

# SITE ANALYSIS YOUTH HUB

**LOCATION** GATHWAY GREEN, SINGAPORE



## S

- Transportation Access
- Historical Richness
- Enhancing Urban Living
- Excellent Secondary Traffic

## W

- Preserving Historical Information
- Traffic might be low during peak hours
- Integration of modern structures while respecting historical landmarks is tough
- Ever-changing Demographics (Pop)

## O

- Starting with past and present
- Meeting in the middle
- Modern educational yet contemporary experiential facilities
- Sustainable Urban Tech. Leveraging on solar panel use combined between each structure and overall integration
- Tally for the best site for mental wellbeing

## T

- Culture and historical reinterpretations
- Risk of overlooking historical elements
- Leads to cultural diversity and inclusivity
- Environmental changes/climate change can damage historical structures if tough
- Requires 100% more effort in planning and sustainable practices

## HABITAT

• Resilient and inclusive

• In search for nature

• "Sustainable planet" that is embracing (Sustainable planet)

• Time and space that can be shared

• Encouraging meaningful human connection

• Using art and nature for mental and emotional wellbeing

• Nature



## WATER

• Minimal water demand through rainwater harvesting and greywater reuse

• Green infrastructure and water management

• Green water design can benefit for sustainable water

• Thermal mass is a great cooling system

• Be flexible design decision

• Water quality



## WINDY WIND

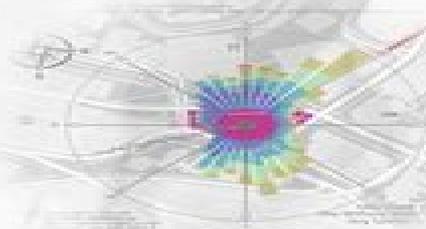
• Capture breeze and control indoor climate, enhancing comfort and wellbeing. Thermal mass to improve wellbeing

• Healthy gather and engage in various activities

• Control indoor temperature in enhancing the healthy climate for the office, study, leisure, and the healthy fun during time of leisure (summer) in coping to weathering the strong wind by the sun and breeze

• Control space and energy flows (especially for office) for the office, study, leisure, and the healthy fun during time of leisure (summer) in coping to weathering the strong wind by the sun and breeze

• All nature elements (wind, greenery, sunlight) help in making urban habitat more living and healthy



## MOBILITY

• Accessible Network, Safe, and Sustainable

• Planning and Design (Health, purpose, and the safety, with a roadblock to the site)

• Encouraging active mobility and sustainable

• Encouraging active paths

• Healthy network, fast, easy



## SUNLIGHT

• Orientation aids in maximizing capturing the sunlight and the design in a healthy wellbeing

• Sunlight is a key factor in creating a healthy and sustainable environment

• Controls the solar heat gain through facade and window treatments, which can lead to

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## NARRATIVE:

The urban landscape (Gathway Green) and a historical model (urban hub) leading to a new space for modern and future-oriented, providing a new urban landscape (urban hub) for the future. The urban landscape (Gathway Green) and a historical model (urban hub) leading to a new space for modern and future-oriented, providing a new urban landscape (urban hub) for the future.

## COMMUNITY

• Sustainable, inclusive, and vibrant

• Inclusive, not just being inclusive, but also being vibrant

• Encouraging active mobility and sustainable

• Encouraging active paths

• Healthy network, fast, easy



NATURE, BLUE & ENVIRONMENTALY COMBINED

ARCHITECTURAL MODERN CONTRAST COLLAGE

# Site Analysis Architecture Presentation

**K Payea**



## **Site Analysis Architecture Presentation:**

**Smart Buildings and Cities with Remote Sensing and GIS** Shiv Mohan, Navneet Munoth, Neha Sharma, 2025-03-31

The built environment is undergoing a profound transformation driven by the integration of cutting edge geospatial technologies Smart Buildings and Cities with Remote Sensing and GIS serves as a comprehensive guide to navigating this transformation and bridges the gap between traditional architectural and planning practices and the innovative possibilities of remote sensing RS and geographic information systems GIS The book demonstrates how architects planners and decisionmakers can use GIS and RS to design smarter context aware and eco friendly urban spaces It explores innovative approaches for architecture focusing on geospatial site analysis net zero energy building designs heritage preservation innovative virtual campus planning methodologies and even futuristic concepts like habitat design on the lunar surface Key features Brings together contemporary geospatial technologies and their applications to address the challenges and opportunities in designing smart buildings and cities Provides actionable solutions for professionals researchers and policymakers Includes global contributions that provide diverse perspectives on smart city and building applications Highlights how geospatial data driven insights can revolutionize decisionmaking processes in urban planning and building design The work is designed for postgraduate students and researchers in the departments of architecture planning and geomatics geoinformatics software engineering

**100 Site Analysis Essentials** Peter Farrall, Iain Jackson, 2024-01-19

How do I follow a brief What is the site s context What s its history and what is adjacent to it now How have other designers responded to similar site conditions Conducting a site analysis is an essential part of the design process Through careful examination observation and documentation you can cultivate a deeper understanding of the place you are designing Designed to help students understand what a site analysis is and why it is valuable to their design proposals this book provides 100 easy to follow rules of thumb with simple line drawings and illustrations to help Through a series of lenses strategies and ideas this book provides step by step guidance through the process to increase your understanding of a place and how to deliver the appropriate solution for your site Supported by case studies with examples of tackling specific problems you will develop the tools to explore rationalise and convince others that your approach is right for the project

Site Analysis James A. LaGro, Jr., 2013-01-31 The process oriented guide to context sensitive site selection planning and design Sustainable design is responsive to context And each site has a unique set of physical biological cultural and legal attributes that presents different opportunities and constraints for alternative uses of the site Site analysis systematically evaluates these on site and off site factors to inform the design of places including neighborhoods and communities that are attractive walkable and climate resilient This Third Edition of Site Analysis is fully updated to cover the latest topics in low impact location efficient design and development This complete user friendly guide Blends theory and practice from the fields of landscape architecture urban planning architecture geography and urban design Addresses important sustainability topics

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technical fields of research The conference brought together more than 200 scholars from 40 countries who presented the innovative concepts and methods featured in this collection of papers The Architect's Handbook of Professional Practice David S. Haviland,1994 **Architectural Programming** Benjamin H. Evans,Clarence Herbert Wheeler,1969 *Courses Catalog - University of Illinois at Urbana-Champaign* University of Illinois at Urbana-Champaign,1976 Includes undergraduate and graduate courses *The Architect's Guide to Facility Programming* American Institute of Architects,Mickey A. Palmer,1981 InfoWorld ,1998-10-05 InfoWorld is targeted to Senior IT professionals Content is segmented into Channels and Topic Centers InfoWorld also celebrates people companies and projects Architecture Exam Review: Nonstructural topics Steven E. O'Hara,David Kent Ballast,2005 Volume II Nonstructural Topics has been updated to reflect recent exam changes and extensively revised including the addition of 41 new sample questions The book offers a thorough review of the Are nonstructural exam topics including pre design mechanical and electrical systems building design materials and methods energy efficiency and alternative energy sources and sustainable design More than 200 sample questions are provided with solutions along with a valuable checklist of items that should be considered in every design solution This volume also covers test taking strategy and is enhanced by illustrations figures and tables along with a detailed index *Undergraduate and Graduate Courses and Programs* Iowa State University,2009 *Pro File* American Institute of Architects,2004 *John Andrews* Jennifer Taylor,John Andrews,1982 The linking text and comments by Miss Taylor provide the background and framework for the ase studies by Andrew himself This exciting contemporary architect describes thirteen of his most important projects in a series of studies whih tell the inside story of the commission how problems were solved and the ultimate solution **Progressive Architecture** ,1985 **Architecture Exam Review: Nonstructural topics** David Kent Ballast,1992 **Architecture Exam Review: Non-structural topics** David Kent Ballast,1992 This popular Architect Registration Exam ARE book provides practice for the difficult Site Planning Building Planning and Building Technology portions of the exam including 15 practice vignettes Example solutions are provided showing examples of what are considered good and poor solutions

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