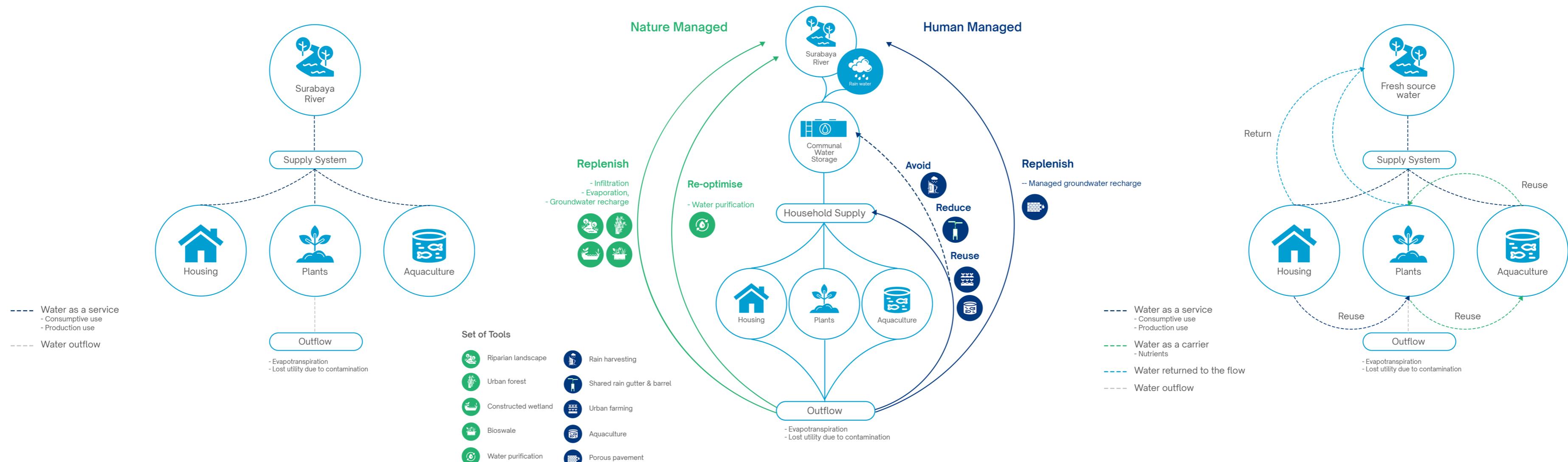


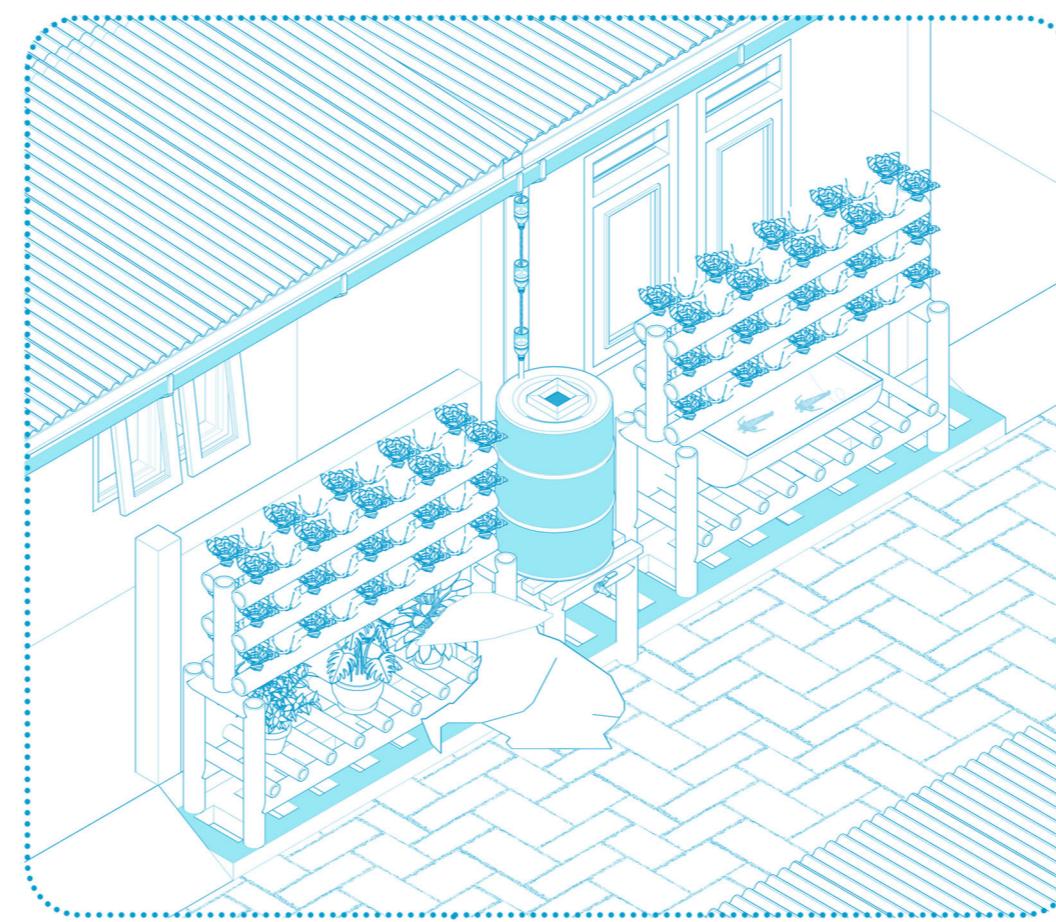
Recovering the Water

Enhancing the health and wellbeing of Indonesia's kampung system while contributing to the recovery of water ecosystem services

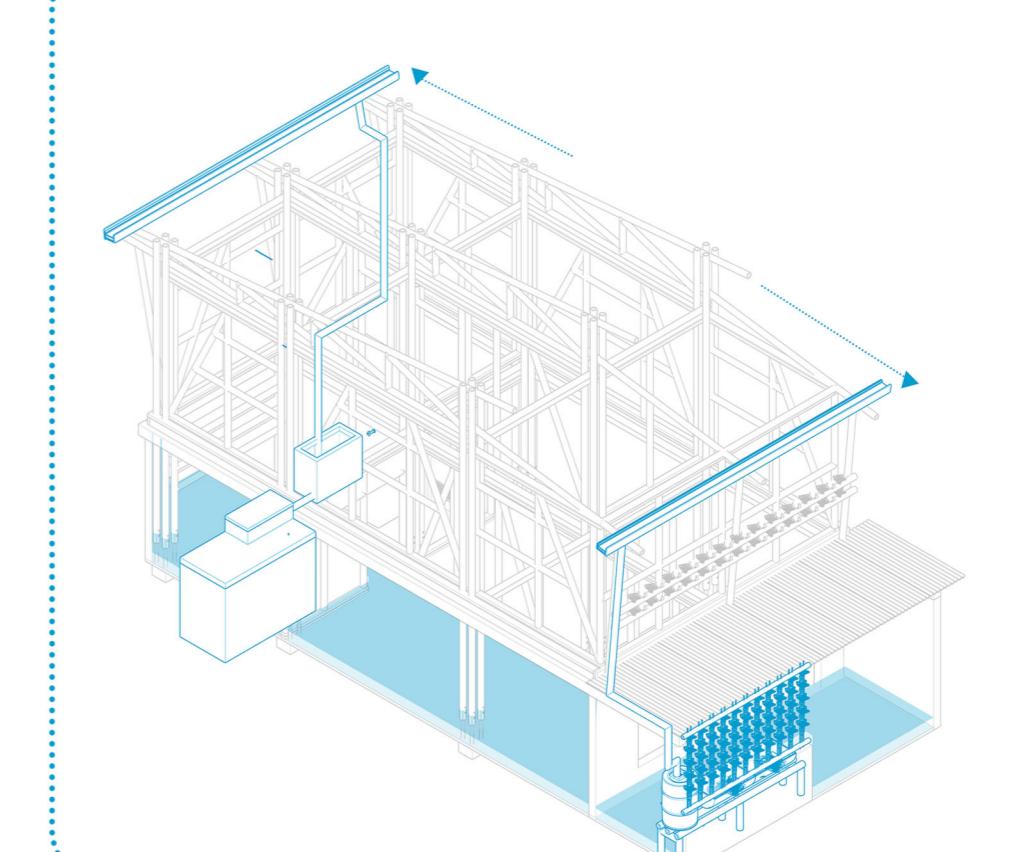
From Linear Water System to Circular Water



Kampung Street Level
Shared rain gutter & rain barrel
Urban food farming
- Hydroponics
- Aquaponics
Covered local drainage
Porous pavement

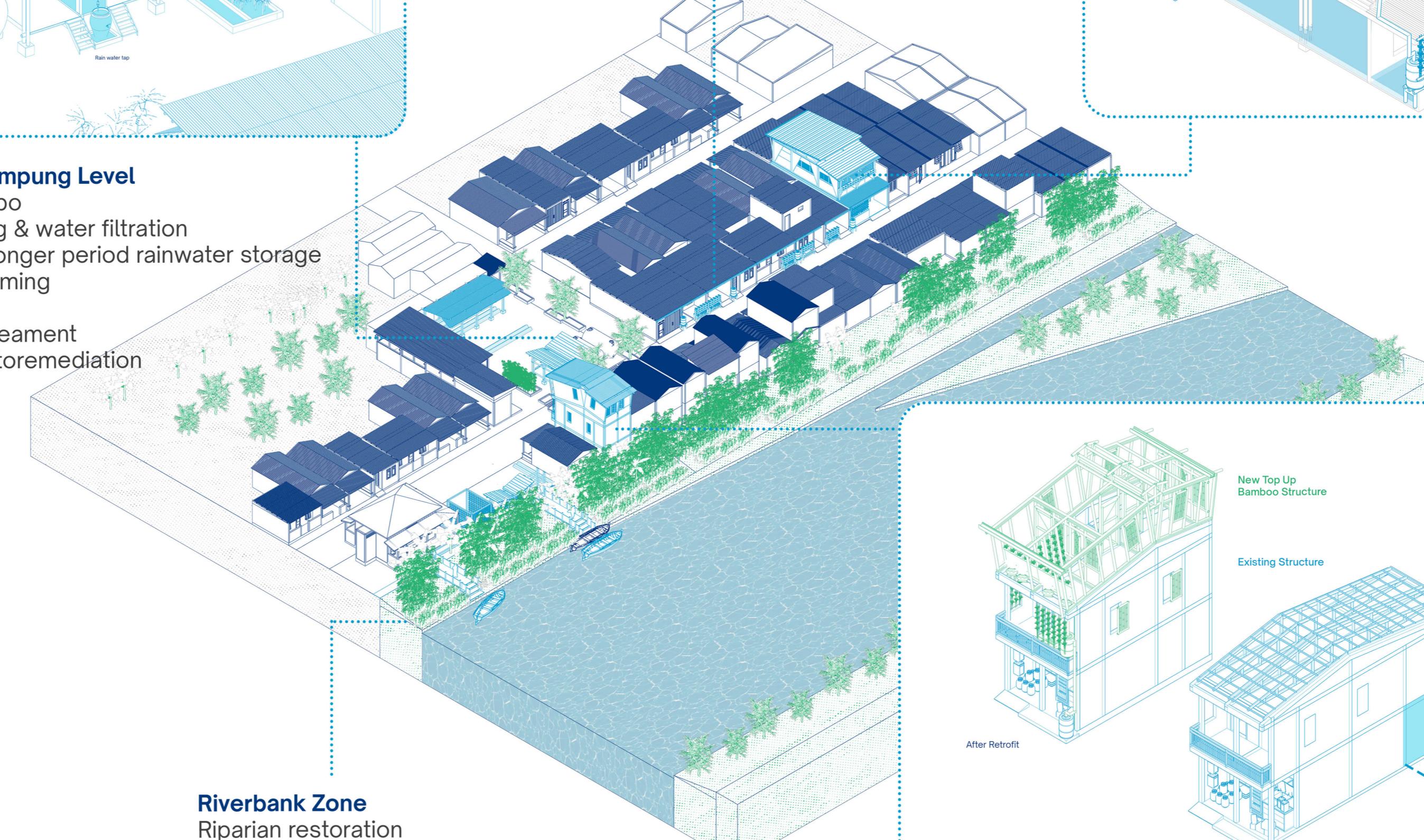


Household Level
Rain harvesting & water filtration
Bamboo flood structure
Urban food farming
- Hydroponics
- Aquaponics



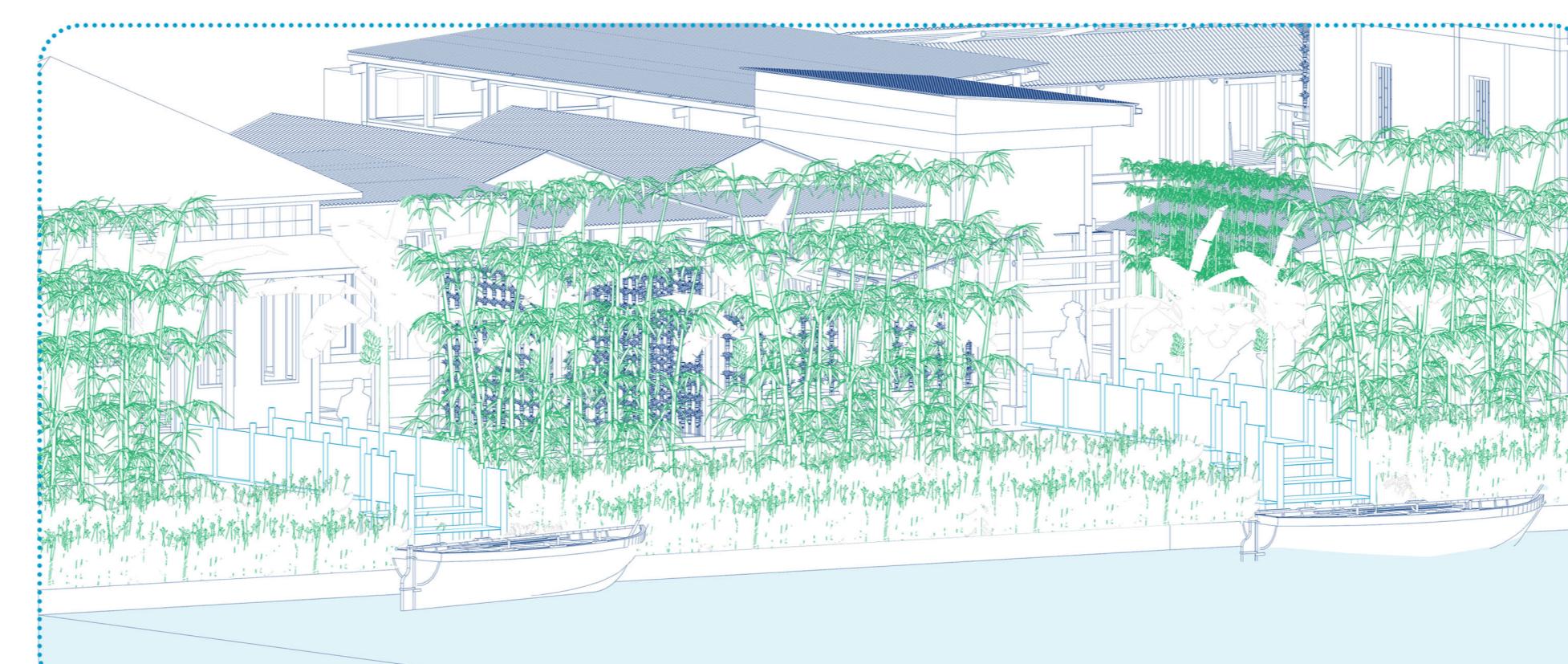
Communal Kampung Level

Bamboo gazebo
Rain harvesting & water filtration
Temporary & longer period rainwater storage
Urban food farming
- Aquaponics
Wastewater treatment
- Bamboo phytoremediation



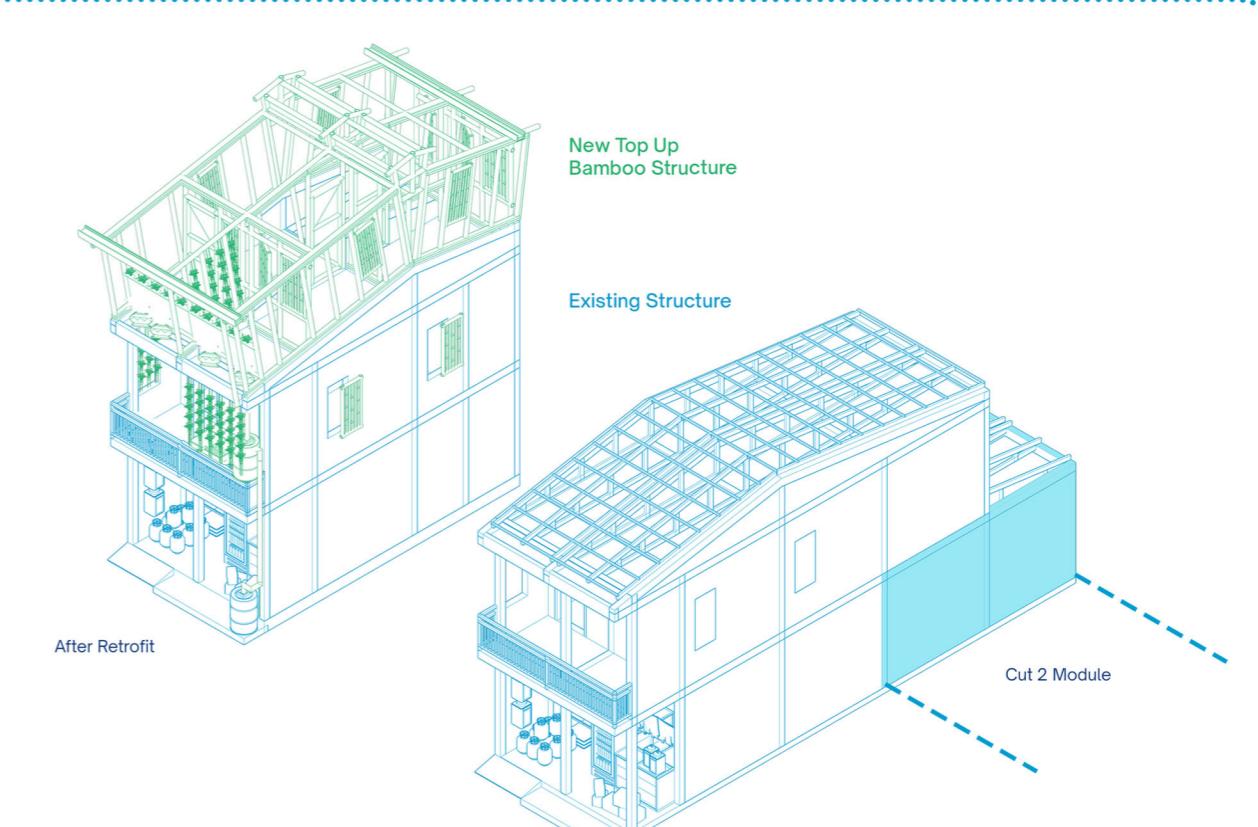
Riverbank Zone

Riparian restoration
- Banana (*Musa Paradisiaca*)
- Bamboo Forest (*Bambusa Vulgaris*)
- Riparian Vegetation (*Poaceae, Cyperaceae, Asteraceae*)
Bamboo walk for fishing boat

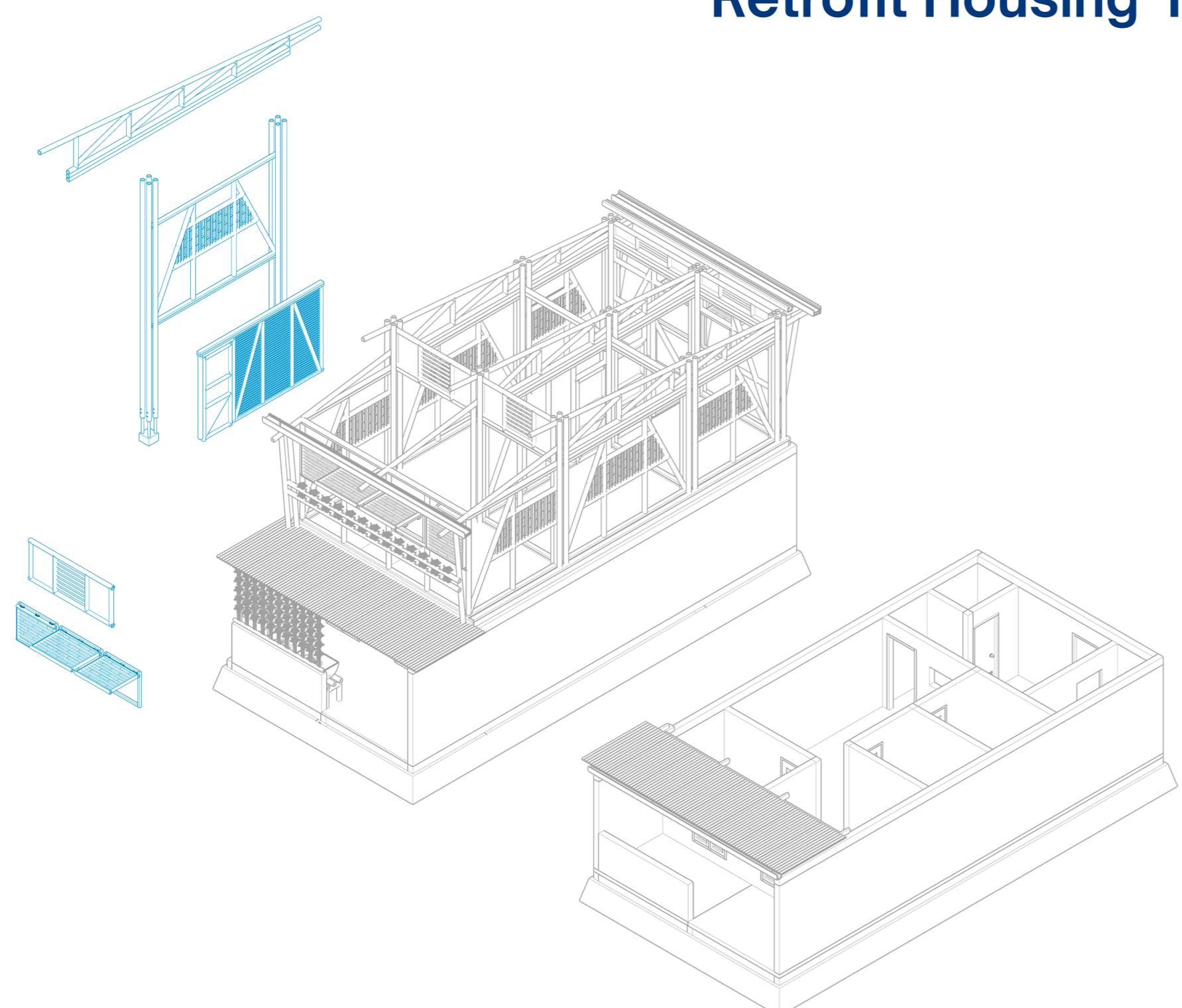


Household Level

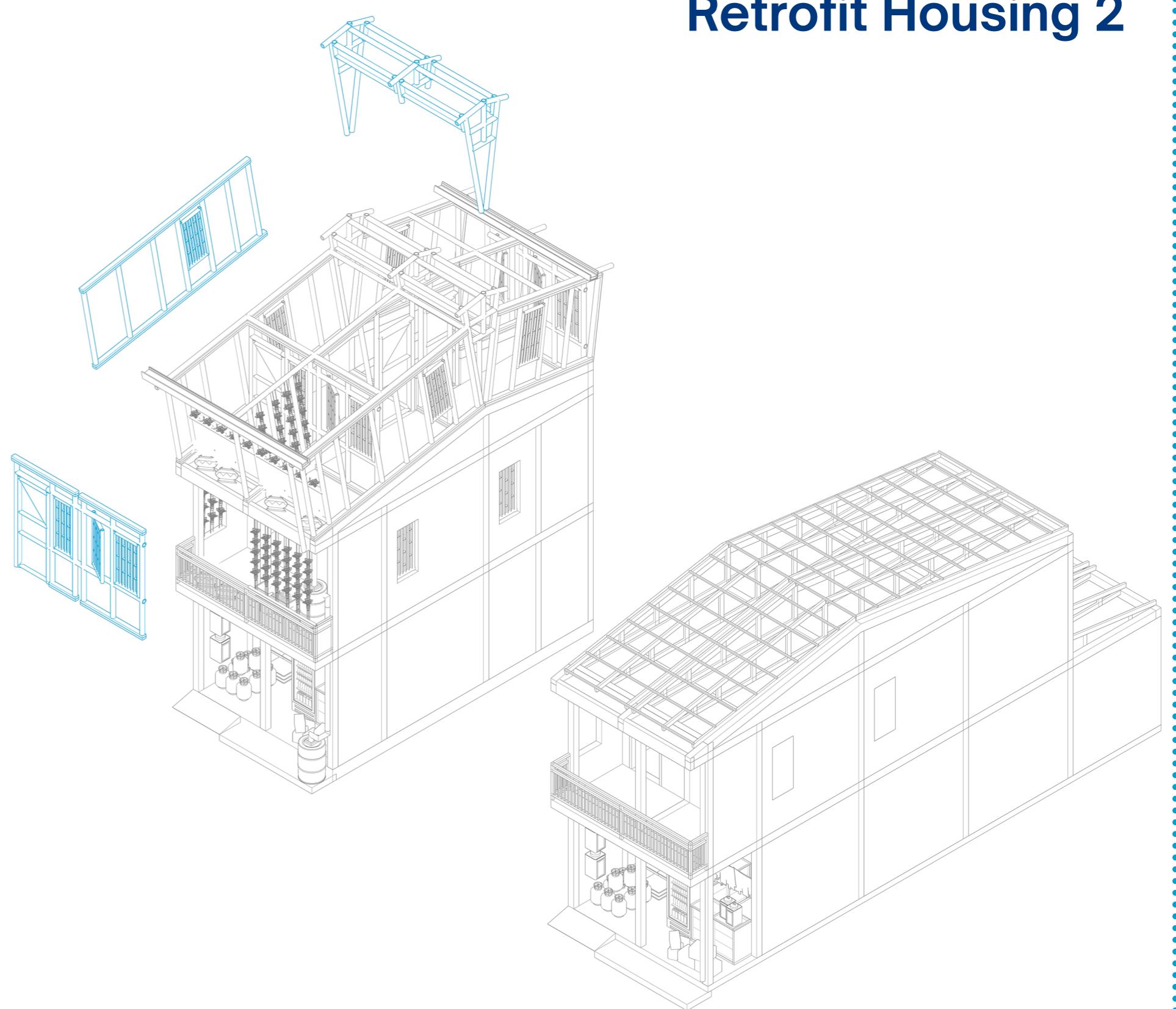
Rain harvesting & water filtration
Bamboo top up structure
Reuse of existing structure
Urban food farming
- Hydroponics
- Aquaponics



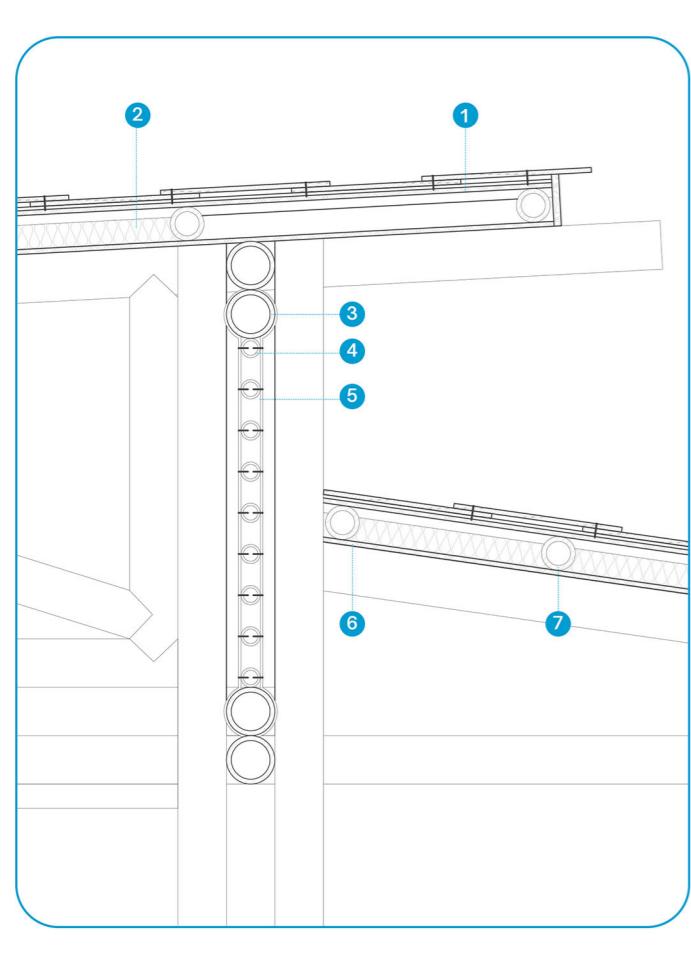
Retrofit Housing 1



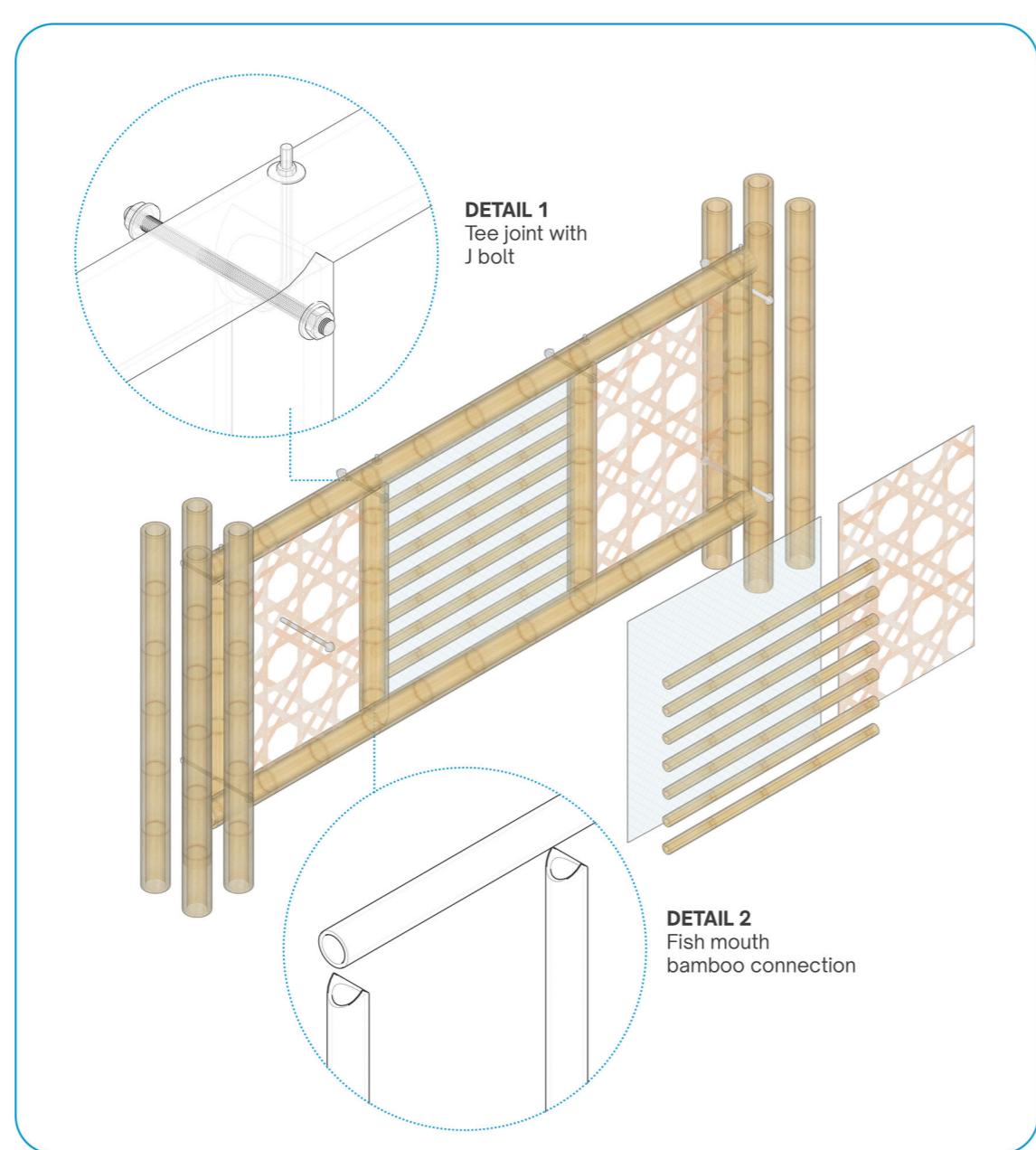
Retrofit Housing 2



Louvre Detail
1:10



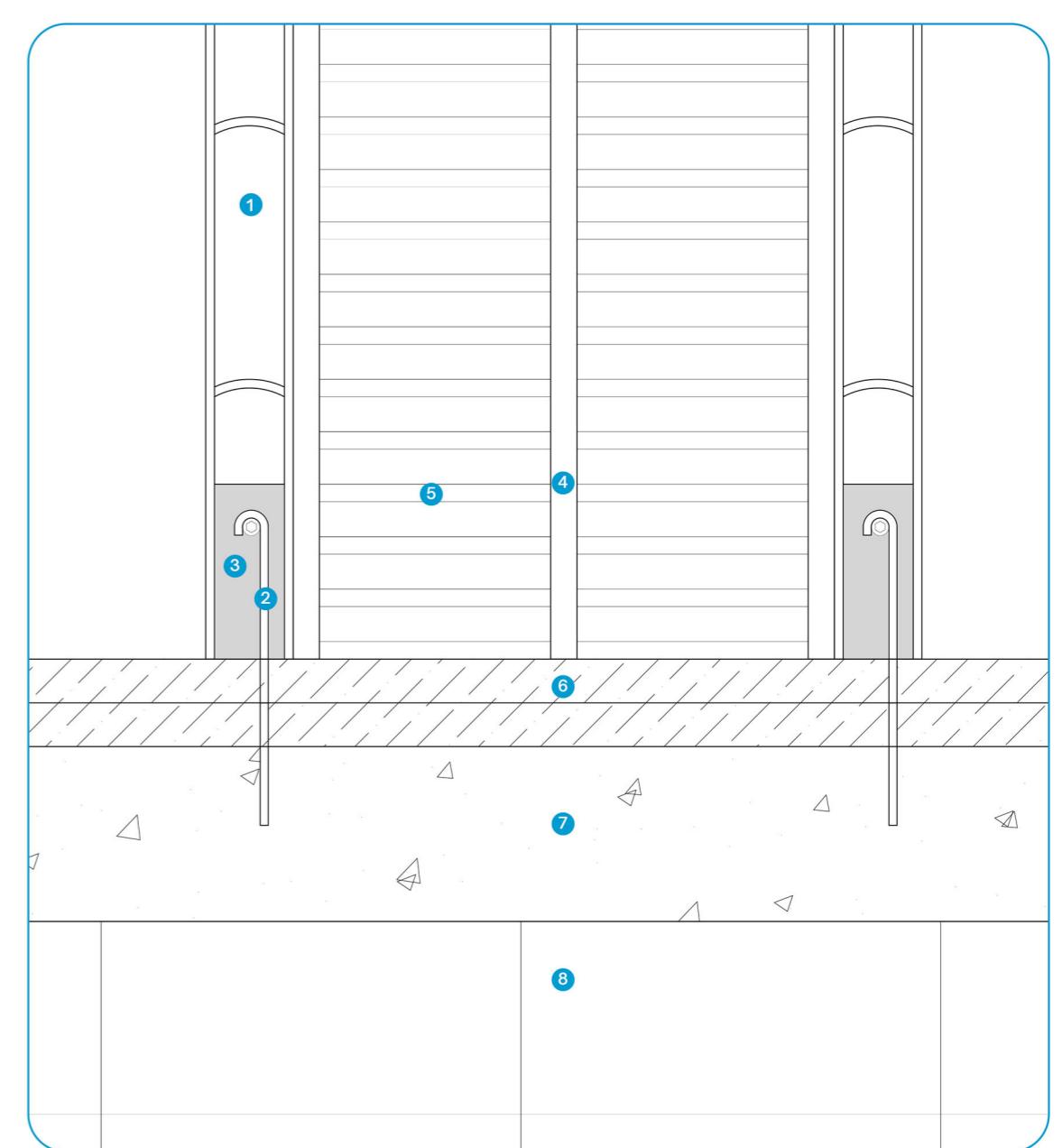
1 Bamboo Pelupuh roof cover
2 Waterproof membrane layer
3 Bamboo louvre panel
4 Bamboo floor insulation panel
5 Bamboo pole louvre frame d. 100 mm
6 Bamboo inner louvre d. 40 mm
7 Insect screen net
8 Bamboo woven ceiling
7 Bamboo rebar d. 70 mm



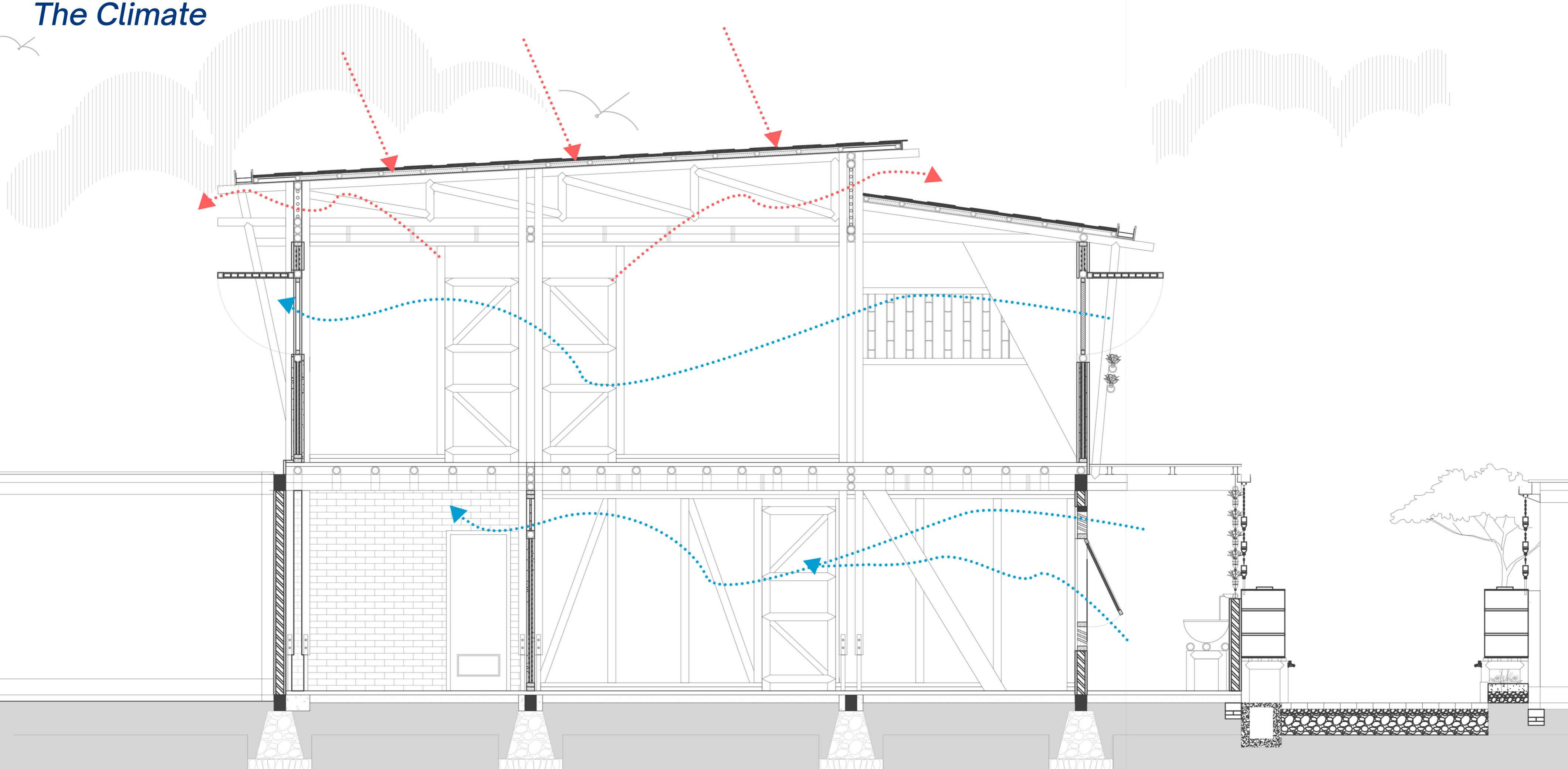
Wall Bamboo and
Concrete Block Detail
1:5



1 Bamboo pole column d. 100 mm
2 Steel rod & bolt
3 Mortar ring 20 mm
4 Timber slice bamboo d. 30 mm
5 Bamboo slot thickness 10 mm
6 Double timber plate thickness 50 mm
7 Existing concrete beam 150 x 200 mm
8 Concrete block 200 x 600 x 100 mm



The Climate



The Construction

