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Mitigation Enabling Energy Transition in the MEDiterranean region

GREEN SITES – GSO - Introduction

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Training on GRASSMed – meetMED II

WP3_A3.1.6
February 27, 2023



OUTLINE

- ✓ Chapters of Green Sites
- ✓ What is a Sustainable Site Plan?
- ✓ How to Select a Site for Green Buildings?
- ✓ What Factors are at Play when Choosing a Site?
- ✓ What are the Major Goals of Sustainable Site Planning?

Chapters of Green Sites

GS1 - Pre-Developed Sites

GS2 - Existing Infrastructure

GS3 - Proximity to Basic services

GS4 - Site Plantation

GS5 - Green Parking Structure

GS6 - Green Parking Capacity

TOOLS

GRASS Tool



Green Sites

Predeveloped Sites

Existing Infrastructure

Proximity to Basic Services

Site Plantation

Green Parking Structure

Green Parking Capacity

% of Developed Land

Infrastructure Availability

Maximum Distance to Basic Service

$$PAP = \frac{\text{Plantation Area}}{\text{Site or Building Area}} \times 100$$

% of Underground Parking

Reduced Empty Spaces, Multi-story Parking and % area of buses

What is a Sustainable Site Plan ?

Site Planning and Design
are essential when creating Green Building!

Site Planning and Design help:

- Creating affordable housing to access critical services and transportation.
- Reducing physical footprint by creating more compact designs of buildings and parking lots as well as taking care of the conditions of trees and soil during construction.

What is a Sustainable Site Plan ?

The process of sustainable site planning helps to develop the site without diminishing or interrupting natural processes and characteristics.



Site Planning

<https://www.architectsjournal.co.uk>

Sustainable Site Planning



Follows Three Steps:

1. Understanding and mapping the local conditions around the property.
2. Assessing and sketching existing conditions on the site itself.
3. Creating a plan for developing the site.

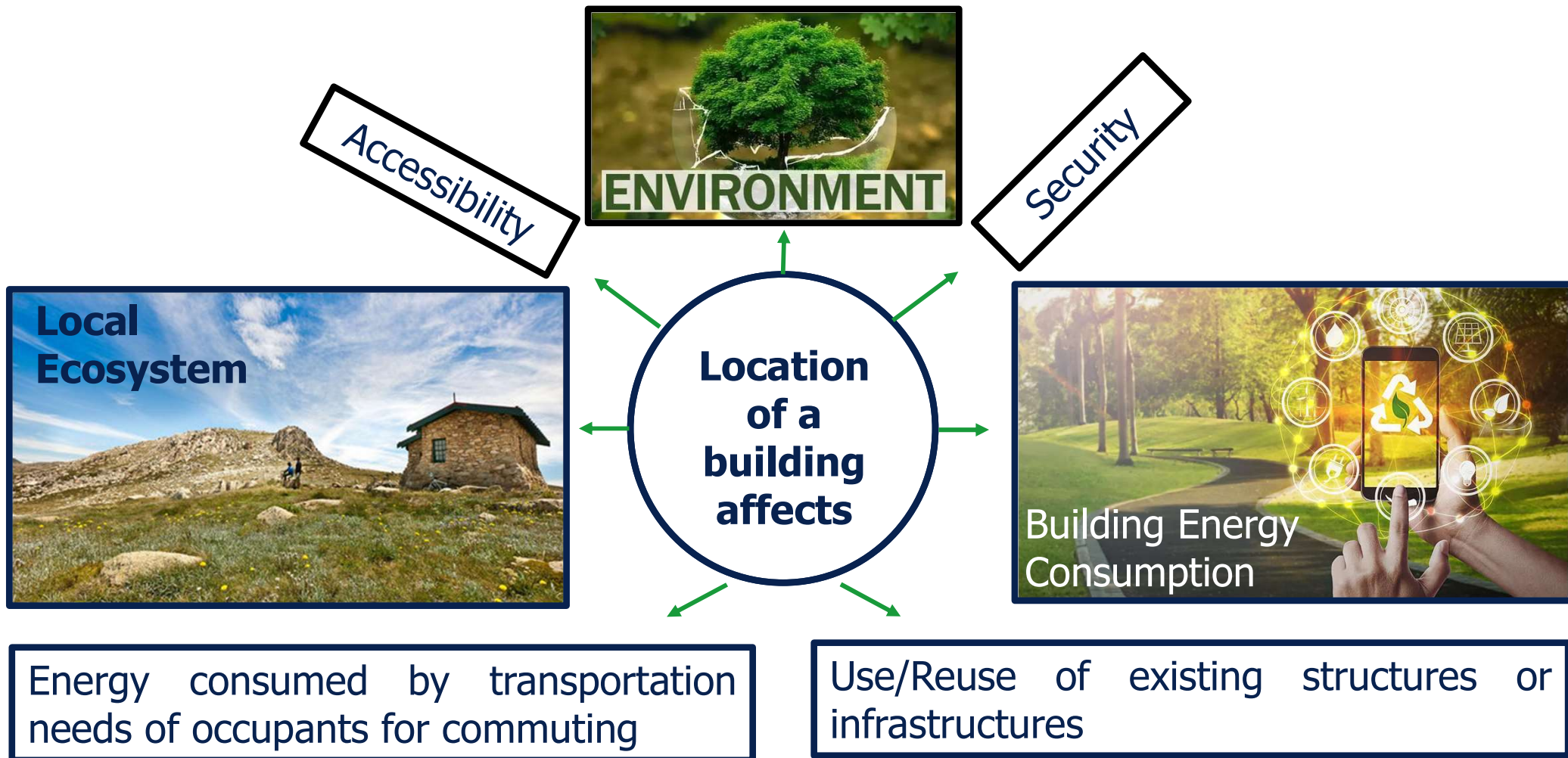
Considers Three Points:

1. Long and short-term costs.
2. Human safety.
3. Natural ecosystems.



Why the Site Selection is important?

Green Buildings start with proper site selection !



What Factors are at Play when Choosing a Site ?

When selecting a site, the team must consider many attributes of the overall system:

- What is the local climate of the project?
- Has the site been previously developed?
- Is it connected to local infrastructure and public transportation?
- What species in the area might use the site as habitat and be affected?
- What is the nature of the street life in the area, and how can the project contribute to community?
- Where do people in the area live and work, and how do they get back and forth?



Site Selection

<https://thearchspace.com/>

What are the Major Goals of Sustainable Site planning?



Sustainable Site Planning consist of a Whole System Approach

What are the Major Goals of Sustainable Site planning?



Goals

- Minimize land disturbance
- Restore the health of degraded sites
- Understand existing watershed plans and environmental goals that may be regulated
- Consider energy implications and carbon emissions
- Minimize habitat disturbance

What are the Major Goals of Sustainable Site planning?



- Provide wildlife corridors across a large campus whenever feasible
- Apply best practices for erosion control
- Use native plants and remove any invasive species at the site
- Reduce the heat island effect
- Reduce, control, and treat surface runoff

What are the Major Goals of Sustainable Site planning?



- Locate the building within a walkable distance to a range of other destinations such as places offering goods and services;
- Incorporate transportation solutions into site plans that acknowledge the need for bicycle parking, carpool staging, and proximity to mass transit.
- Consider site security concurrently with sustainable site issues.
- Respect existing aesthetic view sheds from existing buildings, landscape features, and historic sites.

Contact us!



Mitigation Enabling Energy Transition in the MEDiterranean region
Together We Switch to Clean Energy

For any inquiries or comments,
please don't hesitate to contact us

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This project is funded
by the European Union