

DRONE X DELIVERY (DRONELIVERY)

New Delivery Era



DRONELIVERY
Into A Better Future

DRONELIVERY



Motivation

- **COVID-19 Pandemic**
 - Decreasing Chance of Eating Out
- **"Work From Home" Culture**
 - Increasing Chance of WFH
- **High Demand In Delivery Service**
 - Increasing Food Delivery Order
 - Increasing Online Shopping
- **VR & Metaverse Networking**
 - Immersive Social Networking At Home
 - Online Community

Planning

- **Worldwide Operation**
 - Japan -> Taiwan -> EU -> US -> HK
 - Based on:
 - Population Density
 - Building Height
 - Delivery Culture
 - Travelling Distance

Impact to society

- **Reducing Carbon Emission**
 - Using Drones Instead of Trucks
- **Increasing Market Revenue**
 - Faster Delivery Time
 - Increasing Online Purchasing
- **Better Quality of Life**
 - More Convenient to Get Delivery
 - Instant Order, Fast Delivery, Immediate Use

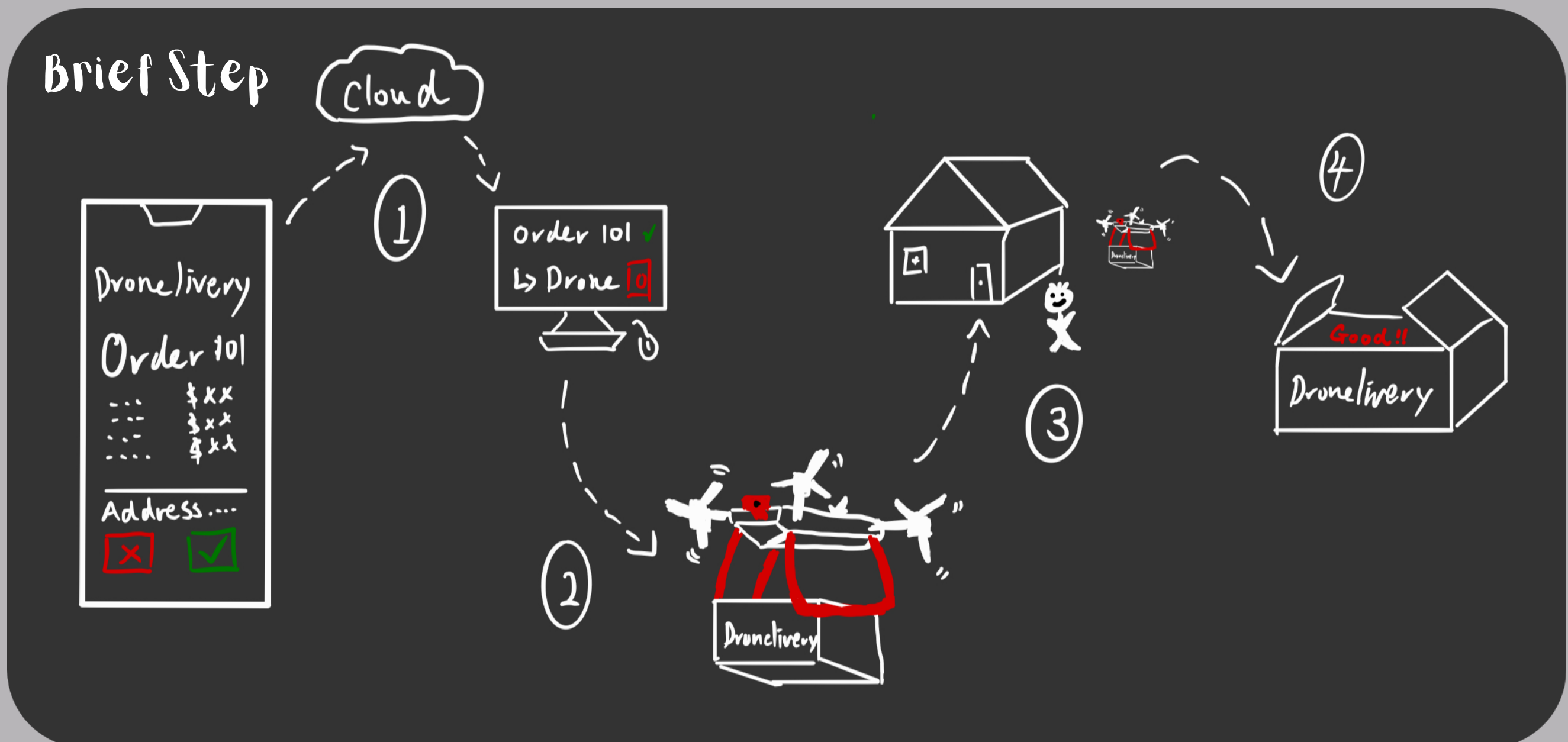
Technology

- GPS Autopilot
- LiDAR Camera
- Direct Georeferencing
- Machine-To-Machine Communication
- Cloud Database

DRONE X DELIVERY (DRONELIVERY)

How does It Work?

Implementation



Step 1: Order Online -> Transmit data to cloud -> Analyze data -> Send drone

Step 2: Drone autopilot -> Using LiDAR camera to georeferencing

Step 3: Find exact location -> Verify location -> Place order

Step 4: Unpack order -> Drone back to the nearest station

Constraints and Solutions

- **Low Battery Life** (Only 30 minutes flight time)
Sol: Battery with a larger capacity
Setting more charging regions around the city.
- **Small bearing capacity** (Less than 5 pounds)
Sol: Powerful turbo-generator
- **Difficult in detecting specified location and floor**
Sol: IoT technology e.g. **GPS autopilot** & machine learning
Machine-to-machine communication using **big data** from Cloud.
- **Privacy in drone travelling**
Sol: Installing **LiDAR camera** instead of live camera
Detect surrounding georeferencing image.