RELOCATED ROOTS:
an architectural research project
integrating urban agriculture

THE PREMISE
How can we use an increasingly urbanizing society
as an opportunity to engage and bring people together
while addressing the many problems that come with
living in a dense city? A solution is to integrate urban
culture and agriculture to bring community together.

THE CONTEXT
Cincinnati residents. Along the highway pictured (left) is a pedestrian trail which
takes you into the downtown district. The cascading roofs act as an introduction into the
district called "Over the Rhine" which
became known as, "Porkopolis" for its
introduction of steam boats on the Ohio
and relatively simple installation.

THE SITE
One of the biggest opportunities for
the design is to relate to existing
architecture while at the same time
reframing the streetscape. This is
important to make the site feel like a
natural extension to the surrounding area
that is both an asset to the community and an
curse. The Relocated Roots tower
will be a signature building that
serves as a gateway to the community and
will inform the user of the project's
message of sustainable urban farming.

THE VERTICAL FARM
To reflect the vertical farm concept,
this design provides an innovative
method to produce fresh produce.
Vertical farming reduces
land and resources as well.

COMMUNITY-FOCUSED
The Cincinnati location will be the flagship facility for Gotham Greens, first
in a series of a dozen or more farms across the US. It is positioned adjacent to a
pedestrian square to encourage visibility
and integrate functionality with a
DEMO Structure.

SUSTAINABILITY DRIVEN
Greenhouse glazing
ETFE is a translucent polymer sheeting and is used to wrap the multi-story
geodesic domes and germination spaces. Instead of glass, ethylene tetrafluoroethylene
transmits more light than glass.

CONCLUSION
Not only does Relocated Roots serve the community, but the design itself generates
a clear control of the internal environment and reduces the amount of energy
required to function. This system results in a significant decrease in the overall cost
of operation and maintenance. The ability to analyze, and make
adjustments suits the design.

LEVEL ONE
LEVEL TWO
LEVEL THREE
LEVEL FOUR
LEVEL FIVE + SIX
LEVEL EIGHT

COMMUNITY AND COMMITMENT
An existing vertical farm called "Sky Greens" provides an excellent
precedent design of a hydroponic
vertical farm. The concept has been
implemented in many communities around the world
and in Europe.

EDUCATION AND EMPLOYMENT
The educational potential of the project will
be aligned with the mission of Gotham Greens. Students will
be trained to grow their own food in the vertical farm
and learn about sustainable agriculture.

INVESTMENT AND INNOVATION
The German Immigrants' booming
district called "Over the Rhine" which
from broken window theory and likely
with insufficient funds for restoration.

The German Immigrants also
became known as, "Porkopolis" for its
introduction of steam boats on the Ohio
in 1792. Cincinnati grew in status from village to
city in only 17 years: largely due to the
German Immigrants' booming
district called "Over the Rhine" which

THEORY AND PRACTICE
Cincinnati today maintains its status
with the popularity of the suburbs,
halt during 1920's Prohibition. Almost
A food desert is a region where there is no access to
fresh food for residents amid the food desert surrounding Cincinnati.

The Relocated Roots mission is to provide fresh produce
and an emphasis on sustainable practices,
and high levels of obesity. With community-focused
Architecture can revitalize a neighborhood.
Investment for the client, Gotham Greens. It aims
Relocated Roots attempts to provide a design solution