

# walk rain or shine

If it rains suddenly, what do you do?  
If it shines hot, what do you do?  
We propose : *Let's walk if it rains or shines !*

Sunny

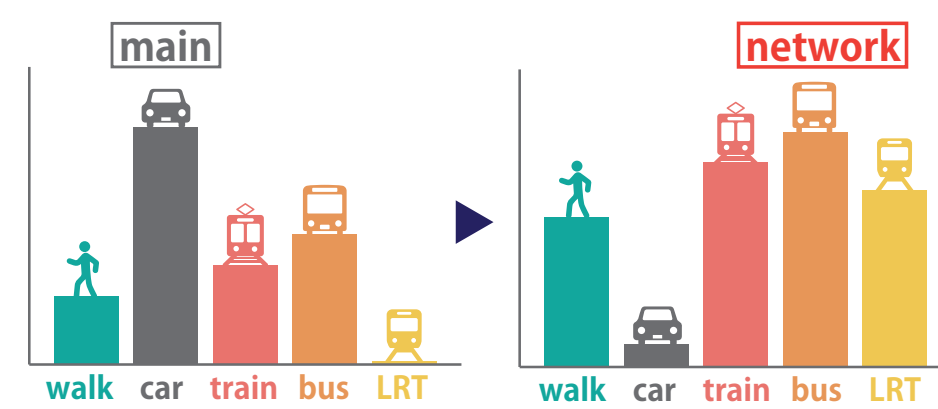
Rainy

## master plan "walkable city"

Yangon confronts several issues such as traffic jam, old railway, and flood. Traffic congestion makes trouble people because cars play a key role in transportation. So we create walkable network with public transportation to solve it.

For example, if you want to go to Yangon Central Railway Station from Anawrahta Rd, you may always take a car. But we propose : you take Light Rail Transit at nearby station and get off. After that, you pass Sule Rd, where pedestrians can walk comfortably by awnings.

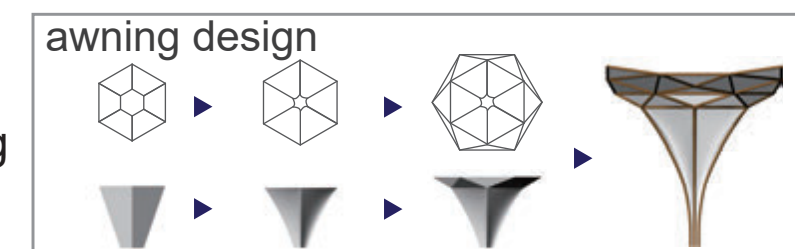
Thus we transform Yangon into a "walkable city."



## Sule Road design

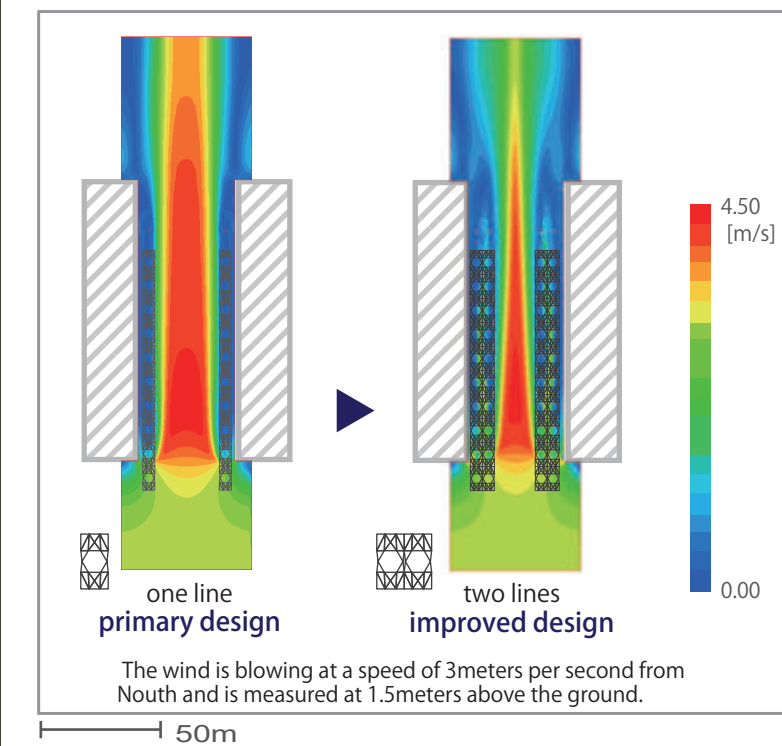
### pedestrians with sunshade & drainage function awning

Pagoda in Myanmar usually has a round shape. But, Sule Pagoda is component of square and round shape. Therefore we design awnings in Sule Rd using hexagon and round shape.



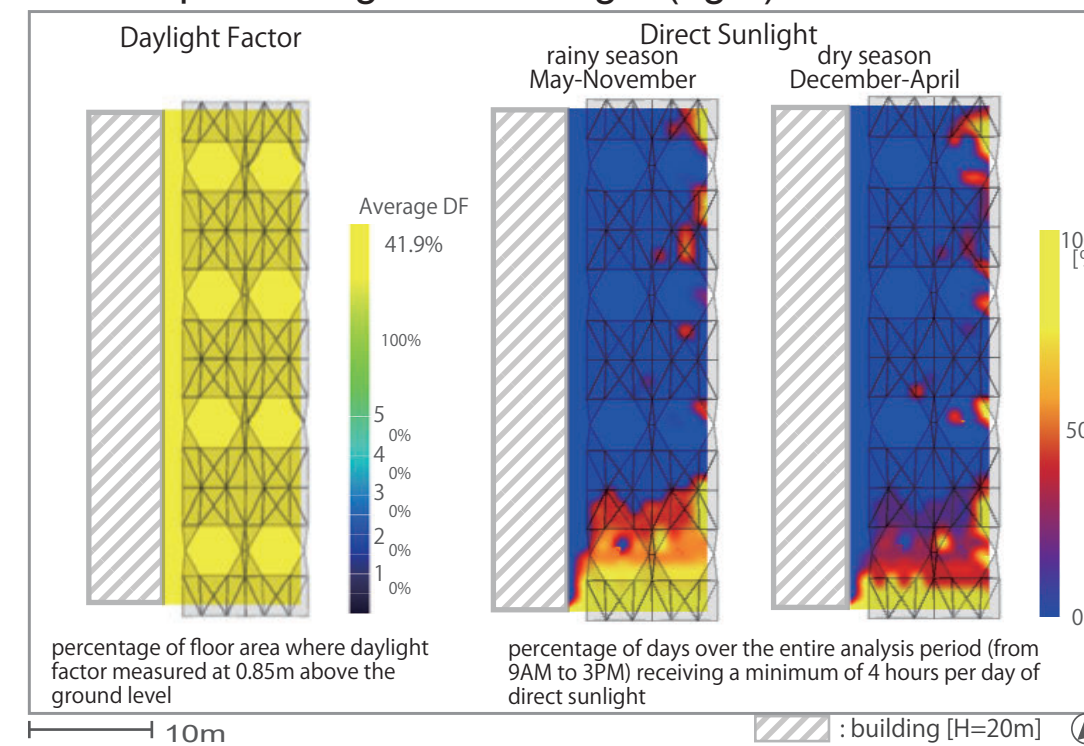
### CFD simulation

It is important to make the city well ventilated, but it is hard to walk in a strong wind. We adopt the plan to place two lines of awnings because a comfortable breeze is blowing in a sidewalk, and ventilation is ensured in traffic lanes.

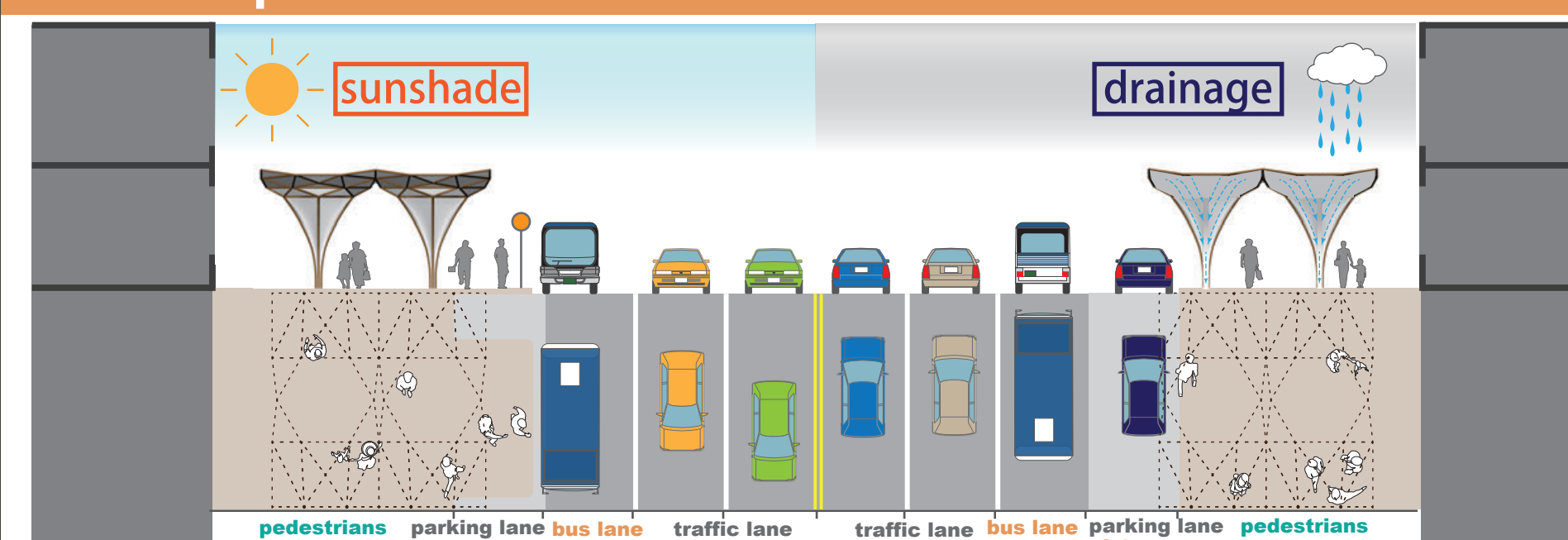


### Daylighting simulation

By pairing daylighting analysis with direct sunlight analysis, we enable pedestrians to feel great daylight without risk of direct exposure. Maintaining good daylight in Sule Rd (left) while preventing direct sunlight (right).

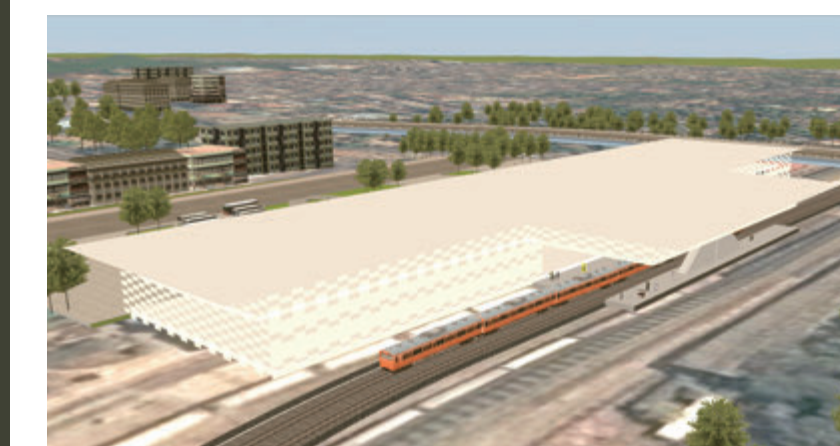


### bus stop & traffic lane



## facility design

### Yangon Central Railway Station

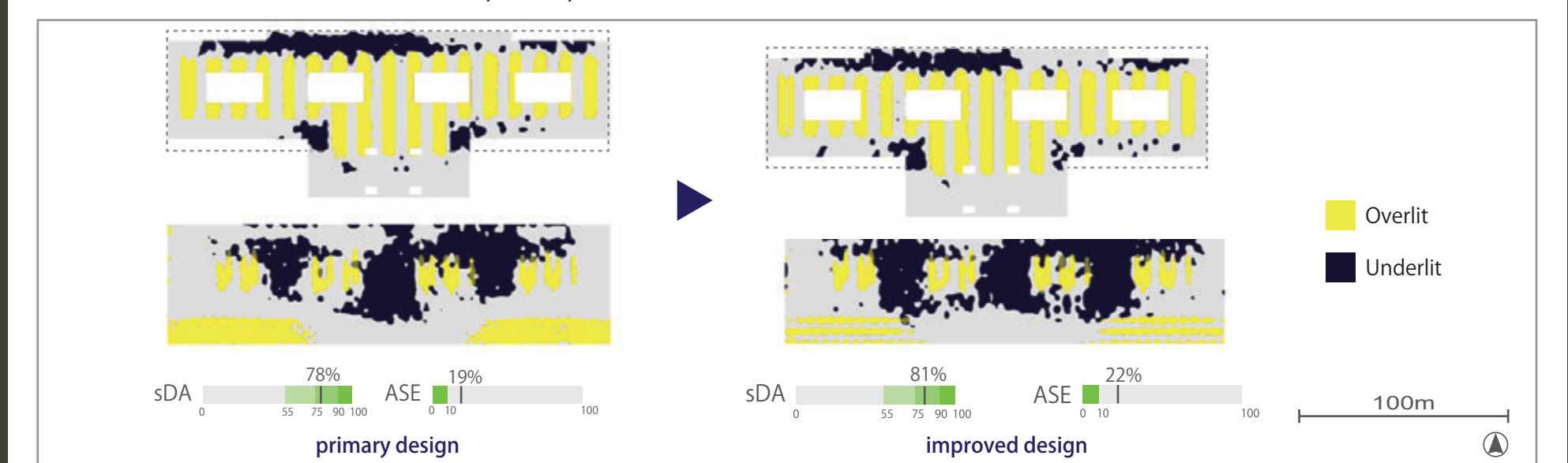


Yangon Central Railway Station is the core of network with public transportation. A flow of pedestrians is considered, so that they can transfer from trains to buses (from buses to trains) easily. In case of disaster, people can evacuate to the "public space." "Public space" is larger than "ticket gates and platform" space and higher than ground level.

Freshen the air in the station by stack effect. Inside air flows toward outside throw the skylight.

### Daylighting simulation

We adjust light environment based on the score by LEED. Overlit (over 1000 lux of direct light for more than 250 occupied hours per year) and Underlit (less than 300 lux for more than 50% of occupied hours) is calculated by computational simulation. LEED points can be earned with minimum sDA levels of 55%, 75%, and 90% and maximum ASE is 10%.



### LRT station



Light Rail Transit plays a feeder role in extension of line from Yangon central station, urban railway station as main public transportation system to neighboring area. LRT is placed to use casually for people such as children and elder. It can shorten the required time from home to the station and revitalize the central urban area.