Speak Designing Liveable Communities Homes and Buildings:

# SUSTAINABILITY, TECHNOLOGY AND GREEN INNOVATIONS IN HOUSING

**By Arch. Cathy S. Saldaña**
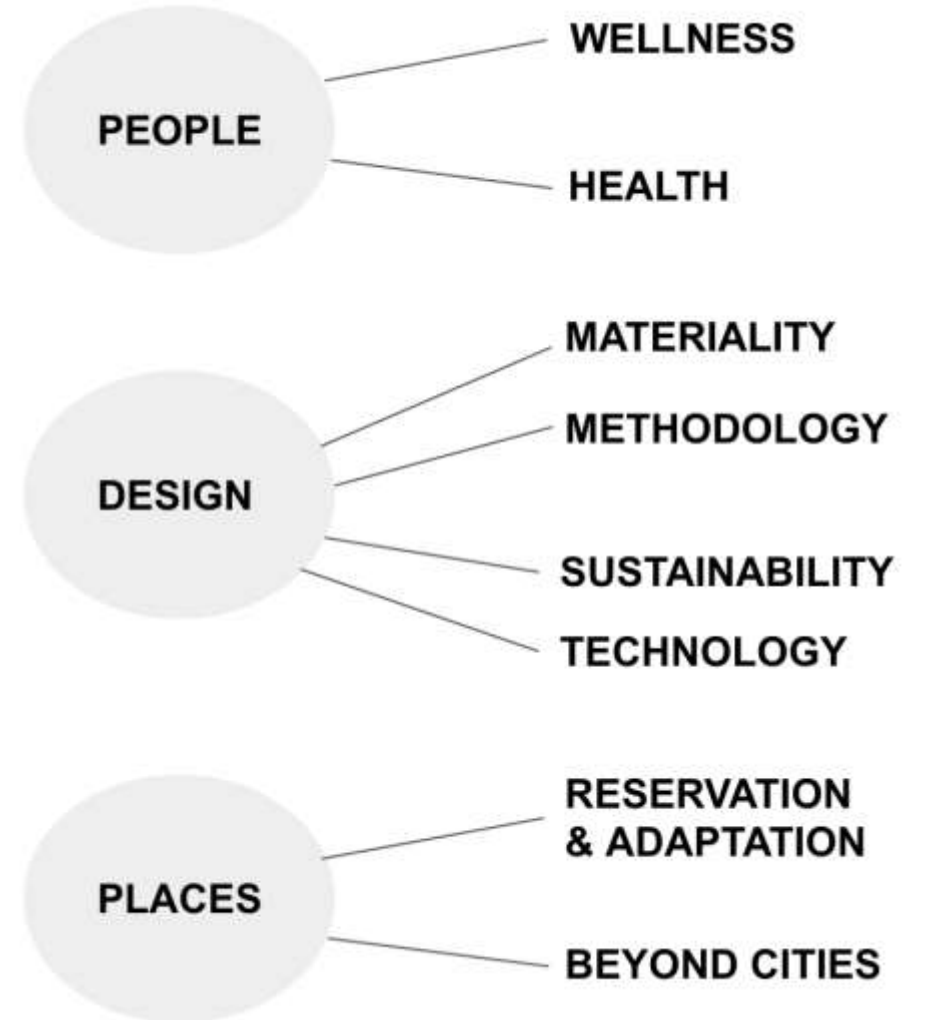FUAP, Int'l Assoc. AIA
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# SUSTAINABILITY

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# CIRCULAR DESIGN THINKING



**PEOPLE**
— WELLNESS
— HEALTH

**DESIGN**
— MATERIALITY
— METHODOLOGY
— SUSTAINABILITY
— TECHNOLOGY

**PLACES**
— RESERVATION & ADAPTATION
— BEYOND CITIES

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# MIXED USE COMMUNITIES

## COMBINATIONS

Retail      Residential      Hospitality      Anchor-Service

Anchor-Feature      Site Specific Character      Resorts

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**Sustainability**

**Post-pandemic: Mandatory**

**Symbiotic relationship between Man and Planet**

**Government and Regulatory Laws/Rules**

**#sdg17 UN: 17 Sustainable Development Goals**

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**Sustainability**

**Green Building Framework**

**World Green Building Council**

**Healing the Earth**

**Renewable Energy**

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# TECHNOLOGY

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# DESIGN TYPOLOGIES:
# NEW STANDARDS

## Understanding Human Space Bubble
## (Global, Western, Asian, Filipino)

### Widths of Corridors, Stairs
### Elevator Configurations
### Ceiling Heights
### Distance Definition: Physical x Social

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# ARCHITECTURAL DESIGN PRACTICE

## TECHNOLOGY
## ARTIFICIAL INTELLIGENCE
## BIM DERIVATIONS
## DATA ANALYTICS
## VIRTUAL REALITY
## 3D PRINTING
## DIGITAL PRINTING
## VISUALIZATION
## REMOTE WORKING

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# SPECIALIZATION & NICHE DEVELOPMENT

## 2021 - 2025

- Infrastructure, Government Projects
- New Urban Centers → Post-covid Standards
- Healthcare Centers & Facilities, Testing & Specialty Clinics — Redistribution of Medical Complex
- Wellness
- Luxury — Hospitality, Remote Escapes
- Upscale Residential — High End
- Manufacturing, Food / Distribution
- Reconfigure: Retail, Public, Liturgical & Civic Spaces
- Residential Towers — New Design Typologies
- Transformation: Airports & Other Transport Terminals

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# HUBS & SPACES

| | |
|---|---|
| **Industrial** | **Warehousing** |
| **Food Production** | **Logistics** |
| **Food Storage** | **Delivery Depots** |

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# SMART DESIGN



**PLATFORMS – BIM, GRASSHOPPER**

**VISUALIZATION**

**3D MODELLING**

**VR (VR)      AI IN DESIGNING**

PARAMETRICS      SUSTAINABILITY

**DOCUMENTATION**

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# GREEN INNOVATIONS

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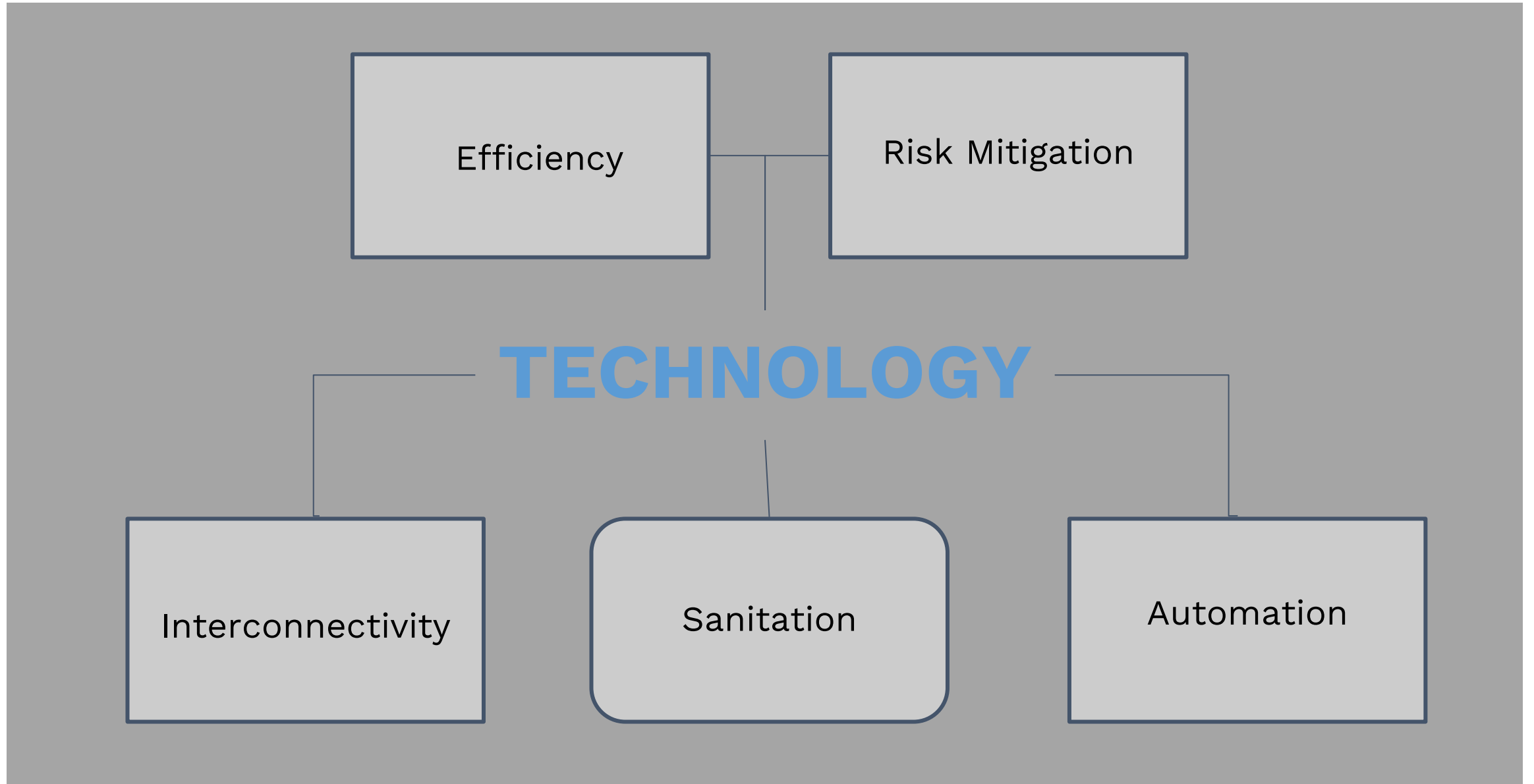
# GREEN BUILDING CERTIFICATIONS



**LEED**



**BERDE**



**BREEAM**



**Green Star**



**FITWEL**



**Green Globes**

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# GREEN BUILDING FRAMEWORK

**Management**

**Use of Land and Ecology**

**Energy Efficiency and Conservation**

Collaborative and Integrated Management Processes
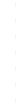
Mindful use of land with reduced negative impacts

Reduction of total energy consumption and the use of renewable energy

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# GREEN BUILDING FRAMEWORK

**Water Efficiency and Conservation**

**Waste Management**

**Green Materials**



Grey water reuse and rainwater harvesting systems

Effective Solid Waste Management
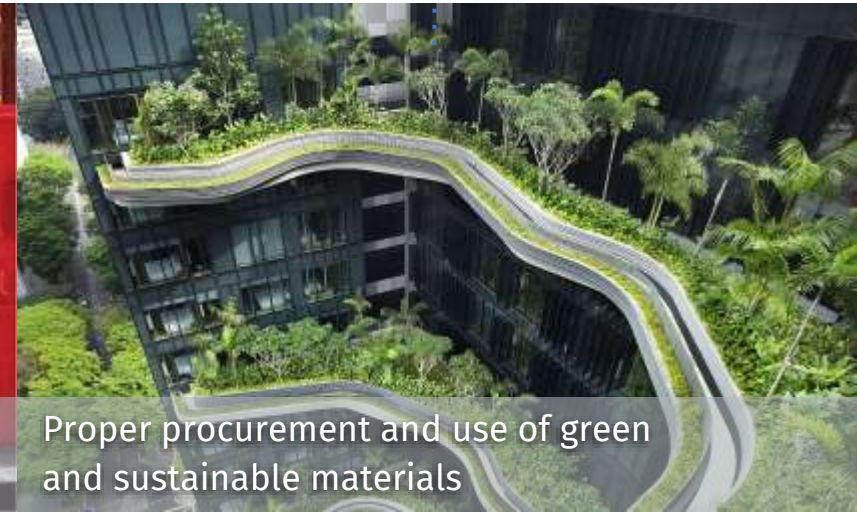
Proper procurement and use of green and sustainable materials

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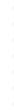
# GREEN BUILDING FRAMEWORK



**Transportation**

Sustainable transportation strategies

**Indoor Environment Quality**

Building on an individual's health, wellbeing, productivity, and comfort

**Emissions**

Identifying, planning, and managing towards the reduction of emissions

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# GREEN BUILDING ELECTIVES

**Employment and Economic Opportunities**

**Education and Skills Development**

**Health and Safety**

**Equality**

**Community Engagement and Benefit**

SOURCE:
**Philippine Green Building Council**:
Building for Ecologically Responsive Design Excellence

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# OUR GOAL FOR THE FUTURE

# PEOPLE

HEALTH AND WELLNESS

work-life balance

FUTURE

EFFICIENCY

EFFECTIVITY

children

COMMUNITY

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# Thank you!

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