



THE STRATA

A NEW HEADQUARTERS FOR WATER KNOWLEDGE,
CARVED BY THE FORCES THAT SHAPE THE NILE.

Design Concept

THE EROSION CYCLE

FROM ROCK TO KNOWLEDGE
A DESIGN INSPIRED BY THE NILE'S NATURAL PROCESS

1. EROSION

HEADQUARTERS (ANCIENT ROCK)

Water does not erase the past. It carves it. Through continuous erosion, hidden layers are revealed and transformed. The Headquarters embodies this altered landscape—a pre-existing mass reshaped by time.

- AUTHORITY
- MEMORY
- LEGACY
- REVEALED LAYERS

2. TRANSPORT

RESEARCH WING (SEDIMENT IN MOTION)

Once released, sediment begins its journey. Carried by the river's energy, it moves, exchanges, and transforms. The Research Wing embodies transport—a dynamic environment where knowledge is continuously generated, exchanged, and advanced.

- MOVEMENT
- EXCHANGE
- DISCOVERY
- FLOW

3. DEPOSITION

PUBLIC WING (ACCUMULATION)

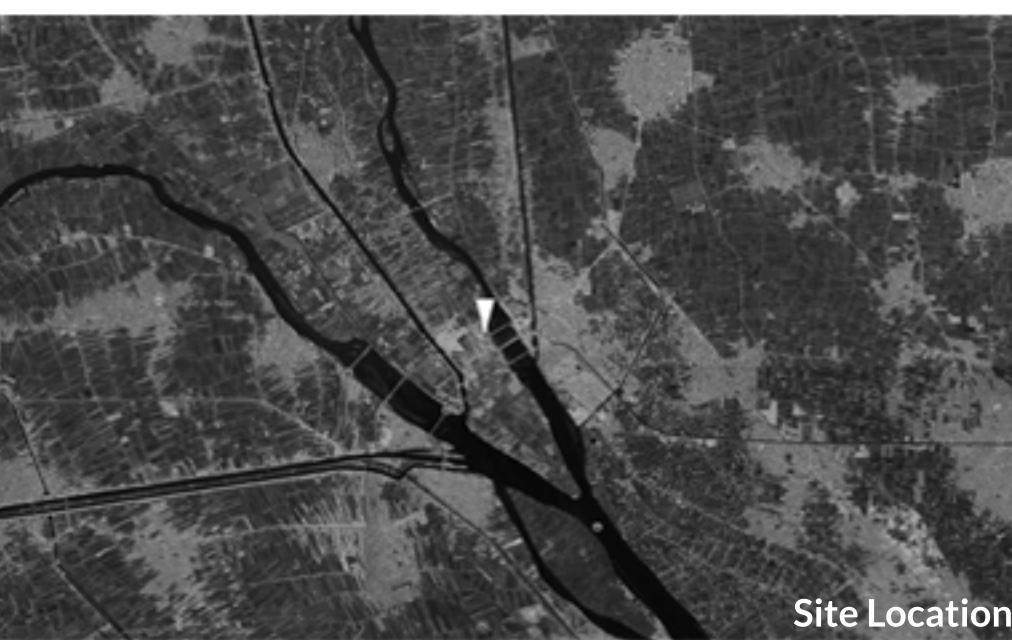
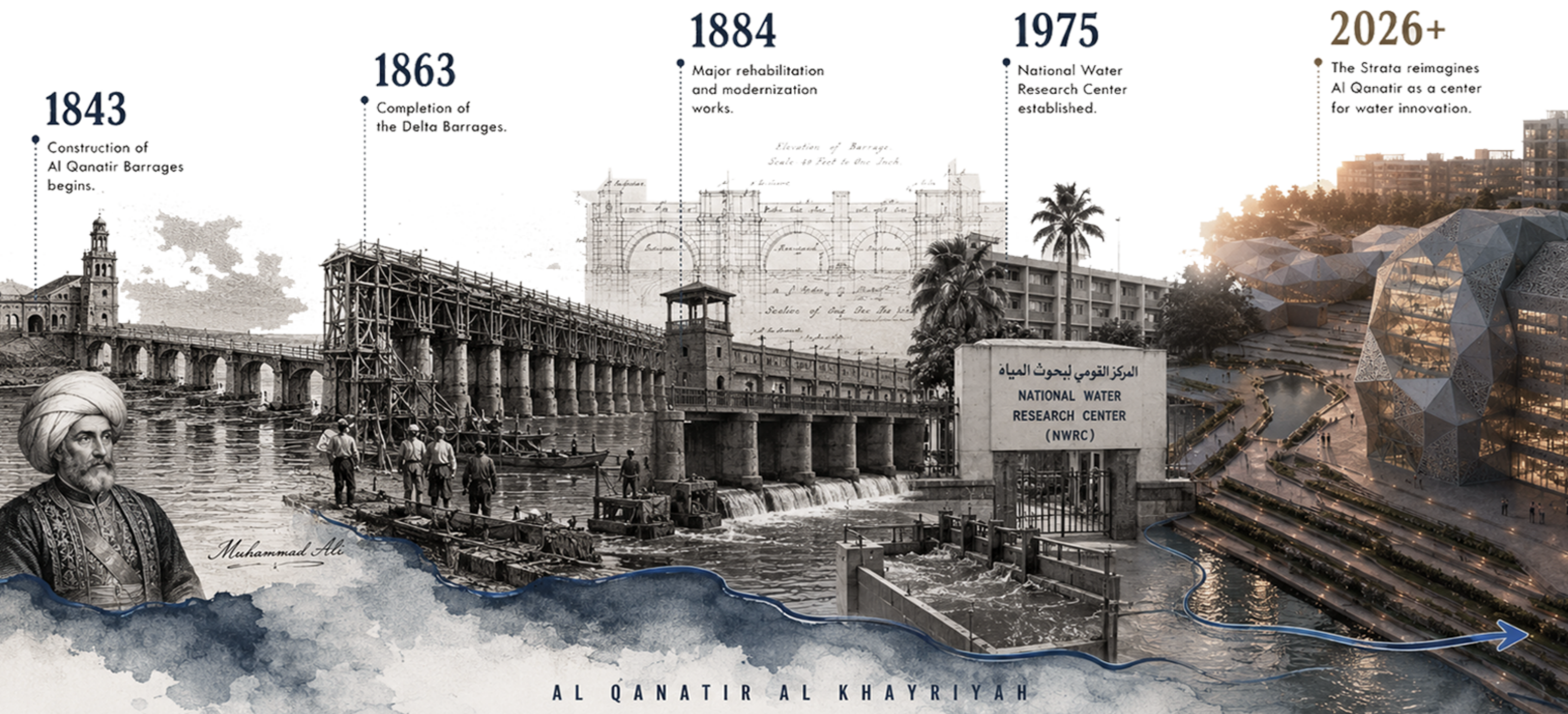
The river eventually slows. What was once transported becomes accumulated. Knowledge reaches the public realm, forming new foundations for future generations. The Public Wing embodies deposition—where research becomes shared understanding.

- FUTURE
- GROWTH
- EDUCATION
- PUBLIC ENGAGEMENT

EROSION TRANSPORT DEPOSITION

Site Location

Al Qanatir Al Khayriyah



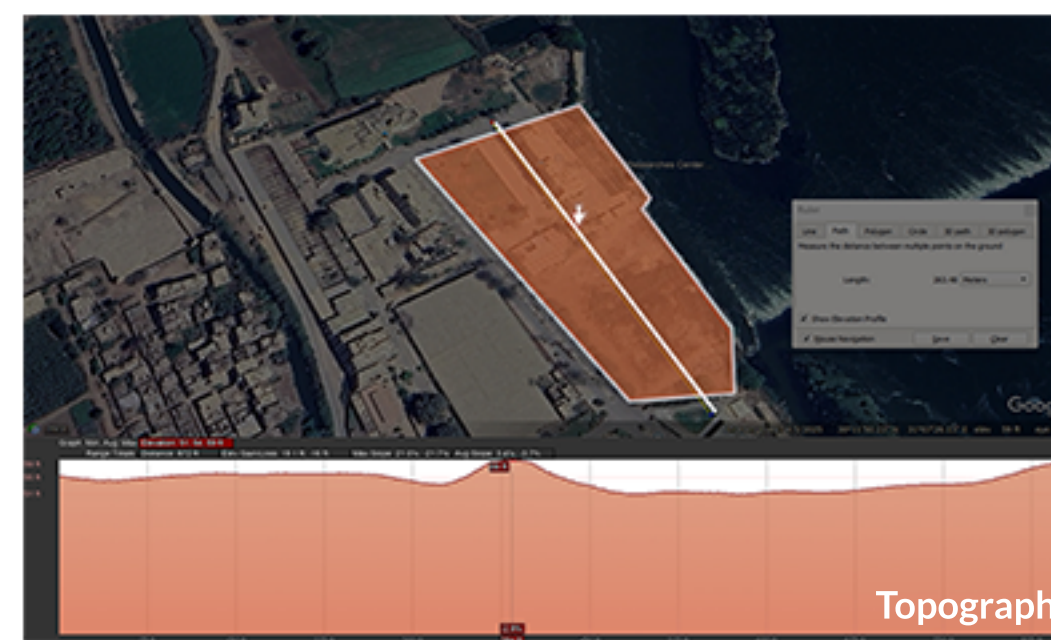
Site Location



Land Plot



Existing Building



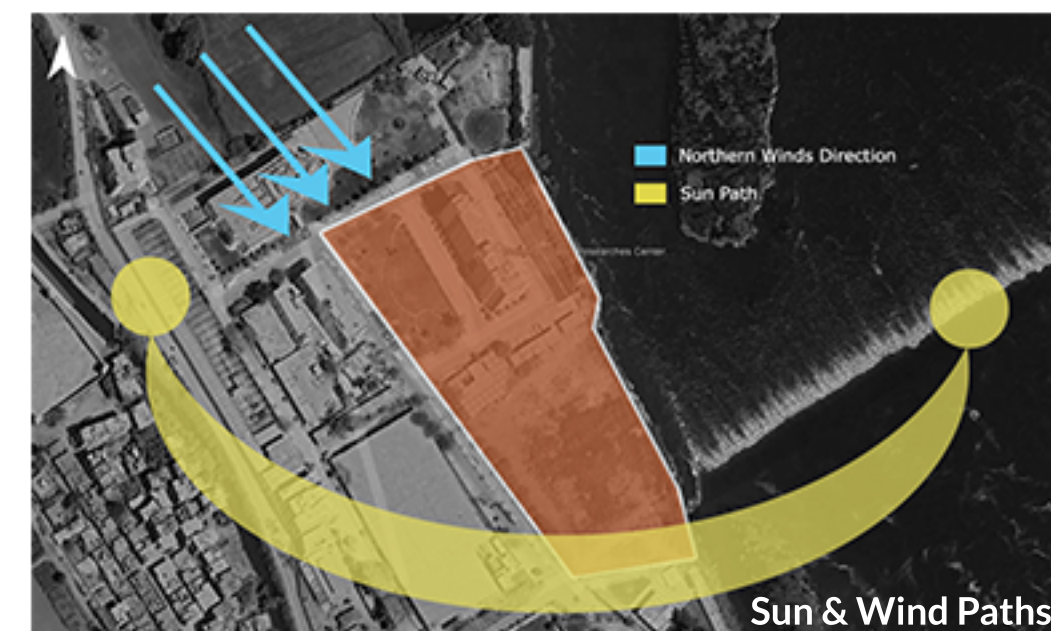
Topography



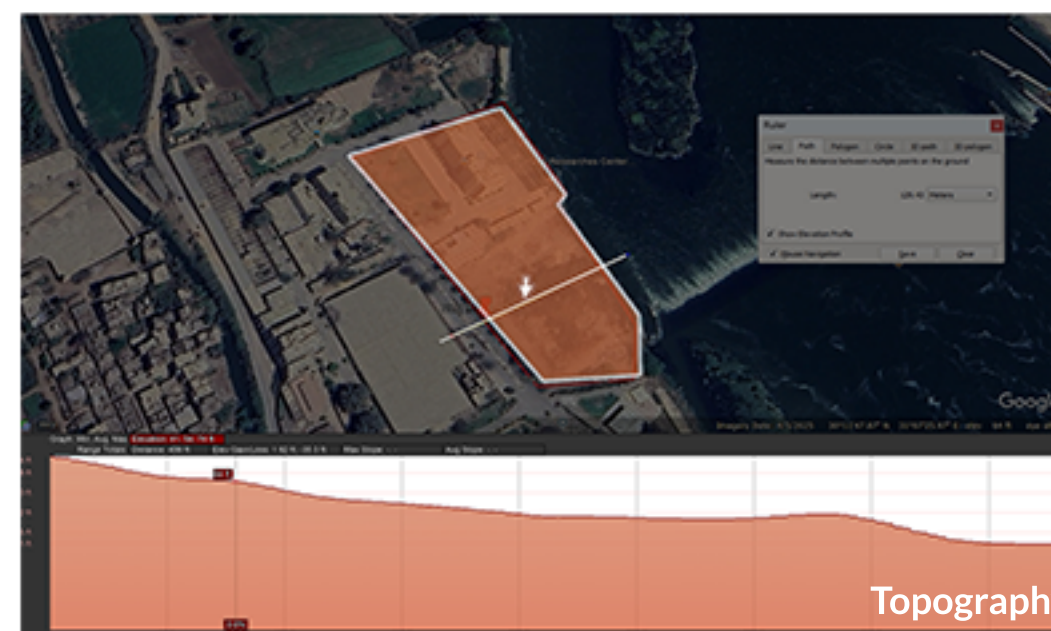
Landmarks



Accessibility

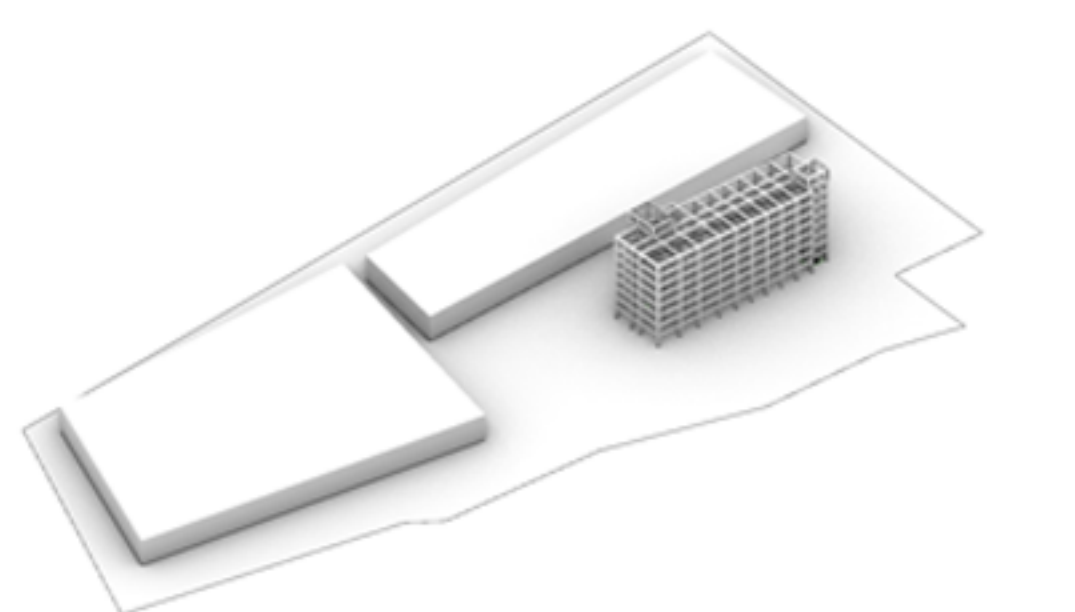


Sun & Wind Paths

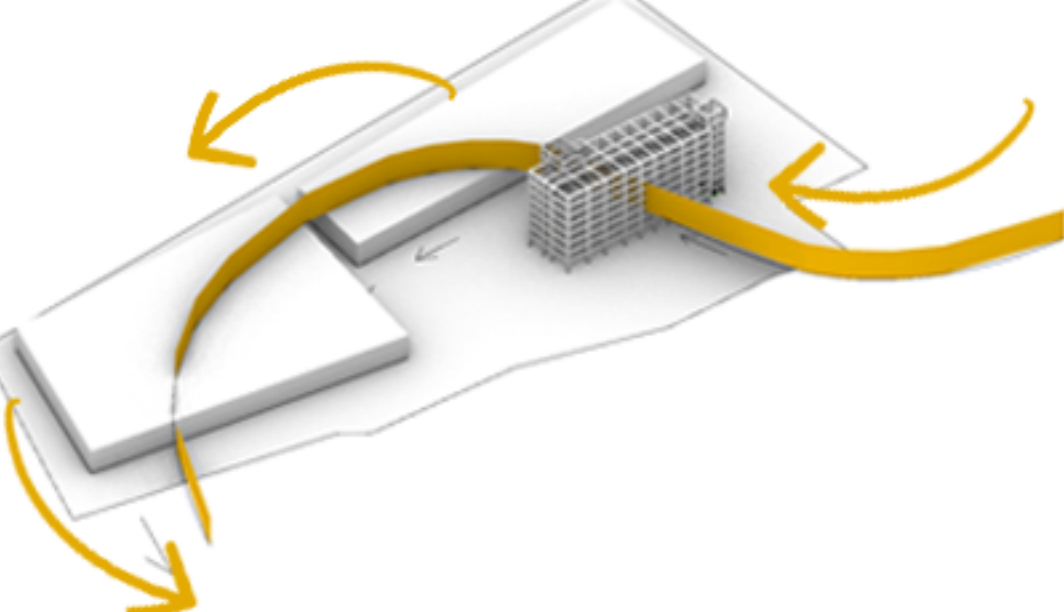


Topography

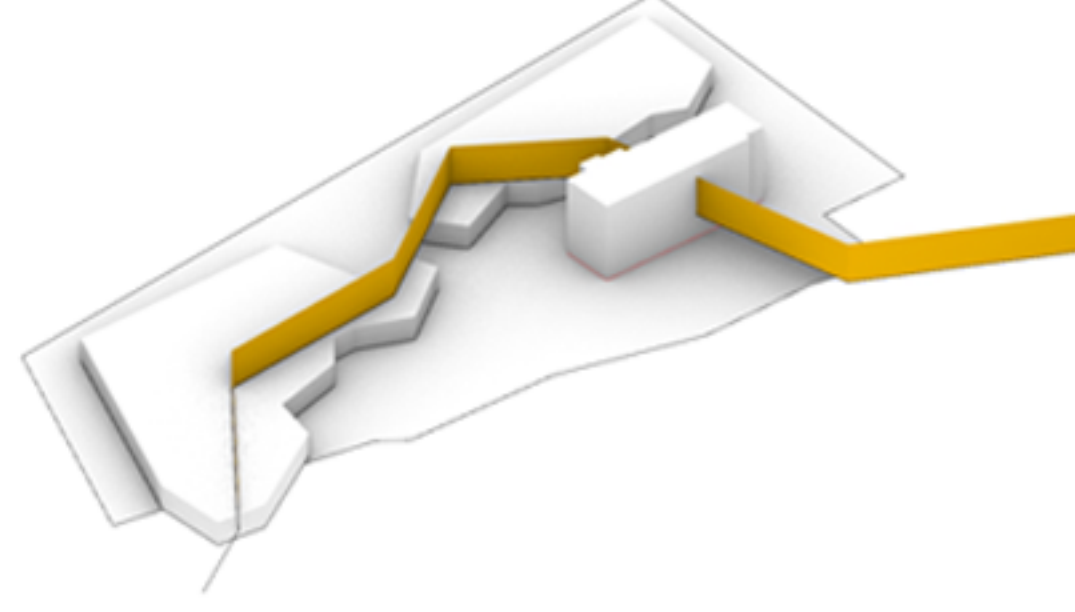
Form Generation



Existing Building + Possible Buildings Footprint



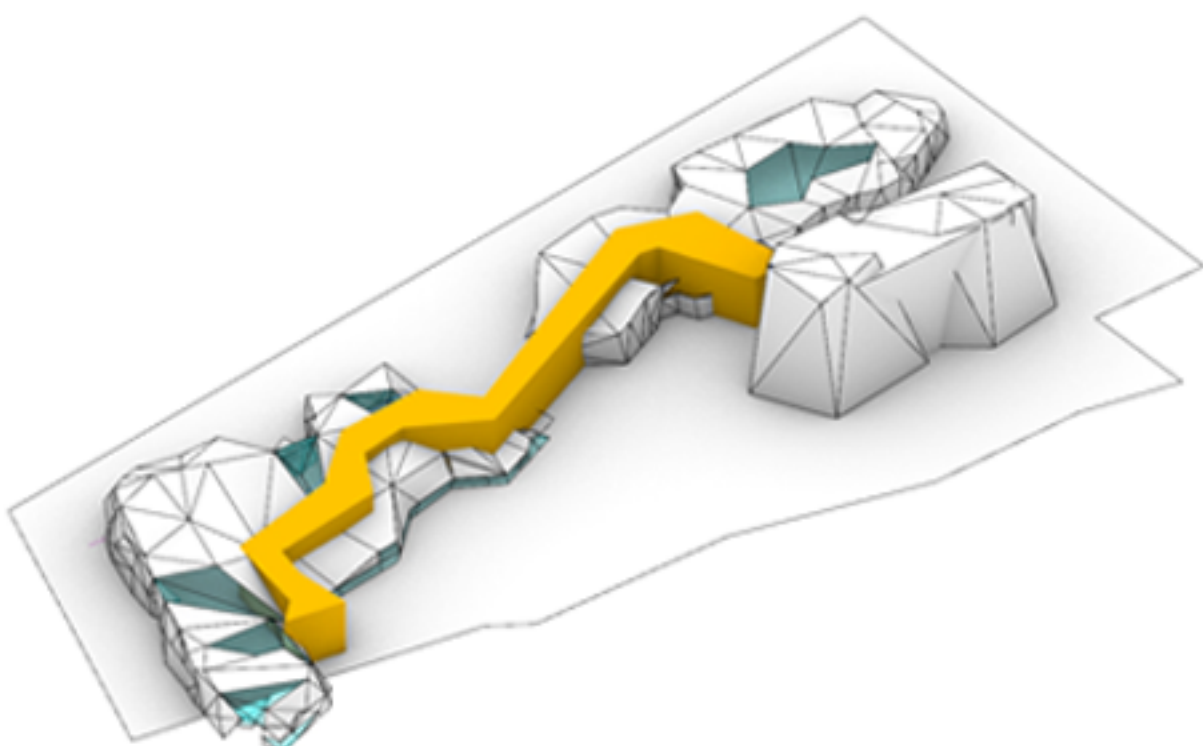
Nile branches into the site to erode, causing subtraction, flow and addition.



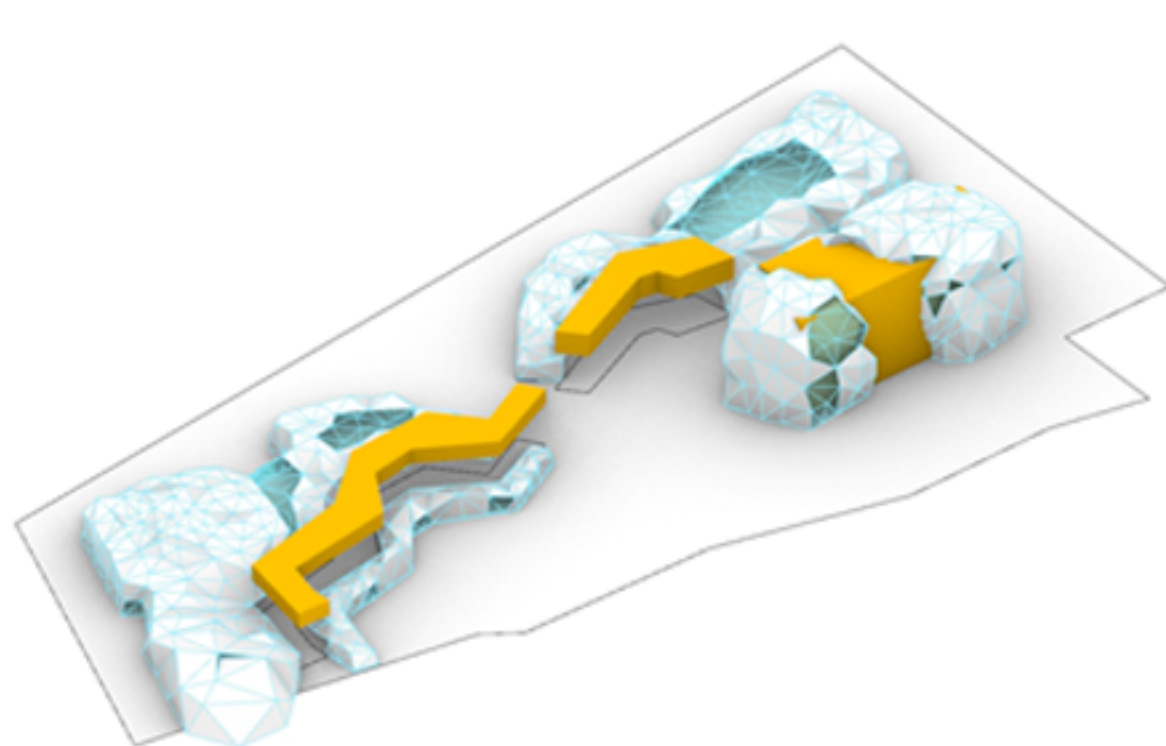
Optimizing north, views and functions and developing an architectural language.



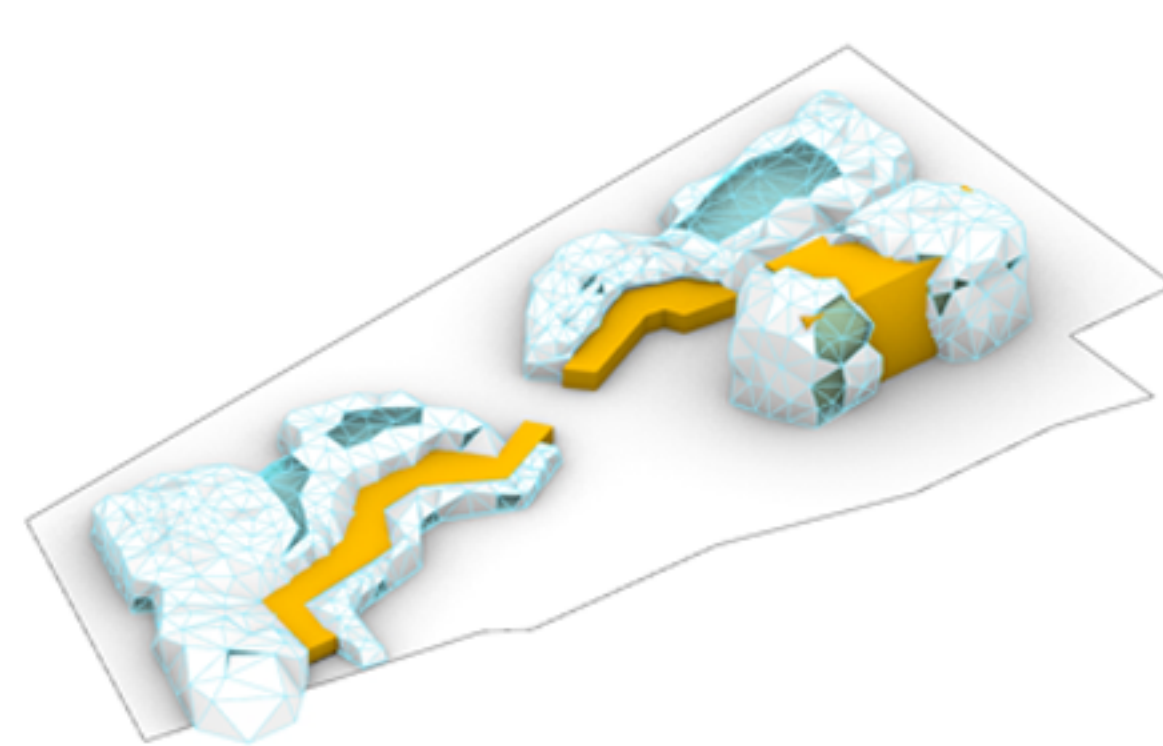
Developing plans, positioning entrances and creating a spine through the 3 buildings.



Choosing the architectural language based on simulations, and adding envelope for cohesiveness.



Solidifying the spine into masses in each building, it is flat to relate to the existing building and for contrast.



Final, refined form, with the spine embodying the erosion forces through the site.