01 Gold Coast Web / Content Rich

Gold Coast Web
Characterized by a long coastline and a complex mesh of rivers and canals, the Gold Coast is clearly a community linked by water. The Gold Coast Web is a concept that has the Gold Coast’s symbolic “flow of water” as its motif. This entire project will unfold with the Gold Coast Web-like pattern as its basic structure.

New Encounters with Art, Enjoying Art in Swimsuits
This venue does not take on the conventional, formal closed-box style, but is a casual space where visitors can experience the distinctive Gold Coast style through their five senses, for instance, enjoying art in swimsuits or exploring exhibits on the lake or in the forest.
02 Outdoor Web / great outdoor

Water changes shape and form in pace with the environment and is a real time reflection of the climate of the age, constantly changing and altering its expression in a multitude of ways. Here, art, architecture, and the landscape integrate like water, always changing as time comes and goes. The undulating terrain, the smooth flow of traffic, the abundant vegetation, and art that blends into the environment create numerous scenes and settings for human activity, making it a creative platform where new inspiration and aesthetic sensations can be discovered each time it is visited.
03 Link Web / city link

The diverse networks linking areas inside and outside the site and the Gold Coast Web unfolding within the site will be integrated to form an organic and integral transport network. The network of pedestrians and cyclists using the green bridges; the water traffic network using the ferry terminal; the underground car parks; and the bus and taxi terminal considered for site E1 will be integrated and continuous through the Gold Coast Web so that this precinct can serve as the new transport hub of the Gold Coast.
04 Digital Web / digital potential

Each element of the architecture and artefact unfolds randomly on the Gold Coast Web. A composition that allows such random and diverse connotations has a high affinity with the concept of the Internet, represented by the World Wide Web, and is a scheme that can maximize digital potential.

1. Pursuing the possibilities of a digital workshop and educational program:
Creating participatory works of art on the web, and presenting and appreciating the works using architecture as a canvas.

Projection Mapping Art: A workshop site will be launched on the web where participants can enjoy the harmony of architecture, images, and music by creating projection mapping on architectural models. Outstanding creations by the participants will be projected on actual architecture for presentation as light shows, including performances to mark the hour after nightfall.

Smartphone Art: Various smartphone apps will also be developed so that visitors can casually enjoy art by using architecture as a canvas.

AR (Augmented Reality) Art: A workshop site will be launched on the web where participants can create 3D sculptures, buildings, mascot characters and others on facilities such as the atrium, water stage, and garden, and also add original music, voices, and sounds, and messages. There are unlimited ways to enjoy this form of art; for instance, creators could explain the intention of their work, or live sessions with the mascot characters could be held. When the creation is unveiled on the website, visitors can use their smartphones or tablets to appreciate the work of art superimposed against the actual background. This can also be used in digital art education programs or workshops where art is created in the classroom and appreciated both indoors and outdoors.

2. Presenting and sharing information about works of art and building a data infrastructure for archiving:
Conveying and sharing the excitement and information about pieces of work to make art appreciation even more enjoyable.

AR Guide & Tour: Guided tours can be conducted by confirming the position of the visitor through his/her smartphone sensor. A guide to the works through augmented reality, with interviews with the artist or detailed explanations appearing, will also be possible by holding the smartphone over the work of art or digital caption. This can be used for guides to the permanent exhibition, public art, or greening.

Digital Caption: Digital signage will be used for the captions of the permanent exhibition. Digital archiving of the collection and detailed information is also possible.

Community Site: The excitement of art appreciation will be shared through image sharing and connection with SNS. The site can be made public over the Web and at the exhibition hall, and presented on the hall monitors as well as caption monitors of the exhibited works.

WiFi Network: Build a WiFi environment throughout the area.
05 Smart Web / high performance

Sustainability
The water for the great water stage is provided by stored rainwater. The water pool not only has thermal insulation properties, but the cooling effect of evaporation under the strong sunlight of the summer season lessens the load on air conditioning in the summer. The buildings' air conditioning is mainly for cooling. By using river water as cooling water, this system will effectively employ natural energy.

Friendly to the environment
From the perspectives of “water”, “light”, “heat”, “wind”, “acoustic” and “renovation” a diversity of environment-friendly technologies that fit the conditions of the site will be adopted to design systems that harmonize with the architectural design.
General Map 1

- **Site wide and Shared Provisions**
  - A1. Welcome Center
  - A2. Retail Shop
  - A3. Food and Beverage Outlets
  - A4. Catering Kitchens
  - A5. Amenities
  - A6. Operational Spaces
  - A7. Utility and Services
  - A8. Terminal Buildings

- **New Art Museum**
  - B1. Gallery - Gold Coast style
  - B2. Gallery - Gold Coast sculpture
  - B3. Gallery - Gold Coast collection post-1957
  - B4. Gallery - Gold Coast collection pre-1957
  - R1. Gallery - Peckham sculpture
  - R2. Gallery - Gold Coast memorials
  - R3. Gallery - Aboriginal Torres Strait Islander collection
  - R4. Gallery - International ceramics collection
  - R5. Gallery - Beach collection
  - R6. Gallery - Photographic and new media art collection
  - R7. Indigenous cultural heritage keeping display space
  - R8. Treasures showcase
  - R9. Great hall
  - R10. Writer's studio and community publishing
  - R11. Meeting and co-working spaces
  - R12. Making and display studio
  - R13. 2 x Arts education/training rooms
  - R14. ArtSpace - Children
  - R15. ArtSpace - Young people, art and technology
  - R16. 3 x ArtLab/residence workspaces
  - R17. Community gallery
  - R18. Theatreauc
  - R19. Library and Archive for Art
  - R20. Friends and Benefactors' lounge
  - R21. Collection storage and handling areas
  - R22. Loading, production & storage
  - R23. Administrative hub for Gold Coast arts organisations
  - R24. Cafe

- **Living Arts Centre**
  - C1. Main theatre
  - C2. Drama theatre
  - C3. Dock and backstage
  - C4. Black box theatre
  - C5. Green rooms and dressing rooms
  - C6. Foyer spaces
  - C7. 4 x Cinemas
  - C8. Foyer spaces (shop into ticket)
  - C9. 2 x Harbour/Spaces
  - C10. 2 x Resistant performing arts organisation spaces
  - C11. Recording/production studio
  - C12. 2 x Live entertainment venues
  - C13. 2 x Function hire spaces
  - C14. Outdoor amphitheatre

- **Artscape**
  - Nature Park
  - Rainforest
  - Hillsides park
  - Waterfront
  - Green bridge
  - Embankment walk
  - Riverside walk
  - Water garden
  - Civic Field
  - Grassland
  - Seasonal Garden
  - Civic garden
  - Kids park

- **Plant Design**
  - Water Garden
  - Edible Tree
  - Rain Forest
  - Civic Garden
  - Grass Land
  - Colour Garden
  - Hibiscus Park
  - Indigenous Garden

- **Arts**
  - Monumental
  - Experimental
  - Landscape
  - Media
General Map 2
Artscape 1

The project site, spanning some 11 hectares, is a great outdoor space. The main facilities—the New Arts Museum and Living Arts Centre—will be covered by the water stage. The semi-outdoor atrium space under the water stage will also be developed like a network. The car park will be totally covered by the artscape. This great outdoor space will be organically connected by the Gold Coast Web to allow visitors to act freely and have a thoroughly enjoyable spatial experience.

Nature Park / Rain Forest
Hills maximizing on the rolling terrain; a rain forest using the existing trees and rainwater; the Gold Coast Web will run through the site, expanding among the trees and the colorful flowers. Visitors will be able to appreciate art within the greenery, encounter the distinctive flora and fauna of the rain forest, and sense the dynamism of life and our symbiosis with nature.

Civic Field / Festival Plaza
As a place for connecting to the city, this will be a hub for interaction through various activities including markets, festivals, and sporting events. A new community will expand out from here by linking the community and facilities, and linking citizens and visitors. Restaurants, cafés, and art shops will dot the landscape centering on the plaza, and the excitement generated here will create another new face of the city.

Water Front / Wave Deck
Affinity with the water will be heightened by designing a riverside walk and terrace that hug the river, and through a beach and café built on the site’s lakeside. The activities of the visitors will have an integrated continuity from within the facilities to the lake and river, and new culture that has water as its stage will be born here. The wave deck will have installations, creating a distinctive scenic sight that is in continuity with the river, and it will be a place where people can relax and enjoy the Gold Coast skyline.
Artscapes 2

Five senses activity
Artscapes for perception through the five senses will enrich the sensitivities of the visitors and create memorable experiences. Listening to the sounds of water and birds; sensing the smell of flowers and the ocean carried by the breeze... Enjoying the taste of nature at the edible garden and the market, and coming in touch with the water at the waterside and pond... Environment, art, and programs that change with the flow of time will be scattered throughout the site to be experienced by visitors, to always provide them with inspiration and wonder.

Art and the Great Outdoors
The Cultural Precinct will have 4 types of Artscapes that integrate with art and landscape: Monumental, Experience, Media, Landscape, which will be placed throughout the site. These will be placed according to each area and as the various vegetation will create distinctive scenarios, creating intimate spaces where one can feel art and nature throughout, the Cultural Precinct will be multifaceted giving the visitor a special experience and lasting memories unique to this place.

Symbolic Artspace
Spaces where symbolic art that everyone visitor of this site will see is placed will become an open space that serves as meeting spots where people gather and interact.

Experience Oriented Artspace
Art that can be experienced first hand by going inside and such can open up the visitors’ conscious through extraordinary spatial experiences.

Landscape Artspace
Places created by works that is harmonious and brings contrast to the landscape such as topography or vegetation, will function as spaces where visitors rediscover nature through art.

Media Artspace
Media art that stages nature or the architecture with the use of light and moving image, uses the latest digital technology, or provides interactive experiences will add color to the site and create an era-defining scene.

Flow of water
Organically developing paths that undulate and meander with the topology like flowing water will lead people on a journey to new discoveries. These flows of movement will pass through the foliage, over the water, through the water, and through the works of art, creating connections with nature or art that are distinctive to this site and providing visitors with an enjoyable tour of the facilities. Visitors can also relive the memories of the Gold Coast by going around the patterns derived from its topology and connecting these scenes.
**Life of water**

The planting designs will be composed of tree species conforming to the respective levels and environmental conditions of the rolling terrain that blend with the architecture. From dry gardens to water gardens at the water's edge, a diversity of landscapes that are a miniature version of the Gold Coast will be created here, giving visitors something to look forward to.

The planting plans will be designs that follow their respective environmental conditions such as structural loading conditions, soil, and the water cycle, and there will be a theme for each area. High topographic levels will have indigenous gardens and hillside parks. Lightweight and highly permeable soil will be used to reduce load on the structure (parking area) and make the site suitable for dry environmental conditions. At low levels, there will be vegetation suitable for the waterside or ponds that store rainwater falling on the site, trees that thrive on good soil conditions, and along the rivers there will be windbreaks using existing trees, all creating a face of rich green foliage for the city.

**Cycle of water**

The landscape's water cycle system will recreate water's natural cycle by purifying water on the site and returning this to the ground and river. Taking advantage of the sloping topography, water will flow down to a set place and be purified through bioswales (channels filled with vegetation). The purified water will form a temporary pond, which is used for leisure activities and the cultivation of plants, and then returned to the ground and river. The existence of this cycle ensures maximum use of rainwater.
**Water Stage 1**

**Function**
The huge water stage presents the most distinctive and characteristic space of this project. This is an art space on a super scale; a space to exhibit art, and a space where people gather for events. By changing the water level of the water stage, the space itself can be transformed to provide platforms for the effective performance of various kinds of activities.

**Full water pool**
A spectacular and highly impressive vista will appear with almost the whole area covered with water. The pool is shallow on the whole; the maximum depth will be 15cm even when full. Even when the pool is full, water will not cover the pedestrian paths on the periphery or the areas around the apertures, providing places for people to stroll around or relax. Since the water will be shallow even when full, people can walk about freely on the water stage.

**Medium depth**
When half of the water has been removed, pedestrian pathways in a caustic-like pattern will appear on the water stage. Several small stages will also appear at the same time. People will be able to stroll even more freely around the water stage. This is the perfect mode for holding events such as an art festival displaying numerous works on the water stage.

**Water removed**
When almost all of the water has been removed, the stage will turn into a gigantic multipurpose space. Huge crowds-gathering events can be held. The space will be able to hold over 20,000 people at maximum. Events like outdoor film festivals can be held, using the wall of the theatre as a screen.

**Atrium (under the water stage)**
The space under the water stage will be an enormous semi-outdoor space between 6m to 10m high, it will be the facility’s central public space, accommodating the main circulation route between the different facilities and providing a multipurpose space that can be used for various events and to display art.

**1959 × 1959 Overlays of History**
The size of the water stage is 195.9 × 195.9 meters, in representation of the year 1959 when the Gold Coast became a city. By changing the water level, facilities utilizing existing buildings below the water stage appear. When the water level is dropped to its lowest level, patterns in the image of Aboriginal art come to view. This attempts to express how the culture of the indigenous people of Australia overlaps with present and future culture, and is homage to the cultural history of the Gold Coast.
System of Water stage

The water stage will have a structural system in the image of a caustic pattern. It will be a square of 195.9m x 195.9m in dimension, with apertures and skylights positioned randomly within its caustic pattern. The structural system has been designed for a balance between structural stability, practicability and freedom of design.

Structural system

The main structure of the water stage will be steel-reinforced concrete. A slim but strong structure can be built by placing steel in the columns and beams. The columns will be randomly positioned, based on plan requirements. Column span will be from about 10m to 15m, and column thickness will be about 50cm. Primary beams will span between columns in straight lines in consideration of structural practicability, but the joists will be positioned randomly in a caustic pattern. A non-flammable membrane will be installed on the underside of the beams.

Handrail (safety feature)

A level difference of 1.2m will be established in place of a handrail to prevent falls.

Queensland Style

A large roof style is an architectural style using the climate and natural features of Queensland. Large eaves extend from the structures, and verandahs are installed under the eaves to create pleasant semi-outdoor spaces that are protected against strong sunlight and rain. This project’s water stage is both a water pool and an enormous roof that emulates the traditional Queensland style.

Exploded diagram of water stage
New Arts Museum

5 Concepts for New Arts Museum

1. Openness
   Glass walled exhibition spaces inserted into visitors' public spaces for openness

2. Interaction
   Activation of the creativity of both visitors and participants of education programs and workshops with the effect of the use of glass rooms in public spaces in art, design, culture and science.

3. Engagement
   Architectural design that promotes mutual exchange and sense of participation that creates interactive, relational engagement of art and future potential.

4. New lifestyles
   Learning history, culture and art for designing tomorrow's lifestyle; Archives of all aspects utilized creatively for designing the future.

5. Innovation
   Application of innovative technology, open Wi-Fi, digital tools for education, workshop and art information laboratory and the development of practice.
Segmentation & Excursion

Two innovative ideas have been incorporated to make the whole site a space for strolling and enjoying art. One was site composition wherein large-volume structures are segmented wherever possible in order to prevent large structures from restricting movements. The other was to ensure the continuity and affinity of the interior and exterior of the structures and blur their distinctions as much as possible.
Living Arts Centre 1

Master plan
The Living Arts Centre will make use of the existing structure centering mainly on the current hall, and will revolve around an integrated structure that has key functions arranged around it as well as complementary functions. In addition, with considerations given to sound insulation or the view according to the nature of the space, some functions will be distributed within the landscape.

Visitor traffic
Visitors can approach the layers from the atrium, and the flows for loading/unloading activities and movement of the performers will be concentrated on the north side of the site. The highly independent live performance spaces and others will be located on the west side of the site as this will also provide a view of the surrounding landscape. Since visitors can come to the centre from all directions, an information centre that also doubles as the ticket office will be placed in the approximate centre of the atrium in a highly visible location. This will ensure that visitors arrive at their destinations without losing their way.

Drama theatre
The drama theatre is positioned where it can be used in coordination with the main theatre, and by sharing the backyard and, at times, by opening the back stage, this design makes it possible to stage dynamic performances through concurrent use with the main theatre. So that the theatre can be used even more flexibly, the entire ceiling will be a gridiron that allows stage equipment to be installed or moved anywhere. This will maximize the possibilities for stage performances. While this will basically be a prosenium style stage, consideration will be given for the slope in the seating area to make this an intimate space where the audience has a good view of the stage, making the performance feel more real and a part of them. There will be an area where seats can be removed when necessary to allow even more flexible performances by, for example, extending the stage into the audience.

Cinemas
Two cinemas with 156 seats, one with 200 seats, and one with 244 seats, including wheelchair space; space can allow installation of 450-inch, 550-inch, and 600-inch screens. Audience and staff pedestrian flows are completely separated, with the projection room situated on a level that is only accessible to the staff. If necessary, a sound and vibration control system will be considered for sound insulation between the cinemas. The interior design is based on sound absorption for cinema amplification.

Rehearsal spaces
Under the artscape (covered with green), in consideration of sound insulation, these rooms will be spatially detached from the hall by a buffer zone. Since the surrounding area is a car park, this position ensures that few problems arise from the sounds generated. Their location adjacent to the main theatre also makes them suitably positioned for the final dress rehearsal. Based on a floor system that reduces the impact of dancing and other movements on the legs, it is planned to have these spaces equipped with curtains, mirrors, and other provisions, for convenient multi-purpose use.

Sound Insulation layer

Backstage traffic
The loading dock, which is the center of backstage traffic, will be located between the main theatre, black box theatre, and drama theatre. This will make it extremely easy to move things in and out of these theatres. In addition, because the green rooms and other functions attached to the main theatre will be newly built in the center of all the theatres, the flow of movement to the stages will also become more explicit. Similarly, the cinema and rehearsal rooms will also share a common loading dock, but in consideration of the sound insulation, their functions require that they will be housed in a separate building.

Loading space
The loading space will be built between the three theatres for use in a broad and integrated manner. When necessary, this space can be divided by partitions to allow performers, equipment and sets for different productions to be prepared separately.
Main theatre extension

Acoustic plan
Sufficient ceiling height will first be secured to achieve rich resonance, for a performance of sound that comes cascading down from the ceiling, by combining three-dimensional concave and convex surfaces on the ceilings and walls, the theatre will be configured in a way that has sound arriving from the stage to the seating area from numerous directions, heightening the temporal and spatial dispersion of sound reaching the audience. The side walls will have curved surfaces that basically curve outward to fully provide the seats in the center with early lateral reflection. Acoustic baffles will be studied for the supply of first reflections from the side in order to provide a solid sense of sound expanding within sound. The rich timbre and clear notes of a concert are born by securing rich sounds through such room forms. For functions like film screening events that do not necessitate such resonance, the sound reflector on the stage can be stored away to expose the sound absorbing space behind it. If necessary, variable sound absorbers to increase sound absorbing performance in the seating area will be studied.

Linking the main theatre and drama theatre
One of the characteristics of our design is that extension work on the stage of the main theatre will allow the stages of the main theatre and drama theatre to be connected by way of movable shutters. Connecting the two theatres will create a traverse stage theatre that seats a total of 1,800. This will broaden the range of performances that can be held, including highly original productions.

Expansion of audience seating
To increase seating, the current toilet areas and other facilities will be moved to secure floor space for audience seats, and newly constructed box seats and family rooms will be added on the second-floor level. Barrier-free access to the second-floor seating area will also be newly established.

Main Foyer
A lavish foyer space with an extremely high ceiling is formed between the original structure and the new exterior wall.

Simulation of acoustic effect
Fig.1. Difference in sound waves reflecting off flat surfaces and curved surfaces. Simulation of sound waves reflecting off curved surfaces
Fig.2. Planar figure of acoustic simulation
Fig.3. Cross-sectional figure of acoustic simulation
Fig.4. Acoustic simulation of bafflers to the front of the audience
Living Arts Centre 3

Outdoor amphitheatre
The amphitheatre has the important role of connecting various functions of this facility. Accordingly, it will be built in the center of the landscape spreading over the eastern side of the site with the New Arts Museum and Living Arts Center. It allows visitors at various other places on the site to have a sense of what is going on. Since it will be built in the semi-outdoor space under the water stage, this semi-outdoor feature will allow a wide range of performances to be held, including highly novel productions.

Various stage equipment, lighting, and acoustic equipment can be installed on the ceiling under the water stage, to accommodate a wide range of events from music, dance, lectures, and cinema festivals, to hands-on workshops.

Studies are also underway to make it possible for large audiences to feel more engaged in the performance by adjusting the distance and height between the presumed stage area and audience area. If the entire atrium is used, it can accommodate some 6,000 to 10,000 people.
Site-Wide and Shared Provisions

Transport Plan

Intuitive traffic movement designs

While using the existing intersections, the traffic movements of service vehicles and vehicles of visitors to the Living Arts Centre and New Arts Museum will be separated to all possible extent to achieve a space where people can feel safe driving. The central intersection will be the main gate for general visitors, and vehicles heading to the parking area and those going to the post-check-of-the main entrance will be separated in a plan that provides drivers with the shortest approach to either the car park or post-check-of.

Vehicles will be able to move smoothly to the parking area after stopping at the main entrance, with no need to return to the main gate.

Traffic movement designs for the bus terminal and taxis (future plan for site B)

Fixed route buses will enter the site through the intersection on the south side, which is separated from the main gate for general visitors. This design will allow the buses to reach the bus terminal without having to pass by the building’s main entrance. Through a design that will allow traffic to flow in a loop at the main entrance, taxis will be able to move smoothly from the area where passengers alight, to the taxi waiting line, and to the passenger boarding area.

Traffic movement design for the enhanced convenience of service vehicles and facility operators

By separating traffic movements to the respective loading areas of the Living Arts Centre and New Arts Museum, this design will prevent congestion from occurring due to service vehicles converging on the same route.

Site B

While ensuring continuity with the artscape of site A, facilities that will heighten the functionality and comfort of this district as a whole will be built here.

Transportation center

A bus terminal and taxi terminal will be built to bolster transportation center functions. The upper section will be covered by artificial ground to secure continuity as an artscape.

Commercial facilities

Shops related to the arts, fashion, music, theater, film, etc., will produce a synergistic effect with the New Arts Museum and Living Arts Centre. An open space will be established in the center for the holding of flea markets and other events. The facilities will take on a soft, curved shape to harmonize with the buildings of site A.

Artscape

This will be a spatial structure that provides a sense of continuity with the artscape of site A, and themed greenery will be implemented.

Nikkens Sekkei Ltd

19 of 20
Event / Tour

Memorial wedding tour
A route that offers various wedding programs such as ceremony in the Chapel and photographing nearby the riverside.

Aquatic recreations tour
A scenic route for running, going through major landmarks as well as along the board walk where other city views are also seen.

Historic Gold Coast tour
A route going to the Chapel. Looking at original public art in the Precinct, looking at native grown vegetation in the landscape, visiting the Gold Coast Collections of New Art Museum.

Scenic run tour
A scenic route for running, going through major landmarks as well as along the board walk where other city views are also seen.

Gold Coast nature Tour
A route that mainly walks around the various landscape areas to learn about Gold Coast nature.

Educational tour
Passing through the creative workshops for kids and youth, learning art and nature in the inspiring and amusing environment.

Creative discoveries tour
Walking around to see the ( media ) art and also stopping by the workshop and community galleries.

Australian gourmet food tour
A tour that takes visitors to explore the local Australian cuisine in the great outdoor.

Event schedule

- Special exhibitions
- Community programs
- Arts education
- Hands-on programs
- Outdoor amphitheatre
- Main theatre program
- Cinema program
- Living arts centre
- New art museum

Festival

- Local exhibition
- Art prize
- Educational programs
- Special programs
- Regular ongoing program
- Regular ongoing program

Other cultural events in Australia

ARTSCAPE

GREAT HALL

Collection Hall / Crafts and Design Hall
Community Gallery/ Writers Salon & Community Publishing
Theatre Artspace for Children Meeting and Co-working Spaces
Workshops for Visiting Artists Making and Display Studios
Artspace for Young People, Art & Tech
OUTDOOR AMPHITHEATRE

Main Theatre
ROOF

ARTSCAPE GARDENS

FILM FESTIVAL

GREAT HALL

Collection Hall / Crafts and Design Hall
Community Gallery/ Writers Salon & Community Publishing
Theatre Artspace for Children Meeting and Co-working Spaces
Workshops for Visiting Artists Making and Display Studios
Artspace for Young People, Art & Tech
OUTDOOR AMPHITHEATRE

Main Theatre
ROOF

ARTSCAPE GARDENS

FILM FESTIVAL