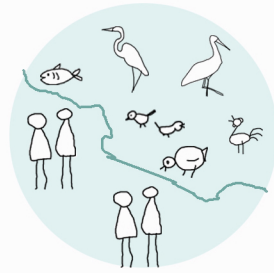


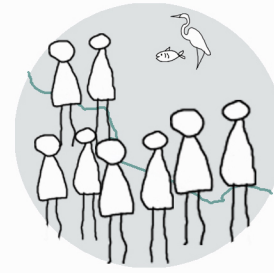
# Shared habitats



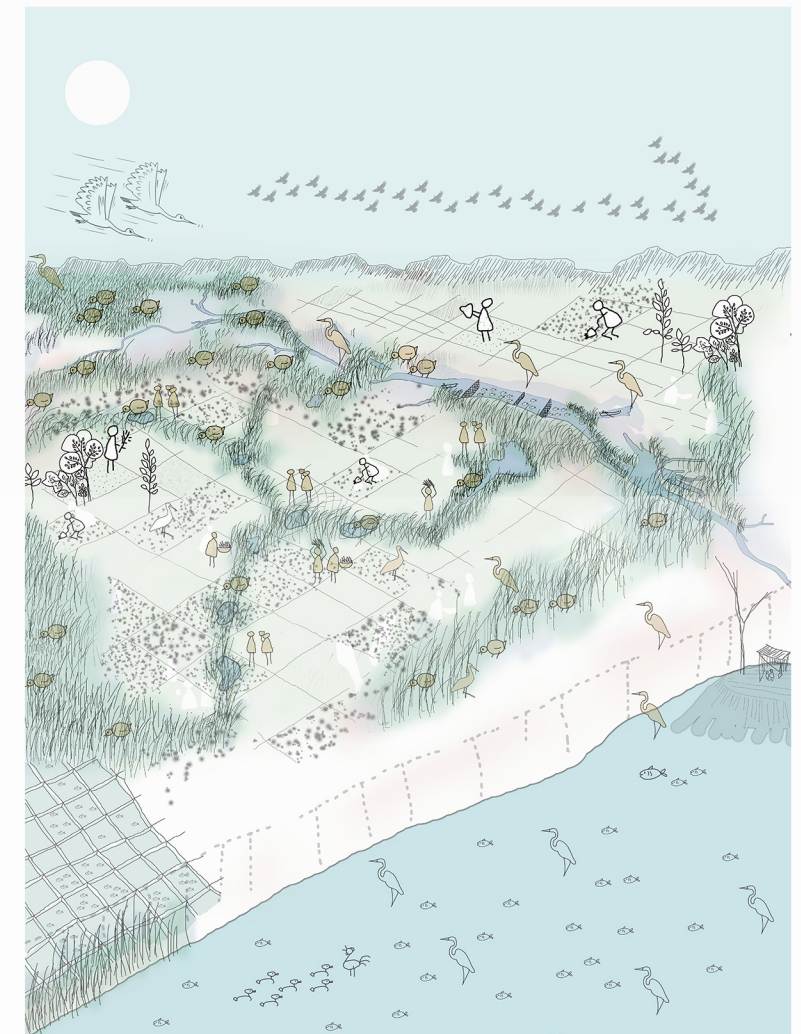
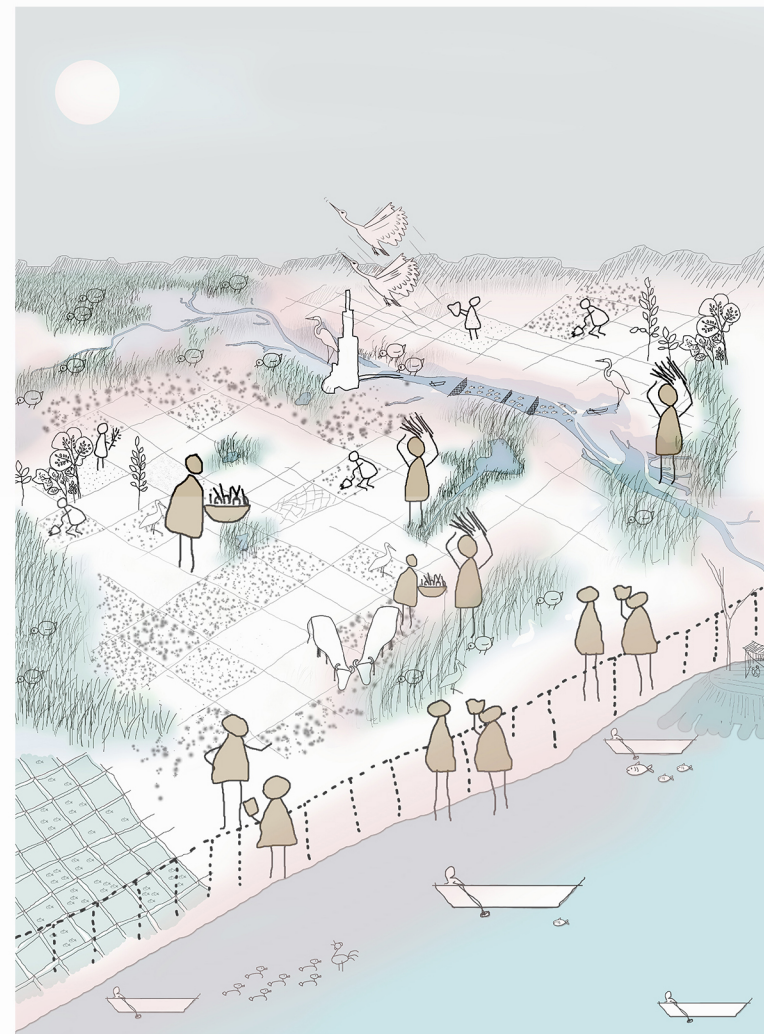
Genesis



Shift in attitude and livelihood dependencies



An act of co-existence



Country / City India/ Ahmedabad  
University / School CEPT University  
Academic year 2019-2020  
Title of the project Shared habitats  
Authors Abinaya Ravichandran

## TECHNICAL DOSSIER

Title of the project	Shared habitats
Authors	Abinaya Ravichandran
Title of the course	Landscape Design studio -2 (Tracing Lines)
Academic year	2019 - 2020
Teaching Staff	Divya Priyesh Shah
Department/Section/Program of belonging	Master of Landscape Architecture
University/School	CEPT University



### Written statement, short description of the project in English, no more than 250 words

Nalsarovar, a RAMSAR wetland is a significant stopover point in the Central Asian flyway. Equivalent to its biodiversity is the indigenous cultural systems of *Padhar*, a primitive tribe, whose ways of life are reciprocal to the natural systems and cycles of this lacustrine landscape. In the mythical stories of this land, is a motif of the mother (water) who nurtured her offspring, the reeds, fishes, birds and the tribes by sharing her possessions. The hidden notion of sibling-hood among the inhabitants of the wetland conserved the natural and cultural systems together for ages. The erratic nature of the monsoon, with newer urban aspirations, thoughtless developments has brought in a shift in the way the landscape and its inhabitants co-existed. Though attuned to the periodic cycles of nature, through the sporadic cycles of prolonged drought and intense floods, only the fittest survived, the rest, fled or perished. The project primarily tries to define a new dependency cycle through the introduction of micro-cultural habitats as networks of smaller niches, that become repositories and catalysts, capable of kindling the cycle of regeneration when capacious units of ecosystems get altered beyond repair. These units consist of the reeds, fishes, people and birds. A defunct farm pond is selected as a demonstration unit of micro-cultural habitat, it uses the reed integrated farm pond technique, that assimilates traditional skills and ecological knowledge of the native tribes to generate livelihoods and links it with habitat conservation measures, reciting the idea of shared belongings.

For further information  
**Máster d'Arquitectura del Paisatge -DUOT - UPC**

T: + 34 93 401 64 11 / +34 93 552 0842  
Contact via email at: [biennial.paisatge@upc.edu](mailto:biennial.paisatge@upc.edu)

**Máster d'Arquitectura del Paisatge -DUOT - UPC**  
ETSAB- Escola Tècnica Superior  
d'Arquitectura de Barcelona  
Avenida Diagonal, 649 piso 5  
08028 Barcelona-Spain



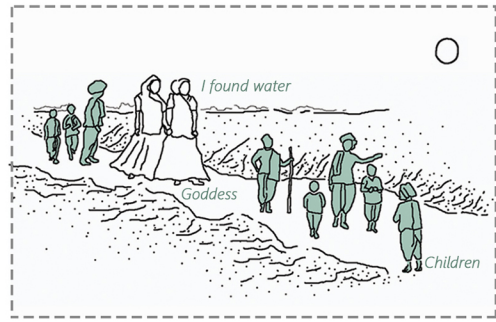
# CLIMATE CHANGE AGAIN

11th International Biennial Landscape Barcelona

Barcelona September 2020  
SCHOOL PRIZE

# Shift in attitude and livelihood dependencies

The mythical narrative of an aboriginal water goddess mentions, her carrying reed, fish, people, birds to Nalsarovar and nurturing them as her children and emphasizing the mutual relationship among them



Padhar tribe migration



Drought and disappearance of the river



Carrying people, flora and fauna during migration

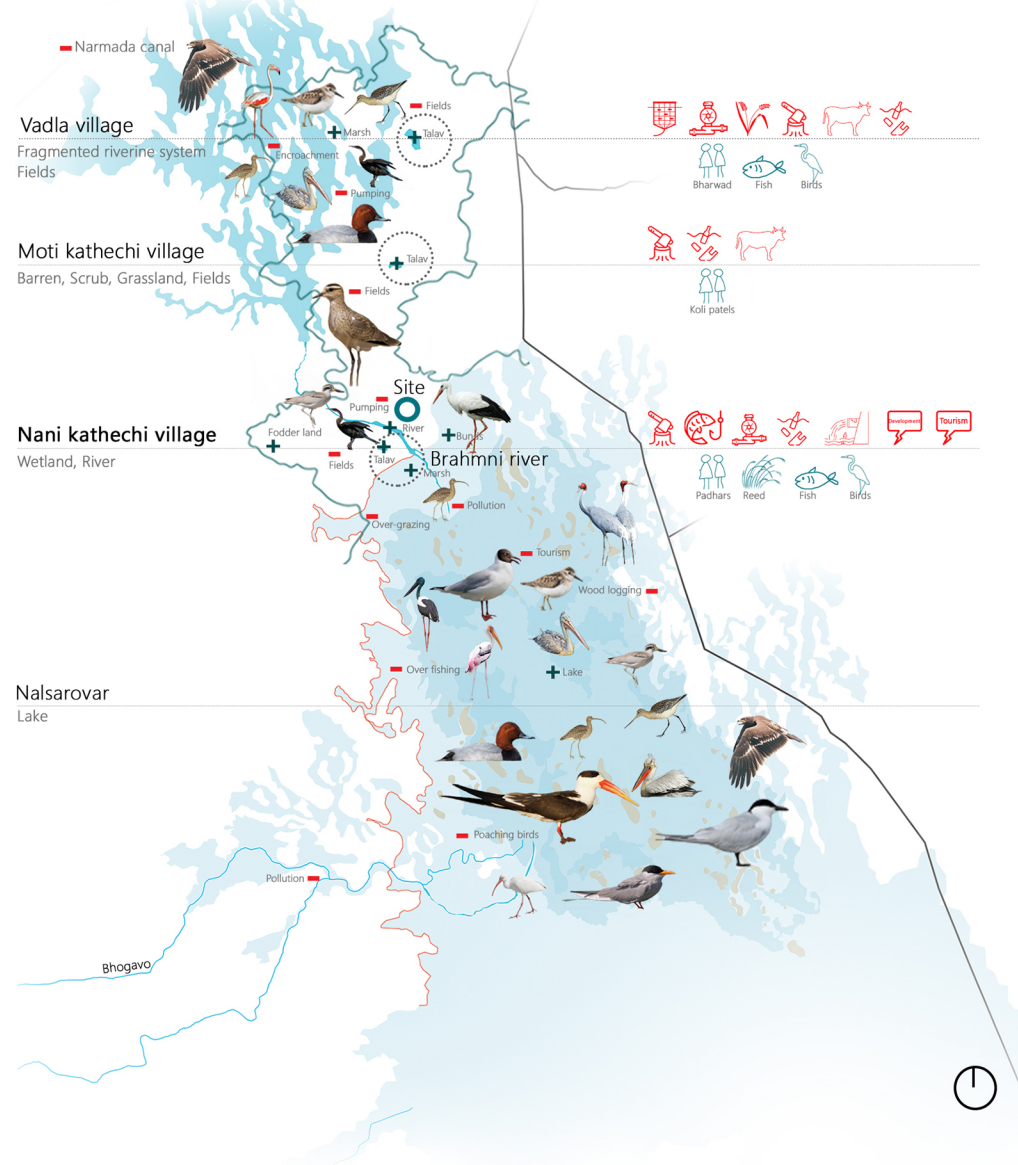


Disappearance of the river Indus and reconnecting back to its tributary way back to Nalsarovar



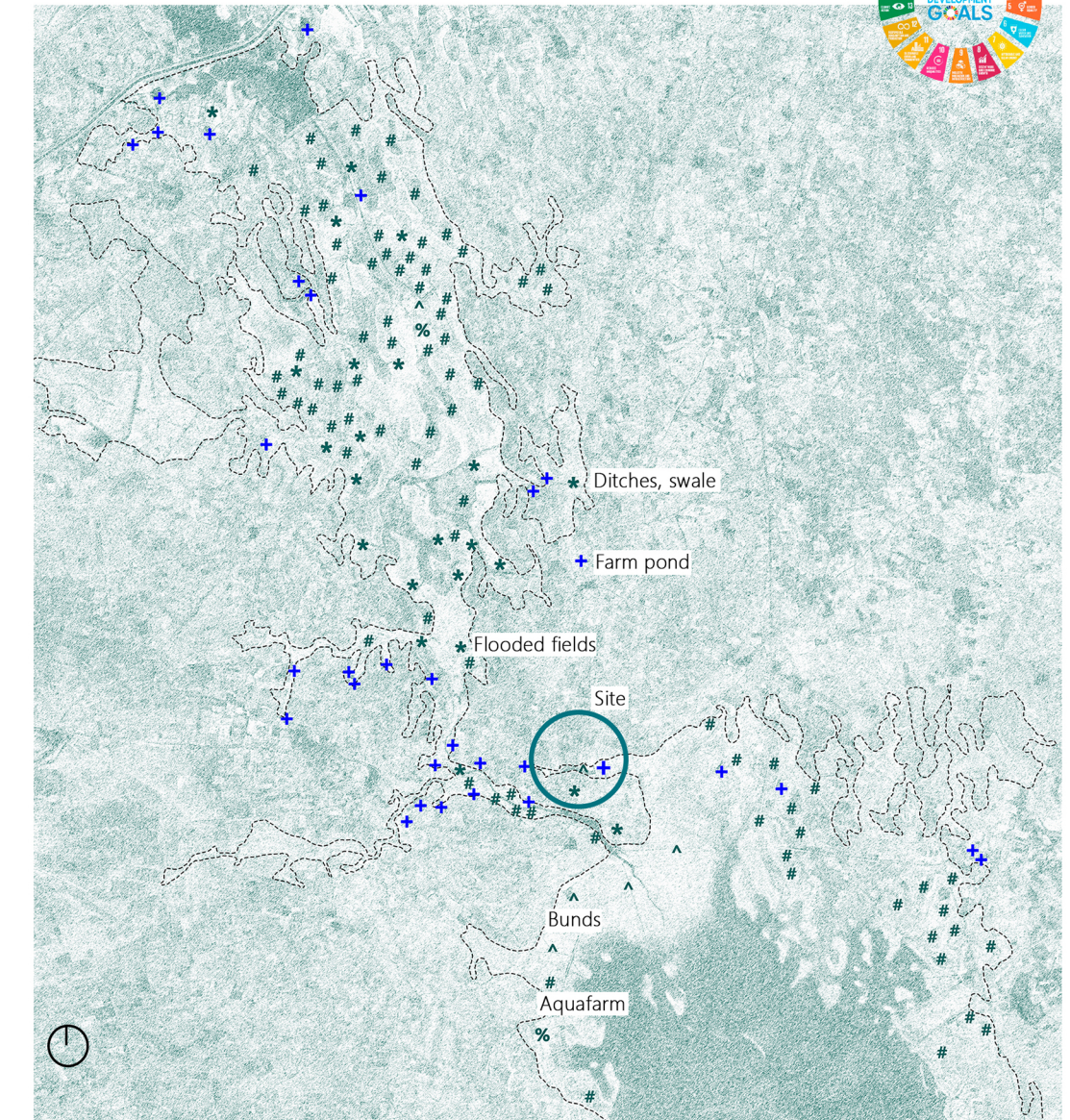
Water nurturing the cultural ecology of Nalsarovar

Interpretation of the mythical narrative of Padhar community

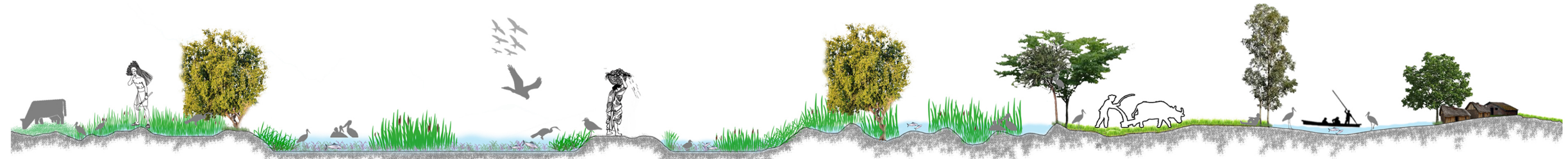


- Over fishing
  - Pumping
  - Encroachment
  - Logging
  - Over grazing
  - Pollution
  - Aquafarm
  - Water pollution
  - Development
  - Tourism
- 
- NT** Painted stork    \* + #
  - Spotbilled pelican    + %
  - Darter    \* +
  - Greater stone plover    \* +
  - Black necked stork    # %
  - Dalmatian pelican    + ^
  - Lesser flamingo    +
  - Indian tern    \* +
  - White ibis    \* + #
  - Curlew sandpiper    +
  - Eurasian curlew    \* + #
  - Godwit    % + #
  - VU** Common pochard    % \* + #
  - White necked stork    % + #
  - Indian skimmer    % \* +
  - Greater spotted eagle    +
  - Sarus crane    % + #
  - EN** Blackbilled tern    + \*
  - Brownheaded gull    \* + #
  - CR** Sociable lapwing    ^

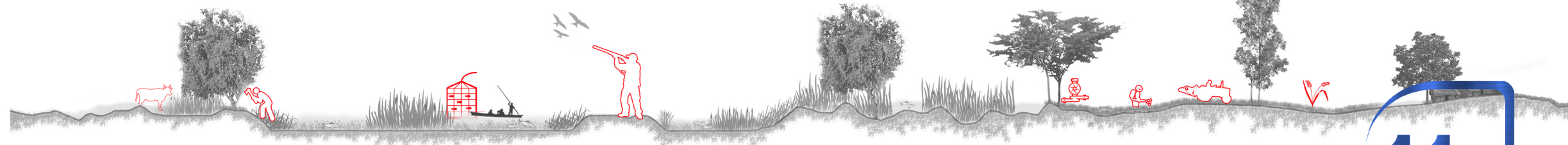
Map showing positive and negative anthropogenic influences, IUCN red listed birds of the region and their potential micro-cultural habitats



Map showing potential micro-cultural habitats (catalysts being a part of the larger cultural ecologies re-strengthen the fragile ecosystems) of the region.



Mutualism ( Scenario before change in attitude)

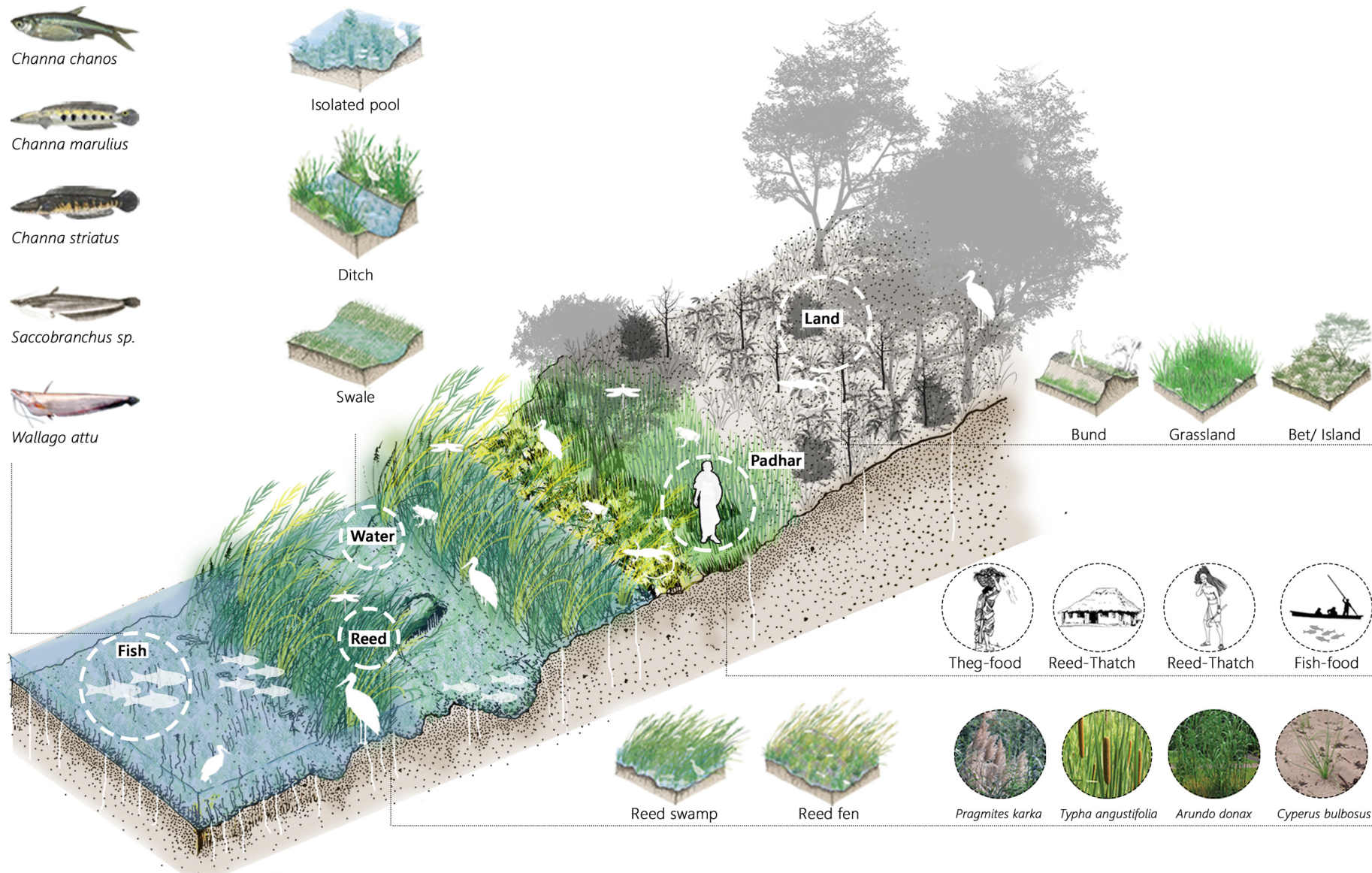


Parasitism (Scenario after change in attitude)

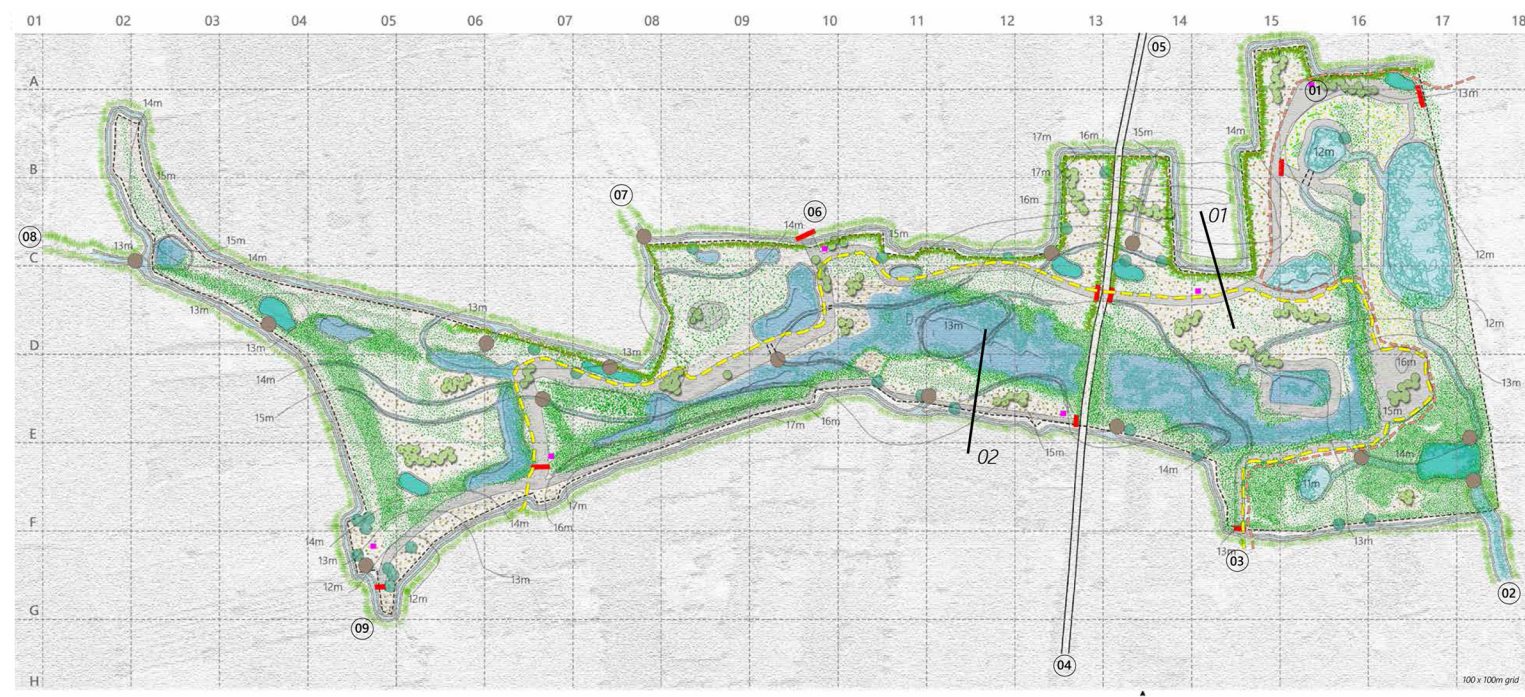
Section depicting the change in attitude ( from attitude of co-existence to domination) of the people of the region

# Idea of co-existence

Reed - Fish - Water - Tribes - Birds



Integrated system of farming and habitats



Landscape grain plan of an Integrated farm pond

- Legend**
- Bird habitats, Irrigation
  - Aqua pond
  - Filtration pond
  - Reed bed
  - Scrubland
  - Edge vegetation
  - Ditches and swale
  - Bund
  - Control valves
  - Watch towers
  - Entry/ exit
  - Site boundary
  - Existing road
  - Ecological zone
  - Cultural zone
  - Existing trees
  - Proposed trees
- 01 - Community space  
 02 - To macro habitat  
 03 - To fields  
 04 - To Nani kathechi village  
 05 - To Moti kathechi village  
 06 - To fields  
 07 - Irrigation outlet  
 08 - Irrigation outlet  
 09 - To fields



**Legend**

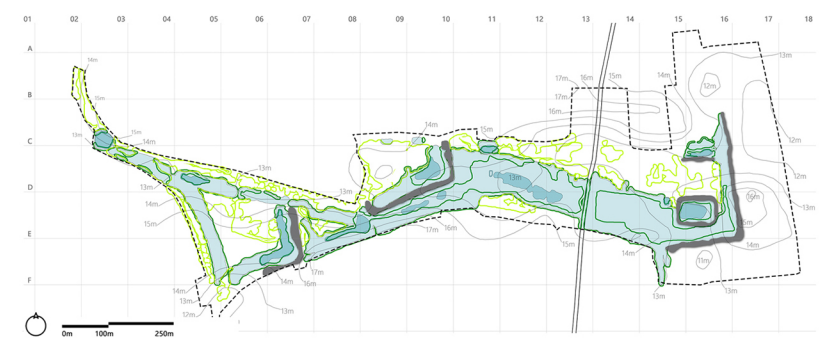
- Potential human habitats
- Potential bird habitats
- Outer zone
- Core zone



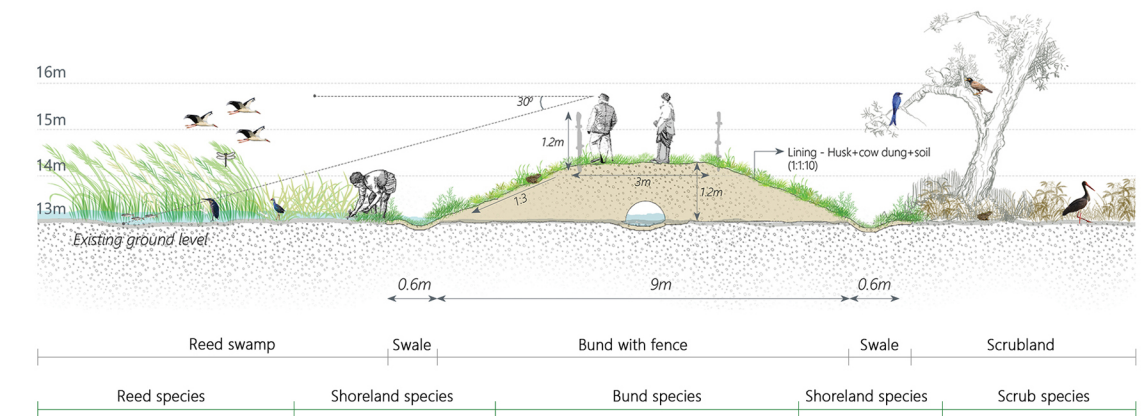
Analysis - Potential ecological and cultural habitats

**Legend**

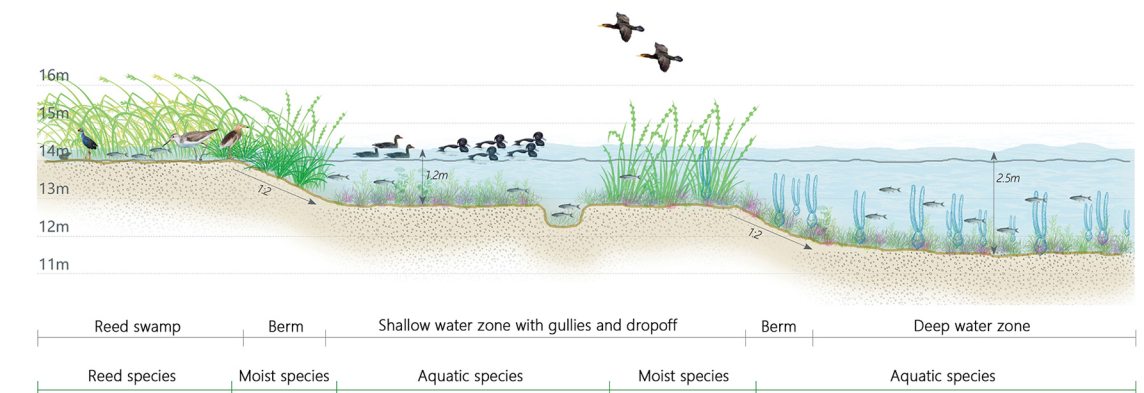
- Existing bund
- Water fluctuation zone
- Permanent water zone
- Reed fen
- Reed swamp



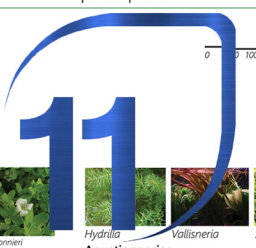
Analysis - Seasonal rhythm of water and potential zones for reed



Section 01 through bund

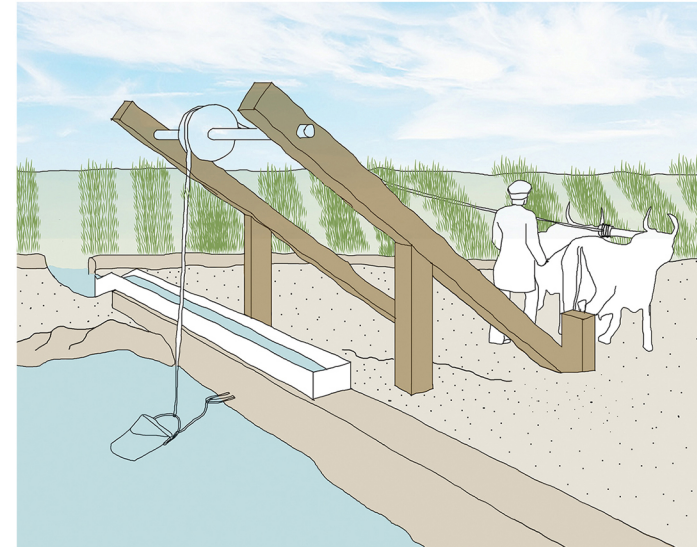
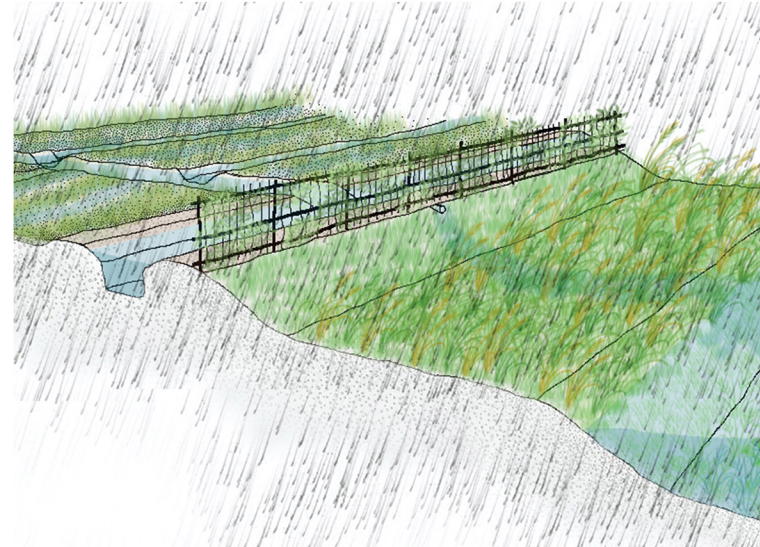
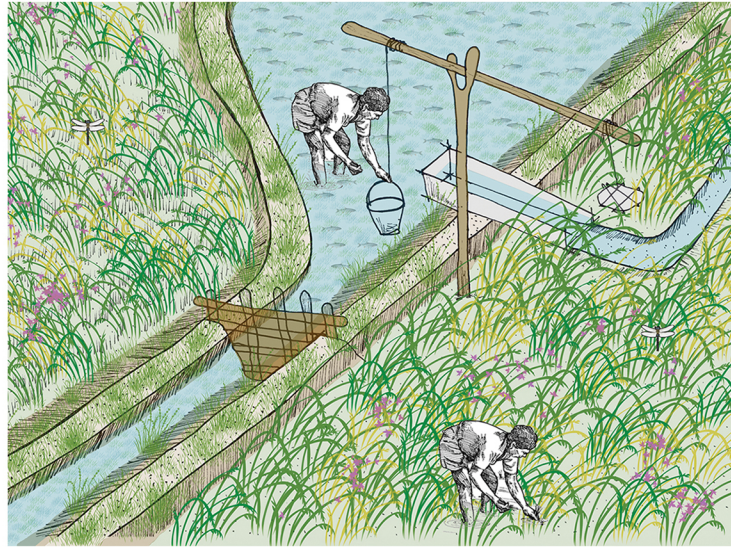


Section 02 through farm pond



# Imagining the site and its temporalities

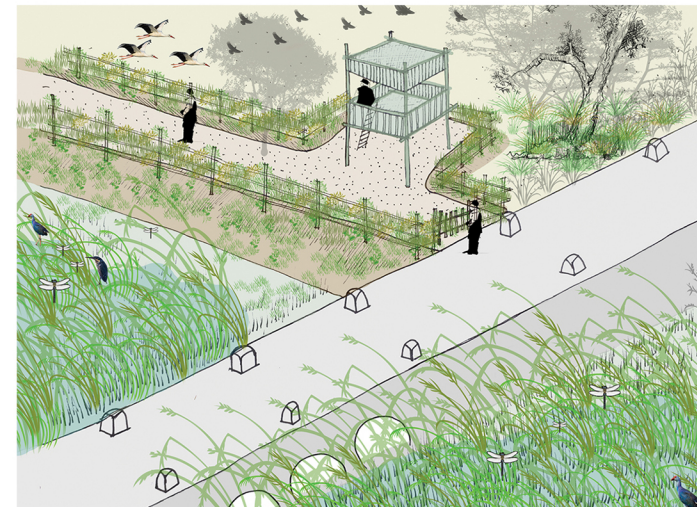
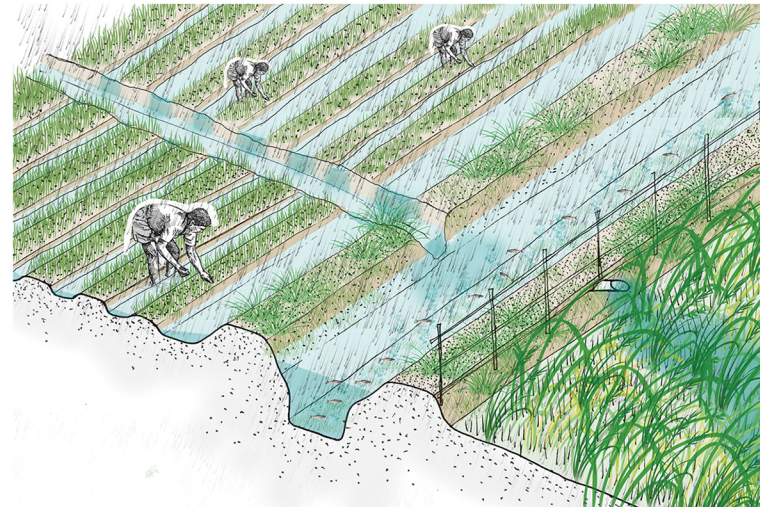
Reciting a new tale of siblinghood among the beings of the nature from the mythical story of past, re-establishing the cycles of shared dependencies, re-kindling notion of place for all, shared grounds



Summer - Maintenance activities, De-silting and de-weeding

Monsoon - Collecting, filtering and storing runoff, bird breeding

Winter - Irrigation, fish breeding, guided bird walk



Envisioning how the shift in attitude and livelihood dependencies can gradually be replaced with co-existence.

Summer

Monsoon

Winter

