

From concept to flight and beyond, NASA Langley's Flight Project's Directorate is blazing trails to new heights and overcoming challenges to create success. Pictured above is a small sampling of images from the many Earth science, human exploration, and space technology projects to which FPD has contributed. From the top and left to right: Orion EFT-1, CLARREO Pathfinder on ISS, CERES FM6, QUESST, RBI on JPSS-2, RaD-X, SAGE III/ISS, TEMPO, ARRM CapM-CRS, ALHAT on Morpheus, MEDLI on MSL, Orion PA-1, AA-2, Ares I-X, IRVE-3, STORM on STS-134.

Flight Projects Directorate

Who Makes Up FPD?

People dedicated to executing flight missions that discover and understand Earth and Space.

What Does FPD Do?

- Drive new business opportunities to credible, winnable, and executable solutions.
- Earn credibility and trust with stakeholders
- Lead successful flight projects
- Develop strong teams through effective partnerships
- Expand Project Planning and Control processes and procedures
- Grow flight Project Manager and PP&C expertise

Current FPD Missions

Human Exploration and Operations Missions:

- Orion Launch Abort System (LAS)
- Orion Ascent Abort-2 (AA-2)
- Asteroid Redirect Robotic Mission (ARRM)

Space Technology Missions:

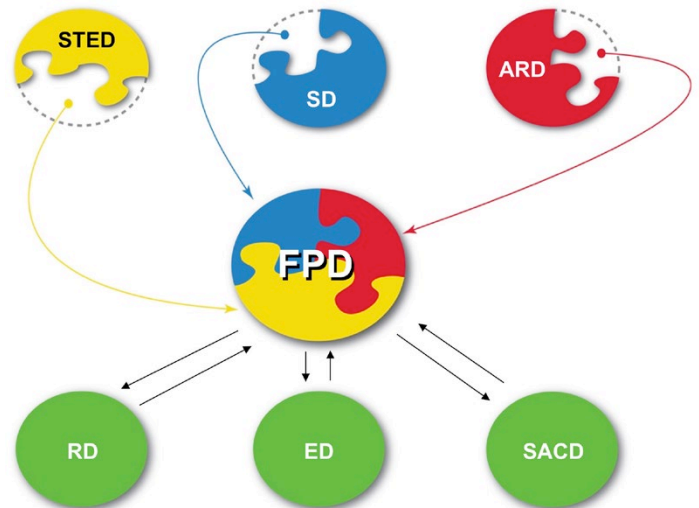
- Mars Entry, Descent and Landing Instrumentation 2 (MEDLI2)

Science Missions:

- Stratospheric Aerosol and Gas Experiment III on the International Space Station (SAGE III/ISS)
- Clouds and Earth's Radiant Energy System FM6 (CERES)
- Tropospheric Emissions: Monitoring of Pollution – Instrument (TEMPO-I)
- Tropospheric Emissions: Monitoring of Pollution – Mission (TEMPO-M)
- Climate Absolute Radiance and Refractivity Observatory (CLARREO) Pathfinder on the ISS
- Radiation Budget Instrument (RBI)

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NASA Langley's Flight Project Directorate is involved in projects from three of the four NASA mission directorates, Space Technology, Science, and Human Exploration and Operations. Projects are led by FPD and comprised of skilled team members from the Engineering, Research, and Systems Analysis & Concepts directorates.

Recent Successes:

- Radiation Dosimetry Experiment (RaD-X)
- Autonomous Landing and Hazard Avoidance Technology (ALHAT)
- Inflatable Reentry Vehicle Experiment (IRVE-3)
- MSL Entry, Descent and Landing Instrumentation (MEDLI)
- Clouds and Earth's Radiant Energy System FM5 (CERES)
- Sensor Test for Orion Relative-Navigation Risk Mitigation (STORRM)
- Orion Pad Abort 1 (PA-1)
- Ares I-X
- Cloud-Aerosol Lidar and Infrared Pathfinder Satellite Observation (CALIPSO)

Through FPD, NASA Langley Research Center is engaged from concept definition to successful completion of flight projects for Aeronautics Research, Space Technology, Science, Space Operations, and Exploration. FPD project professionals are sought after and project processes are adopted by others.

FPD Purpose:

- Lead the execution of assigned flight projects, to support customers at Langley, at other Centers and external to NASA.
- Develop and maintain project management practices in alignment with NASA standards and requirements.
- Maintain and grow expertise in project leadership, project planning and control, and other project management skills