

# DGC 120 Planning team meeting - Week 3

## TA:

- Lars Cremean (lars @cds)

## Stereovision subteam:

- **Jeremy Gillula** (jeremy @its)
- Haomiao “H” Huang (haomiao @its)
- Gunnar Ristroph (gunnar @its)

## LADAR subteam:

- **Mike Thielman** (thielman @yahoo.com)
- Kristo Kriechbaum\* (kk @its)

## Global subteam:

- **Alan Somers** (somers @its)
- Rocky Velez (rocky @its)
- Les White\* (leswhite @adelphia.net)

## Planning subteam:

- **Sue Ann Hong** (sueh @its)
- Thyago Consort (thyago @cds)
- Adam Craig (craig @its)
- Luis Goncalves\*  
(luis @bologna.vision.caltech.edu)

**Email all:** team-software @cds.caltech.edu

\* = Non-DGC 120 support, minimum time commitment 10 hrs./wk., attend project meetings (Mondays, 8pm, 139 Moore), planning team meetings (Wednesdays, 8pm, 139 Moore), subset of field tests

# Meeting Goals and Agenda

## Goals:

- ☒ Generate lessons learned from last weekend's testing
- ☒ Review current status and tasks for next tests
- ☒ Work out interface issues with vehicle and embedded systems teams (MTA, camera and LADAR mounting, field demos, ...)

## Agenda:

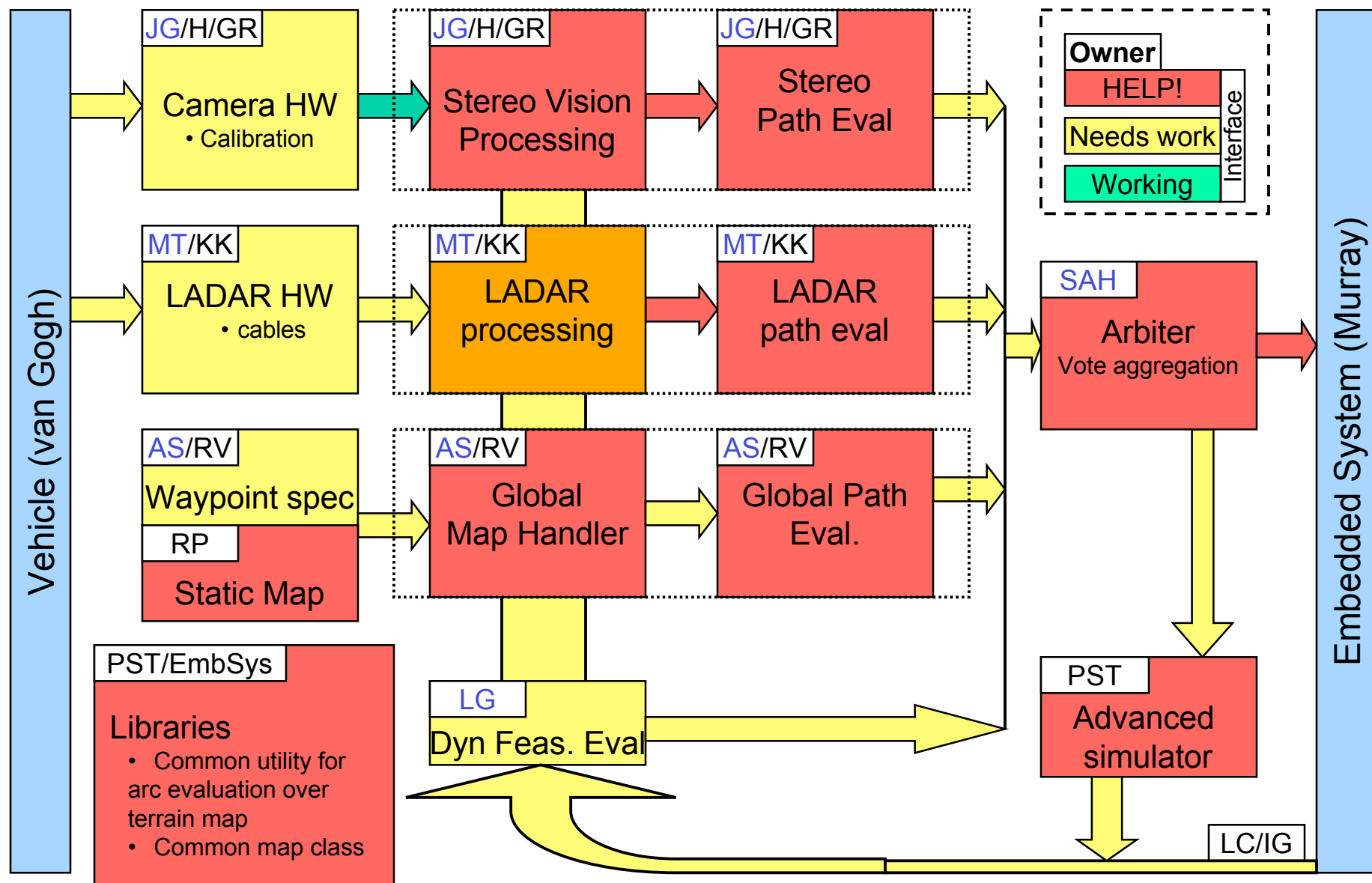
- 8:00 Meeting goals, agenda (note taker)
- 8:05 Last weekend's testing recap, lessons learned
- 8:25 Review and update of team status chart (add comments)
- 8:40 Discuss performance characterization test requirements
- 8:55 Task list review/ update, focused on weekend (local) field demo
- 9:15 Review and update team timeline
- 9:30 Adjourn

## Lessons learned

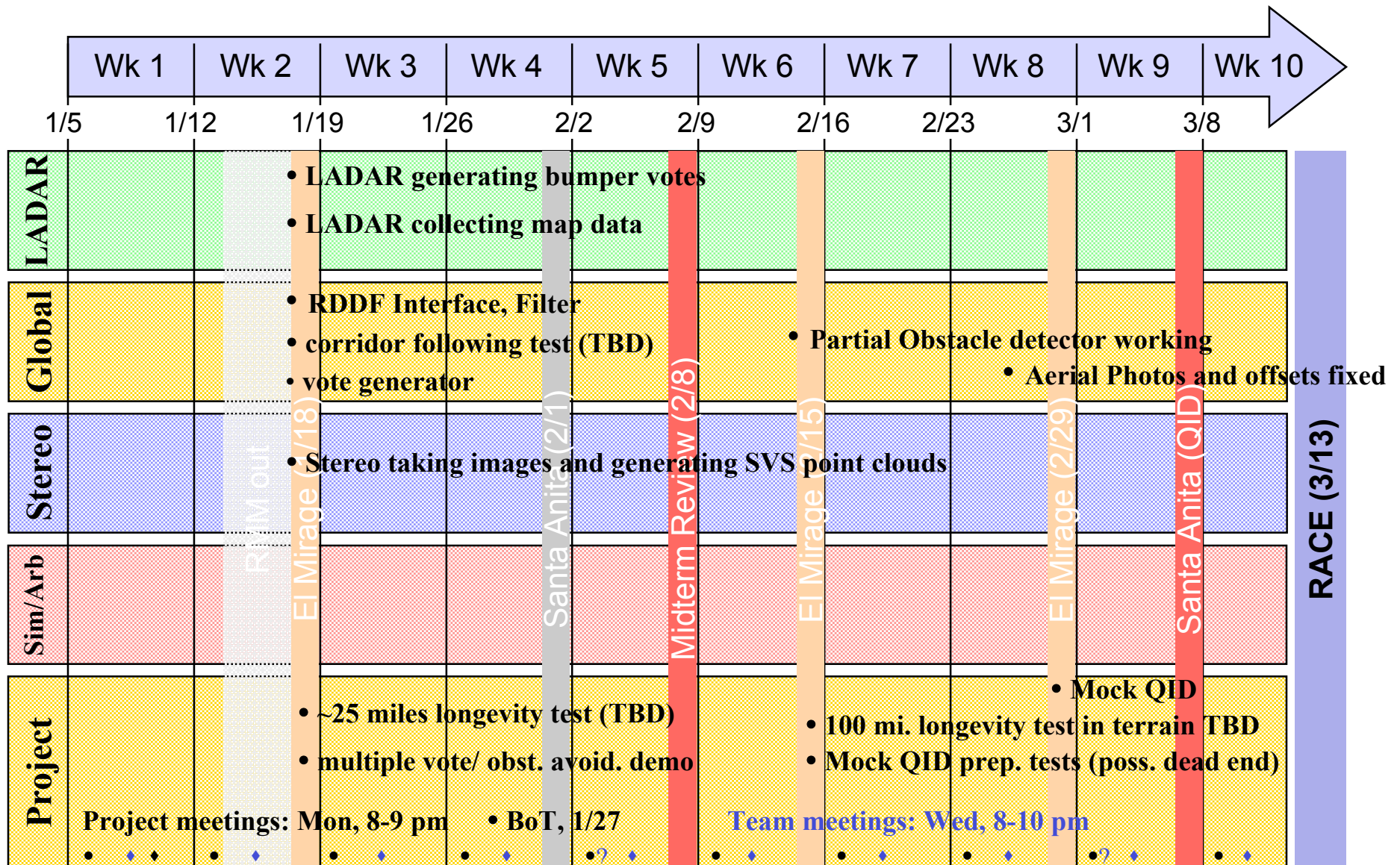
Working with your team, generate a list of 3-5 “lessons learned” from the field demonstration this past weekend (and the activities leading up to it). For each lesson, give the root cause of the issue or problem and identify a specific thing your team will change in your future work. For at least one of the lessons learned, identify something that you plan to do differently for the second planned field demo.

Issue or problem	Why?	Why?	Why?	Why?	Root problem/ issue	Fix
Members @home could not work	cameras and computer gone	needed for field test, no backups, no data	didn't take necessary pictures ahead of time	Poor planning	Poor planning and communication	(Possibly) checkout schedule, central shop operations
Could not communicate via vstate	had different receive keys, hard to keep track	also... proper cvs usage not kept (no make clean)	lack of communication of when to remake	lack of systematic means to incorp. changes	CVS connections not quick, and no clear make process	Laptop or palladium as gateway server; cvs -z
Did not finish planning team field tests	too much development in field	not enough finalized code before leaving Pas.	test plan too ambitious	not enough local testing of code	Detailed prerequisites not set and satisfied	Meet 6pm (subteams) Friday before test to satisfy prereqs. and <i>specific</i> test plan
Developed two braches of same code	two sets of functionality in same file	early convenience to copy code	poor planning of code structure		poor planning of code structure	Multiple make targets, documentation

# DGC 120 Planning team status chart



# Planning Team Timeline



## Bugzilla updates - Task list, Action items

### Top Five:

#### Stereovision subteam:

1. Calibration
2. Accurate range image from SVS
3. Transformation to UTM
4. Test sample images and calibration

#### Global:

1. Build Bugzilla tasks
2. Tweak wpfollow to slow on turns
3. Corridor following specification
4. Change to RDDF format
5. Static map plan

#### LADAR subteam:

1. Code structure
2. Reaction time test plan
3. Data collection utility
4. Bumper code

#### Planning subteam:

1. Generic map class interface
2. Arbiter balancing (with DFE)
3. Path evaluation
4. Simulator class