UConn’s Community Research & Design Collaborative (CRDC) is the umbrella organization for the outreach work of the landscape architecture faculty. Our mission is to be a regional leader in sustainable planning and design. We help our client’s plan and design affordable, equitable, and ecologically healthy environments. Our mission is accomplished by providing our client’s with objective, multi-disciplinary, state-of-the-art planning and design expertise. We promote and encourage academic-based collaborative research with an emphasis on “real world” projects as they apply to sustainable development.

For additional information, please see:
crduconn.wordpress.com
peteprojects.wordpress.com
or email Peter:
peter.miniutti@uconn.edu
1. UConn’s Program of Landscape Architecture/CRDC
   - Role on this Project – Consultant to CIRCA
   - Locational scope of project

2. Maps produced:
   - Topography & flooding projections (2)
   - Town level resource maps (3)
   - Shared risks (1)

3. Questions & Comments
1. **UConn’s Program of Landscape Architecture/CRDC**
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3. **Questions & Comments**
Overview of UConn’s CRDC

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- **Our mission is to be a regional leader in sustainable planning and design.** We help our client’s plan and design affordable, equitable, and ecologically healthy environments.

- Our mission is accomplished by **providing our client’s with objective, multi-disciplinary, state-of-the-art planning and design expertise.**

- **We promote and encourage academic-based collaborative research (service learning)** with an emphasis on “real world” projects as they apply to sustainable development.
The “Design Process”

1. Program
2. Inventory
3. Analysis
4. Planning/Design

Mapping

Inventory and analysis of all pertinent existing information, including town, state, and federal mapping; special interest groups; and previous studies. (both from the private and public sector).
What is the most efficient and effective method to mitigate the negative consequences of water rise while improving the quality of life for all living things (humans, flora & fauna)?
State of Connecticut:

- 2 counties – Fairfield & New Haven
- 50 Towns/15 on Sound
- 3 Planning agencies
- 3 projects
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3. Questions & Comments
Map FEMA & CIRCA data on sea level rise and produce maps to clearly communicate the affects of projected water rise over time in New Haven and Fairfield Counties.

Create Town Level Resource Maps to be used by designers (landscape architects, engineers, etc.), decision makers and citizens to understand the context of proposed infrastructure improvements. The goal is to mitigate the negative effects of water rise while improving the overall quality of life of all living things.

Areas of Shared Risk
Topography

- Topography/Elevation Map
- Projected Flooding Map
- Ecological Systems Map
- Structures & Roadways Map
- Land Uses & Social Characteristics Map
- Areas of Shared Risk Map & Data

New Haven - Topography
Flood Projections

Topography/Elevation Map

Projected Flooding Map

Ecological Systems Map

Structures & Roadways Map

Land Uses & Social Characteristics Map

Areas of Shared Risk Map & Data

New Haven - Flooding Projections
Flood Projections

Based on CIRCA 100 year plus 20 inches projections:

**Watersheds**
- Approximately 2193.33 acres of the watersheds would be impacted (17.92%).
- Most impacted Subregion Watershed – South Central Shoreline (912.59 acres/ 21.75%) and Quinnipiac River (736.82 acres/ 29.34%)

**Infrastructure**
- A total of 1678 buildings would be under water and 116.68 acres of roadway areas would be impacted by flooding.

**Vulnerability and Opportunity**
- Approximately 695.45 acres are socially vulnerable according to the Social Vulnerability Index (CDC)
- An estimated 570.48 acres are areas identified as Opportunity Zones.
Ecological Systems

Topography/Elevation Map

Projected Flooding Map

Ecological Systems Map

Structures & Roadways Map

Land Uses & Social Characteristics Map

Areas of Shared Risk Map & Data

New Haven - Ecological Systems
Ecological Systems
Structures & Roadways

Legend
- Town Boundary
- Building
- Road
- Waterbody
- FEMA 100-year Flood Area
- CIRCA 100-year Flood Area plus 20 inch
- CIRCA Low-lying Area
- Vulnerable Buildings based on FEMA
- Vulnerable Buildings based on CIRCA
- "Nine Square" Area
- Key Buildings & Uses
Land Uses & Social Characteristics

- Topography/Elevation Map
- Projected Flooding Map
- Ecological Systems Map
- Structures & Roadways Map
- Land Uses & Social Characteristics Map
- Areas of Shared Risk Map & Data

New Haven - Land Uses and Social Characteristics

Legend:
- Town Boundary
- Water
- Coastal Management Zone
- Waterfront Zone
- Intensive Use Zones
- Strong University Influence Overlay
- Strong University Influence
- New Haven Area

Scale: 0.5, 1.0, 1.5, 2.0, 2.5 miles

[Map showing various land use and social characteristics areas with specific data and legend]
Land Uses & Social Characteristics
Shared Risk Zones

- Topography/Elevation Map
- Projected Flooding Map
- Ecological Systems Map
- Structures & Roadways Map
- Land Uses & Social Characteristics Map

Areas of Shared Risk Map & Data

New Haven - Shared Risk Area

Legend:
- Town Boundary
- Building
- Road
- Waterbody
- FEMA 100-year Flood Area plus 2 ft high
- FEMA 100-year Flood Area
- Inundated Buildings based on FEMA
- Inundated Buildings based on FEMA

1

2

3
Shared Risk Zones

Legend:
- **Town Boundary**
- **Building**
- **Road**
- **Waterbody**
- **FEMA 100-year Flood Area**
- **CIRCA 100-year Flood Area plus 20 inch**
- **CIRCA Low-lying Area**
- **Vulnerable Buildings based on FEMA**
- **Vulnerable Buildings based on CIRCA**
- **“Nine Square” Area**

Inland Industrial/Commercial Area
Neighborhood: Long Wharf

Riverfront Industrial/Commercial Area
Neighborhood: Long Wharf, Wooster Square, Fair Haven, An
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