

# DGC 120 Planning team meeting - Week 7

## TA:

- Lars Cremeen (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)

Email all: [team-software @cds.caltech.edu](mailto:team-software@cds.caltech.edu)

## Global subteam:

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

## Planning systems subteam:

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

## Road following:

- **Jeremy Gillula** (jeremy @its)
- Christopher Rasmussen  
(cer@cis.udel.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

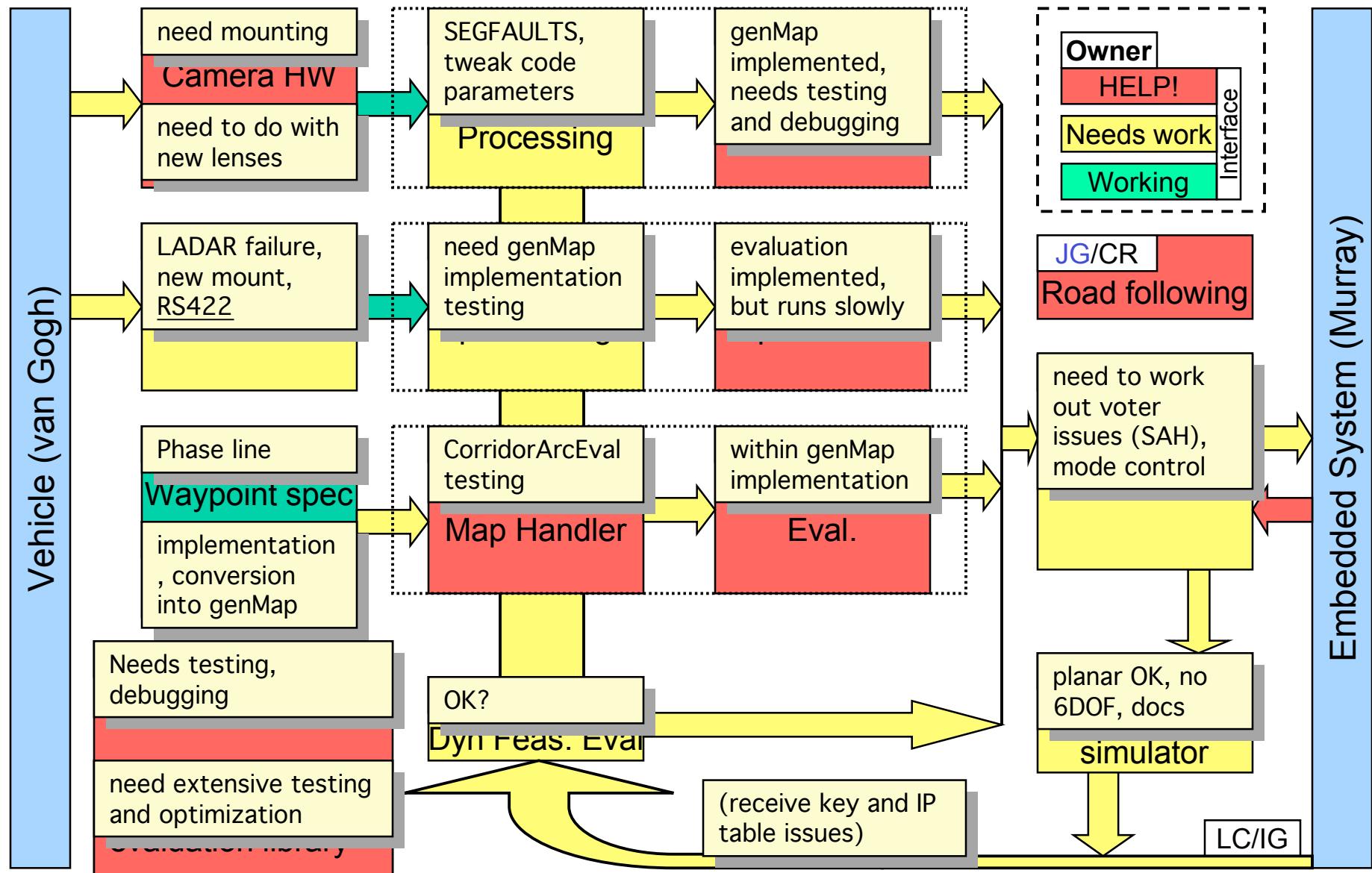
## Goals:

- ☒ Demonstrate genMap-based navigation in simulation
- ☒ Update status chart
- ☒ Review, update and prioritize task lists, focused on QID event
- ☒ Review and update team timeline

## Agenda:

- 8:15 Meeting goals, agenda (**assign note taker**)
- 8:20 Demonstration of genMap-based navigation (Planning systems subteam)
- 8:35 Status chart update (with comments)
- 8:50 Task list review, prioritizing, top fives
- 9:10 Timeline update
- 9:20 Adjourn

# DGC 120 Planning team status chart



# DGC 120 Planning Team Timeline

	Wk 1	Wk 2	Wk 3	Wk 4	Wk 5	Wk 6	Wk 7	Wk 8	Wk 9	Wk 10
	1/5	1/12	1/19	1/26	2/2	2/9	2/16	2/23	3/1	3/8
LADAR					<ul style="list-style-type: none"> <li>• LADAR generating bumper votes</li> <li>• LADAR collecting map data</li> <li>• LADAR genMap</li> </ul>		<ul style="list-style-type: none"> <li>• LADAR genMap voter</li> </ul>		<ul style="list-style-type: none"> <li>• LADAR obstacle avoidance</li> </ul>	
Global				<ul style="list-style-type: none"> <li>• RDDF Interface, Filter</li> <li>• vote generator</li> </ul>				<ul style="list-style-type: none"> <li>• GPS route following</li> <li>• corridor following test (TBD)</li> </ul>	<ul style="list-style-type: none"> <li>• Aerial Photos and offsets fixed</li> </ul>	
Stereo			R/Mout (1/18)		<ul style="list-style-type: none"> <li>• Stereo taking images and generating SVS point clouds</li> <li>• Stereo genMap</li> </ul>	Mittee Review (2/8)		<ul style="list-style-type: none"> <li>• SV obstacle avoidance</li> </ul>	Santa Anna (QID) (2/29)	RACE (3/13)
Sim/Arb			El Mirage		<ul style="list-style-type: none"> <li>• tested arc evaluation</li> <li>• frame transform</li> </ul>	El Mirage (2/15)			Santa Anna (QID)	
Project				<ul style="list-style-type: none"> <li>• multiple vote/ obst. avoid. demo</li> </ul>	<ul style="list-style-type: none"> <li>• ~25 miles longevity test (TBD)</li> <li>• Mock QID</li> <li>• 100 mi. longevity test in terrain TBD</li> <li>• Mock QID prep. tests (poss. dead end)</li> </ul>		<ul style="list-style-type: none"> <li>• BoT, 1/27</li> </ul>	<ul style="list-style-type: none"> <li>• Team meetings: Wed, 8-10 pm</li> </ul>		
	<ul style="list-style-type: none"> <li>• Project meetings: Mon, 8-9 pm</li> <li>• • • •</li> </ul>	<ul style="list-style-type: none"> <li>• • •</li> </ul>		<ul style="list-style-type: none"> <li>• •</li> </ul>	<ul style="list-style-type: none"> <li>• ? •</li> </ul>		<ul style="list-style-type: none"> <li>• •</li> </ul>	<ul style="list-style-type: none"> <li>• ? •</li> </ul>	<ul style="list-style-type: none"> <li>• ? •</li> </ul>	

# Bugzilla updates - Task list, Action items

## Top Five:

### Stereovision subteam:

1. StereoPlanner
2. genMap testing
3. New cameras integration

### Global:

1. Static map implementation and integration
2. Static map generation
3. GlobalMapHandler

### LADAR subteam:

1. LADAR driver, reset mechanism
2. genMap testing

### Planning subteam:

1. genMap optimization
2. Path evaluation (esp. testing)