



Resource Analysis Office (RAO) OVERVIEW

for the Code 300 SMA Overview

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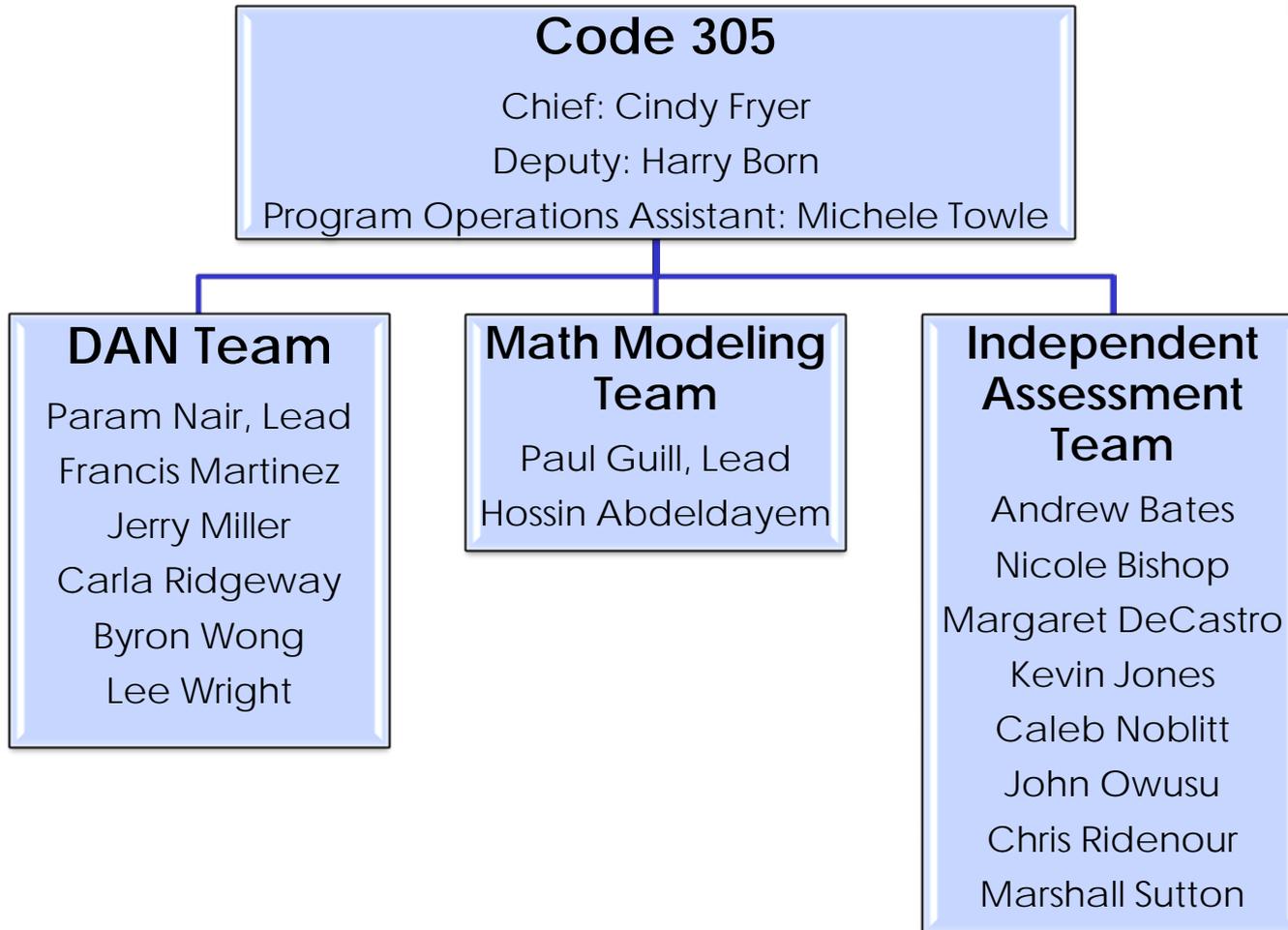
Organization Charter



RAO serves as a resource to Center Management for independent assessments of cost and schedule risk, so informed decisions can be made to promote mission success, thereby enhancing the Center's ability to deliver on its commitments.



Resource Analysis Office Organization Chart

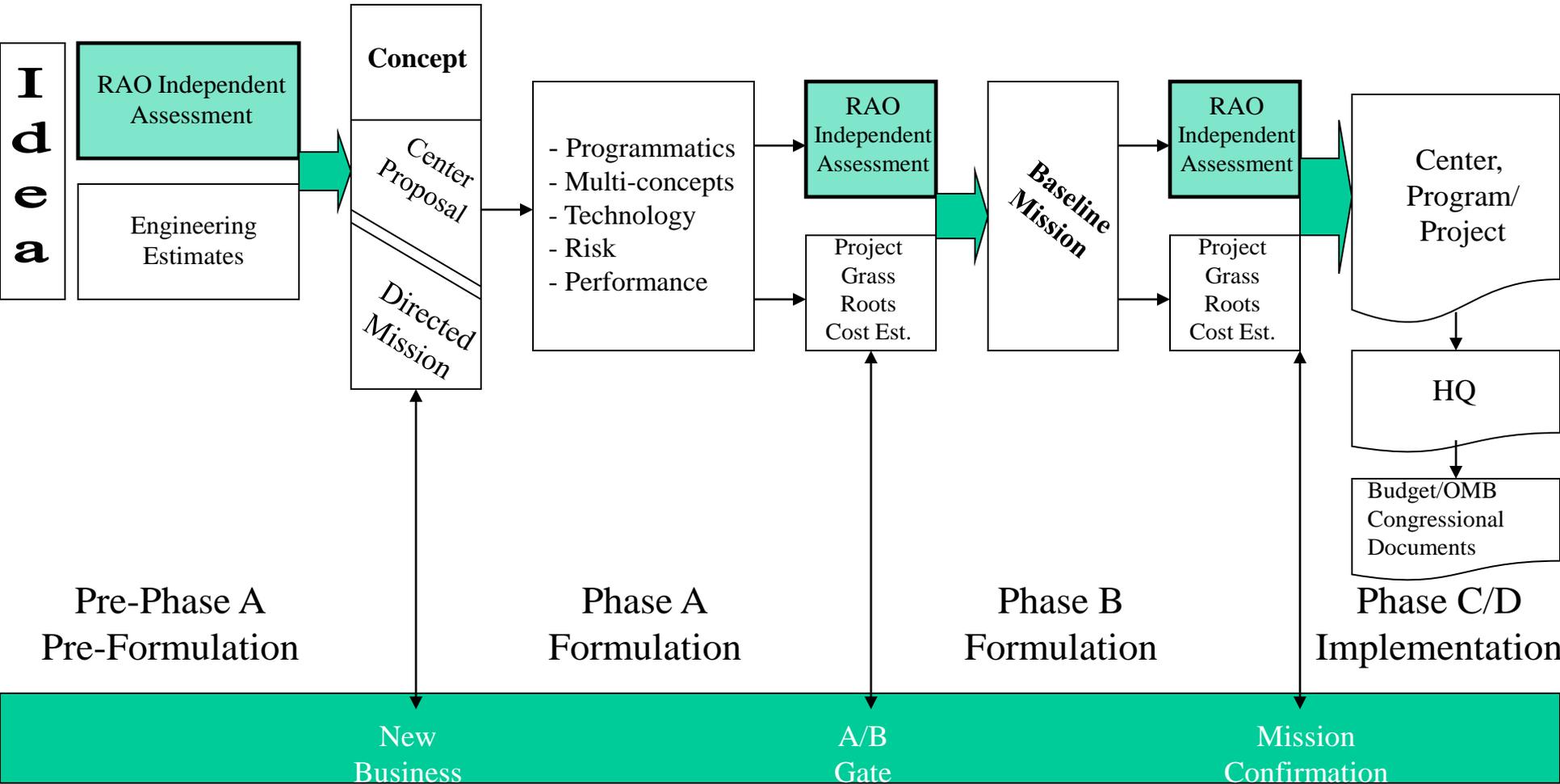


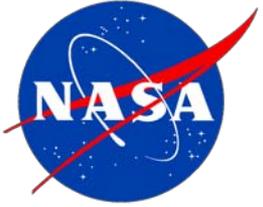


Impact on Mission Success



RAO Timeline





RAO Model Parameters



INSTRUMENT

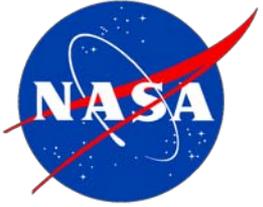
Instrument Mass
Mission Class (Reliability)
Instrument Schedule
Instrument Family (Complexity)
Instrument MRV (Risk Adjusted TRL)
Peak Power
Peak Data Rate
Type of Science
Type of Development
Year of Technology

S/C BUS & MSI&T

Spacecraft Bus Mass
Spacecraft MRV (Risk Adjusted TRL)
Spacecraft Schedule
Number of Instruments
Max. Satellite Power
Satellite Mass
Spacecraft Reliability
Spacecraft Stabilization
Solar Array Area

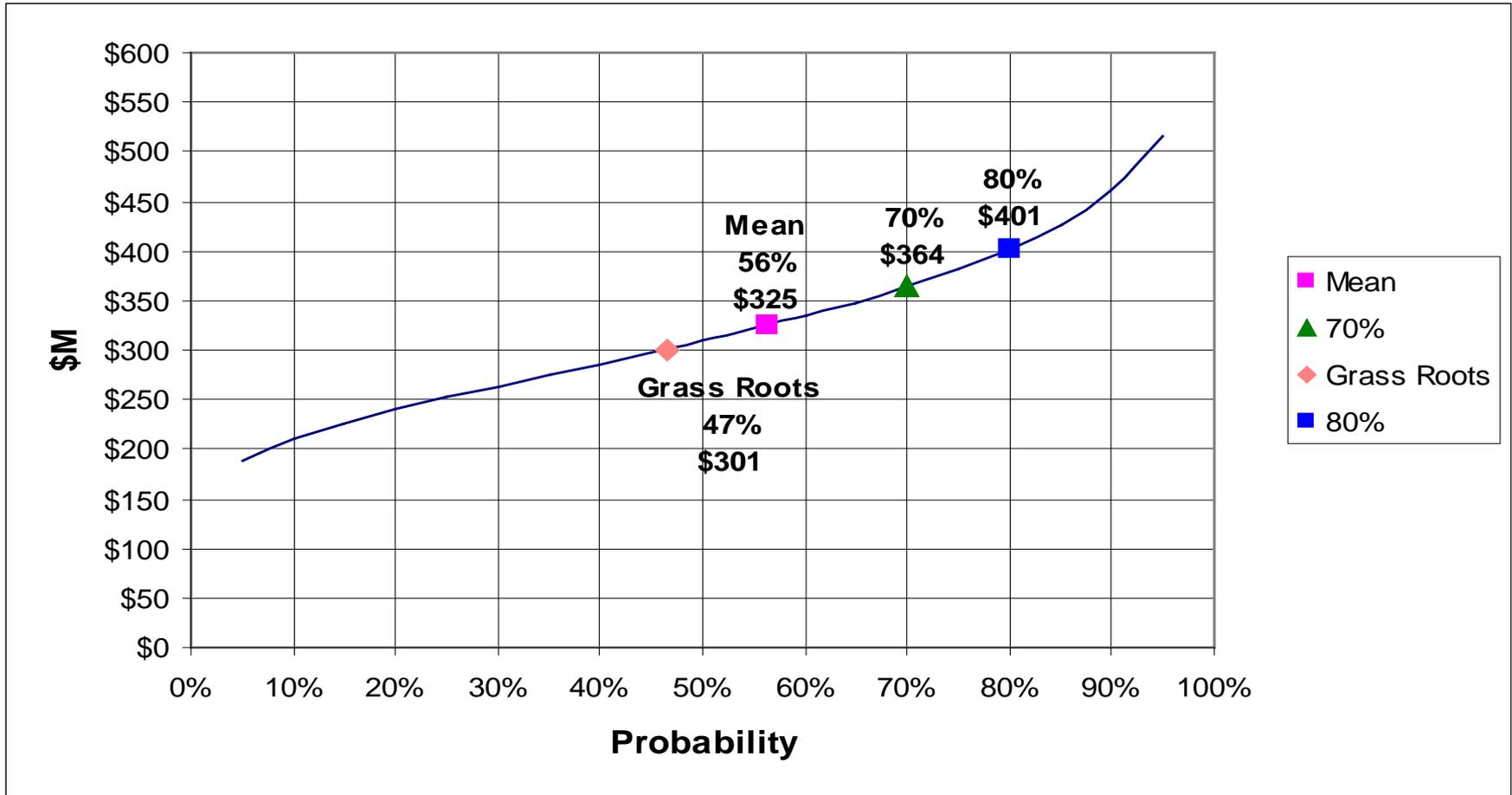
GROUND SYS. & OPS.

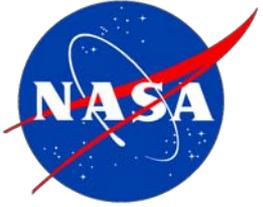
Project Schedule
Spacecraft Reliability
Percent of New Ground Development Functions
Science Team Involvement
Existence of Imaging Instrument
Satellite Mass
Mission Class (Reliability)
Mission Operations Center Approach



Work Product

Historical Cost/Risk Distribution





RAO Products



- RAO Products
 - Independent Assessments
 - Data
 - Mathematical Models
 - Trade Studies