# The Kingston Loop

2016

## **SITE CONSTRAINS**

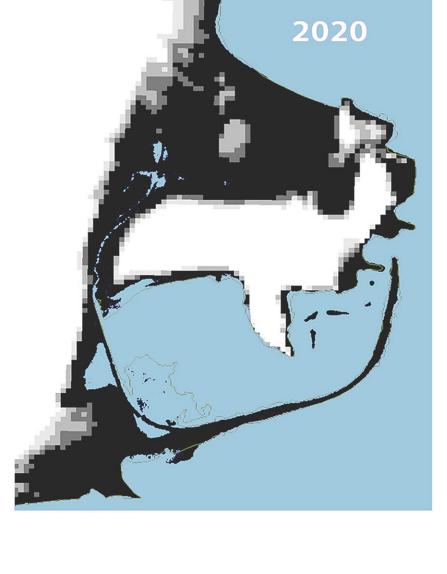
Flooding/ sea level raise is one of the most serious problems in Kingston which may badly threat human property and natural resource. Based on the Kingston flood map, onethird of the Kingston Park will be flooded by water after 10 years. In 2050, the width of rail trail will reduce to half which is losing functionality.

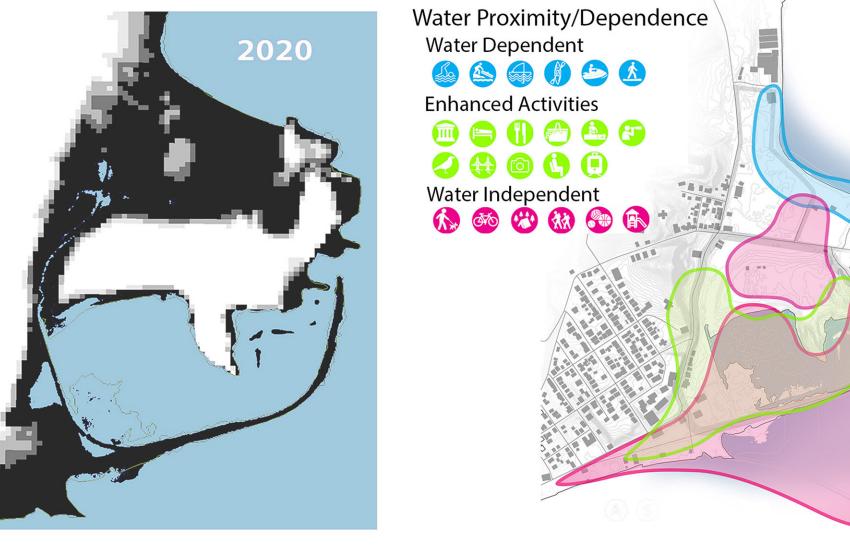
The Kingston Point rail trail will be totally immersed by water in 2080, and then in that time, the protective history lighthouse will also face a seriously flooding threaten.

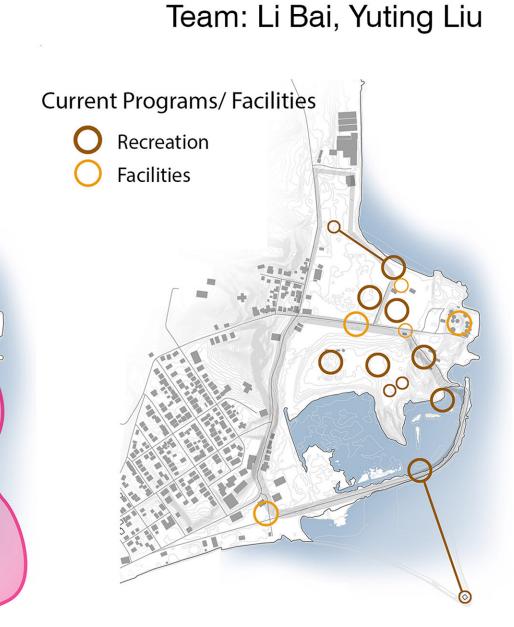
Not only the flood and Kingston's low shore line problem, too much lowland catchments also erode the inland soil. Catchment areas will collect a great amount of run off during raining days and then the storm water will transfer these regular grassland or forest to wetland environment.

#### Flood and Sea Level Rise

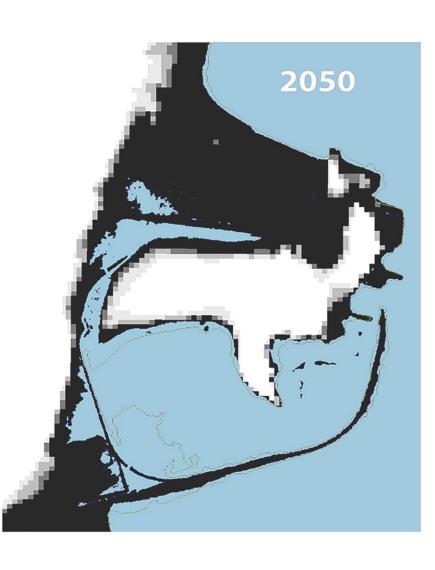
- Mean high water level
- 10 year flood
- 20 year flood 50 year flood
- 100 year flood

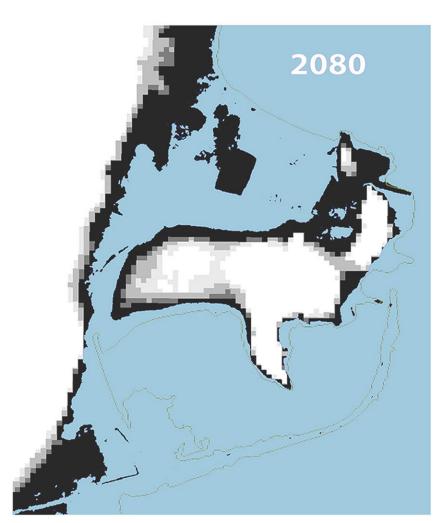


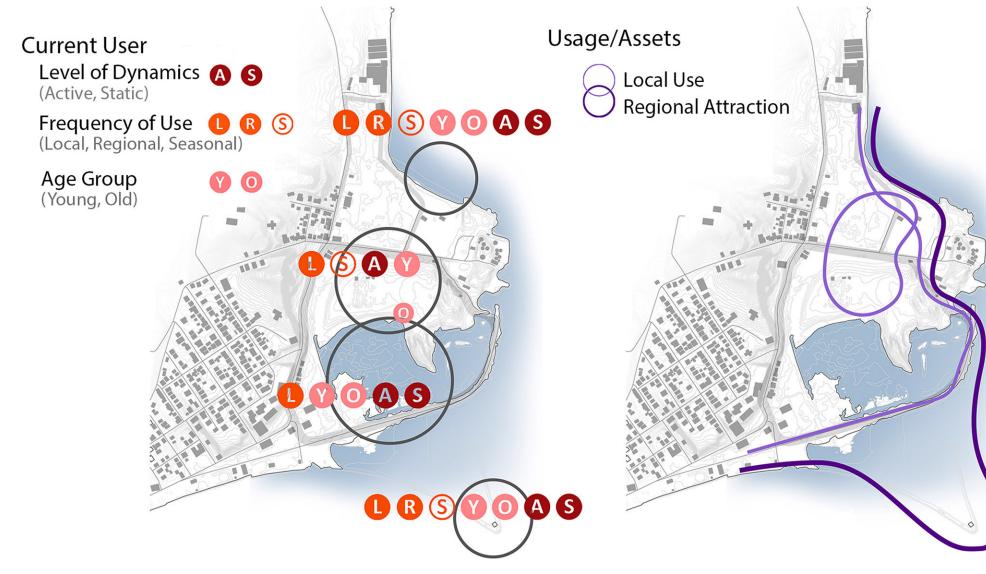




LA 6020 Spring 2017



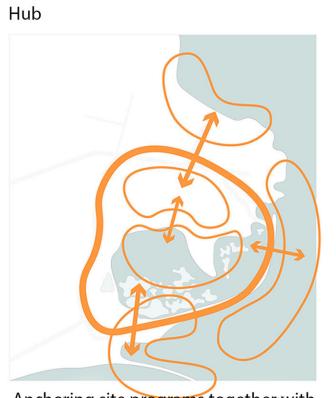




#### **DESIGN CONCEPT**

**Cultural Loop:** (looping structures and facilities)

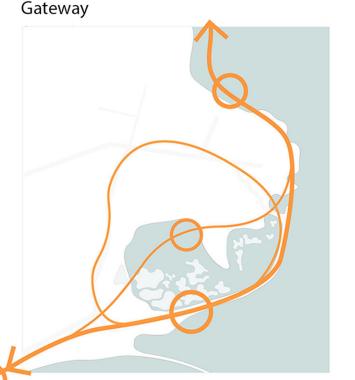
- Site: Meaningful and functional hub, which provides a historical and recreational sense of space
- Local: **Connecting** places and programs
- Regional: Kingston gateway



Anchoring site programs together with enhanced connectivity. Reducing the impact of vehicular circulation and promoting pedestrian friendly infrastructure



Connecting Kingston Point with the rest of the city through East Strand Street and Delaware Avenue. Connection to East Strand is key to the revitalization of historic waterfront



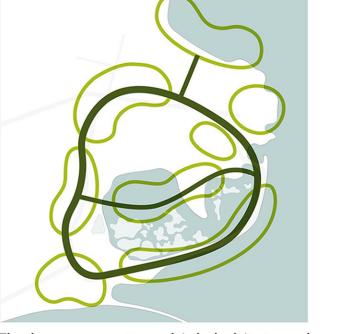
On the regional scale, Kingston Point attracts tourists for its scenic waterfront and historic places. As the gateway of city of Kingston, this park is to be connected to regional bike trails and other recreational resources

### **ECO Loop:** (wetlands, habitats, adaptive system and sustainable infrastructures)

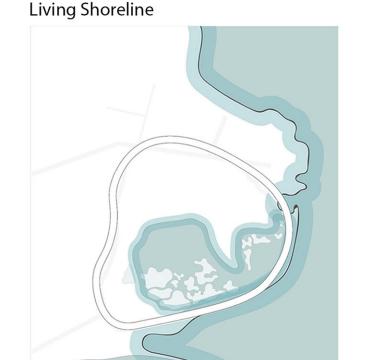
- Experiencing Loop: A loop to experience varied ecological environment
- Living Shorelines: Sea level raise **adaptation** strategy, habitats for migration species - Keeping Eco healthy: Wildlife habitats **restoration**, green infrastructures development



**Eco- Experience** 



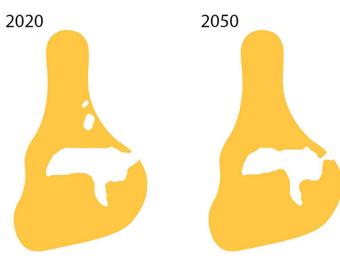
The loop connects multiple habitats and green infrastructures at Kingston Point. By walking along the loop, visitors can observe and experience the diversity of ecological environment of the site



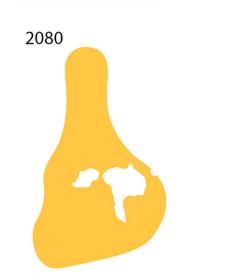
This eco loop stabilizes the site spatially. While facing the serious land erosion and loss, the loop remains an active and stable feature to prevent the integrity of site from falling apart

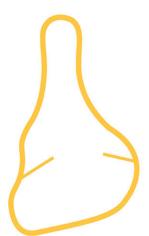


Around the loop, there are strong opportunities to help improving and maintaining the natural health of the site and its context







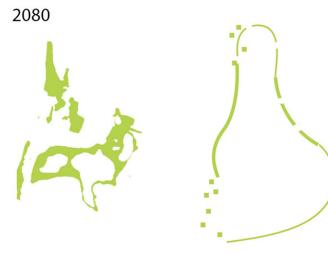




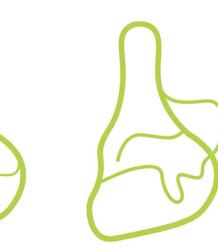










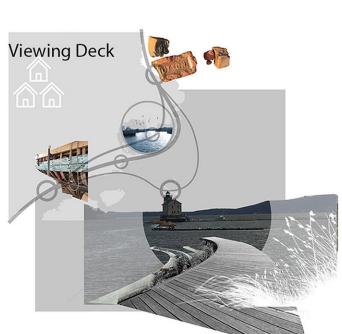


## **DESIGN STRATEGY**

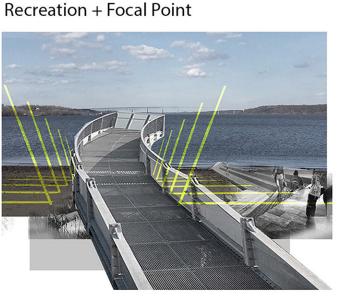
Sidewalk+Trail



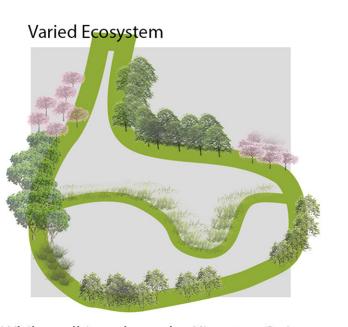
Enhanced pedestrian accessibility promotes the walkability of Kingston Points Park as a recreation hub. Trails, connecting walks and bridging facilities can help enhance accessibility.



Views are important experiences. The loop should connect as many cultural assets as possible so that visitors can easily feel the charm of Kingston City. Viewing decks and riverfront walks can bring views to the loop.



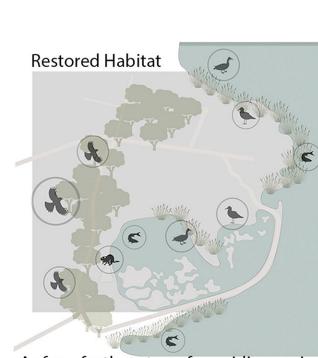
Other design features such as lighting and sculptural installation can provide focal points along the loop. These installation can be used as educational tools. For example lighting feature indicates the change of sea level.



While walking along the Kingston Point Park trail, our goal is to provide multiple ecosystem types for visitors and animal species. Diverse ecosystems provide different ecological experiences and also provide habitats for different kind of wild life species



Kingston Point is threating by a serious flooding problem and erosion issue. We purpose to have multiple natural living shoreline strategies to prevent the damage causing by sea level raise, and as meanwhile protecting and stabling the riverfront land



As for a further step of providing varied ecosystems in the Kingston Point Park, we want to enhance the existing animal habitats. Our goal is to improve these natural habitats to be more adaptable and resource-rich. The new natural landscape will attract more local

