

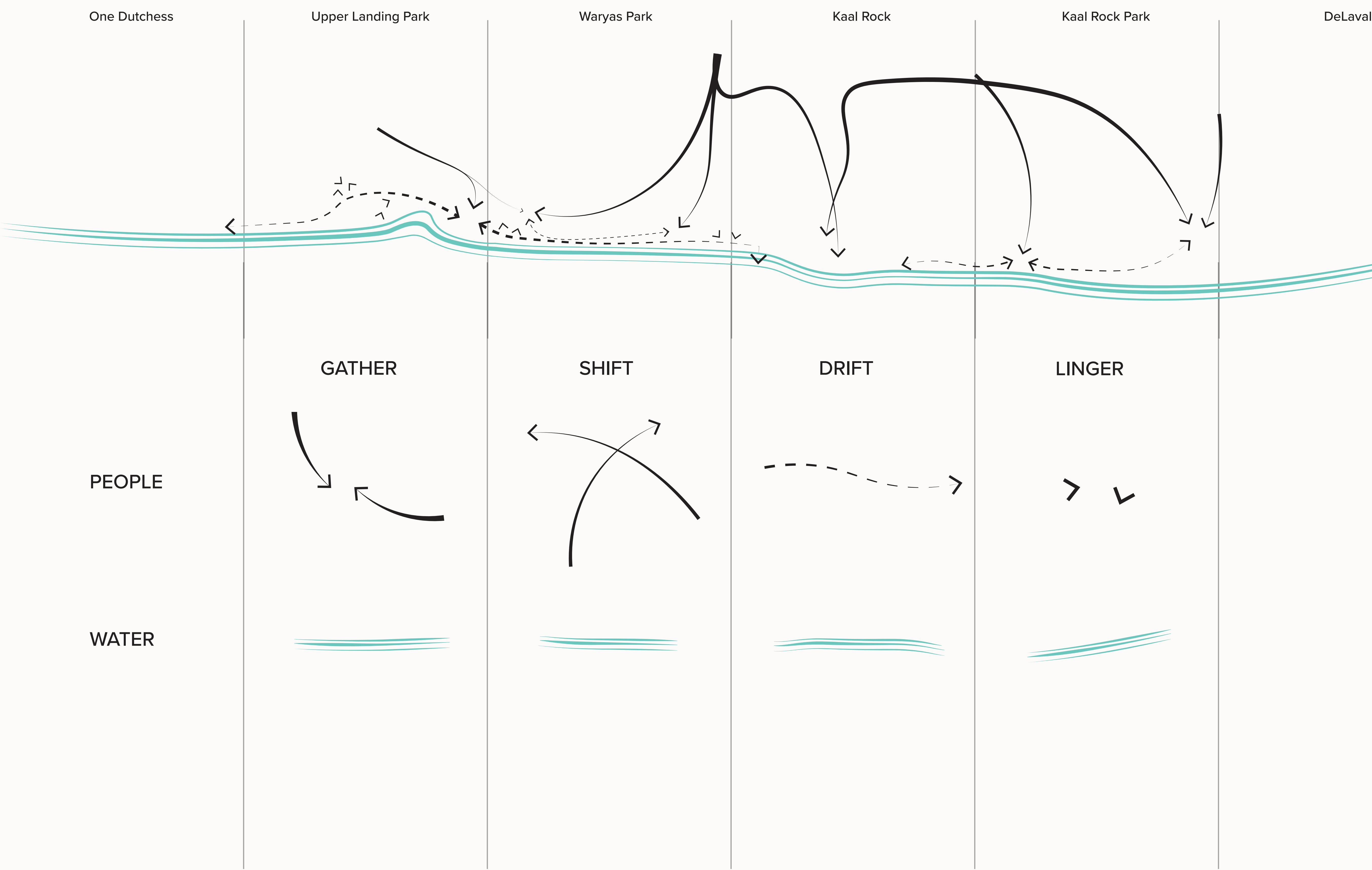
Intertwining Poughkeepsie and its River

Kelly Zhan // CAD Fall 2021

This project amplifies what people love about the waterfront while embracing, instead of retreating, from the changing climate conditions and river forces of the Hudson to create a unified and intertwined park for the people of Poughkeepsie and the river. To further push and create a fonder attachment to the river, this project hopes to strengthen the physical, cultural, and spiritual connection to the Hudson by embracing climate change projections and enhancing community values of the waterfront.

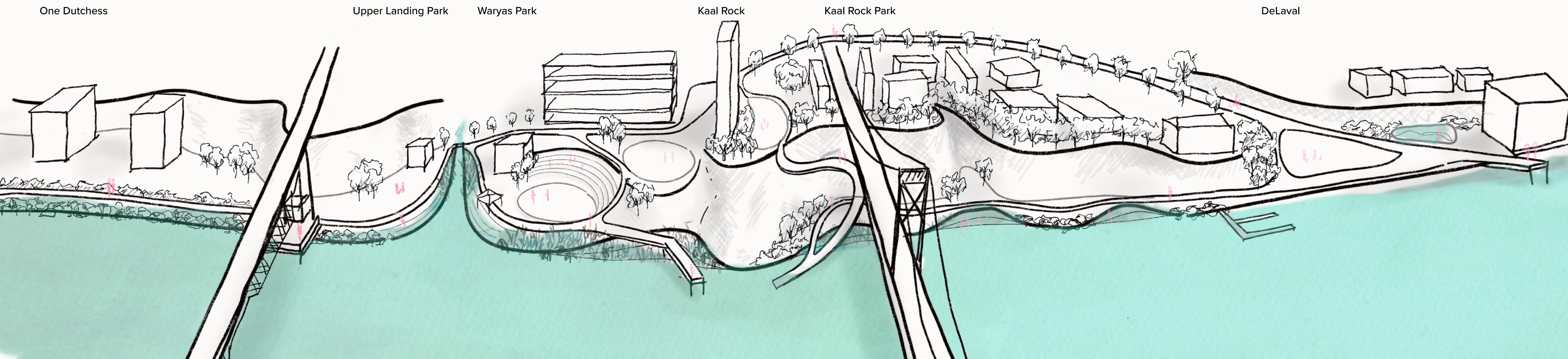
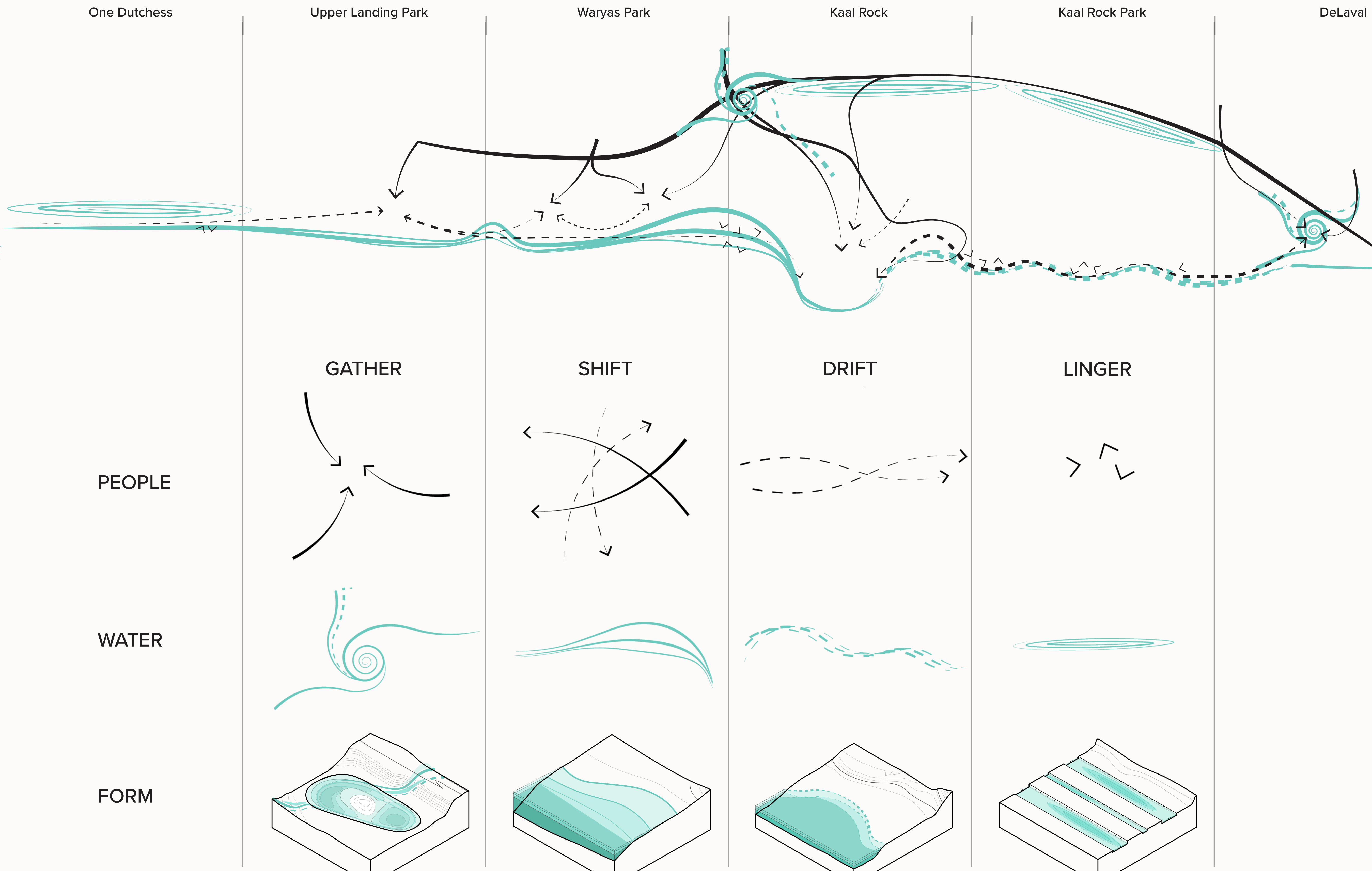
Existing Flows

This diagram maps the movement of people based on site visit observations and community discussions. There were consistent patterns of gathering and shifting that were characterized by collective, lively, and programmed events. People also used the areas directly adjacent to the shoreline for drifting, as in slow travel, or for lingering, where they stayed and watched people and the river flow past. In all these spaces of diverse movement, the flow of the water remained constant, usually limited by the rigid and hard shoreline.



Proposed Flows

By viewing water flows in a similar fashion to the movement of people, there are possibilities for meaningful intersections and co-existences between the two. In the proposed design, people movements are enhanced by the dynamic qualities of the river which respond to rising sea levels and flooding events. Water can pool in the same way people gather, water levels are encouraged to shift, water can be collected and slowed, and finally water can be retained like people linger. Different forms will be created to encourage these movements of water.





Phasing

2020s: Mitigate

In the 2020s, the focus will be along the shoreline, where the waterfront is at most risk to sea level rise in the future, and to allow for nature-based mitigation to be established over time.

2050s: Connect

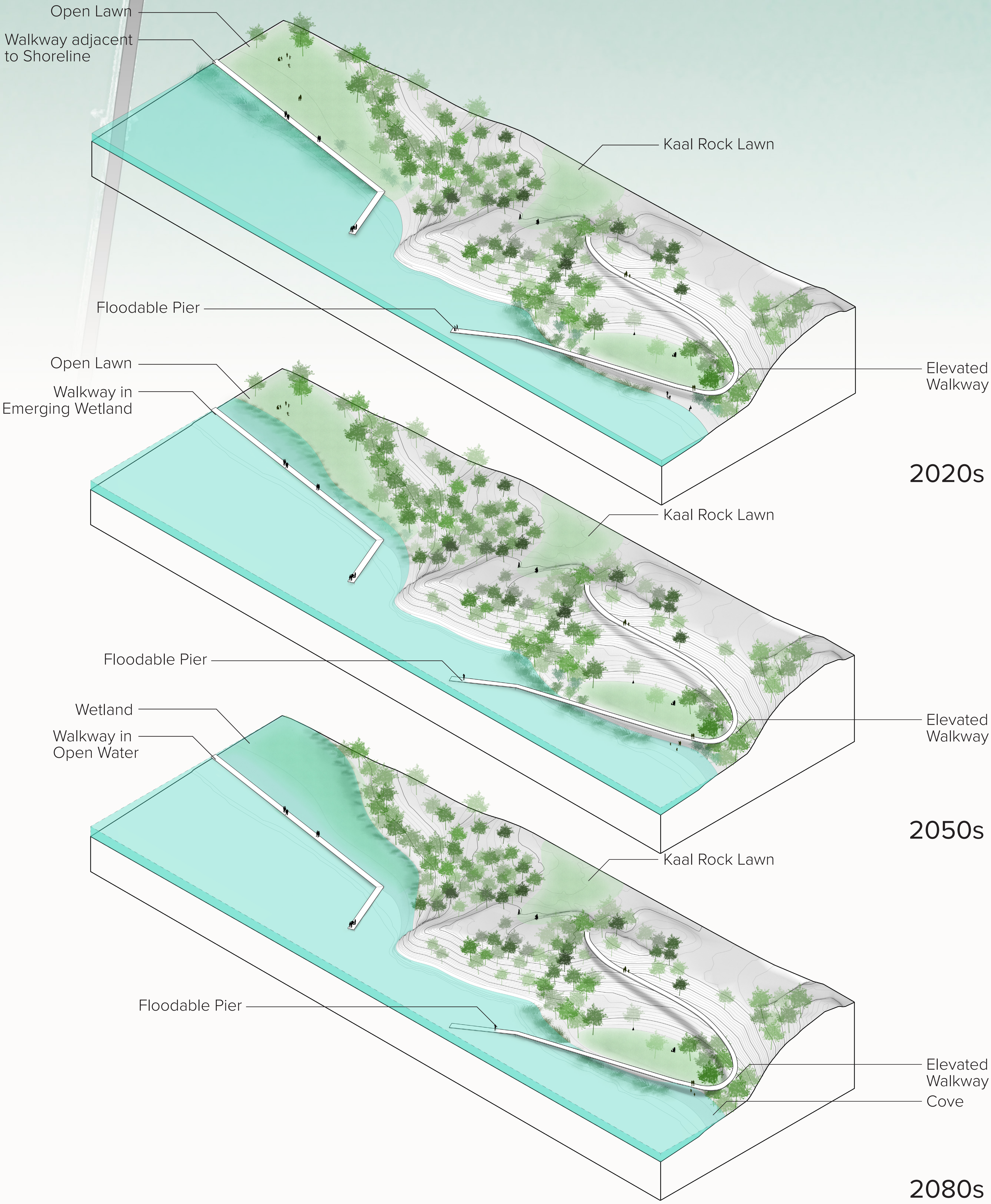
In the 2050s, the focus will be on a perpendicular network of paths that will bring about necessary connections between the city of Poughkeepsie and the Hudson River to create a more holistic waterfront.

2080s: Reinforce

By the 2080s, the focus will be on the east end of the waterfront with the goal to reinforce the pre-established climate strategies using nature-based solutions, stormwater mitigation, and supporting connections across the waterfront.

Waryas Park & Kaal Rock Park

Shifting water levels and drifting water typologies are applied in these spaces to strengthen the relationships of paths, programming, and people with the river over time. In both spaces, people's experience of the river develops and deepens; it shapes how they can physically exist on land and water, and it forces people to notice the effects of climate change.





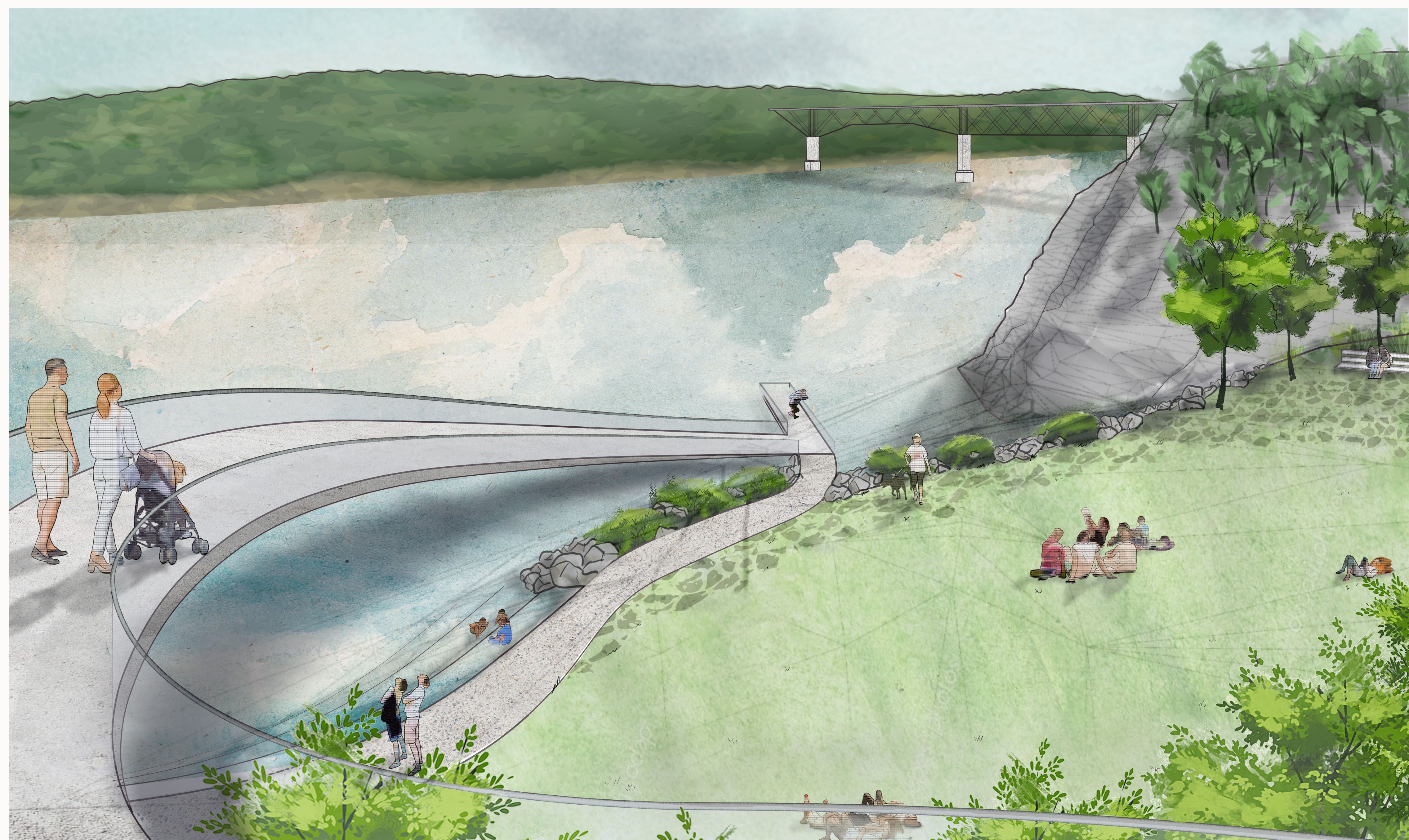
Waryas Park 2020s

At Waryas, there is a large gathering lawn in the early phases. Over time, the river slowly seeps into the lawn, replacing it with new wetland habitat. Since inundation of this area is encouraged, the disconnected piers will stick out further out into the river, allowing people to walk further out into the water and illustrating how dramatic the water conditions can be.



Kaal Rock & Main Street Plaza 2050s

In the 2050s, the Main Street Plaza will be constructed to strengthen the connections between the city of Poughkeepsie and the waterfront. It gathers water, with rain gardens, and people, as an activated space.



Kaal Rock Park 2080s

At Kaal Rock Park, an elevated walkway brings people from the top of Kaal Rock directly into the water and allows people to cross over the water overhead. By the 2080s, the cove will deepened dramatically due to sea level rise. The cove captures and slows water, so people can physically drift in the protected areas.