Far Horizons IMSA Intern Program 2014

Project

Mission Communication System

- 2-Way Communications
 - Uplink (from ground to platform) mainly for Command & Control (C&C)
 - Downlink (platform to ground) mainly for Telemetry
 - Up/Down also for SMS among vehicles & Adler
- Intra-Platform Communications
 - Payloads Telemetry and C&C to 2-Way via Hub.
 - Wired serial links from payloads to payload box Wireless controller.
 - Wireless links between Hub payload box and other payload boxes
- Platform Hub
 - Collects and distributes data from/to all payload boxes.
 - Wired serial link to 2-Way communications.
- Chase Vehicle Hub
 - Collects data and sends C&C from/to payload via 2-Way link.
 - Displays data and accepts control commands via built-in web site.
 - Users in vehicles & at Adler connect to Hub web site via WiFi router.

Mission Communication System Concept

