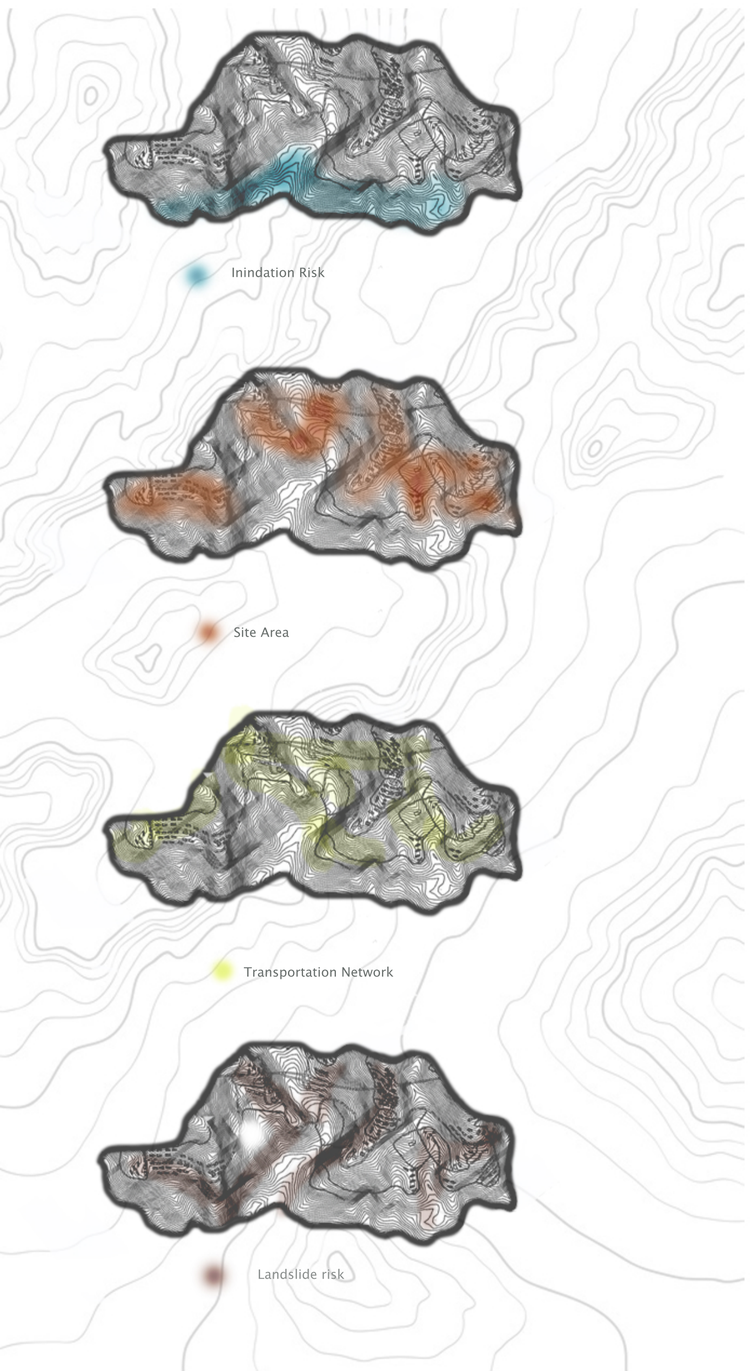
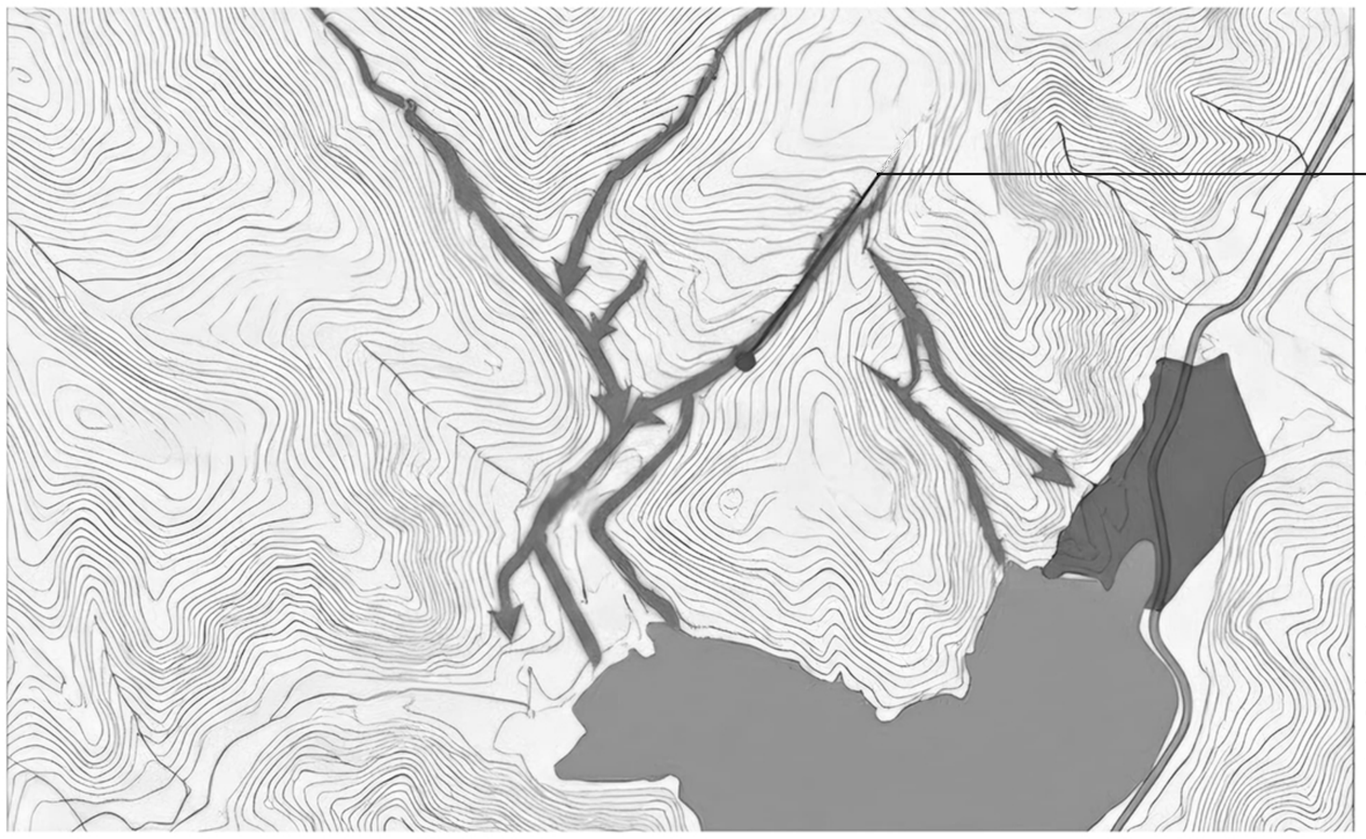
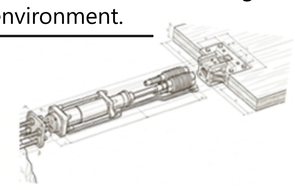
A hybrid urban infrastructure in Artvin, this *Kinetic Canopy* functions as a terraced neighborhood library that transforms into an emergency operations base within 48 hours. Built from mass timber, the project utilizes a kinetic lifting system to elevate its three volumes during floods and landslides, ensuring a resilient “island of safety” and communication hub when the surrounding valley is cut off





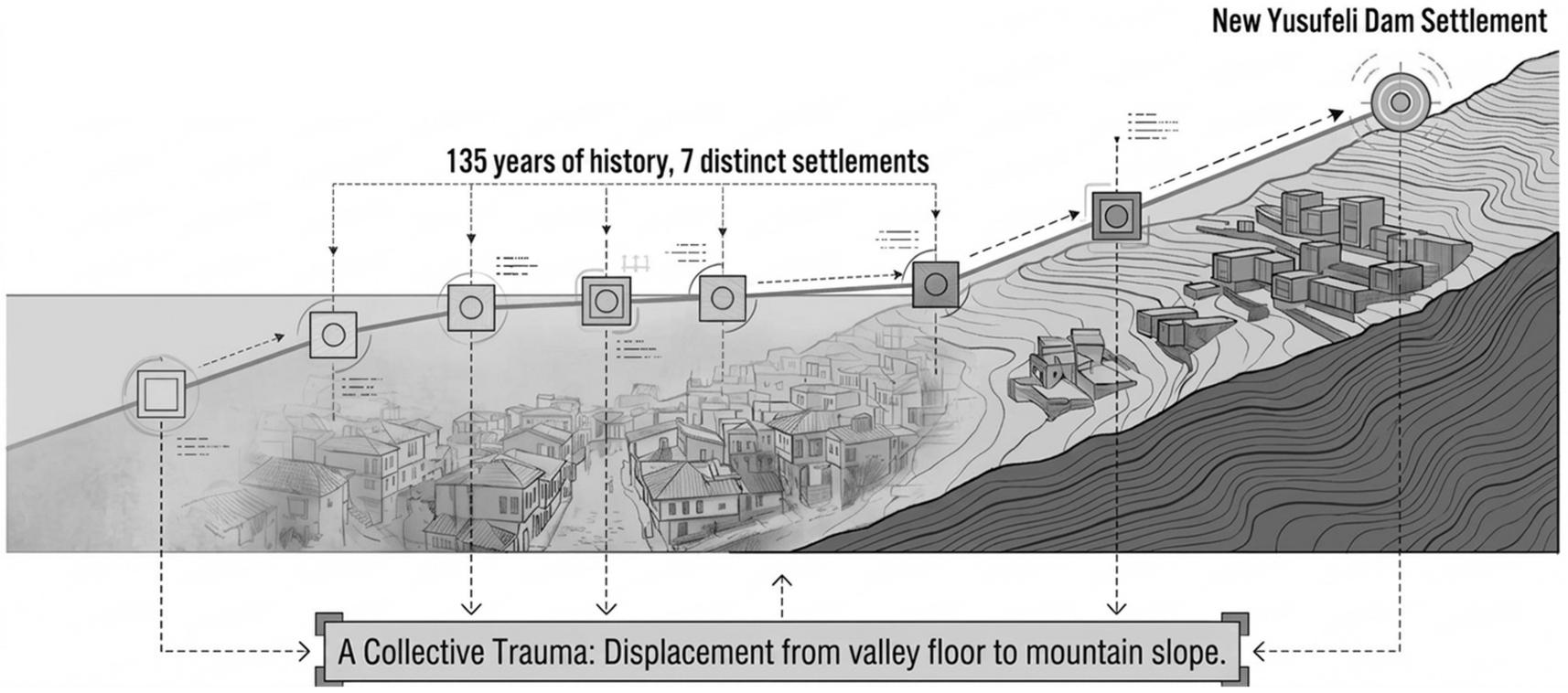
The structure is not directly on a natural drainage path, but it is designed to withstand potential water level rise by raising the structure without harming the environment.



CLT Receptacle Node
High-tolerance steel-to-timber connection
plate distributing the lift load evenly
across the wooden slab.

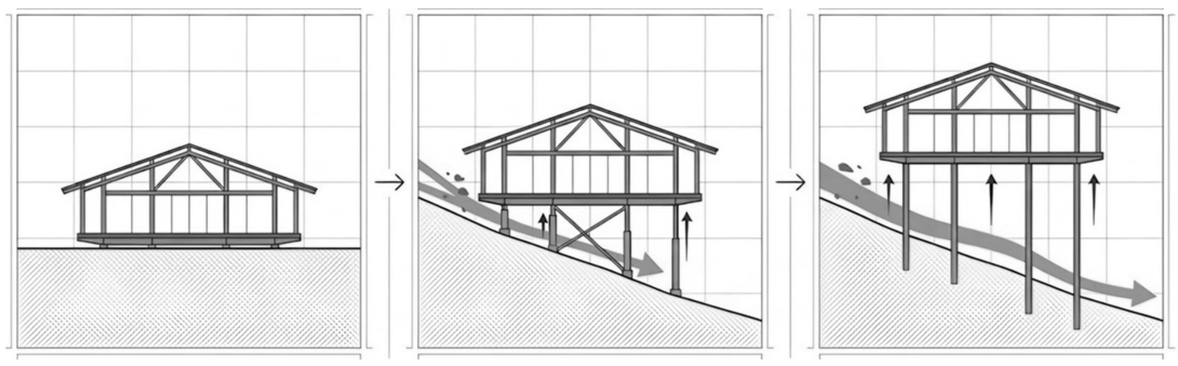
The "Umbilical Cord"
Flexible, bellows-style industrial piping for
water, data, and electricity.
Expands
without snapping as the building climbs

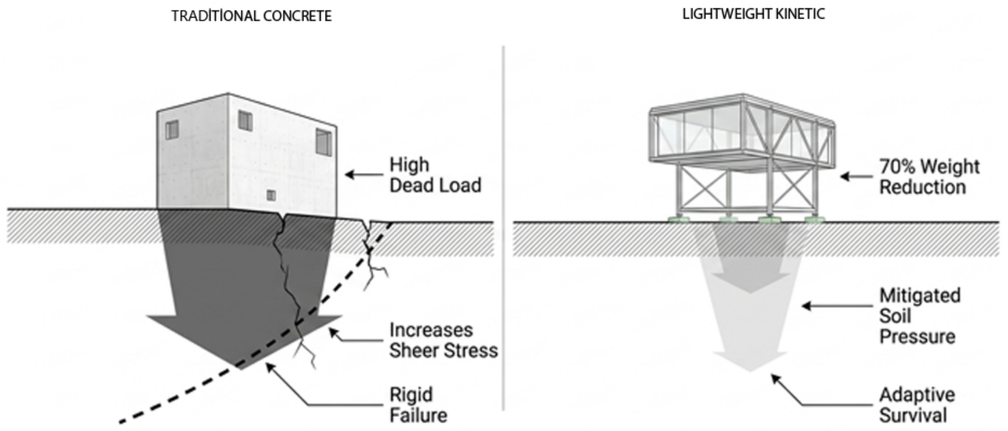
Telescopic Actuator
Industrial hydraulic steel sleeve providing



Metabolic Resilience: Detaching From the Threat

Core insight : During a landslide, the structure elevates 4–5 meters on telescopic legs for protection, but it integrates with the ground beforehand to foster urban connection, maximize aerodynamic stability against lateral loads, and minimize costs by utilizing ground bearing capacity during normal times.





- Hydroelectric power generation and seasonal rains cause the water level of the dam to rise and fall
  - Persistent water saturation disrupts the balance on the slope, causing sudden floods in lateral streams and landslides in deep reservoirs.
  - Selected for its dynamic slope and panoramic dominance, enabling a resilient, terraced integration with the Yusufeli Dam reservoir.