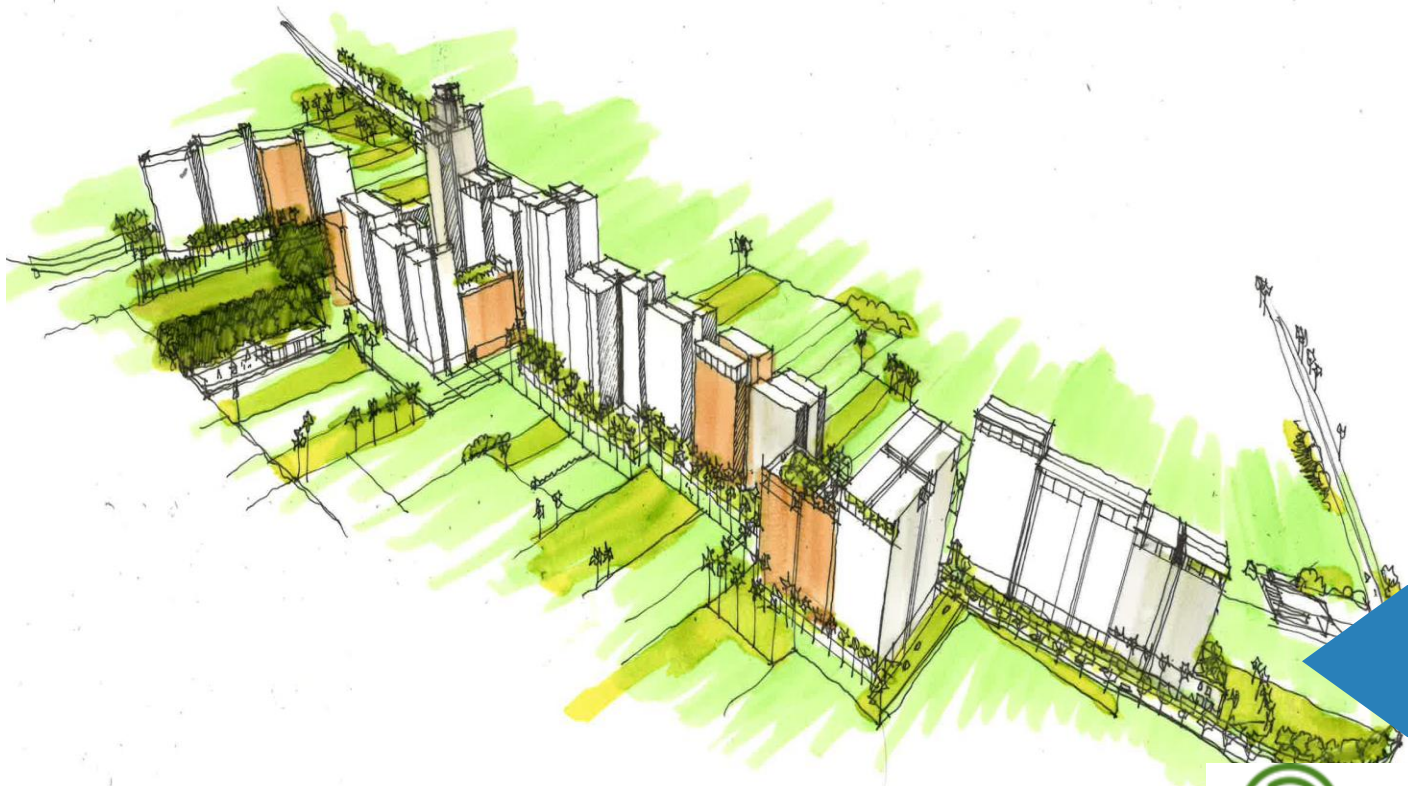


# Low Carbon Building: Developer's Perspective

# Saakaar Aqua City- A Case Study



12  
Acres

Total Land  
Area.



24 Lac sqft

Total Built  
up area



1400+

Total No. of  
apartments



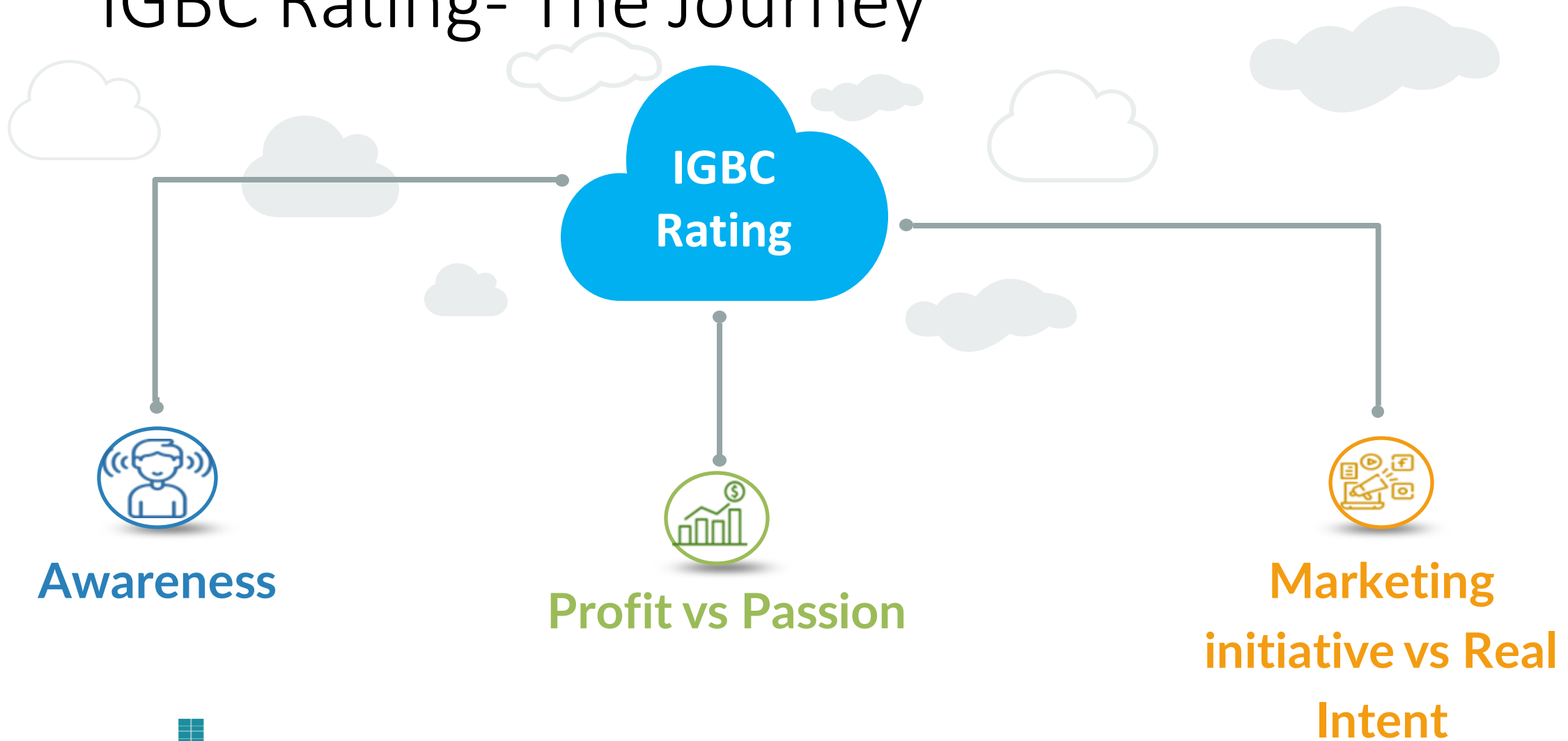
21 Towers

Total No.  
of Towers



Located in Patna

# IGBC Rating- The Journey



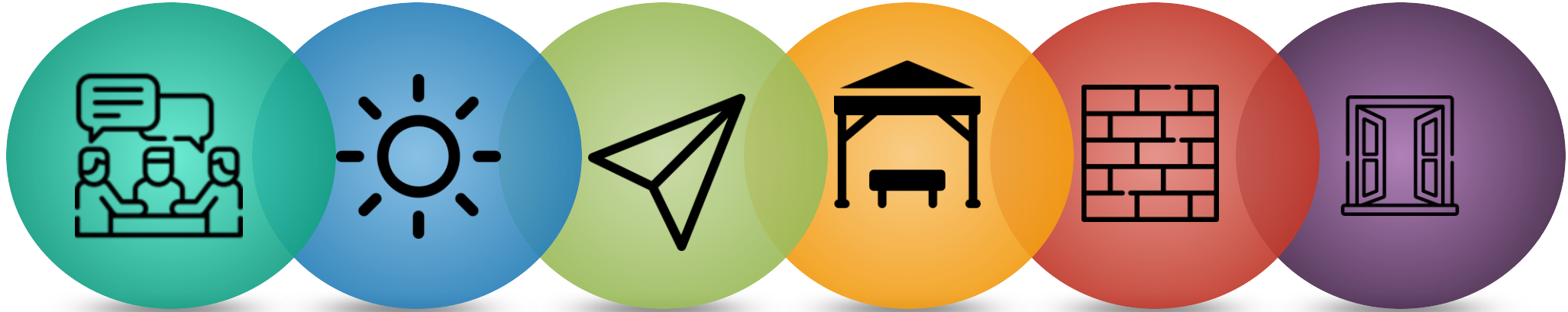
Key Aspects

Sunpath  
Analysis

Building  
Alignment

Pergola

Roof Garden



Coordination  
Meeting

Sunpath  
Analysis

Building  
Alignment

Pergola and  
Roof Garden

Thicker  
Outer Walls

Sufficient  
Window  
Area and  
Cross  
Ventilation



Anurag Bajpai

Green Consultant  
Greentree Delhi



Construction Start Date: July 2018  
Handover Date: Jun 2024

Ar. Nicholas Sutton  
Architect,  
DRA Studios  
London



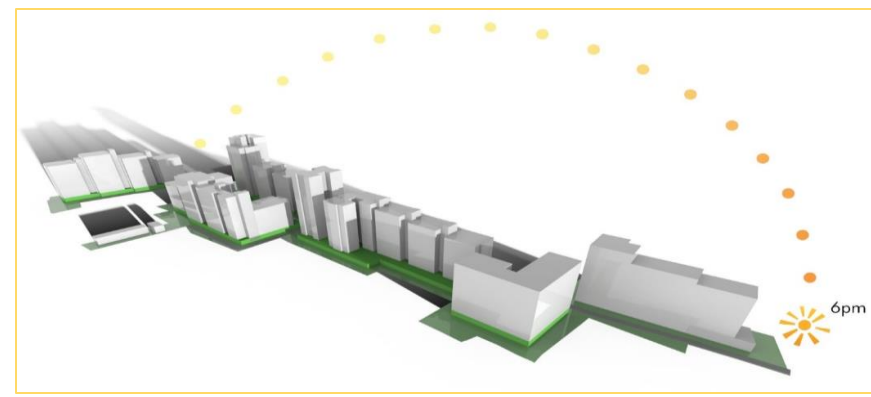
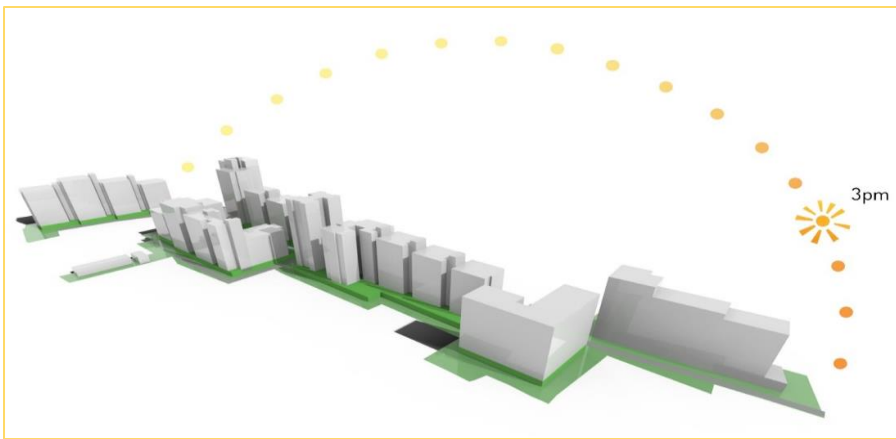
C to C Consultant

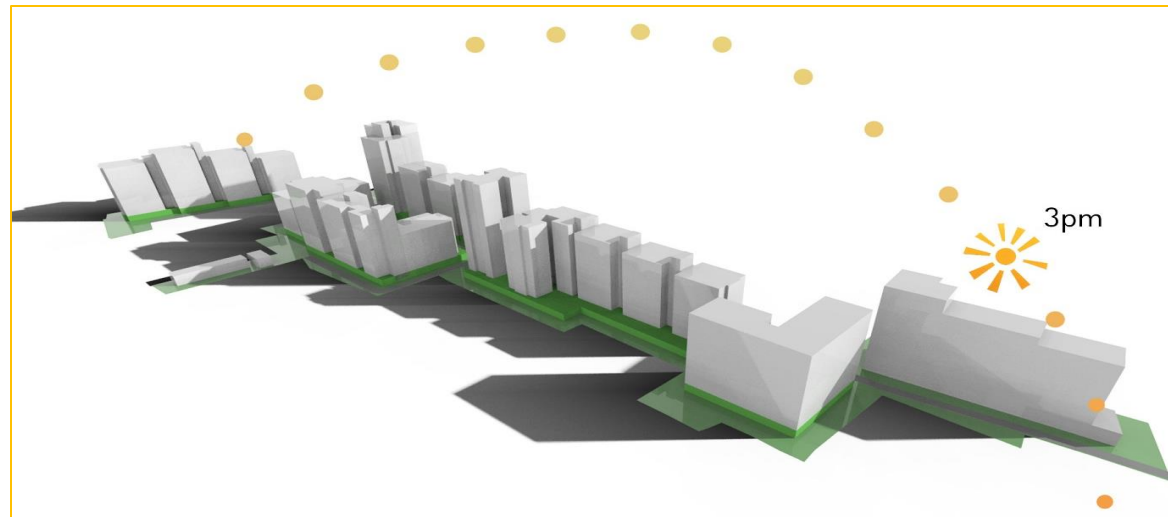
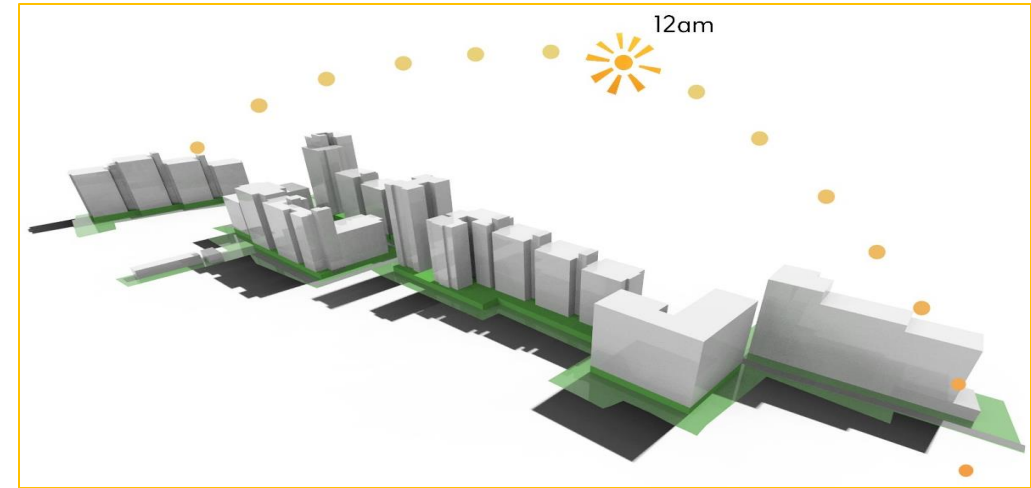
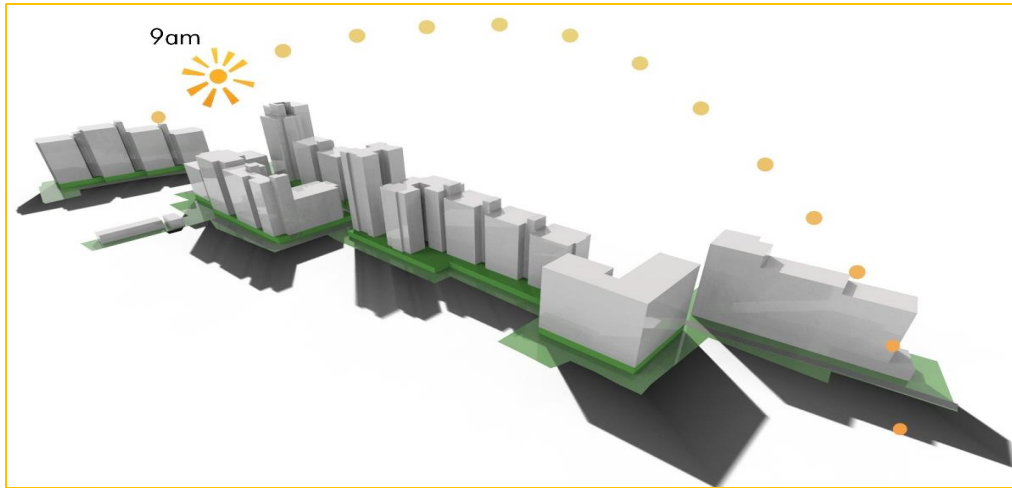
MEP Consultants  
Delhi



IGBC Pre Certified Gold Rated Building

Summer Sun Shadow Study





Winter Sun Shadow Study

Key Aspects

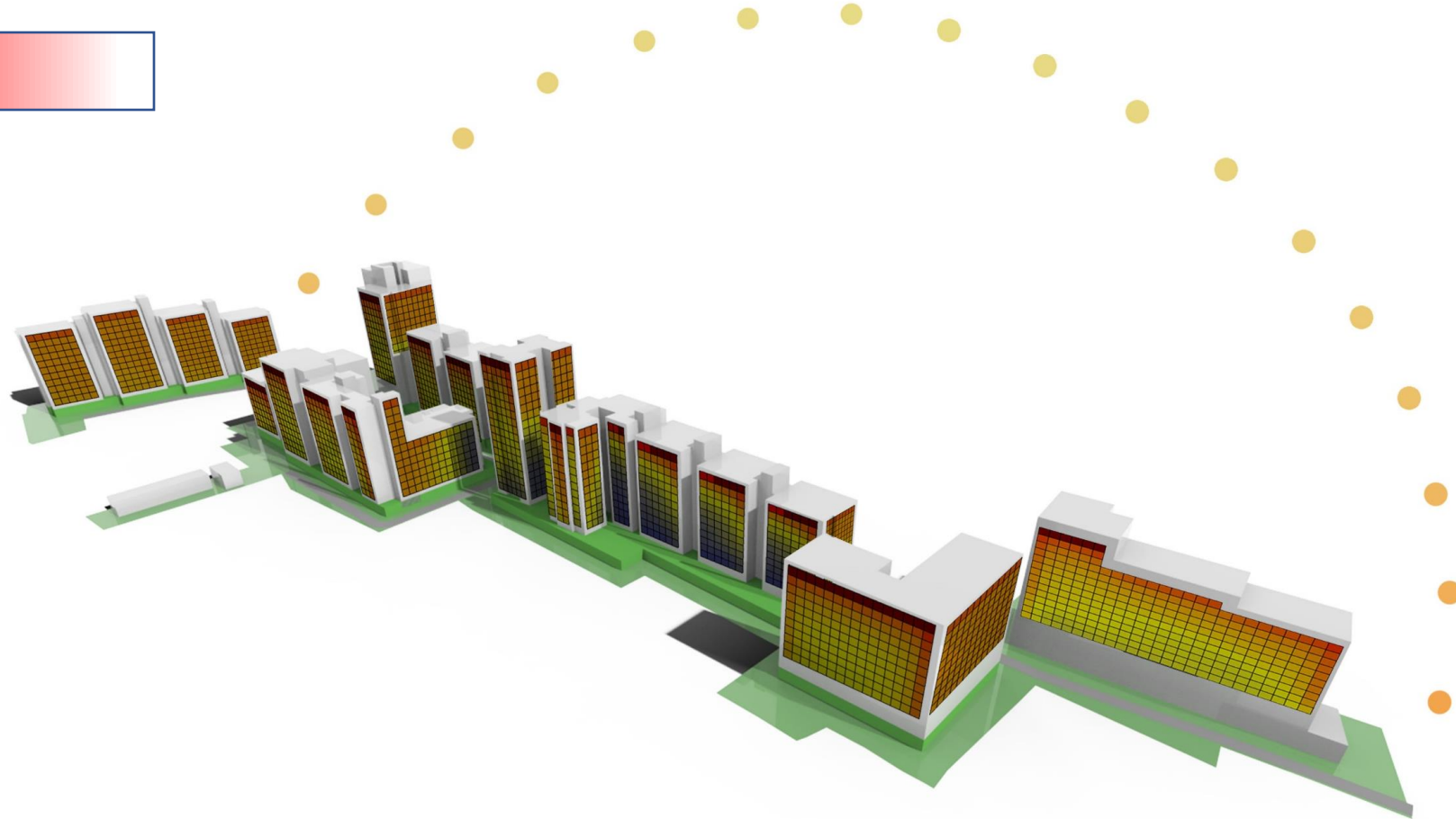
Sunpath  
Analysis

Building  
Alignment

Pergola

Roof Garden

Summer Sun Face Study





Key Aspects

Sunpath  
Analysis

Building  
Alignment

Pergola

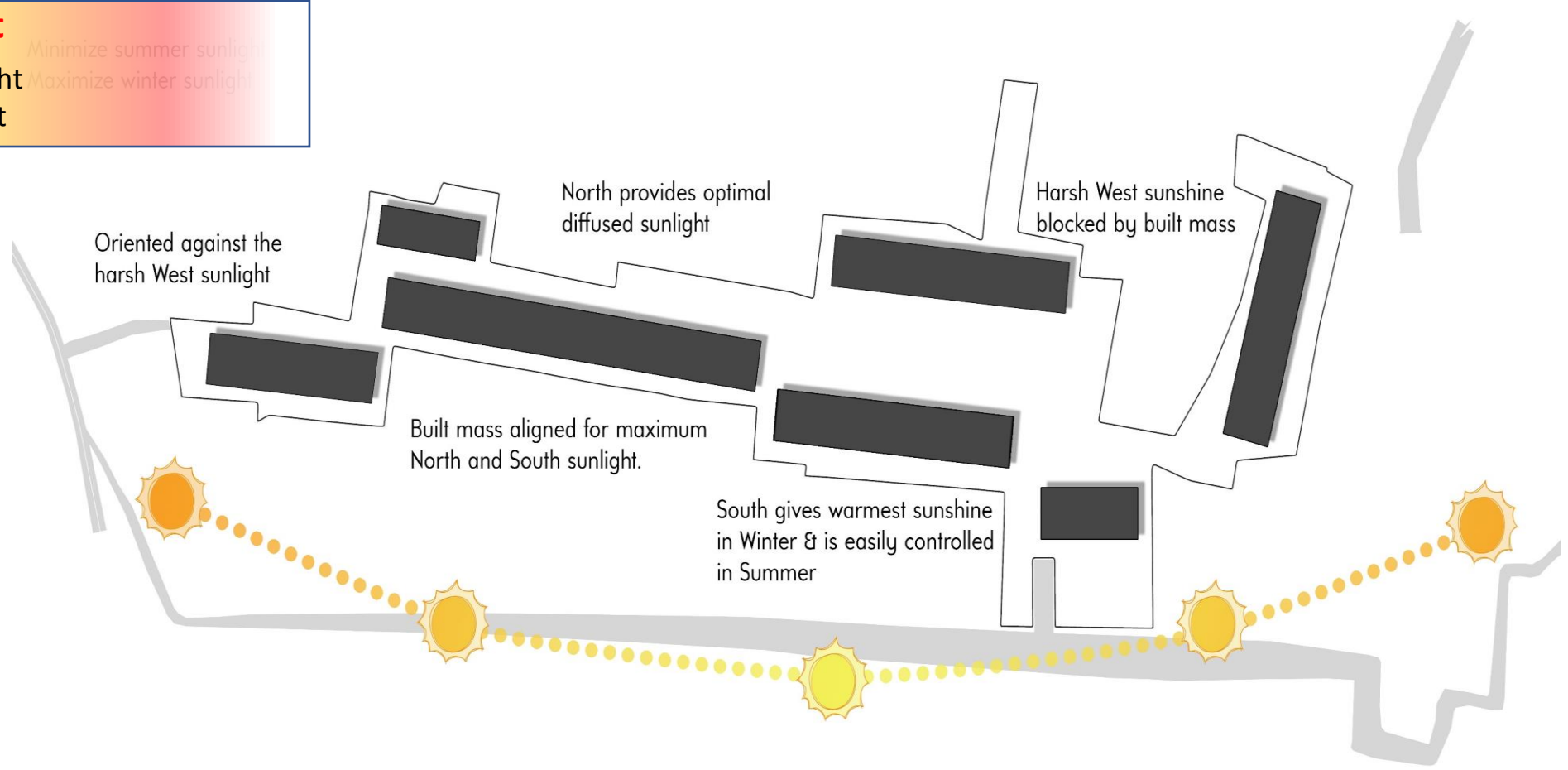
Roof Garden



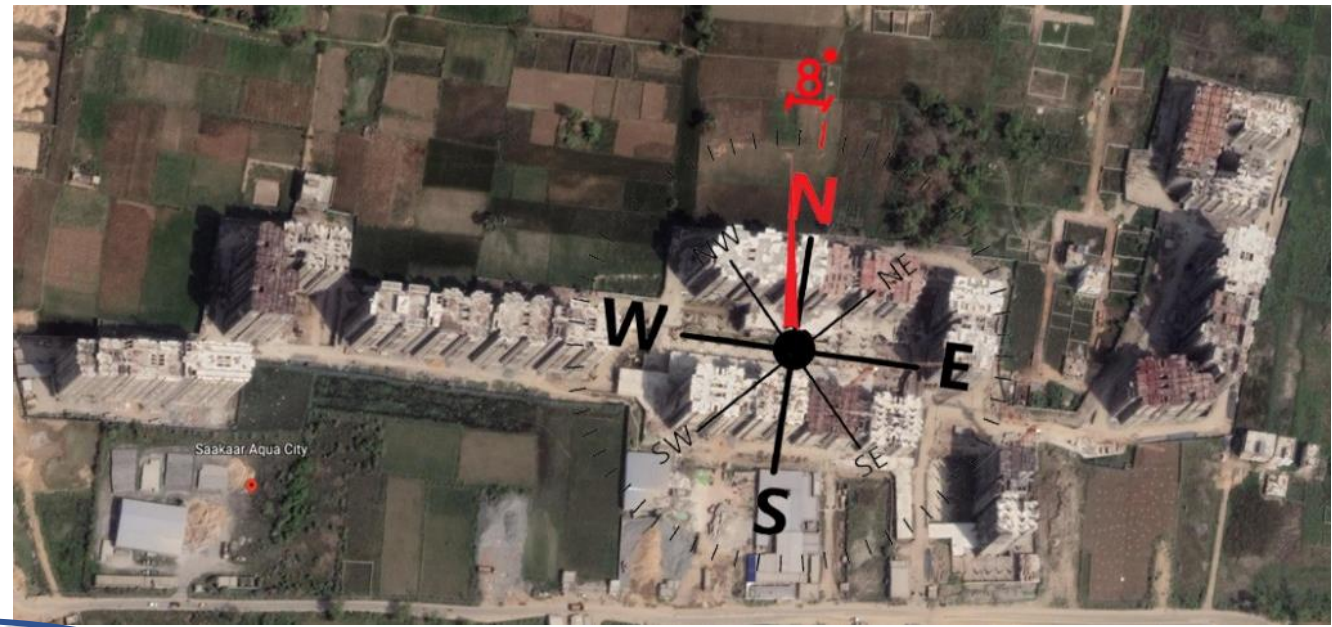
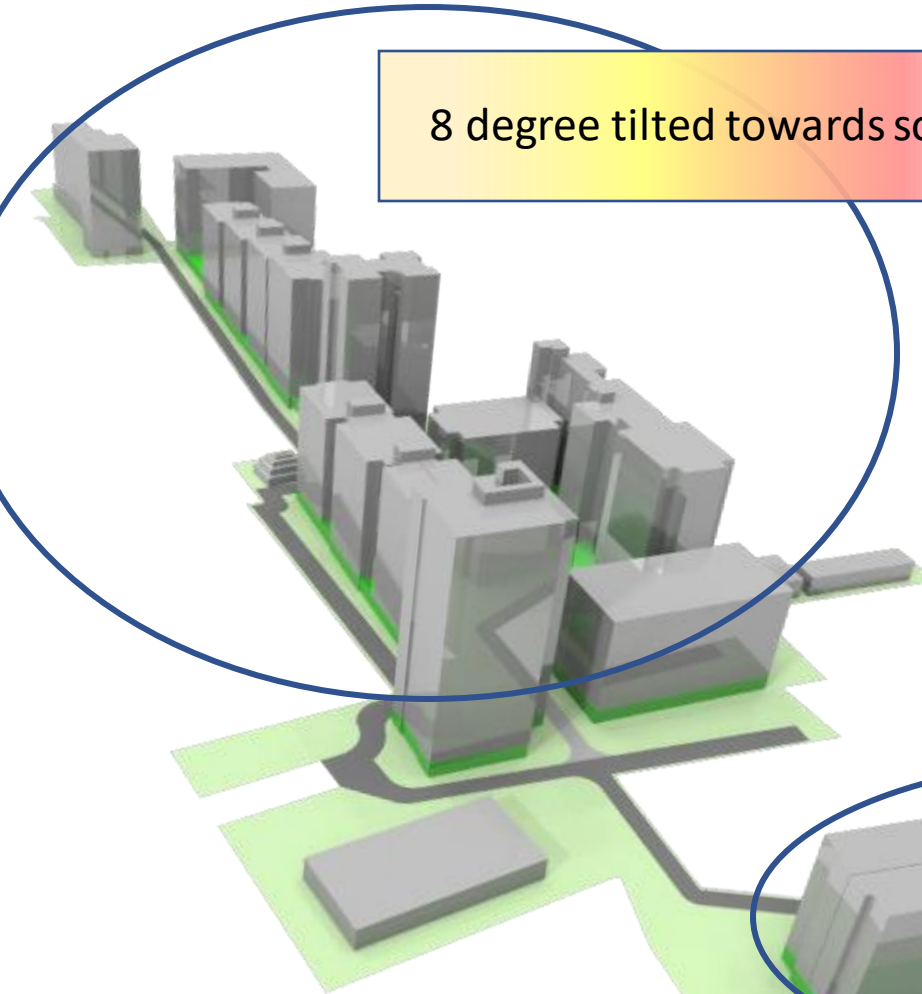
Winter Face Study

**Massing Alignment**

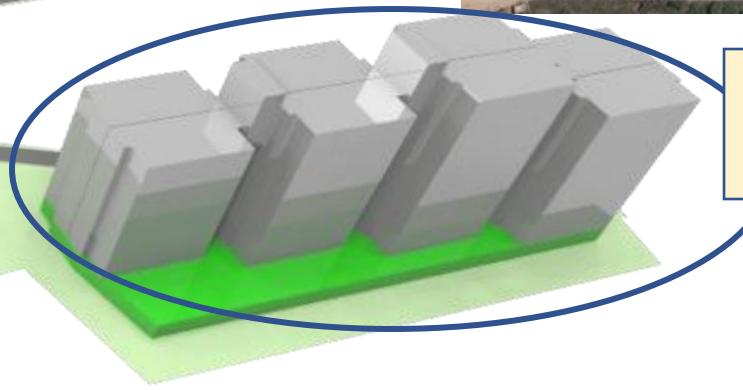
- Minimise summer sunlight
- Maximise winter sunlight



8 degree tilted towards south



14 degree tilted towards south



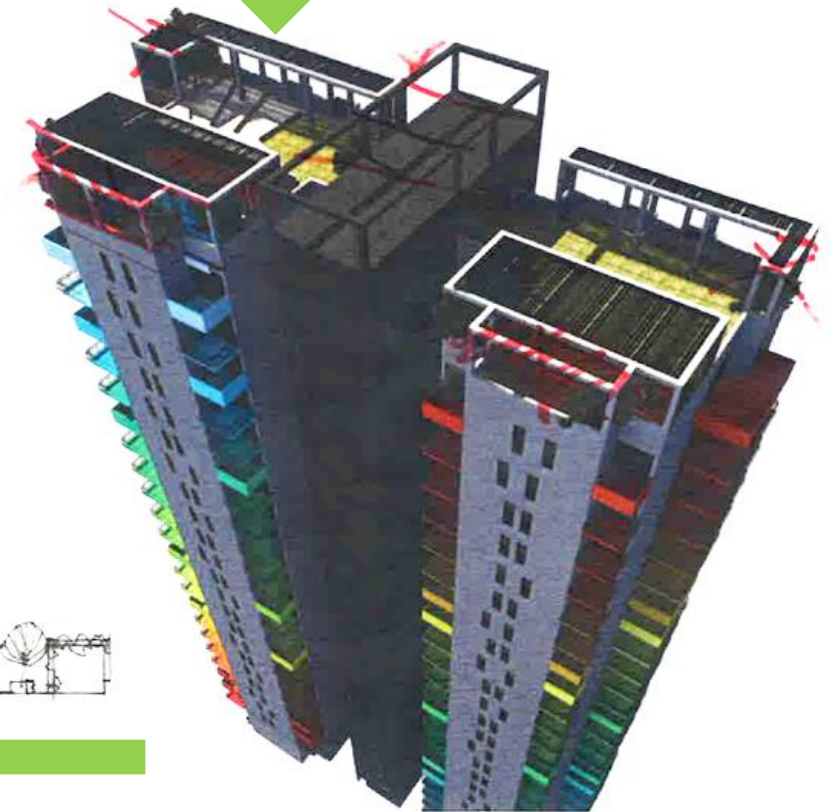
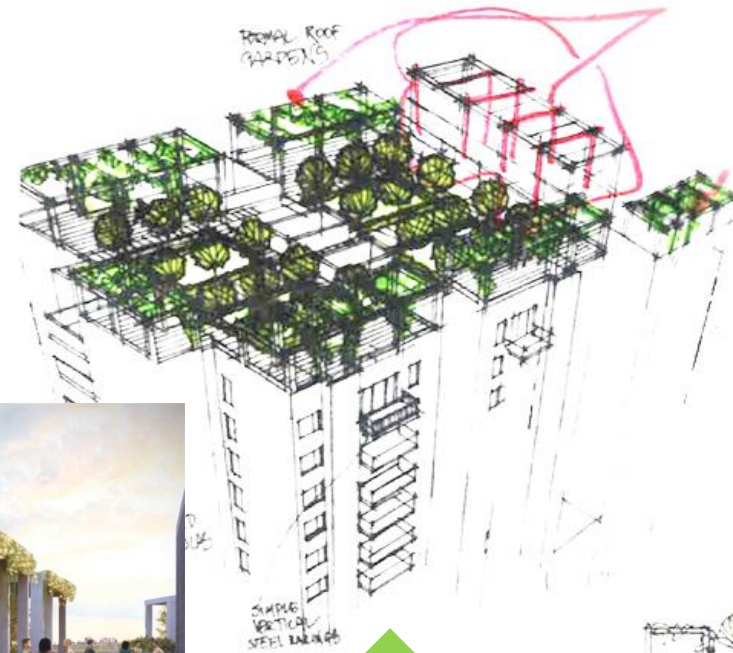
Key Aspects

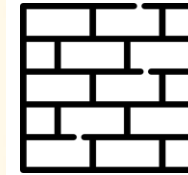
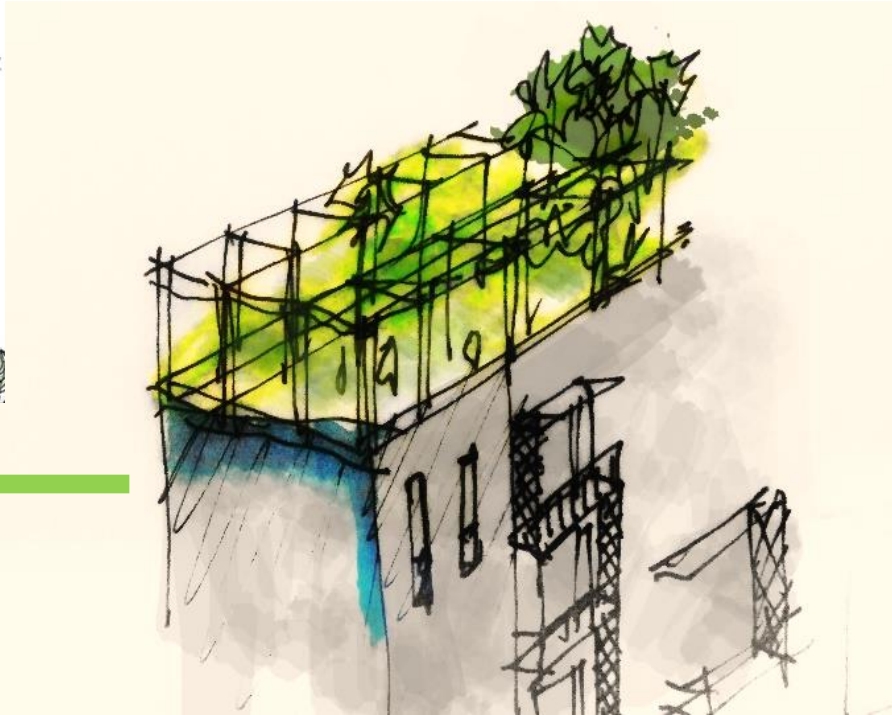
Building Alignment

Sunpath Analysis

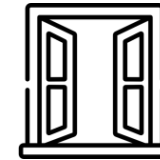
Pergola

Roof Garden





**Thicker Outer Walls**

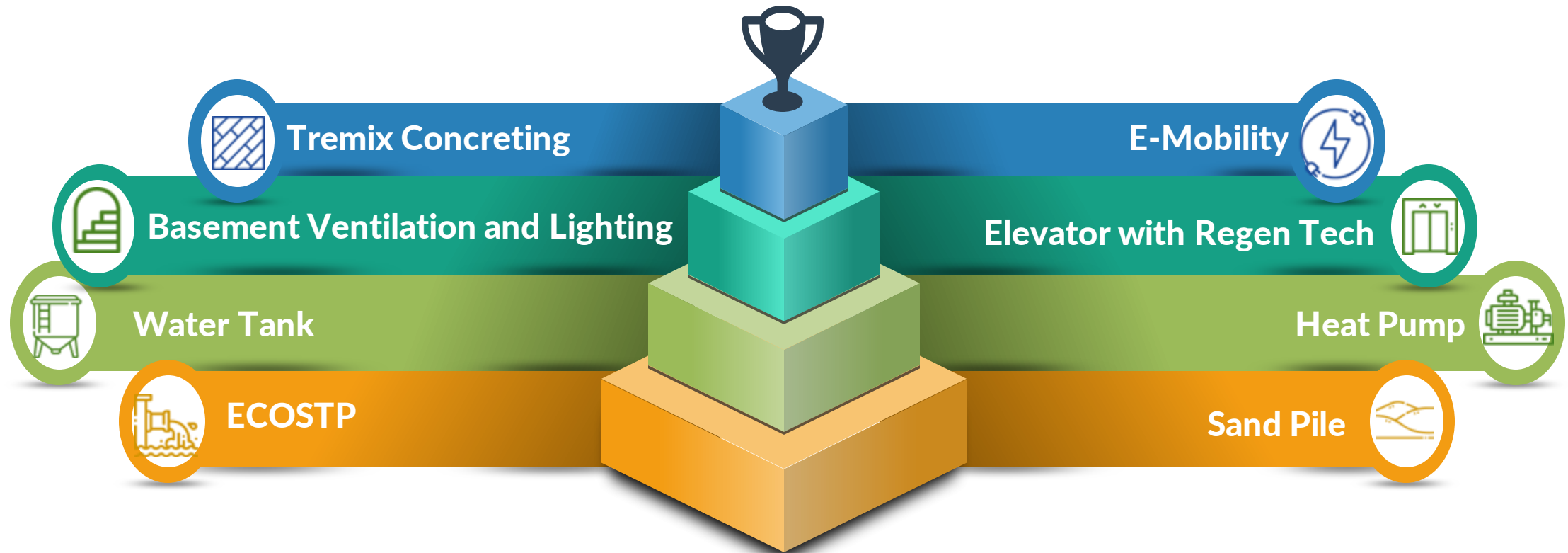


**Sufficient Window Area and Cross Ventilation**

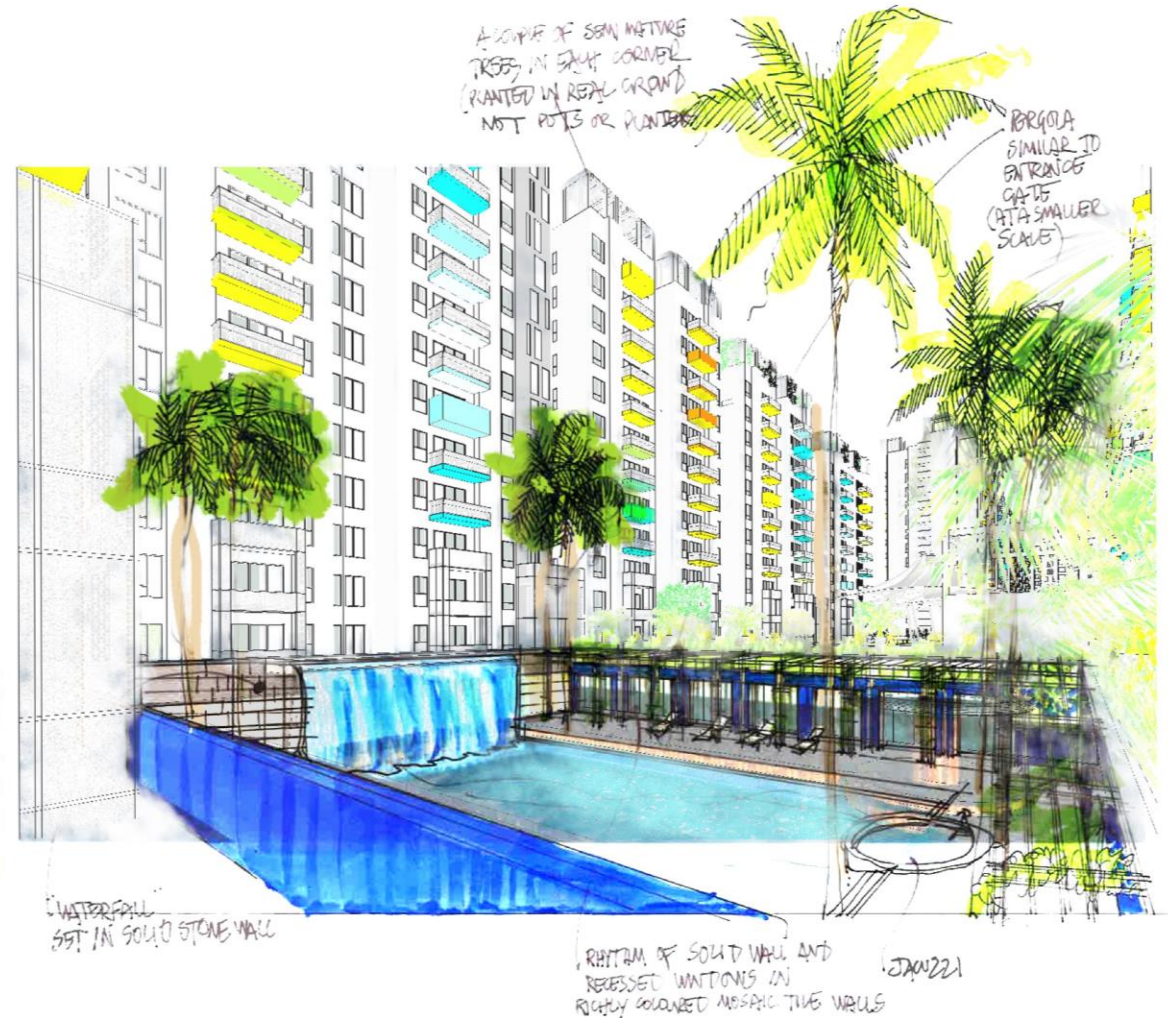


TERRACE PARTY AREA

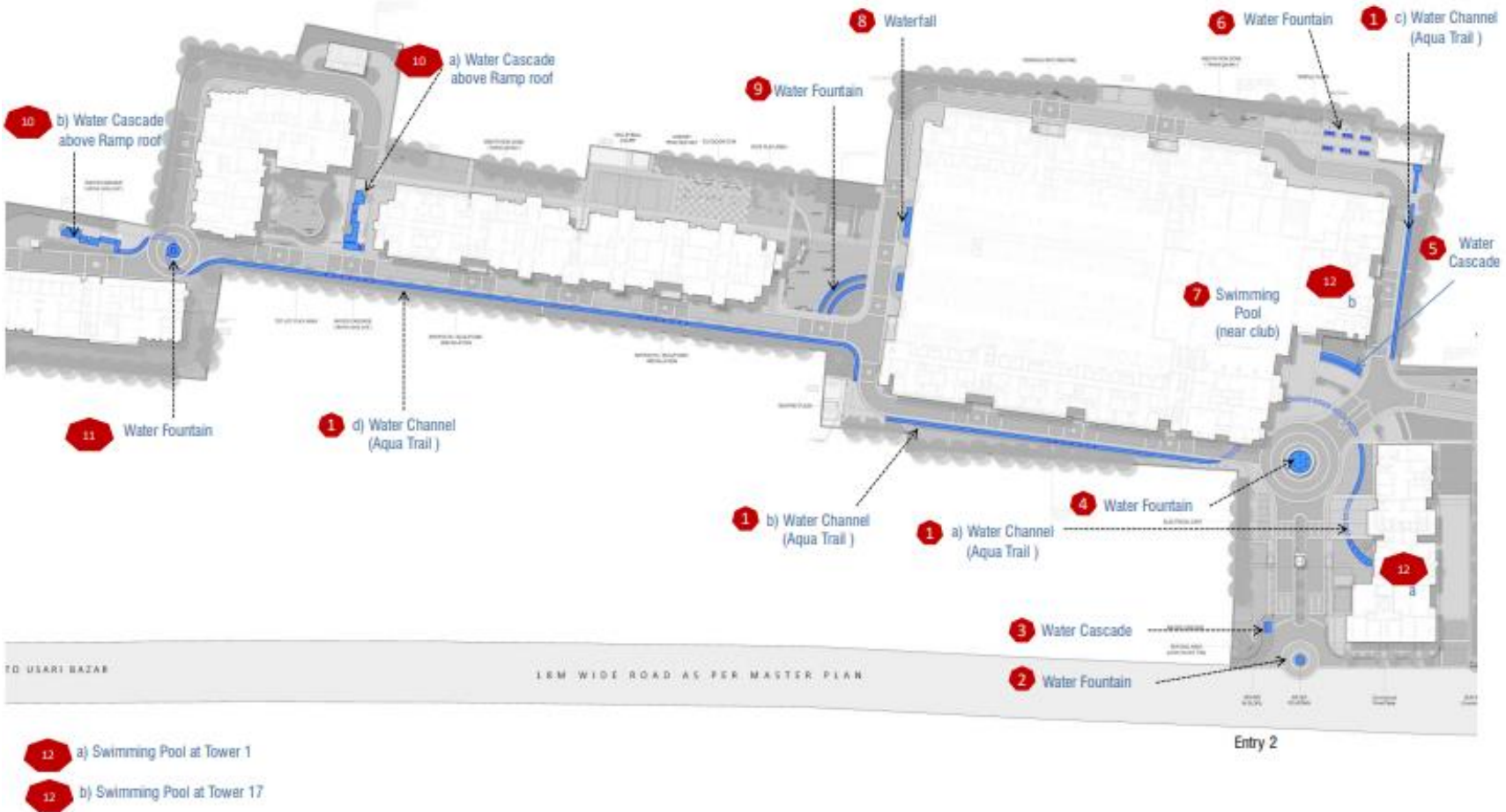
# Key Differentiators



# Inspiration from Nature-Water Fall



# Interconnected Water Bodies





# Inspiration from Nature-Miyawaki Forest

