DGC Planning Team – Global Subteam GOTChA Chart

<u>G</u>oals

• Keep vehicle on course and navigate route efficiently

<u>O</u>bjectives

- Preprocess waypoint data from RDDF in less than 2 hours (before race)
- Never stray off course
- Spend minimal time traversing a route

Technical Challenges

- Aerial photos are imperfectly coordinated to GPS coordinates; difficult to interpret
- Poor documentation on some code (namely DSTAR)

•Photograph preprocessing time is too time consuming to be realtime.

Approach

- Generate and process static maps from aerial photography to use during race
- Use DSTAR for trajectory generation
- Interface to Arbiter
- Physically follow maps to find GPS coordinates

DGC Planning Team – Global Subteam Status Chart



