

# ■ INTRODUCTION

As a key part of an expanded central city, "Connecting People Connecting City" will transform former industrial precincts into a series of modern, vibrant and distinctive areas. The transformation will forge a direct connection to the bay and accommodate tens of thousands of residents and workers, driving significant economic growth and accommodating Melbourne' s growing population. The functions of BIM/CIM and VR are applied in the design processes to analyze and simulate the sustainability, green transportation and disaster prevention and solutions in this re-development plan.

# **BACKGROUND**



Lorimer area is facing urban green space fragmentation, a lack of human traffic construction and the existence of the West Gate Highway, resulting in urban fragmentation.

## ■ KEY ISSUE



Sky walk - it connects buildings, transforms residents' life from two to three dimensions, and creates recreational spaces in the line shape. Open space - it combines skywalk and cable-car stations, which keeps crowds flowing and creates a series of unique attraction spots.

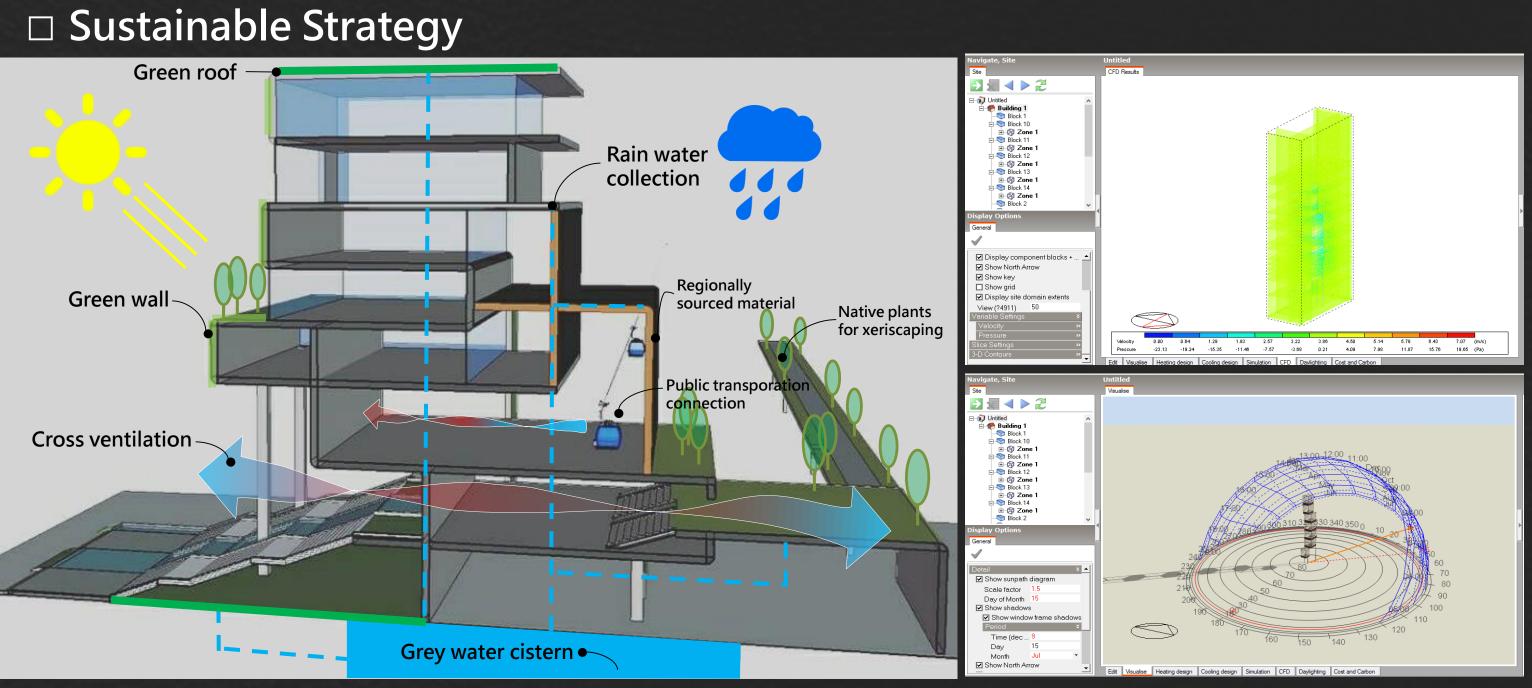
**Cable car transport** - it solves the problems of public transportation in two dimensions sphere with cable car transportation, which not merely deal with the regional fragmentation in urban planned areas but bring about the development of tourism industry.

### **DESIGN CONCEPT**



waterfront landscape of the Yarra River. A skywalk which can connect building and the bank of Yarra River, not only take the Yarra river bank but create a friendly and a new tourism condition of Lorimer.

increased.



Use "DesignBuilder" and "CFD" to simulate lighting, shadows, and airflow analysis of building structures to achieve the goal of energy savings.

rain and rivers can generate on the urban planned areas. The result proves that the skywalk design reduced the impacts of disasters.