



HYDROPOLIS 2017 - re-connecting with our urban waterways

Re-connect - how can we assign greater value to our waterways?

Better urban water management through a more integrated understanding of waterways

1. Ecological
2. Educational
3. Health and Recreation, and
4. Spiritual (Cultural) – part of 'our' living story

'place' a site of rich inter-connected systems

The traditional environmental drivers have expanded to include not only traditional ecological elements, but also those that are of a built, social and spiritual nature...

1. **natural** environment *(Johnson et al, 1997),*
2. **built** environment *(Brugmann, 2009),*
3. **social** environment *(Case, 2003, Bird Rose, 2015),* and
4. **spiritual** environment *(Lovelock, 2006)*

"environment" is expanded to embrace human values and considered to include where **people live, work and play (& pray)** *(Based on the Environmental Justice Movement 1980's)*

assigning greater value to our waterways - why?



philosophical approach

...this hinges around the understanding that the health of a 'place' has a reciprocal relationship with how empowered participants are engaged with their environment, or have a say in changing their existing condition into a preferred one.

This is within the respect and understanding and belief that real connection will only come from agency being given to participants, in order to better direct their present circumstance.

assigning greater value to our waterways - why?





background - north-west condition

Ecological



background - north-west condition





Ecological



background - multi-use corridors

Ecological



background - multi-use corridors

Recreational & Health



background - multi-use corridors



Recreational & Health



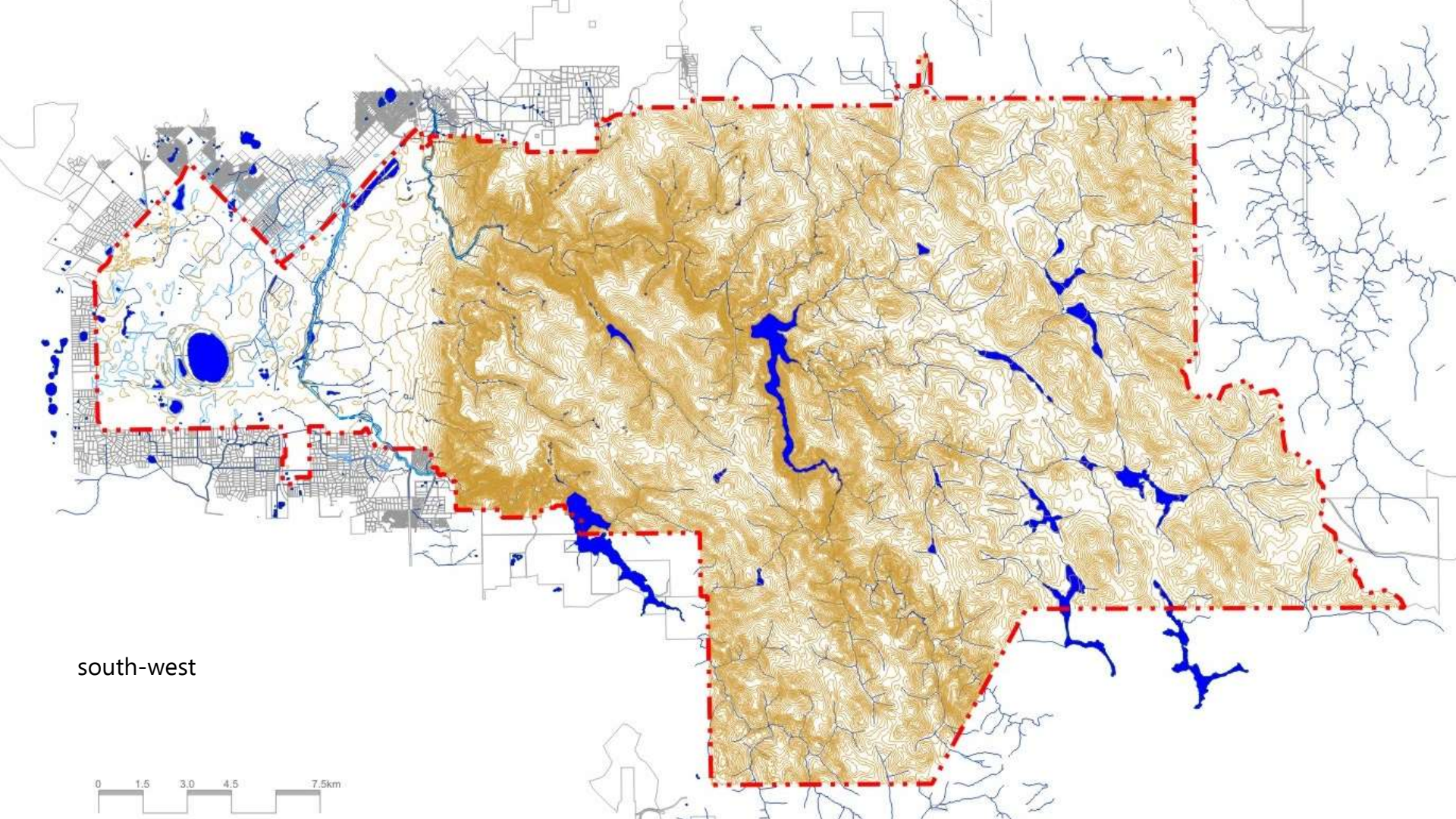
background - multi-use corridors

Recreational & Health



background - multi-use corridors





south-west



First Ecologists

Years of observation past down through connected stories (songs and songlines)

Noongar – Warkarl (serpent) & Wurool (caterpillar) dreaming stories

Each place on the Swan Plain has a part of the waterway story

P - Paleo channels (old waterways)

A - Artesian

W - Wetlands

S - Springs

S - Swales (overland waterways)





Reconnecting with waterway stories



Spiritual Relationship

“Spiritual world actions the physical world”

Noel Nannup (Noongar Elder)

Memories and traces of our Aboriginal history are still present along waterways, in streets and public places we all share. If we fully embrace this knowledge it can influence the way we define and develop our future built and natural environment in a way which makes us truly belong rather than just live in this great country of ours.

Dillon Kombumerri Yugembir (Gold Coast) – NSW Government Architect



"All our *mayi* (bush foods) and *warli* (bush meat) connect to one another.

So, for example, in *Barrgana*, the turkey eats the seeds and bush onions, which come out when all the bushes are in flower.

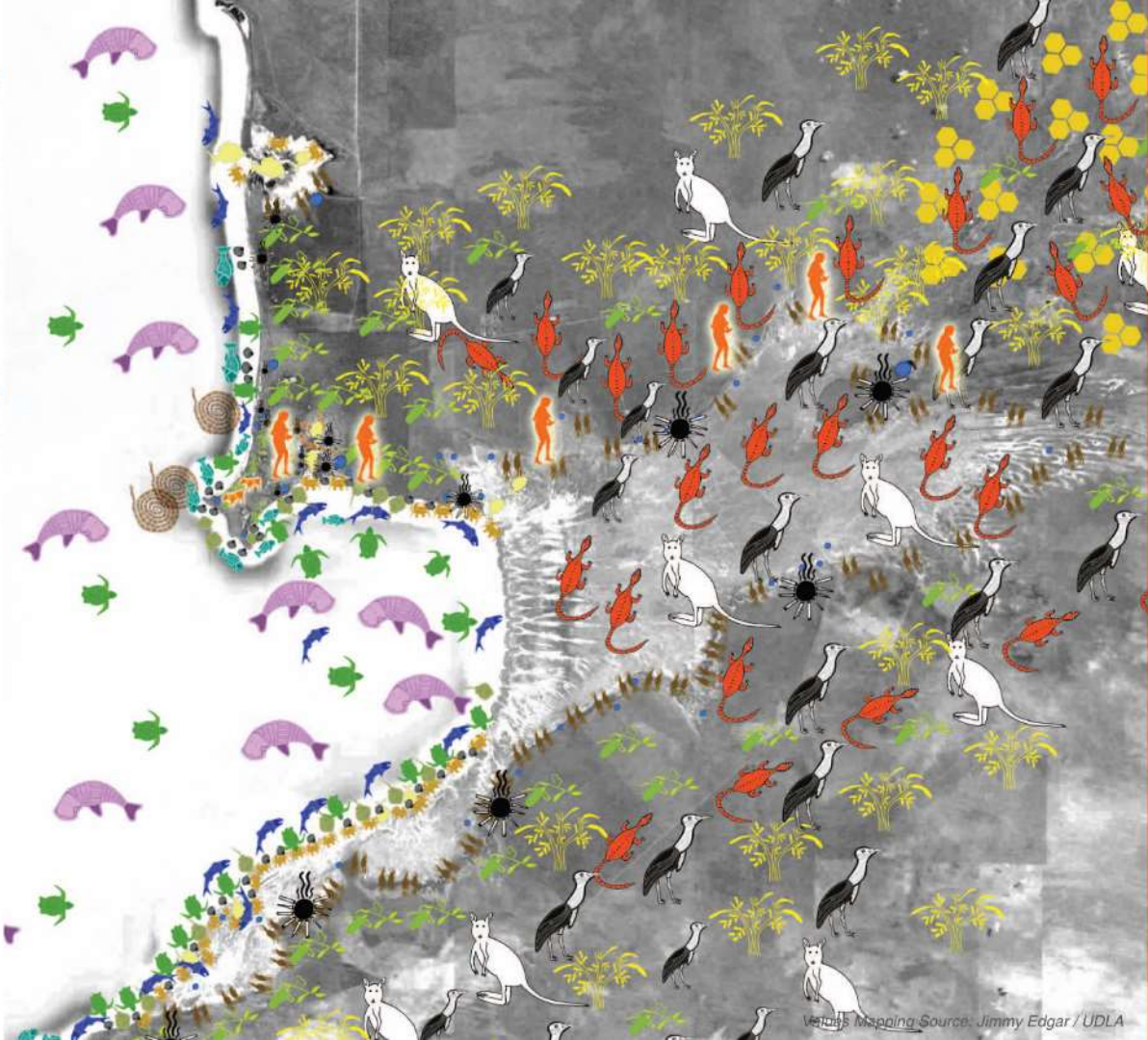
They have their nectar, that makes *girrbaju* honey.

That's when the turkey comes around.

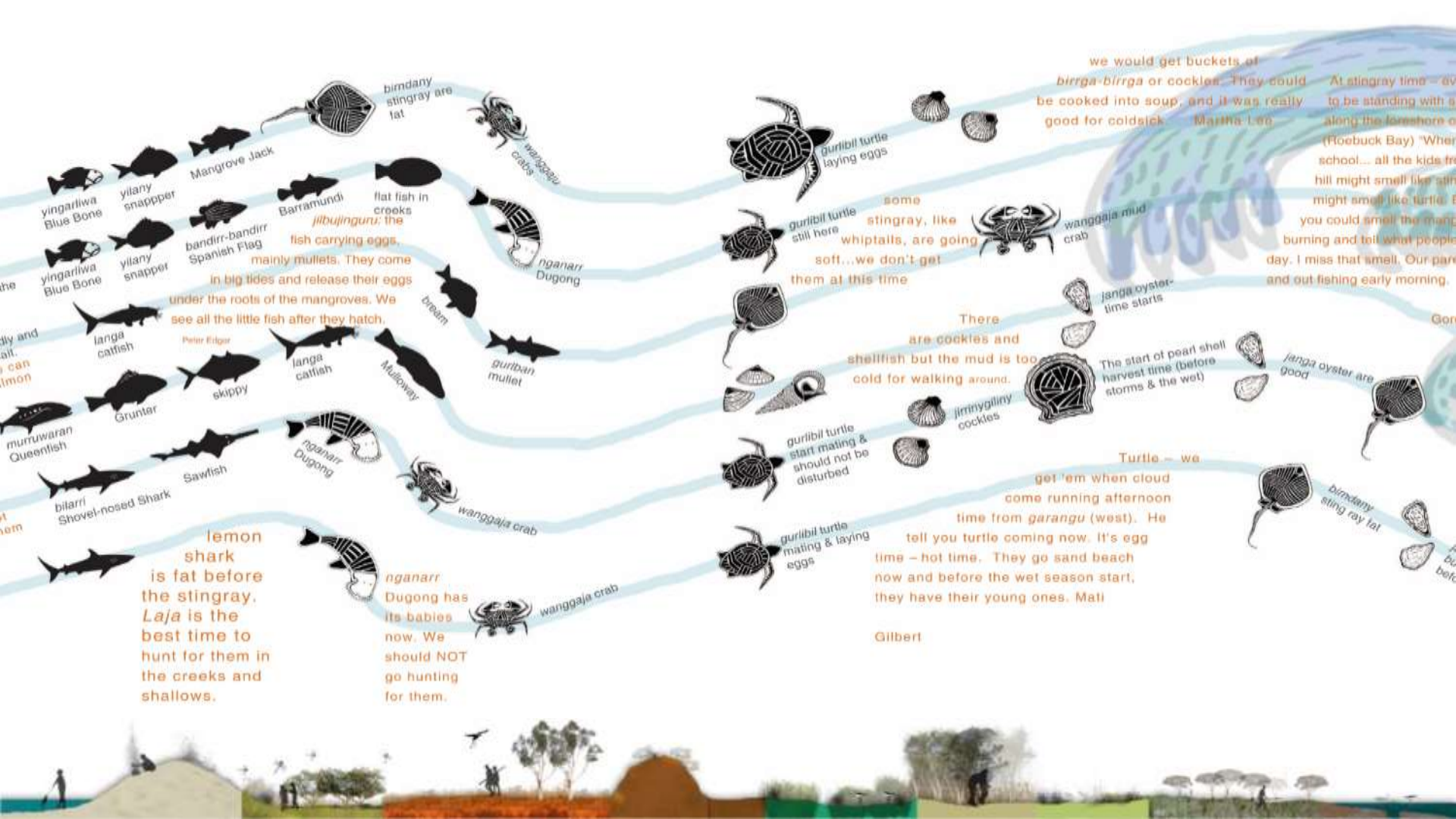
Kangaroo too. They also dig up *yarrinyarri* (bush onions) and grass roots too. So when we go hunting we look for them all".

Jimmy Edgar

This is an indicative map of harvest areas and some cultural sites. The Yawuru use and occupancy mapping project will develop precise maps of how Yawuru continue to use and live in their traditional lands.



Values Mapping Source: Jimmy Edgar / UDLA



yingarliwa Blue Bone
yingarliwa Blue Bone
yilany snapper
yilany snapper
Mangrove Jack

bandirr-bandirr Spanish Flag
Barramundi
flat fish in creeks
jilbujinguru: the fish carrying eggs, mainly mullets. They come in big tides and release their eggs under the roots of the mangroves. We see all the little fish after they hatch.

langu catfish
langu catfish
skippy
Grunter
muruwaran Queenfish

bilarr Shovel-nosed Shark
Sawfish
nganarr Dugong

lemon shark is fat before the stingray. Laja is the best time to hunt for them in the creeks and shallows.

birmdany stingray are fat

wangaja crabs
nganarr Dugong

breem
Mullet
guriban mullet

wangaja crab
wangaja crab

nganarr Dugong has its babies now. We should NOT go hunting for them.

guribil turtle laying eggs

some stingray, like whiptails, are going soft... we don't get them at this time

There are cookies and shellfish but the mud is too cold for walking around.

guribil turtle start mating & should not be disturbed

guribil turtle mating & laying eggs

Gilbert

we would get buckets of birrga-birrga or cockles. They could be cooked into soup, and it was really good for coldsick Martha Lee

wangaja mud crab

janga oyster-time starts

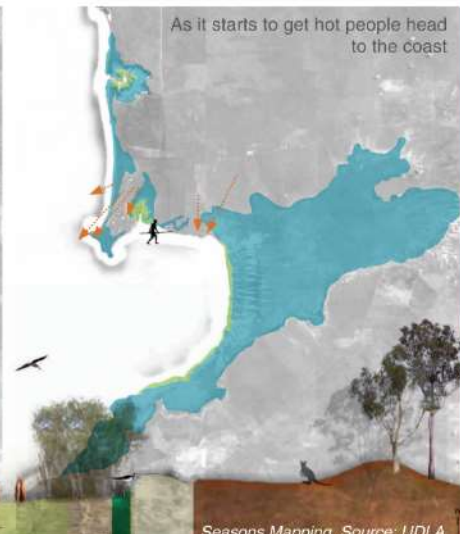
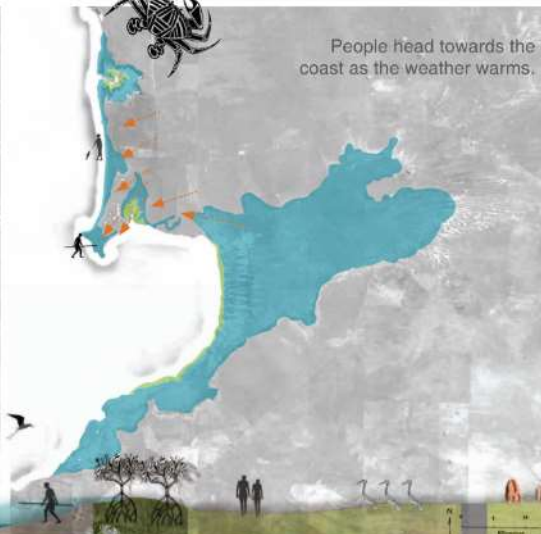
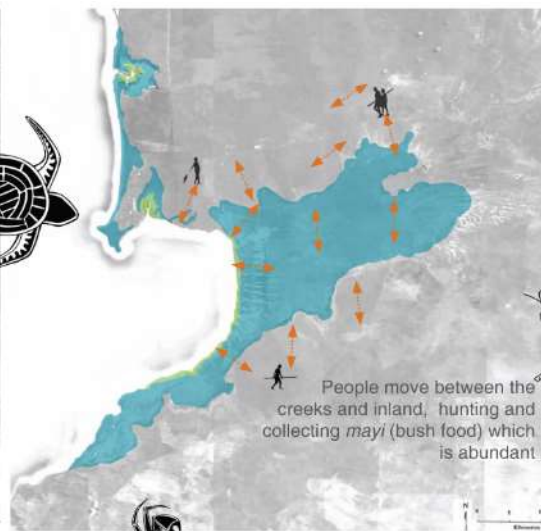
The start of pearl shell harvest time (before storms & the wet)

Turtle - we get 'em when cloud come running afternoon time from garangu (west). He tell you turtle coming now. It's egg time - hot time. They go sand beach now and before the wet season start, they have their young ones. Mali

At stingray time - even to be standing with a school... all the kids might smell like burning and tell what people and out fishing early morning.

janga oyster are good

birmdany sting ray fat











story telling to connect the intergrated values (shared memory)



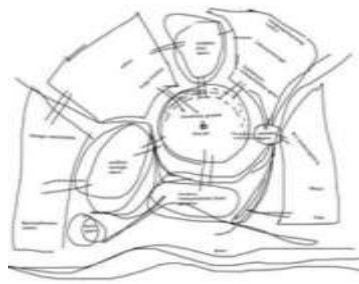
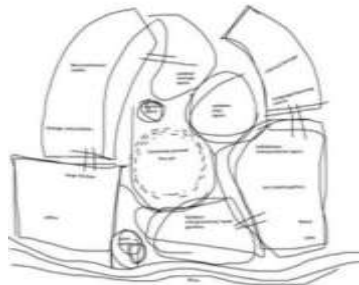
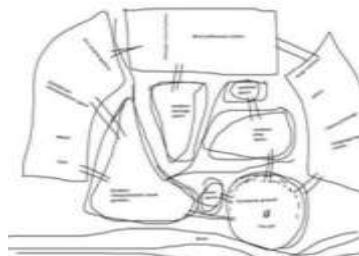




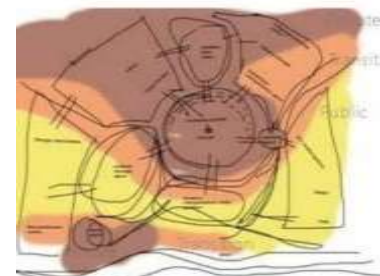
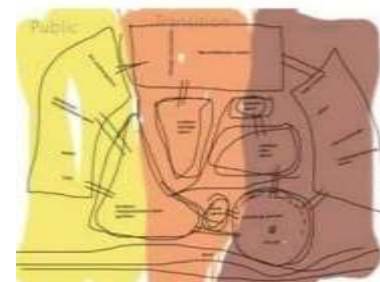
Kit of parts - programming

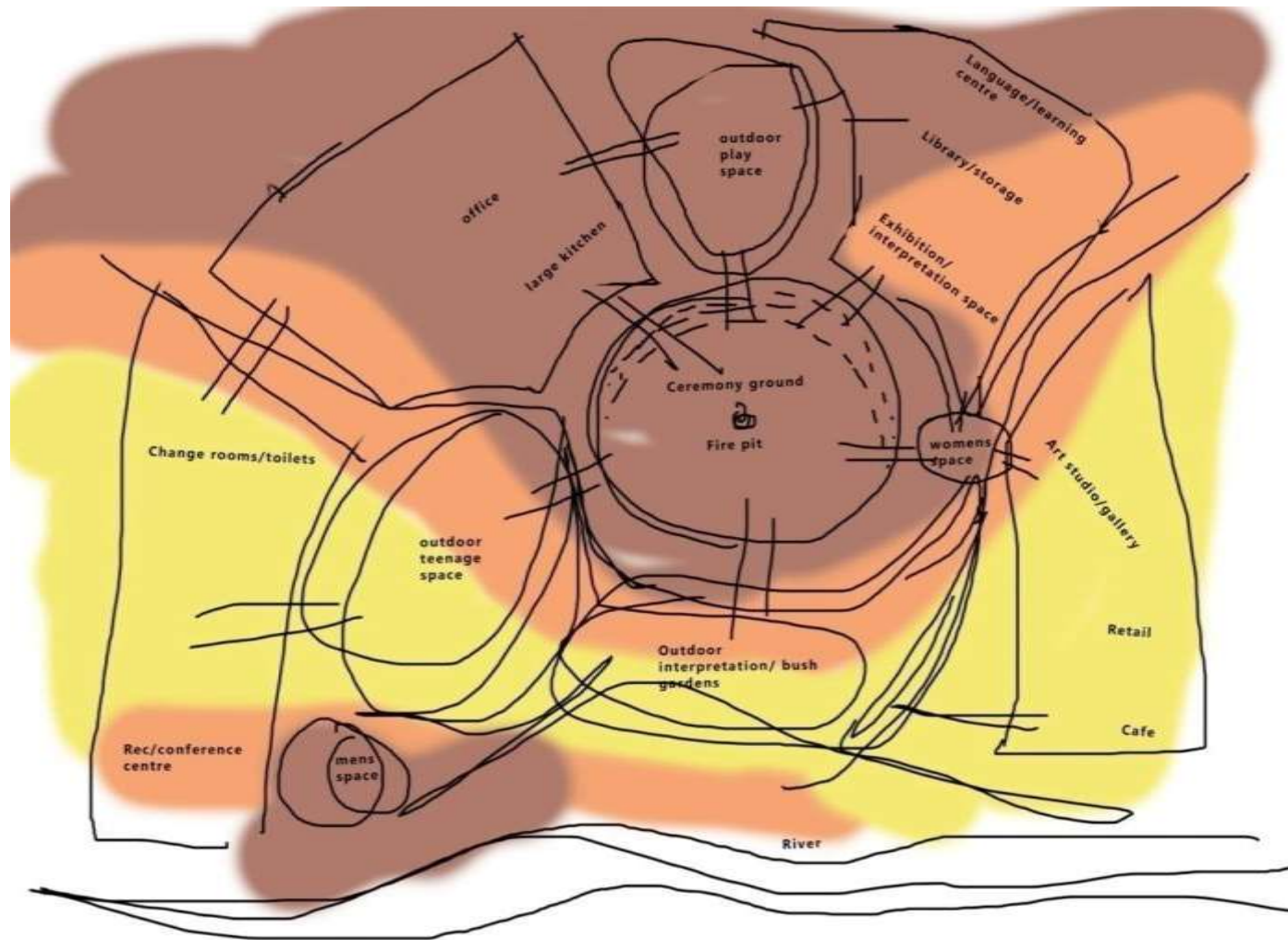


Possible site layout



Private Vs. public spaces





DOΘ

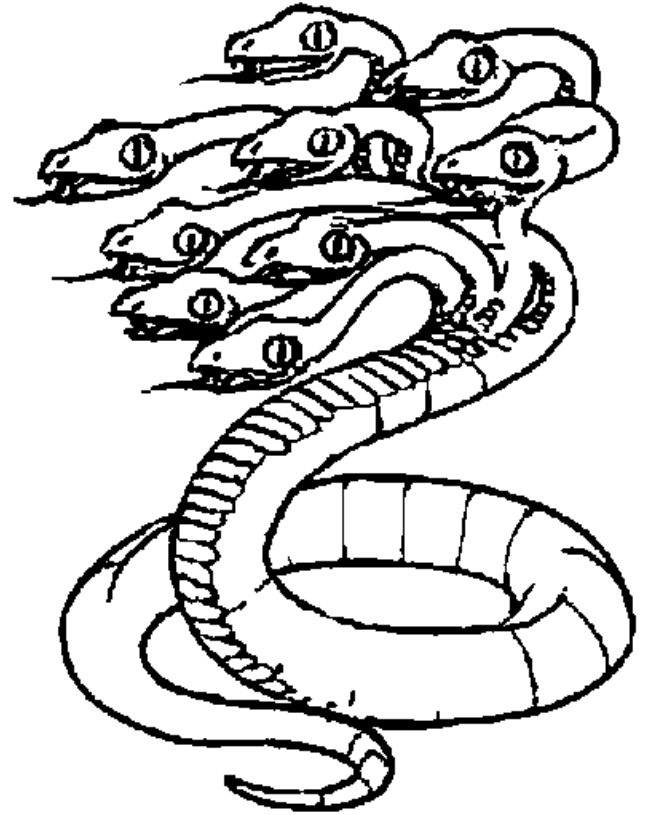
Protector of
ΘΗ's Waterways



~~POSEIDON~~ DOΘ

WATERCORN

W's distributor
of water



Hydra WATERCORN

THANKYOU

Stories attune us to our environments, Sharpen our perception and refine our actions. Stories connect us to long lines of becoming.

Dr. Tod Jones (Curtin University)

