# Roadmap

## 1. Oracle

   **A. iPhone Ground Station app**

      *I. connects to DJI remote over DJI SDK*

      *II. Connects to system's server*

      *III. Broadcasts repacked video from drone via 4G connection*

      *IV. Pilots drone according to the instruction from the server*

   **B. iPhone/Hololens 2 Fighter app and a webpage**

      *I. Displays received from broadcast Video from camera of drone*

      *II. Displays GPS coordinates of Drone and of the Fighter*

   **C. System's server**

      *I. Supporting multiple concurrent connections of the iPhone Ground Station apps*

      *II. Efficiently and scalable records multiple drone camera streams*

   D. Hololens/Helmet mount 3d print

## 2. Raven

   A. iPhone Ground Station app

   B. iPhone/Hololens 2 Fighter app

      *I. Shows GPS markers of recognized targets received from the System's server*

   C. System's server

      *I. CV/DeepML (trained YOLO model) for recognition of humans, vehicles in aerial footage*

      *II. Tracking of targets*

## 3. Tempest

   1. On-board 4G/Starlink connectivity for DJI Mavic

   2. Custom firmware for DJI Mavic

   3. System's Server on Matrice 300 RTK

      *1. Direct control of DJI Mavic's*

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