



2019/2020 Planetary Mission Senior Review



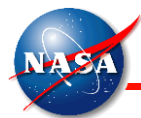
NASA HQ Planetary Science Division
Planetary Mission Senior Review (PMSR)

Update to PAC on 2019/2020 PMSRs

December 6, 2019

William Knopf

Lead Program Executive for Mission Operations



Agenda



- PSD Direction to Extended Missions evaluated in 2019 PMSR
- 2020 PMSR Status Update
- 2019 → 2020 PMSR – Addressing Lessons Learned
- 2020 PMSR Notional Schedule



2019 PMSR – PSD Direction to Extended Missions



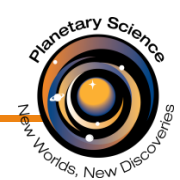
- PSD is still in the process of writing direction letters for the six missions reviewed in 2019
 - So far, LRO has been informed
 - Awaiting decisions on Mars missions



- Missions included in 2020 PMSR
 - InSight
 - Juno
- Missions excluded from 2020 PMSR
 - Kuiper Belt Extended Mission (New Horizons) is extended to 2021; target flyby (MU69/Arrokoth) occurred in January 2019
 - *Will NOT be subject to special out-of-cycle 2020 PMSR*
 - OSIRIS-REx still in prime mission
- Final decisions by PSD DD are subject to the availability of appropriated funds and the outcome of the annual budget process.



- ***Many*** issues identified with this FACA-based review
 - Plan to follow **recently**-approved Heliophysics approach for the 2020 PMSR
 - PSD will present **our PMSR plan** to SMD Management **in** December for approval
- NRESS staff did an excellent job
 - Held true again for this PMSR
- Technical/engineering expertise not uniform on panel
 - Additional panelists will be added with engineering/operations expertise
- Projects “largely” ignored questions sent by panelists prior to the F2F presentation
 - Panel will ask questions in real-time at F2F presentation; questions must be addressed before conclusion of F2F meeting to the panel’s satisfaction



2019 → 2020 PMSR – Addressing Lessons Learned (continued)

- An improved template in NSPIRES should help to simplify the review process for the panelists
- The “unlimited” appendix page count will be replaced with a maximum page count
 - Proposers tend to put critical content in the appendix, so reviewers are forced to read everything (unreasonable request)



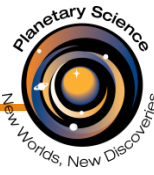
2020 PMSR – Notional Schedule



- Nov 2019: PSD DD approves ToR for SME Panel
- Dec 2019: Plan presented to SMD Management for approval
- Early Jan 2020: Draft call for proposals issued
- Mid Jan 2020: Comments from flight projects due
- Late Jan 2020: Final call for proposals issued
- Late Mar 2020: Senior Review proposals due/submitted to NSPIRES
- Mid Apr 2020: SME Panel meets
- Early May 2020: Reports from SME panel due to PSD DD
- June 2020: PSD DD informs PAC of extended mission decisions



Update to PAC on 2019/2020 PMSRs



Questions?