

# Design Goals

The SUTD pond fills an area of 4866m<sup>2</sup> which accounts for just under a **whopping 5%** of the gross floor area of SUTD. It houses the Jackie Chan pavilion which splits the boardwalk into 2 accessible areas where **majority** of social interactions take place.

Although the pond offers a tranquil escape away from the hustle and bustle, utilisation rates have been sporadic as the compound shows **visible signs of aging**. The lack of shelter, seating and abundance of mosquitoes are just some of the pain points that contribute to its **uninviting nature**.

Increasing footfall into the space would also be beneficial as increased utilisation rates would mean that the school population would be **more spread out**, reducing the population density in other parts of SUTD and making the school feel **less cramped**. This is needed as the school looks to increase its intake and revamp its academic calendar in the coming years.

Thus, there is a pressing need for an intervention which **amalgamates function and aesthetics** to attract users into the space and **enhance social interaction**.

To do that, we decided on a targeted approach to **redesign** the activity of feeding and watching fish.

# Opportunity Statement

How might we introduce a **more interactive way** of **feeding/watching the fishes** in the pond?

# Analysis

**3D Map:** The only shelter in the area is the Jackie Chan Pavilion in the centre of the pond. It is often **closed** and thus, there is **no shelter** along the footpath. This means usage of the pond is heavily dependent on weather conditions.

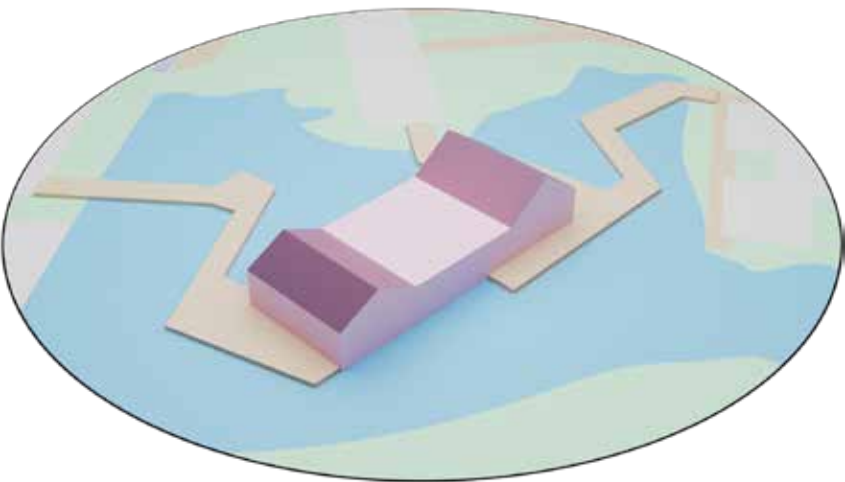
**Circulation:** This shows how users move through the space and their arrows represent the **direction** of their movements. These boardwalks **do not have linkage** across them; thus, it leads to **dead ends** and users are unable to move from one block to another. We observed that there are only two possible footpaths that are loops, which makes the experience **repetitive and boring** after a few visits.

**Attractiveness:** We assessed the site by taking the **360° view** at different points on the boardwalk. This scale follows a traffic light system with red being the worst views and green being the best views. We noticed that views closest to the start of the boardwalk are **more appealing**, because most scenic elements are able to fit within the users' periphery. Therefore, there is **less interaction** with the environment as we go deeper into the pond.

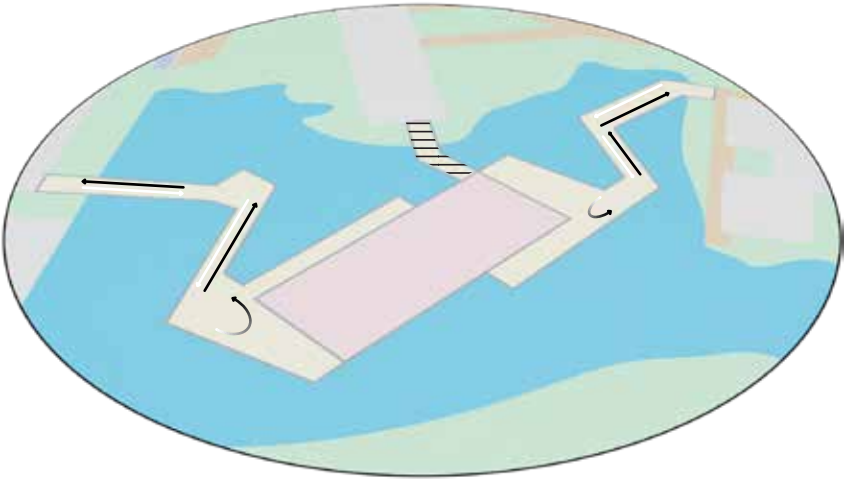
Joshua Leong (1008068) | Lincoln Lightman (1008067)  
Kalista Phey (1007691) | Ryan Teo (1008343) | Wang Zeyu (1007832)

# Layers

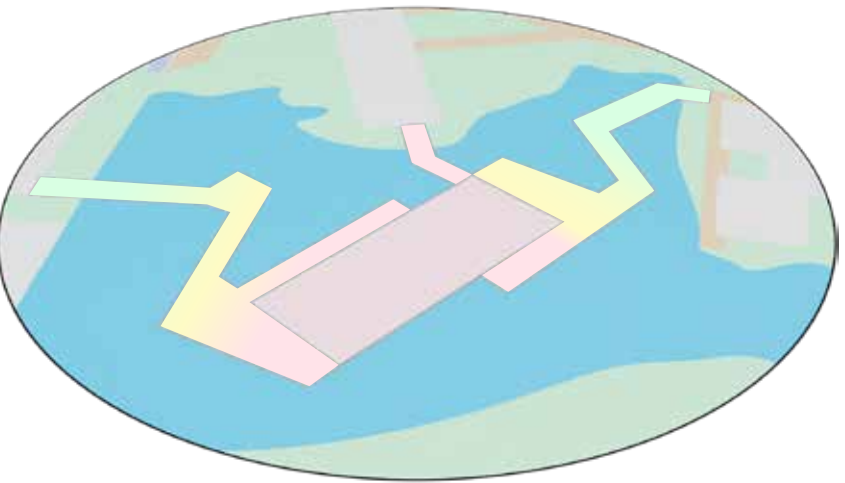
3D Map



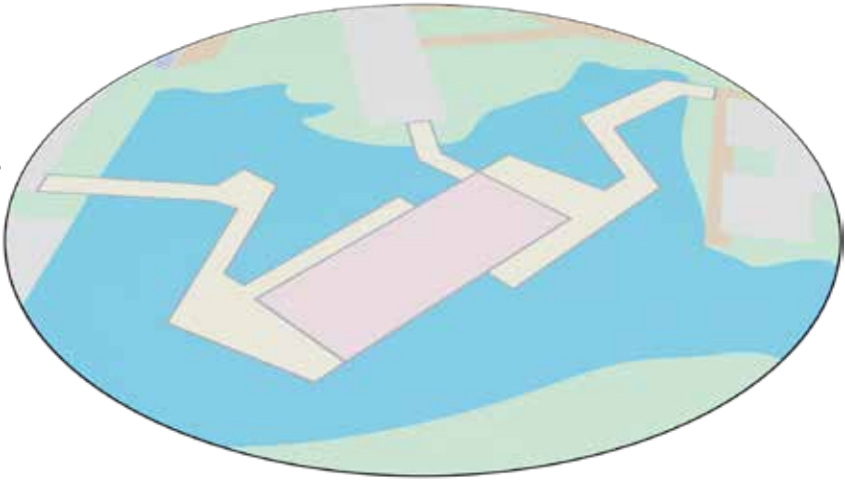
Circulation



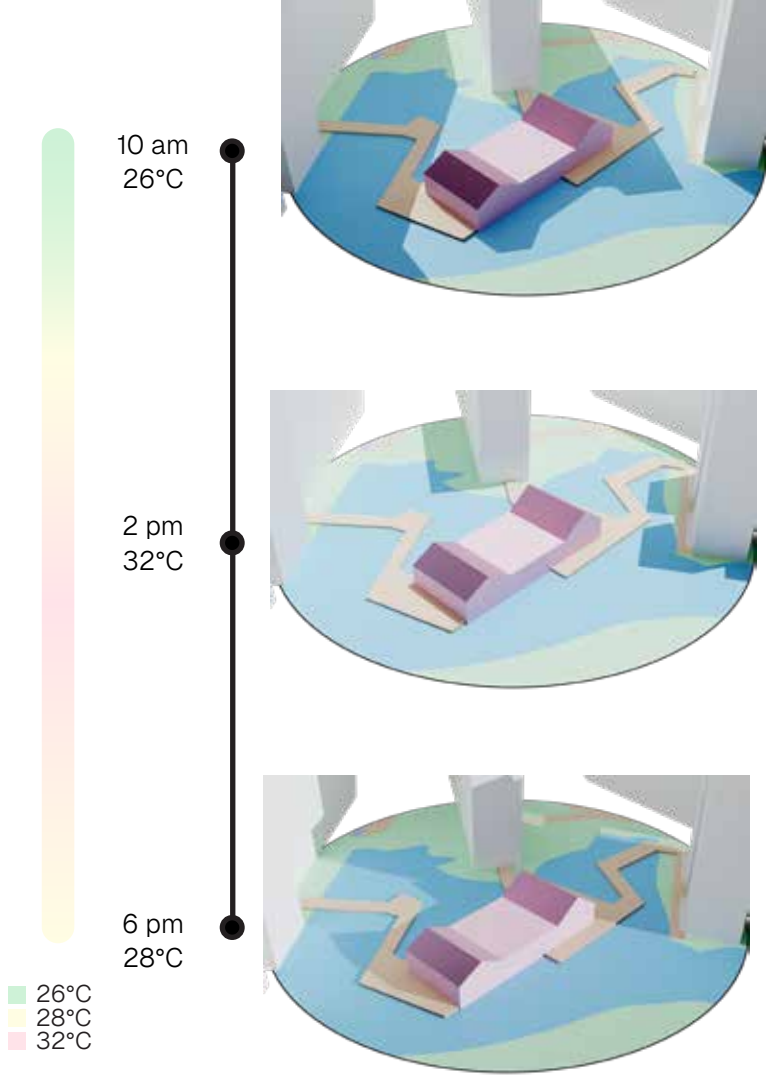
Scenic Scale



Base Layer



# Shadow Diagram



**10 am:** shadows are cast by hostel blocks 57 and 59. There is the **most amount of shade**.

**2 pm:** barely any shadows cast on boardwalk, resulting in the **least amount of shade**. This is also the least popular timing to visit.

**6 pm:** shadows are cast by Jackie Chan Pavillion and block 55.

# Wind Diagram



Environment

The pond and the pavilion create a picturesque setting, offering rich cultural and architectural tapestry.

Natural white noise and lush greenery around the pond helps **alleviate stress** and makes the environment cooler respectively.

The pond is a habitat for aquatic life, namely to terrapins and a variety of fishes.

Users

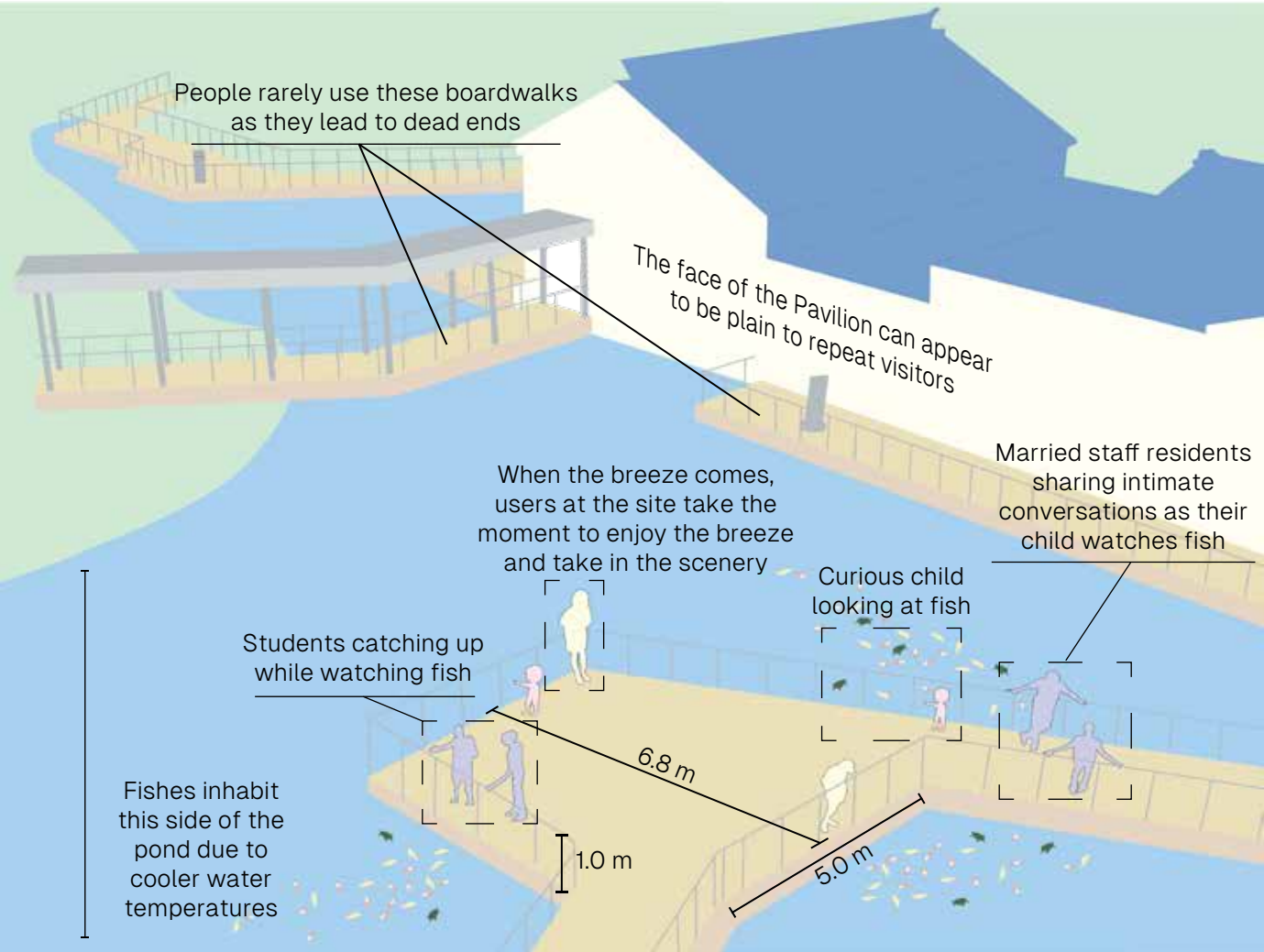
- They frequent the location at varying times:
- Students mainly visit in the evening or night after classes.
  - Children of teaching staff can be seen there with their parents after their daycare
  - Additionally, teaching staff take walks with their significant other in early mornings and evenings

Activities

The pond allows children to **observe the diverse wildlife** that inhabit the pond, **connecting them with nature**.

Troubled staff can seek a **brief escape** from their busy routines: the calming waters provide **moments of respite**.

Finally, for students, the pond turns into a nighttime retreat. Offering a tranquil backdrop for **late-night walks** and **heartfelt talks**.



Personas



Age: 22

**Xavier Tay**

Traits:

- Tired
- Wants to relax

Likes	Dislikes
Places to unwind	Hot sun
Scenic views	Dirt and filth



Age: 49

**Kelly Pang**

Traits:

- Stressed
- Wants to spend time with family

Likes	Dislikes
Relaxation	Hot sun
Scenic places	Inadequate lighting



Age: 4

**Sarah Leong**

Traits:

- Playful
- Curious
- Full of energy

Likes	Dislikes
Bright colors	Feeling disconnected from nature
Feeding fish	

Before

At the Pond

End

Intervention Points

	Before	At the Pond	End
Sarah (Child)	<p>While at childcare, Sarah learns about animals and the environment and glance and frequently glances out of the window in curiosity at the pond.</p> <p>“I hope mom brought food to feed the fish.”</p> <p>5:00PM</p>	<p>Sarah's parents pick her up and bring her to the boardwalk, knowing she loves to feed the fish. Sarah eagerly feeds the fish, but finds that the food she throws doesn't land in front of the fish she wants to feed.</p> <p>“I wish there was a better and more fun way to feed fish...”</p> <p>5:30PM</p>	<p>Sarah soon grows bored and quickly feeds the remaining food to the fish, returning to her parents quicker than they expect. When asked if she wants more food to feed the fishes at the other side. And she replies: “It's the same thing, we go home”</p> <p>5:30PM</p>
Xavier (Student)	<p>Xavier has been doing his DTI submission in his hostel room for the past 6 hours. He looks out the window at the pond, thinking, “Perhaps a walk will be good.”</p> <p>“It's a bit cloudy, hopefully it doesn't rain.”</p> <p>3:00PM</p>	<p>Xavier spent some time talking to a friend at the lift lobby, and the sky cleared once he reached the pond. He watches the fish under the sun but quickly finds himself sweating.</p> <p>“Ahh, it's so hot, I need to take a shower now.”</p> <p>3:30PM</p>	<p>Unable to take the heat, Xavier returns to his hostel room.</p> <p>“Wah I got two mosquito bites also...”</p> <p>3:35PM</p>
Kelly (Staff)	<p>After a long day of teaching &amp; meetings, Kelly is in need of a breather and some physical activity. She calls her husband, who is also faculty, to join her on a walk at the hostel pond as she heads back from Building 2.</p> <p>6:00PM</p>	<p>Kelly and her husband walk around the garden by Blk 59 and onto the boardwalk, taking in the oriental architecture of the Jackie Chan Pavilion as they walk towards it. Looking into the building, they recall when it was last used before turning back.</p> <p>6:15PM</p>	<p>Kelly and her husband walk around a bit more before heading to their residence in Blk 51. As she heads back, she looks back to the Jackie Chan Pavilion and feels she could have stayed longer.</p> <p>“If only there were proper seats there to relax there.”</p> <p>3:35PM</p>

- Feeding the fish is a fun activity for children, but can get repetitive
- The fish and scenery currently do not maintain visitors' interests for very long
- A lack of seating on the boardwalk causes people to leave the Jackie Chan Pavilion's vicinity after prolonged standing
- There is a lack of shelter from the elements on the boardwalk, deterring visitors when there is rain or hot weather
- There is an issue of mosquitos near the pond
- The Jackie Chan Pavilion has been under-utilised, lacking traffic despite its cultural heritage

