

# Purdue part of the vessel / mirror prototype budget

as presented by Andy on 07/19/2023

## Budget components @Purdue

- Simulations needed anyways to determine manufacturing design and maintain tolerances
  - Part of labor budget
- ¼ structure prototype: ~55k\$
  - 30k\$ labor & 25k\$ M&S
  - Engineering mostly and might not be able to figure it all out

### Line items currently at Purdue:

1. a 60 degree outer mirror sector (suffices for a test)
  1. 1/4 of the inner mirror
2. 1/4 of the rear sensor mounting plate with 17 square openings
3. 1/4 of the front plate with a bunch of aerogel pockets
4. the end-ring structures / beams

Now that the outer shell is built  
in a “mandrel approach”

Budget estimate as of 09/20/2023

Labor	~\$25k
M&S	~\$20k
Substrate polishing exercise	<\$10k

There are no “roof” mirrors included