

#### **Project Outline**

- Project brief
- Site
- Site analysis
- Concept
- Objectives
- Design development
- Users
- Design plans

- Design features
- Future Use
- Regenerative checklist

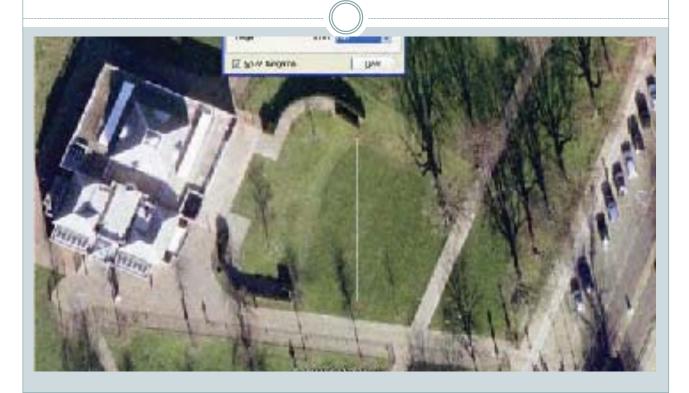
#### Project Brief

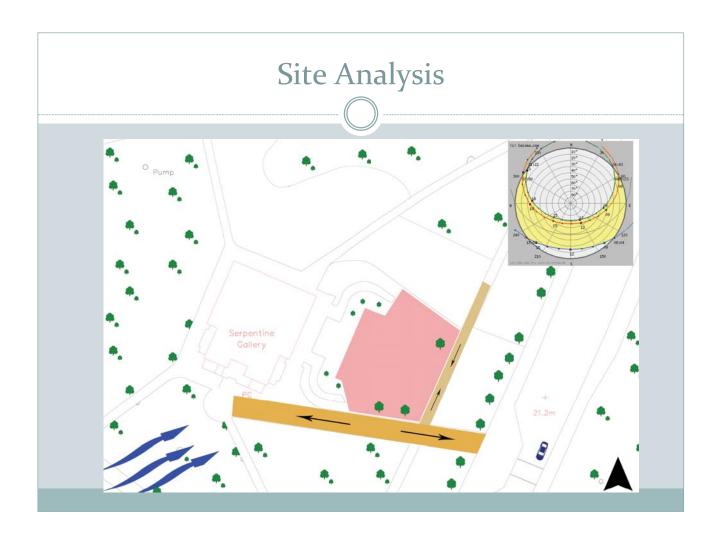
- Serpentine Gallery Pavilion Commission
- Pavilion should be...
  - Beautiful
  - Environmentally responsible
  - Culturally Relevant
  - Net zero/carbon neutral

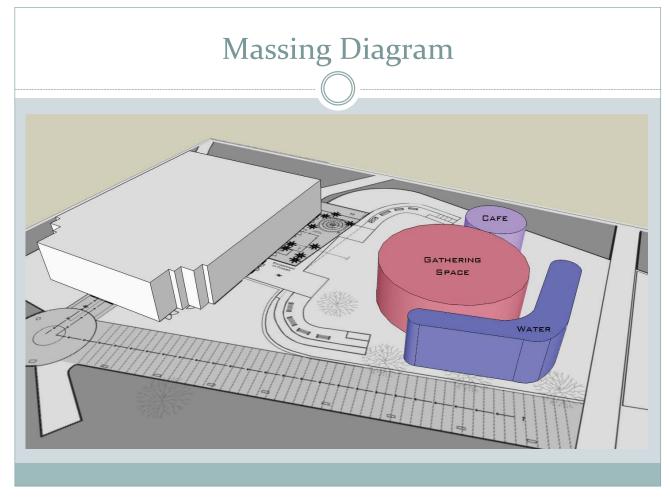
#### • Address:

- o Passive heating/cooling
- Green construction & materials
- Reduced energy use
- Public education
- Transportation
- Deconstruction/future use
- Water/energy conservation

### **Existing Site**







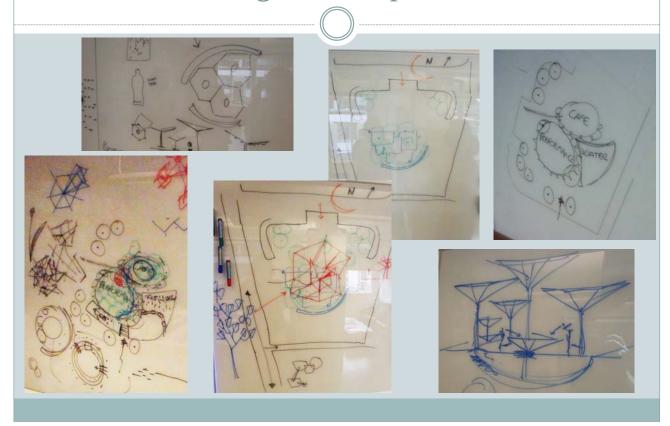
#### Concept

Mimicking nature, the element tree pavilion invites guests to explore, experience and learn how beautiful regenerative design can be by challenging previous pavilion installations. Element tree utilizes low carbon materials as well as energy generating technologies and can be dismantled and dispersed as separate art installations after its stay at the Serpentine.

#### Goals & Objectives

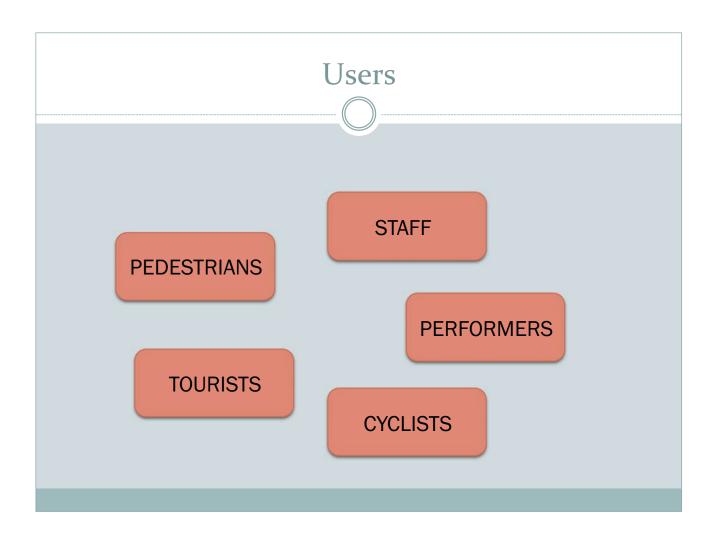
- Create an accessible structure
  - Provide ramps in areas of differing elevations
- Use passive cooling
  - Shading by structure canopy
  - Use SW breeze across water feature to cool occupants
  - Hot air will escape through canopy top
- Interact with surrounding landscape
  - Users will navigate through planters for entrances
- Structure must regenerate elements
  - Solar panels produce electricity for cafe
  - Solar thermal to provide cafe with hot water
  - Indigenous plants will provide fruit and vegetables as well as clean air

### Design Development



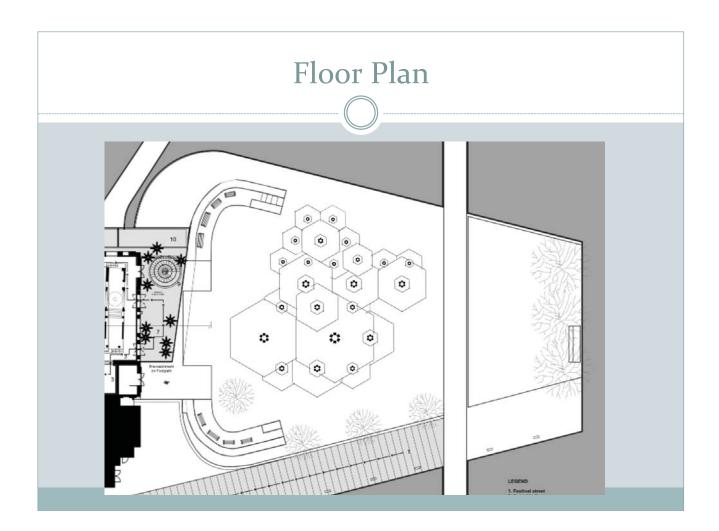
### **Concept Perspective**

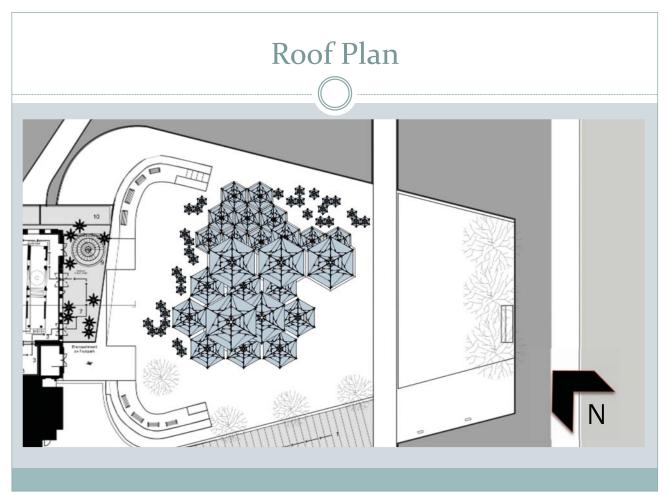


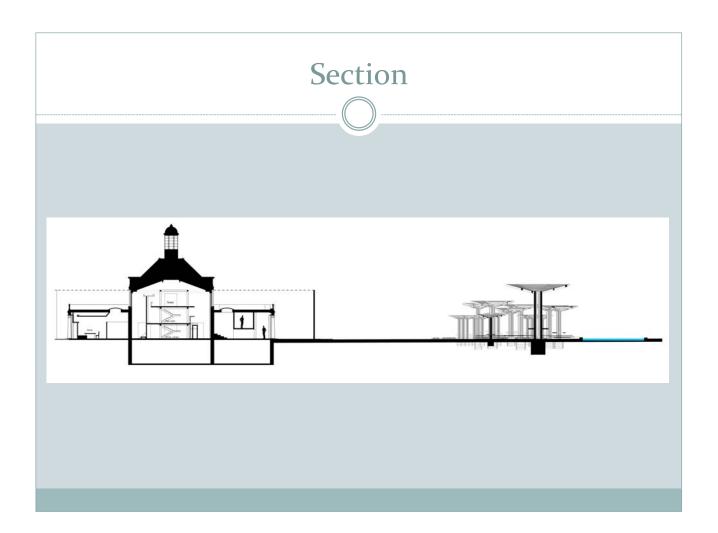


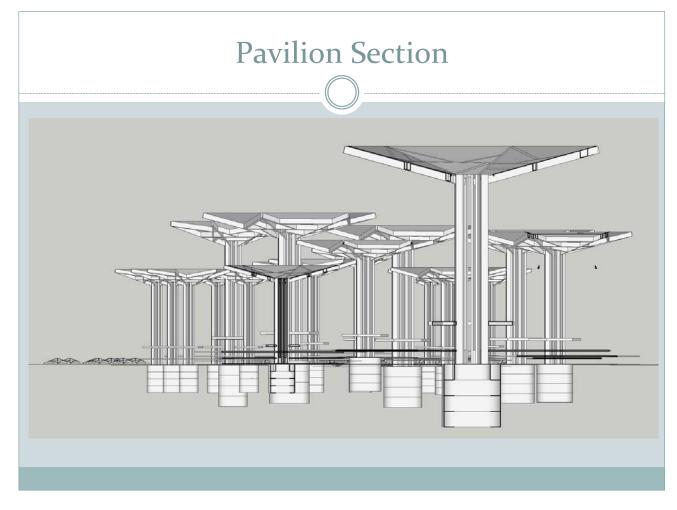
# Design Plans

FLOOR PLAN SITE PLAN SECTIONS PERSPECTIVE DIAGRAMS









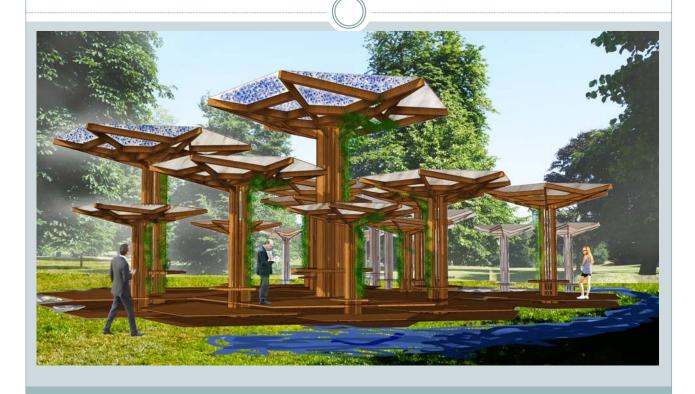
### North Perspective



### South Perspective



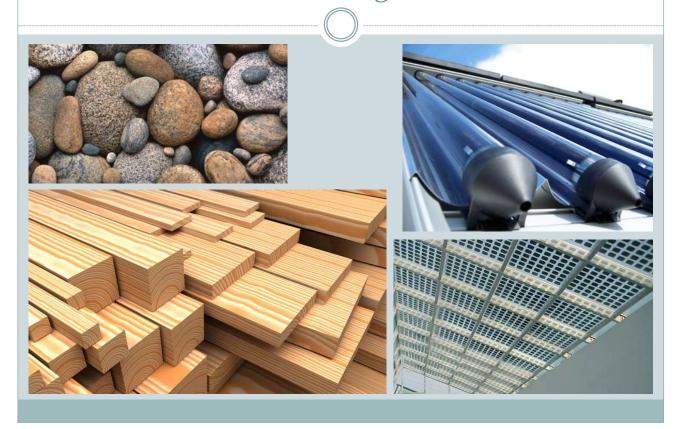
### Perspective



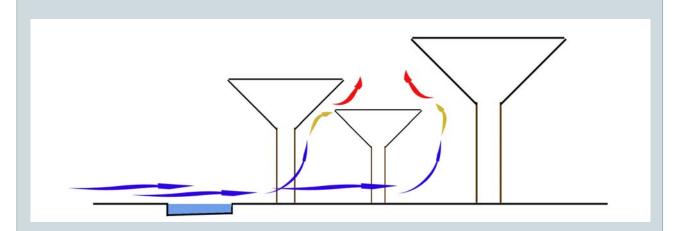
## **Green Elements**

PASSIVE & REGENERATIVE BENEFITS TO OUR DESIGN

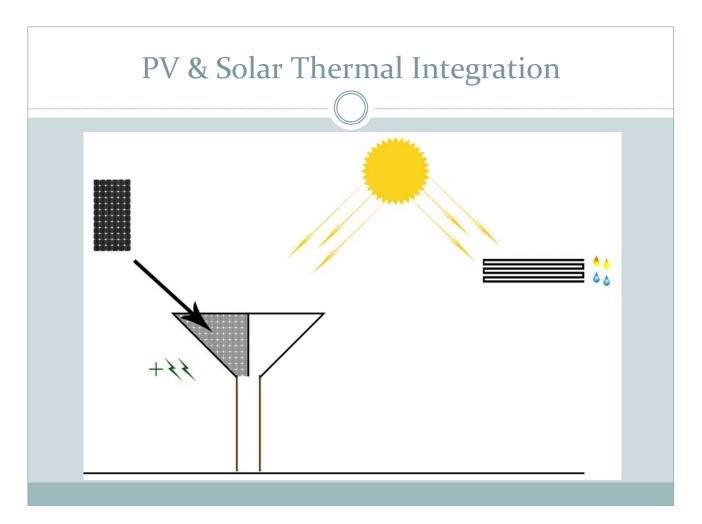
### Low Carbon Materials & Energy Generation Technologies

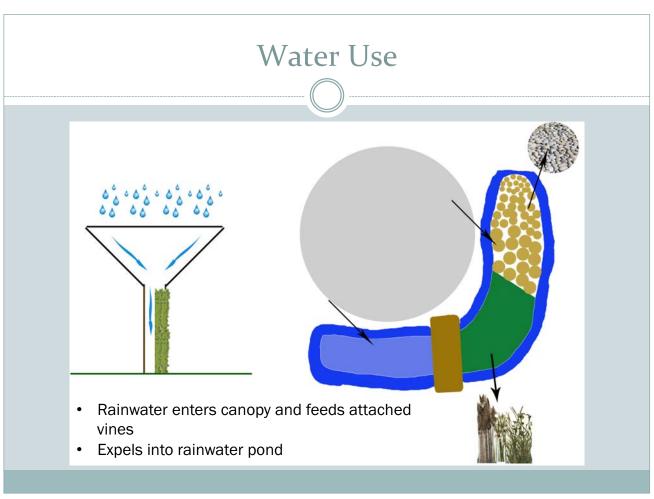


### **Passive Cooling**



- · Summer winds from SW blow across rainwater pond and cool visitors
- Heat rises up through canopy





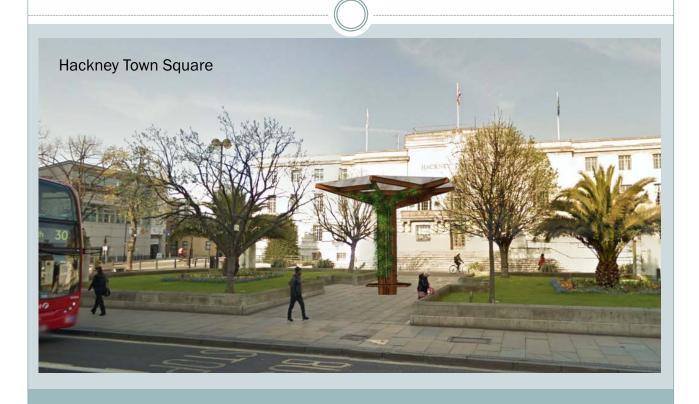
### Indigenous Summer Plants



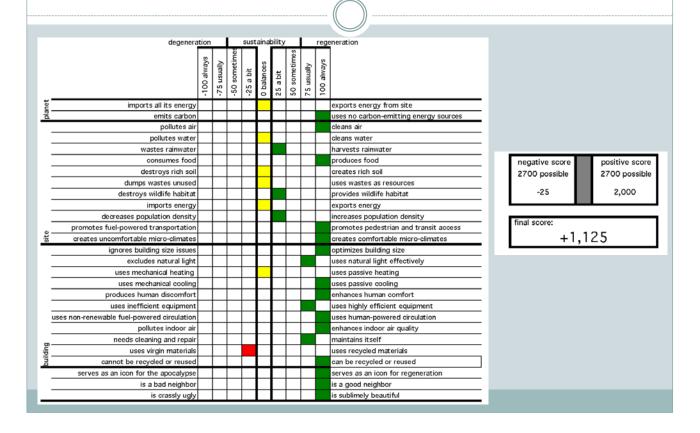
- Cleans air
- Produces food for consumption
- Can be used at cafe



### Disassembly & Dispersement



### Regeneration-Based Checklist



### Thank You!

QUESTIONS?