



# MSL Cost Overrun Status and Plans

Presentation at the  
Planetary Science Subcommittee

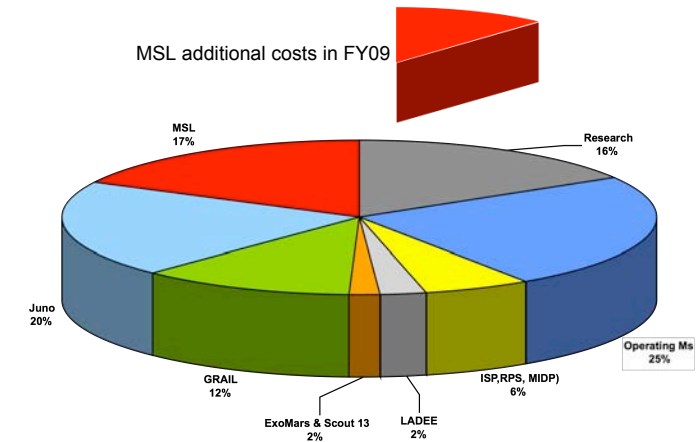
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1



# MSL Overrun Impact on Planetary FY 2009 Budget



Where do we find the money to cover MSL cost growth?

2



# MSL Overrun Trade Space (1)



- Meeting with the Administrator on October 10th to decide if MSL will go in 2009 or not
  - Will weigh technical, schedule, and cost challenges
  - SMD is developing a “solution space” to cover the costs
- Solution space - covering pending overrun in FY09
  - Approximately \$70M from:
    - PSD rephasing LV, reduce carryover, & efficiencies
    - SMD reduce carryover (to be paid back later)
  - Delay and/or cancel developing missions:
    - Juno (\$160M) delay or cancel - will effect release of NF AO
    - GRAIL (\$45M) delay or cancel - will effect next Disco AO
    - LADEE (\$21M) delay or cancel
    - NASA instruments on ExoMars (\$5M)
    - MAVEN (\$2M)
  - Replan budget to accommodate delays may lead to a cancellation (ie: cancel LADEE and delay ILN?)

3



# MSL Overrun Trade Space (1)



- Costs due to moving MSL launch date:
  - 2010 - park in solar orbit (1AU) Earth swing-by in 2011
    - New technical issues include: Antenna design changes, NEPA for fly-by, etc.
    - Cost increases expected ~\$300M
  - 2011- Direct launch to entry trajectory
    - A few ~\$10sM above 2010 estimate
  - Next step:
    - Replan technical, budget, schedule & cost
- Additional solution space in FY10 & FY11:
  - MSR technology development ~\$50M
  - Mars16
  - Drop one instrument on ExoMars
- Cancellation due to Congressional action/limits

4