

# Malaysia Green Building Council



## Green Building and Greener Township

11<sup>th</sup> November 2020

**Ir. Benny Song**

Sabah Chapter Past Chairman



## THE IMPACT OF THE BUILT ENVIRONMENT



Buildings are responsible for  
**40%**  
of world's global greenhouse gas emissions.

Buildings are responsible for  
**40%**  
of solid waste generation globally.

Buildings utilize  
**1/3** of  
the world's resources.

Buildings use  
**12%**  
of the world's water.

Air quality in buildings typically contains up to  
**5x** (and at times greater than 100)  
more pollutants than outdoor air.

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# What is Green Building?

- Efficient use of energy, water and other resources
- Use of renewable energy, such as solar energy
- Pollution and waste reduction measures, and the enabling of re-use and recycling
- Good indoor environmental air quality
- Use of materials that are non-toxic, ethical and sustainable
- Consideration of the environment in design, construction and operation
- A design that enables adaptation to a changing environment
- Consideration of the quality of life of occupants in design, construction and operation



# General Green Building System



## LEED (USA)

- Sustainable site
- Water Efficiency
- Energy & Atmosphere
- Material & Resources
- IEQ
- Innovation & Design / Construction Process



## GREEN STAR (Australia)

- Management
- Transport
- Ecology
- Emission
- Water
- Energy
- Materials
- IEQ
- Innovation

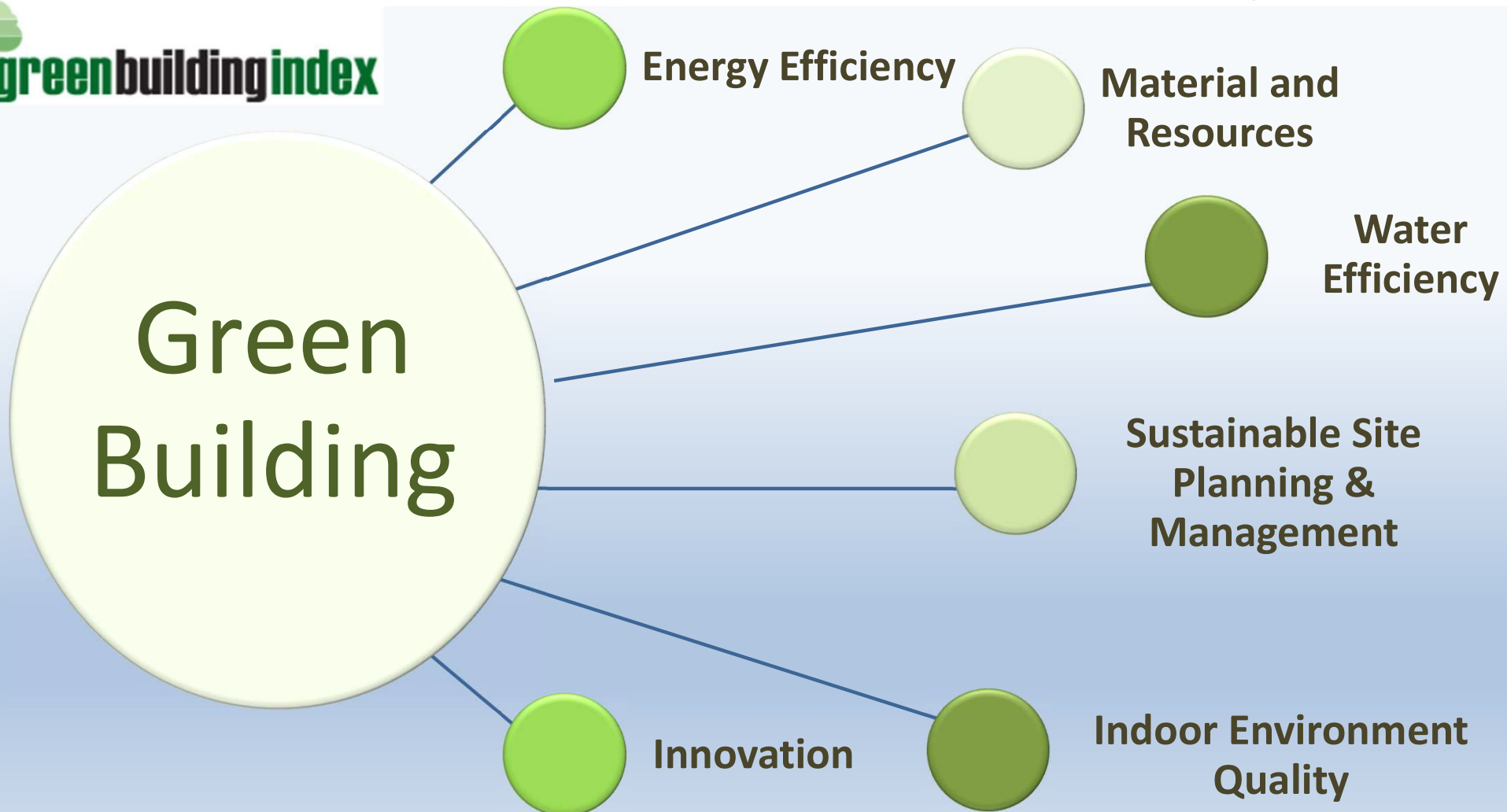


## GREEN MARK (Singapore)

- Energy Efficiency
- Water Efficiency
- Environmental Protection
- IEQ
- Other Green Features



# Green Buildings (Malaysia Context – GBI)





# Benefits of Green Building



- Positive living environment
- Greenspace and landscaping
- Reduce wastage of water
- Low energy use
- Lower operational costs due to energy efficiency and renewable options
- Sustainable living choice
- Improved natural light
- Improved air quality
- Improved occupant health and comfort
- Minimise strain on local infrastructure
- Conserve natural resources

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# Green and Sustainable Township





# GBI Townships Tool V2.0



## Business & Innovation



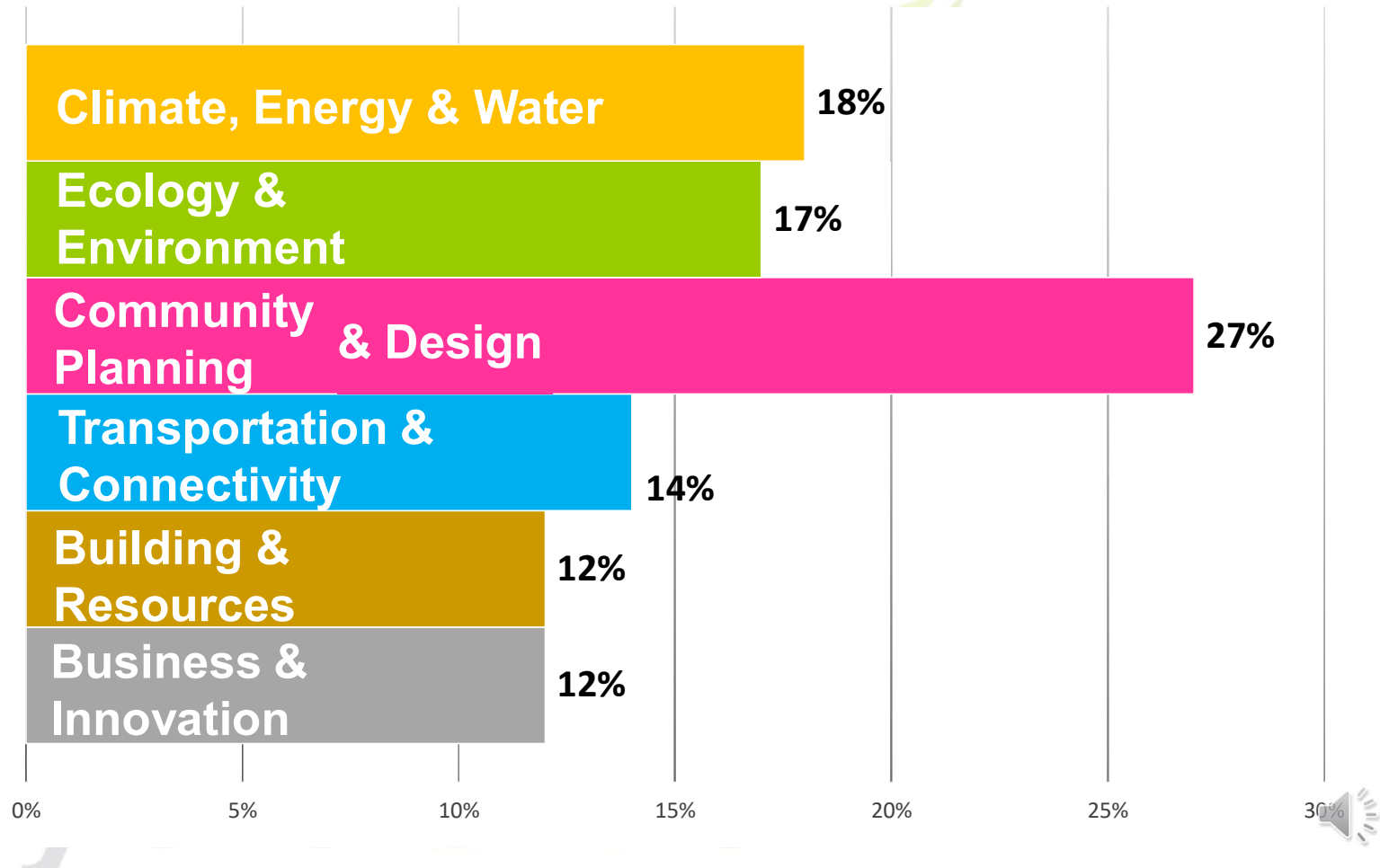
- Promote a liveable community and neighbourhood
- Encourage sustainable townships
- Better Plan of common facilities for the benefit of the community
- Optimise performance and reduce impact on natural resources
- Foster connectivity of both internal and external communities
- Develop solutions incorporate innovative solutions for the present and future



# GBI Townships Tool V2.0

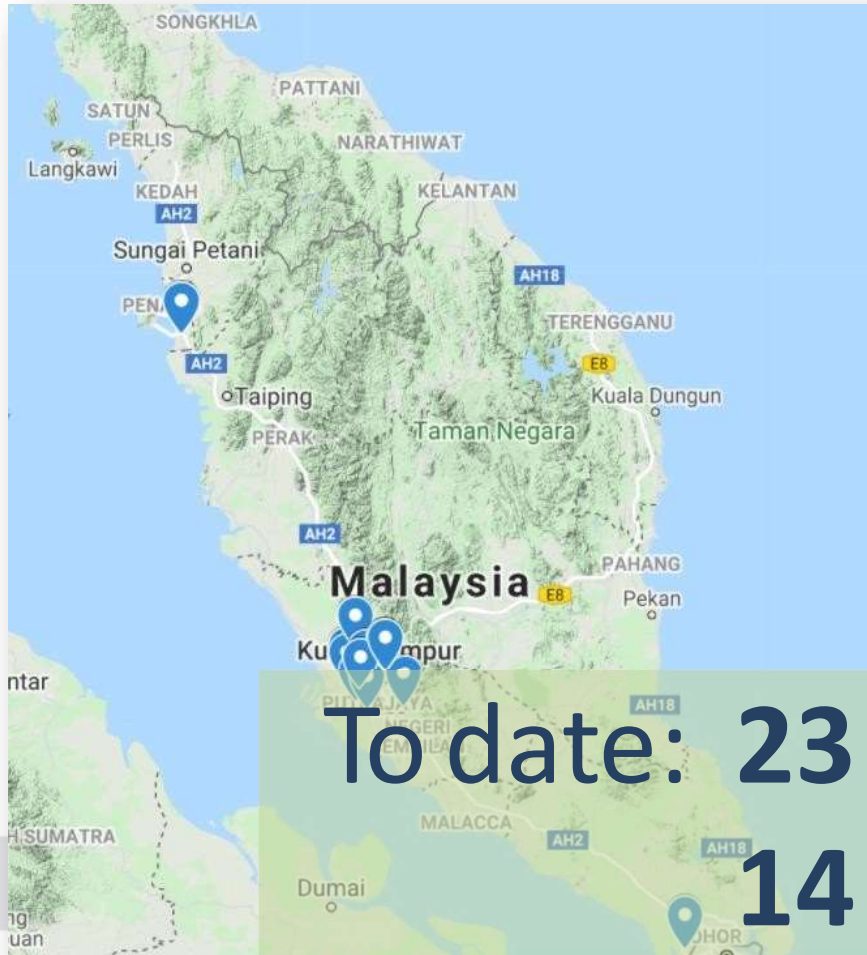
## Point Allocation

Sets out a **Vision** for sustainability within the built environment and provides guidance to deliver **Sustainable Township** in **Malaysian** context



# GBI Certified Green Townships

5 Certified / 5 Silver / 3 Gold / 1 Platinum



To date: **23** Townships registered  
**14** Townships certified



# GBI Buildings in LCCF

**GBI Buildings** forms  
**GBI Townships**  
Contributes to  
National  
**Low Carbon Cities  
Framework**



2015



PARIS2015  
UN CLIMATE CHANGE CONFERENCE  
COP21-CMP11



MalaysiaGBC is part of a global community WGBC in the belief of creating a sustainable environment to address climate change



Thank you.  
Let's Work Hand in Hand Together

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