



Operations Team



Ken Fisher and Richard Murray

9 October 2006

Team Scope:

- Operating, testing and maintaining Alice, including configuration management and test process
- Simulation environments (kinematic, dynamic, sensing, traffic)

Summer 2006 Members:

- Coordinator: Richard Murray
- Students: Ken Fisher, Ilya Loksha, Jing Shen, Albert Wu
- JPL: Mark Indictor, Abhi Jain, Kenny Meyer, Dave Wagner
- Other: Stephanie Balster (NGC) Tony and Sandie Fender (CIT)

CS/EE/ME 75, 9 Oct 06

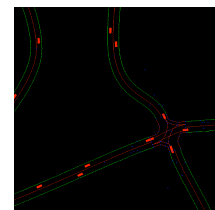
K. Fisher/R. Murray, Caltech

1

Summer 2006 Activities and Status

Simulation environment

- Selected ROAMS as vehicle simulation environment (used at JPL for rovers)
- Developed traffic simulator that can link to ROAMS



Configuration management

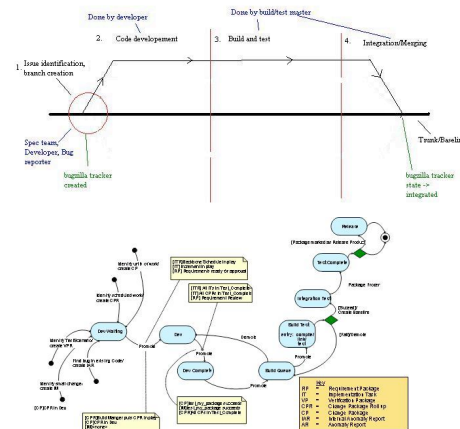
- Selected YaM (from JPL) for code management; defined build process

Test execution

- Defined process for executing tests, including code lockdown, test phasing

Alice modifications

- Experimented with side LADAR mount



CS/EE/ME 75, 9 Oct 06

K. Fisher/R. Murray, Caltech

2

Fall 2006 Activities

Small projects

- Generator isolation - generator on rear of Alice causing cameras to shake
- Wiki organization - establish guidelines for wiki pages used in the projet
- Waterproofing Alice - allow Alice to operate in light rain without damage
- Operational testing - help JPL put together evaluation plan for quarterly field tests
- Sensor mount expansion - design and install new sensors mounts for urban sensor suite
- Alice electrical system - document and clean up Alice's electrical system

Trade studies: none to date

Additional activities

- Maintain Alice, shop, test infrastructure