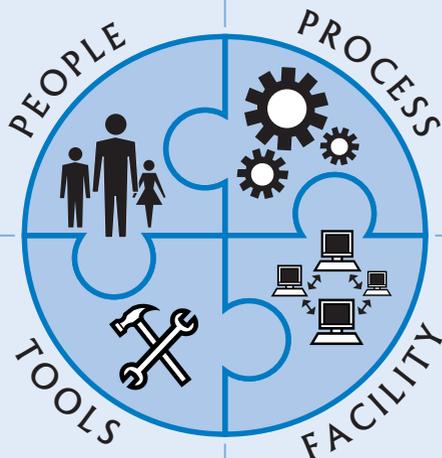




*Working together to bring
advanced concepts to reality ...
in an environment of
integrity, respect,
and excellence.*

*Resident engineering
team working closely
with the Customer
Team*

*Concurrent
engineering in a
collaborative rapid
design environment*



*Integrated
information system
and web-based tools
link discipline
expertise*

*A continually
evolving and
distributed
engineering design
environment*

***Instrument Synthesis & Analysis
Laboratory (ISAL)***

- *Engineers space flight instrument concepts*
<http://isal.nasa.gov>

Integrated Design Capability (IDC)

- *Manages the operations and growth of the IMDC and ISAL.*
<http://idc.nasa.gov>

***Applied Engineering and Technology
Directorate (AETD)***

- *Provides engineering and analytical experts in space flight and ground systems.*
<http://aetd.gsfc.nasa.gov>

Rapid Spacecraft Development Office (RSDO)

- *Facilitates quick access to previously developed spacecraft buses.*
<http://rsdo.gsfc.nasa.gov>

Access To Space (ATS)

- *Provides on-line access to mission planning data and tools.*
<http://ats.nasa.gov>

CONTACTING THE IMDC

The Internet

<http://imdc.nasa.gov>

E-Mail

imdc@nasa.gov

Telephone

301-286-2184

Address

*Integrated Mission Design Center
NASA GSFC – Code 500
Greenbelt, MD 20771-0001*

IMDC
ADVANCING CONCEPTS TO REALITY

WHAT IS THE IMDC?

The IMDC, an integral component of NASA Goddard's Integrated Design Capability (IDC), is a human and technology resource dedicated to innovation in the development of advanced space mission design concepts and to increasing scientific value for NASA and its customers.

IMDC OBJECTIVES

- *Transform the mission design process, dramatically improving quality and productivity with...*
 - ...advanced concepts within a rapid design environment*
 - ...end-to-end mission life-cycle products with customer focus and real-time interaction*
- *Serve a diverse group of customers and customer needs such as...*
 - ...NASA, DoD, other Federal agencies, industry and academia*
 - ...Earth Science, Space Science, space exploration, technology, human flight*
- *Create a holistic engineering system...*
 - ...collaborative, concurrent engineering environment*
 - ...real-time analytical assessments*
 - ...distributed architecture and information*

IMDC PRODUCTS AND SERVICES

The IMDC provides mission engineering analyses & services resulting in the delivery of integrated mission design products. Capabilities include:

- *Mission Studies, including System/ Subsystem Concepts, Requirements and Trades*
- *Focused Studies & Technical Reviews*
- *New Technologies & Risk Assessments*

WHAT TO EXPECT

A Concentrated Focus

- *Design sessions typically last one week*
- *Sessions tailored to fit specific mission requirements*
- *Support may range from one-day brainstorming to extended design sessions*

A Customer-Driven Process

- *The customer defines the mission study objectives*
- *The customer is a key member of the IMDC design process*
- *The customer is an integral decision-making member of the IMDC team*

Benefits From Innovation

- *Ability of the customer to lead & drive the process*
- *A flexible design environment*
- *Integrated tools to enable early system trades*
- *Rapid, low-cost life-cycle studies*
- *Use of the latest technologies and methods*

IMDC EXPERTISE

IMDC mission systems expertise spans a very broad spectrum of activities, including:

