

# ACCEL WORLD

25 hours

EST.2022 SITE:Western Sydney Airport DESIGN BY:" YOGO SPITAL"

"Accel world" is an automatic city frame based on a highly urbanized area. We try to improve our traffic system by using UAVs and self-driving cars. We hope that concepts can make our daily life different from old times. A smart city is based on "traffic." "Traffic" means communication and transportation.

Thus, we propose a concept that it will be a decentralized computing device that includes both vehicles and pedestrians. Using the 5G Network will be a pioneering concept. We hope every car can communicate with this city and create an immediate AI information system to connect every transportation and pedestrian. No matter how far or rich, everyone can get safe traffic and live in harmony with nature are our goal.



## CONCEPT

### Energy:

Australia has abundant solar energy resources. In this case, we tried to introduce BIPV (Building-integrated photovoltaics) into the city, which can support a part of the building operation.

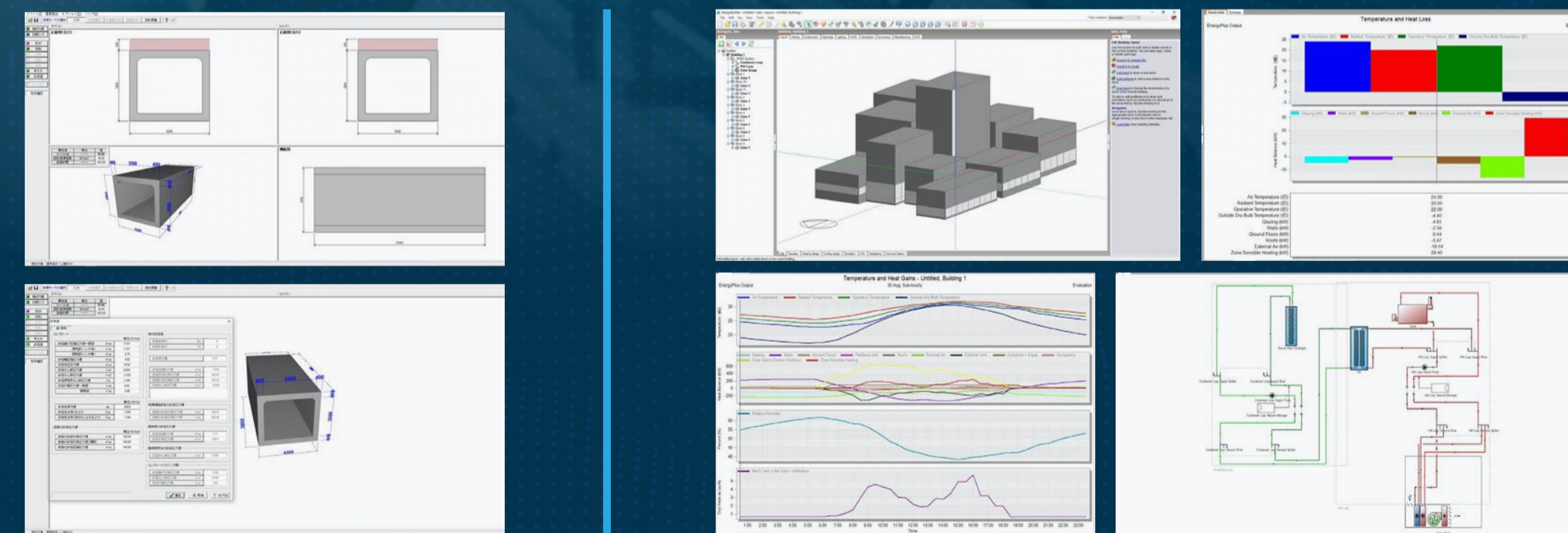
### UAV- (unmanned aerial vehicle)

Information was shared through IoT by vehicles in the city. UAVs can be used to oversee city operations and to mutual details immediately. The system will set route planning automatically to solve traffic jam.

### Vehicle:

Aircraft is as good as land transport; thus, tourists could transfer quickly by an electric aerial vehicle which we made.

## Sewer & Heat Analysis



This section will explain how to measure temperature, losses and calculation methods, the main purpose is to confirm that the temperature  $T_j$  of the junction of the power IC does not exceed the maximum rated value  $T_{jmax}$  even under the maximum operating temperature conditions.

Australia is one of the driest places in the world; thus, the sewers we constructed under the city deliver water efficiently and avoid waste.

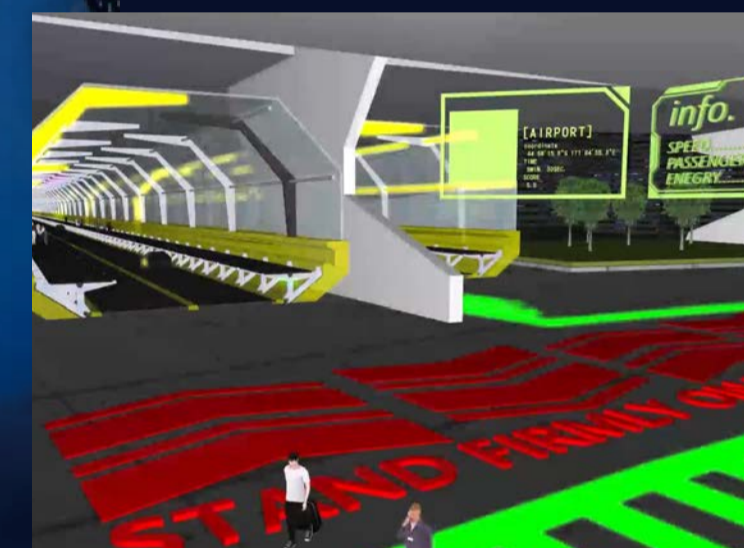
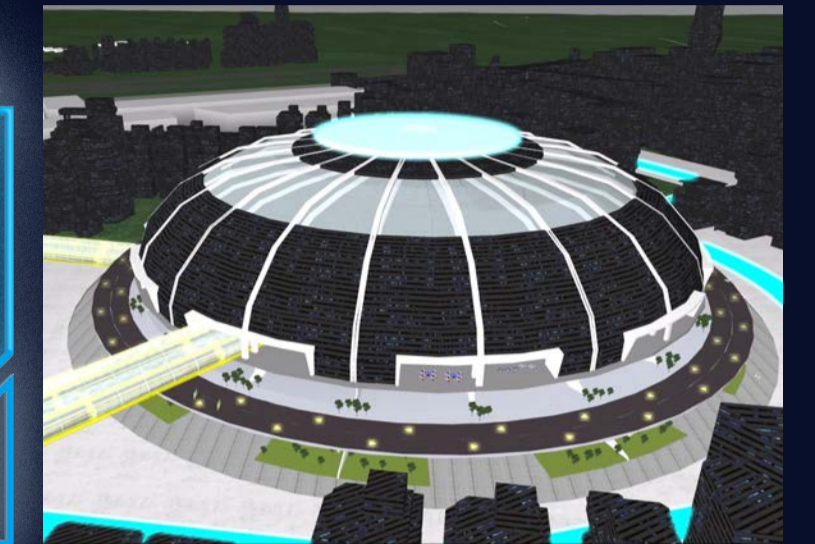


### The transportation hub (OUTSIDE)

The transportation hub combines continuous tracks, the tracks orbit the transportation hub like the ring system. People saved time while they walked on the continuous tracks, and they could reach all sceneries in the city from the hub.

### The transportation hub (INSIDE)

The transportation hub not only provided users transported services but offered tourist road guidance and city information. People could get information quickly by using Augmented Reality devices as well.

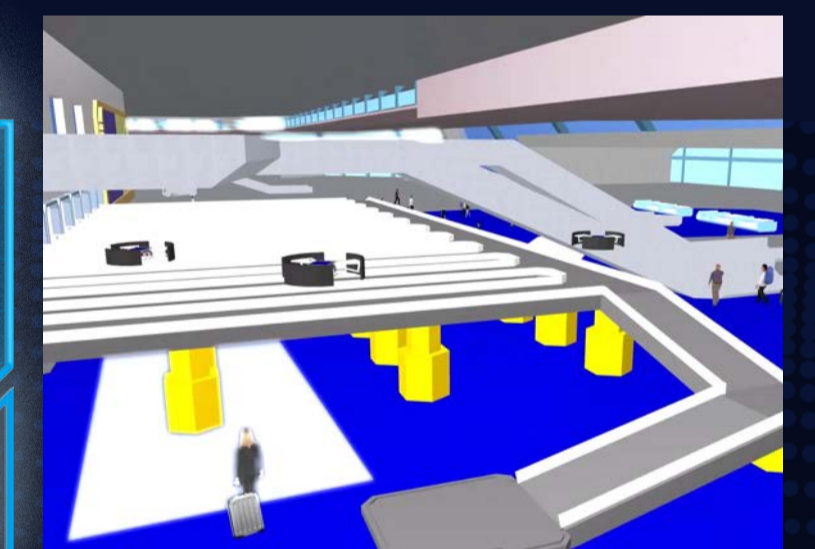


### The tube corridor

The tube corridor set up a difference of elevation to isolate pedestrians and vehicles. This way made tourists get to the airport rapidly.

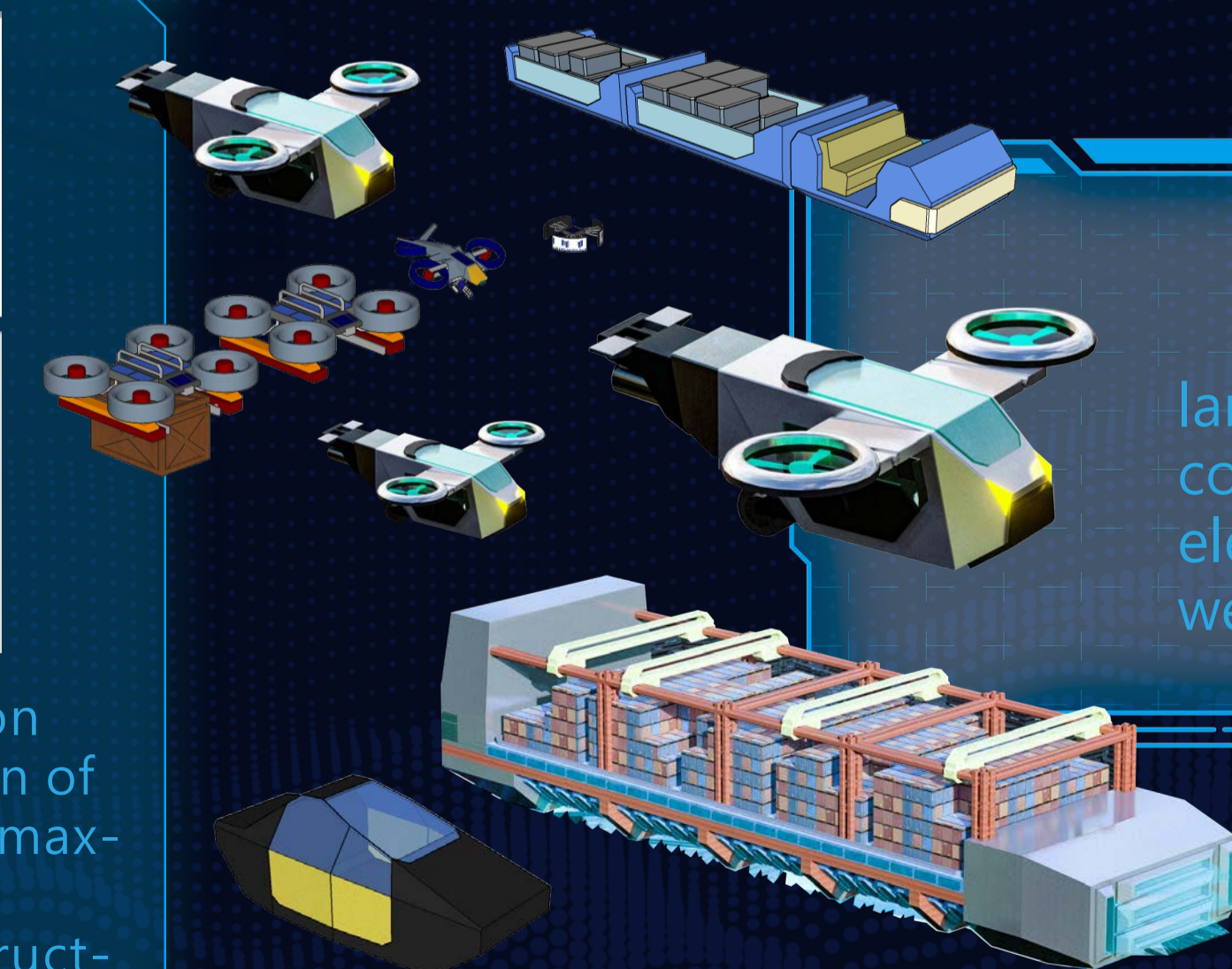
### The airport

Self-driving cars could take tourists and their luggage around the airport. People could get to the correct departure gate while they take the auto continuous tracks system at the airport.



## Aircraft

Aircraft is as good as land transport thus tourists could transfer easily by an electric aerial vehicle which we made.



AI SMART CITY 5G UV NETWORK