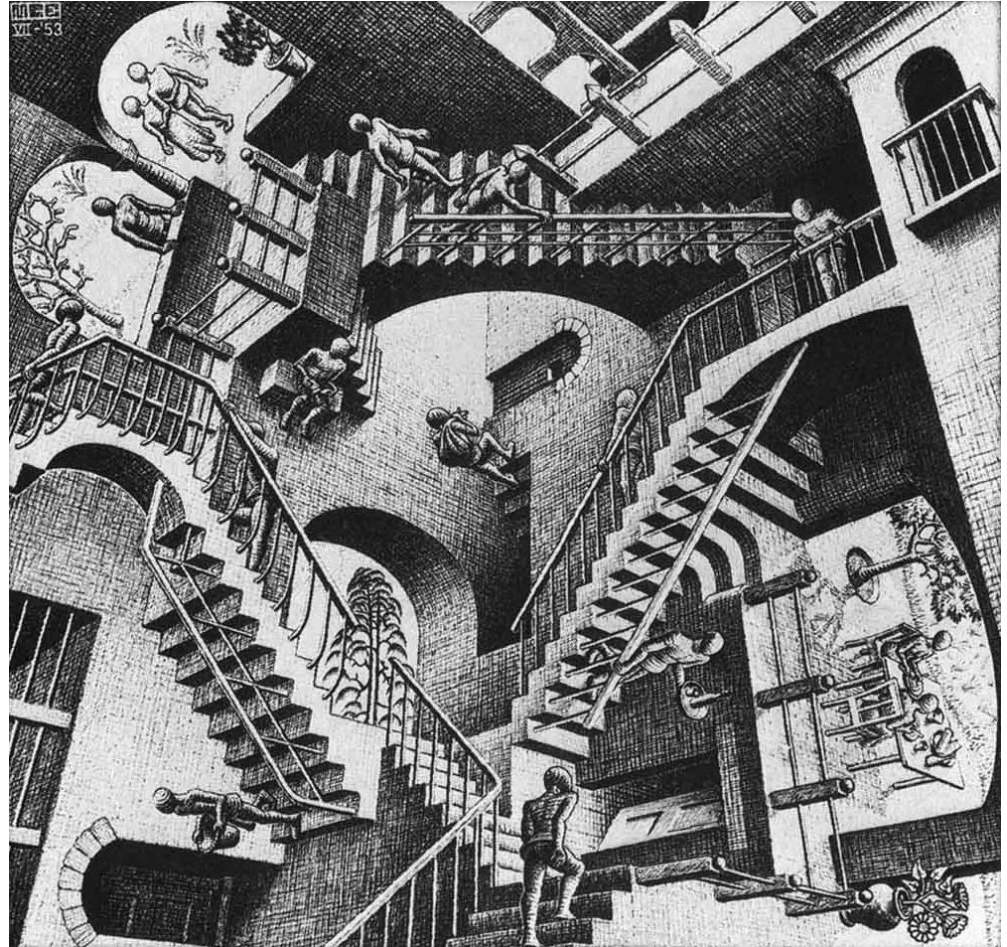ILLINOIS | INDIANA

Which path?

Calumet region

Chicago

Lake Michigan

Calumet City

Gary

ILLINOIS | INDIANA
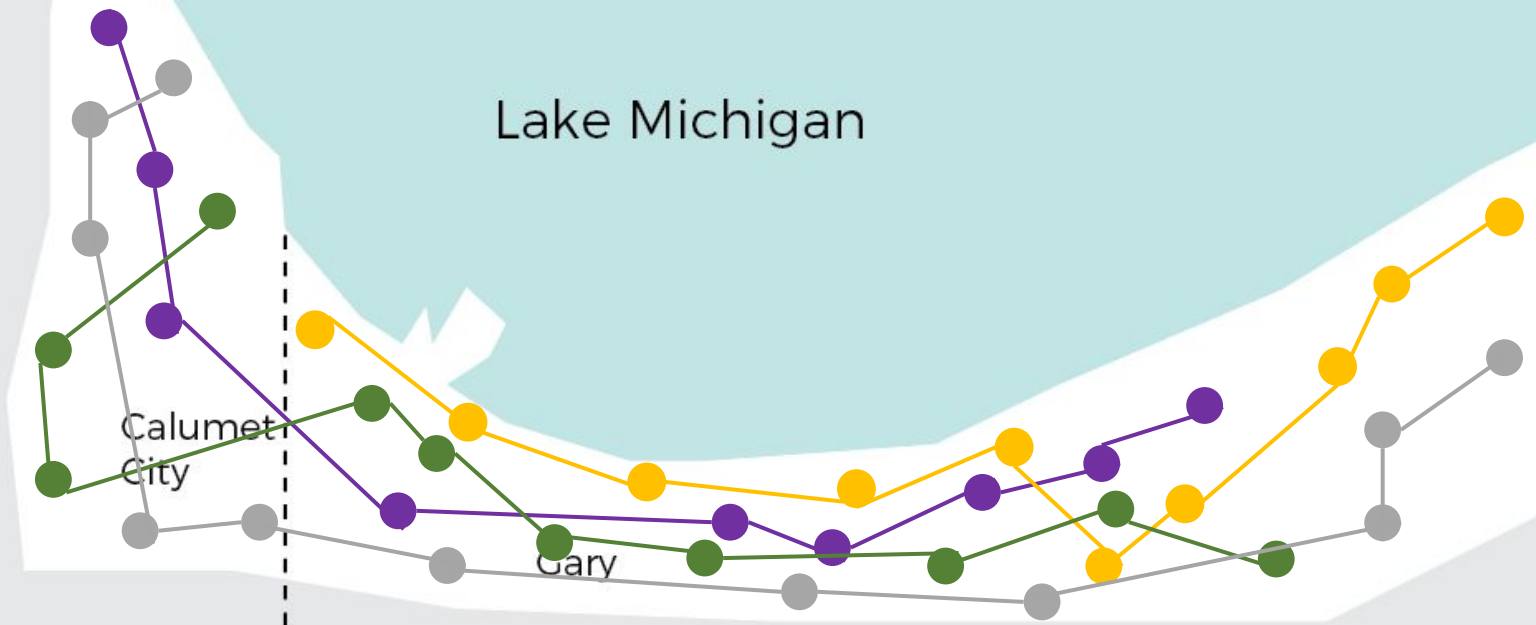
What is a

brownfield

?

A brownfield is a property on which expansion, redevelopment, or reuse may be complicated by the presence, or perceived presence, of contamination.

Former landfills

Vacant residential buildings

Abandoned industrial sites

Contaminated natural areas

How would you go about?

Knowledge integration

Brownfields

Macro

Strategies

Meso

Operations

Micro

Tatics

Brownfields are an adaptive system

Strategies for restoring local economies through brownfields redevelopment

INVOLVE RESIDENTS

Decentralize governance in neighborhood

Local resident involvement in property maintenance, land ownership and community planning leads to an increase in safety and neighborhood value.

LEVERAGE ASSETS

Generate value from blighted sites

Blighted sites can bring value to the region when considering the potential for the materials available on the site, its location, or its historic significance

INTEGRATE INFRASTRUCTURE

Connect physical and digital components

The integration of hard and soft infrastructures is critical for the adaptability of the system, and for understanding the multiplicity of resources through data.

EMPOWER SCIENCE

Connect the community to the environment

New technologies provide means for tracking of the environment, building understanding amongst scientists and local residents about the interaction between humans and natural ecosystems.

STRENGTHEN LOCAL ECONOMY

Absorb external investments and scale existing efforts

By investing resources in programs that connect local residents to the region, solutions can support, retain and grow intellectual and productive capital in the region.

Prototyping infrastructures

Integrating strategies

Mini Calumet:

a simulation tool for reconnecting local youth population with the environment through educational programs.

Flag Calumet:

a modular installation structured on the intersection between art + science + sensor technology that serves as a facilitator between local residents and the environment

Value Calumet:

a digital platform for civic empowerment that mediates community-based organization efforts to optimize local resources.