

SOLAR CAR CONFERENCE

FEBRUARY 3-5, 2017

OVERLAND PARK, KS

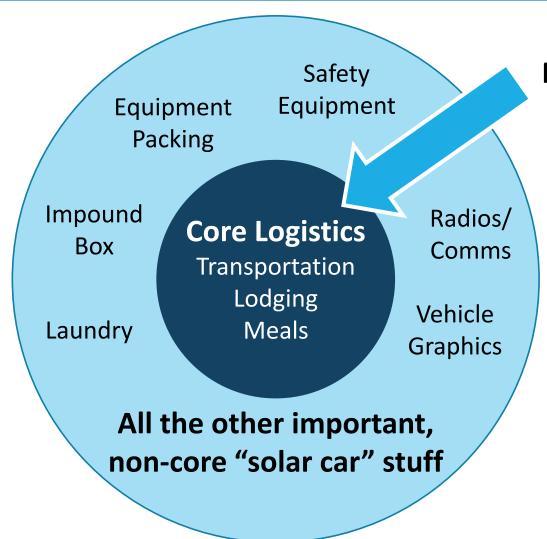


RAYCE LOGISTICS

GAIL LUECK FEB 4, 2017



THE LOGISTICS SCOPE



Major Parameters:

- Event Duration
- Headcount

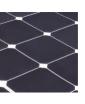


EVENT DURATION

16 days + travel time

Activity	Days
Travel Home to Scrutineering	1+
On-site Registration/Scrutineering	4
Formula Sun Grand Prix	3
"Rest Day" (travel to start line, display, team meeting, prep)	1
American Solar Challenge	8
Travel Finish Line to Home	1+

Keep the same crew the whole time (or swap at the Rest Day)? Any extra plans before/after the event?



HEADCOUNT

How many people do you need to bring?

How many people would you like to bring?

How many do you have room for (seats in vehicles)?







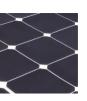




people
(+ Observer)



people



UNDERSTAND YOUR BUDGET

There is value and cost involved with every decision!

Look at your:

- Daily cost
- Per person cost

Finding a way to save just

\$5/person/day

can yield

\$1800 in savings!

(Assumes: 20 person team, 18 days on the road)





GROUP ACTIVITY

Share and discuss one of the following as a group:

- What has worked well?
- What is a key lesson learned?
- What question/concern keeps you up at night?

Prepare a 3-minute recap of the best ideas to share with the room.

Group Assignments:

- Group 1: Transportation
- Group 2: Lodging
- Group 3: Meals



TRANSPORTATION GROUP



TRANSPORTATION

Vehicles

- Lead
- Chase
- Truck & trailer
- Others (scout, weather van, RV, etc)

Fuel

- Determine an average fuel price
- Home to Track to Start Line
- Start to Finish Line
- Finish Line to Home
- Misc (add at least 10-20%)

Misc

- Insurance coverage
- Flights for those coming later/leaving early
- Overseas travel

Planning Tips

- Vans or large SUVs are recommended for lead and chase to hold people and gear
- If you own your own vehicles, budget for any needed maintenance and oil changes
- See if you can get sponsorship/ borrow vehicles (university, local dealership, etc)
- Most vehicle rentals to people under age 25 incur additional fees; ask before you sign
- If you are thinking about using one-way rentals, ask about one-way rental fees
- Determine credit card or other means for paying for fuel on the road (and method for keeping track of receipts)



LODGING GROUP



Hotel

- Expected # of nights
- # of people and # per room
- Cost per night per room

Campground

- Expected # of nights
- Cost per night per person or per site
- Extra charges for extra vehicles

Alumni, family, friends

- Free!
- University Alumni Office may have contacts to help arrange options

Large Parking Lot

- Free!
- Ask first to make sure it is ok

Planning Tips

- Make arrangements in advance for the track and stage points (you know where they are and when you will be there)
- Determine your game plan for nights you are in between stage points
- See if alumni, family, or friends want to house the team for a night
- Try to use the same hotel chain and take advantage of reward programs
- Look for hotels that offer other items you are needing
 - Free breakfast
 - Internet
 - Laundry facilities
- Don't forget about your Observer!





Food Bill

Headcount x days x estimated cost

Breakfast

- Free, if included with hotel
- Eat during morning charge time

Lunch

- Eat on the go (in the vehicle)
- Sandwiches, fruit, chips work well

Dinner

- Eat during evening charge time
- Cook a meal
- Eat at restaurant, if available

Drinks and Snacks

- Plenty of water, Gatorade, juice
- Pretzels, chips, cookies to munch on

Planning Tips

- Individual sized servings are easier to distribute, but cost more
- Look for sponsorship/donations
- Consider food-related items
 - Coolers (1 per vehicle)
 - Ziploc bags (great for sandwiches)
 - Sharpie marker (label bags & bottles)
 - Cooking equipment (portable stove, utensils, etc)
 - Napkins, paper towels
 - Dishwashing soap, wash cloth, towel
- Have a menu that includes items other than peanut butter and jelly
- Minimize caffeine to prevent dehydration
- Be careful of items that may spoil in the heat
- Don't forget to feed your Observer!



SUPPORT INSPECTION

Support Vehicle Graphics & Signage

Radio Communications

Safety Equipment

Road Side Safety Demonstration





OTHER LOGISTICAL TASKS

Packing/Organizing Vehicles

- Equipment
- People
- Observer (and their luggage)

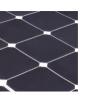
Taking Care of Your Observer

Doing Laundry

Building the Battery Impound Box

Recycling, Carbon Offsetting, etc

Etc...



PLAN A MOCK DRIVE

Goals

- Simulate a real event to workout issues
- Get people comfortable with their roles and used to traveling together

What to include

- Full race crew
- Simulated conditions (set hours, checkpoints, driver changes, flat tires, etc)
- At least one overnight (test out any camping gear)
- Use part of the actual event route (if possible)

Don't forget to include the mock drive (and other practice) in your budget!

15

INNOVATORS EDUCATIONAL FOUNDATION SOLAR CAR CONFERENCE RAYCE LOGISTICS