Concept

NGS ZIP LINE

AIR MOBILITY LINE

ive through system



Air transportation (air mobility)

CAR

In 2056, Western Sydney Airport is expected to attract 80 million passengers, remploy 200,000 people and attract 400,000 residents to and around the airport. The 2056 plan calls for 7% for active transport, 43% for public I transport and 50% for private cars. This definitely causes traffic jams. The proposed ATM (Air Mobility Terminal) will be able to carry about 300,000 people a day from the air. It accounts for about 60% of annual airport





Takeoff method

Air mobility glides and takes off. Vertical take-off is unstable and takes a long time per vehicle, so it cannot carry many people. By gliding and applying wind to the wings to -1generate lift, the take-off time per vehicle is reduced and the take-off weight is increased, making it possible to carry more people more efficiently. Headwinds are also very important when gliding and taking off.

> eal-time weather sensing by drone ead wind

> > (Real-time adjustment of wind direction by angle



SERVER

Cooperation with Sydney

¹ Air mobility runways run parallel to large airliner runwa nis is because the lines of flow do not intersect with larg s. The eight air mobility runways are parallel and all take off in the same direction to improve air mobility circulation. The takeoff direction can be reversed for l each season when the wind direction changes



Air Mobility is controlled by a quantum computer. The quantum computer server room is on the ground, and the roof of the server room is a runway. The air entering the server room is warmed by the computer, creating an updraft due to the chimney effect. The angle of the horizontal louvers installed at the opening of the roof adjusts the updraft in real time, creating a headwind that makes it easier for air mobility to take off. Sensors installed in the server room can observe and analyze wind volume and wind direction. Air circulates quickly in the server room to prevent thermal runaway.



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In 2050, Western Sydney Airport is expected to attract 80 million tourists and 200,000 jobs. This number cannot be accommodated by conventional land transportation. To solve this problem, it is imperative to revolutionize air transportation. This is a proposal for an air mobility terminal that will serve as a gateway for air traffic not only in Sydney but around the world.

AIRPOR

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METRO

PARK ARRIVAL





N A

DEPARTURE

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RESTAURANT SHOP



| | features around Sydney. Access can be made more efficient by using the many lakes and fully automatic amphibious I I rivers around Sydney as airstrips. This allows you to connect even in dense cities. Vertical



wind analysis was performed with designbilder on a d with a parametric design software

a can derive the optimum horizontal louver angle

RUNWAY





