



Office of the Chief Information Officer

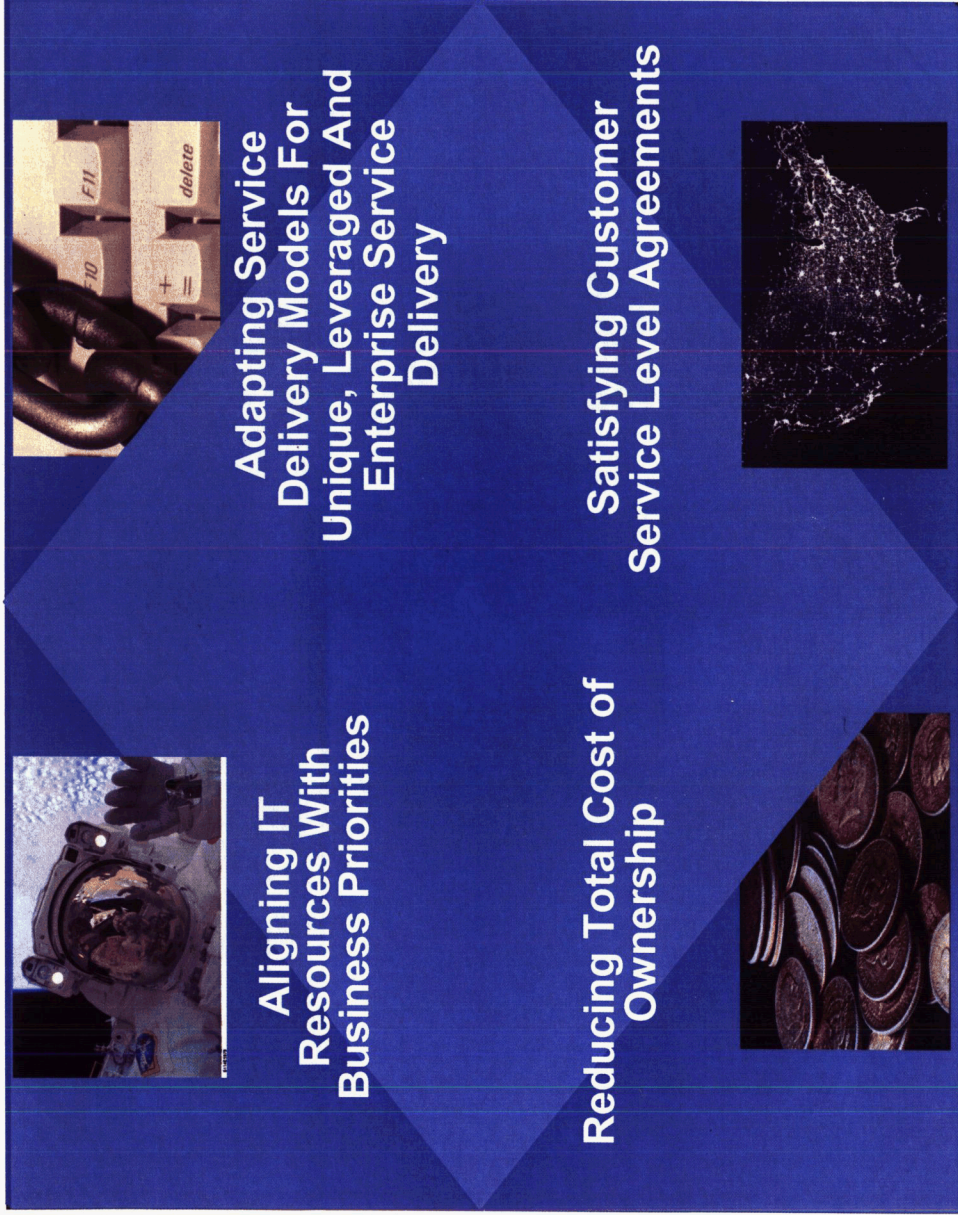


# Core IT Services

The NASA Data Center (NDC) and the   
NASA Shared Services Center (NSSC)



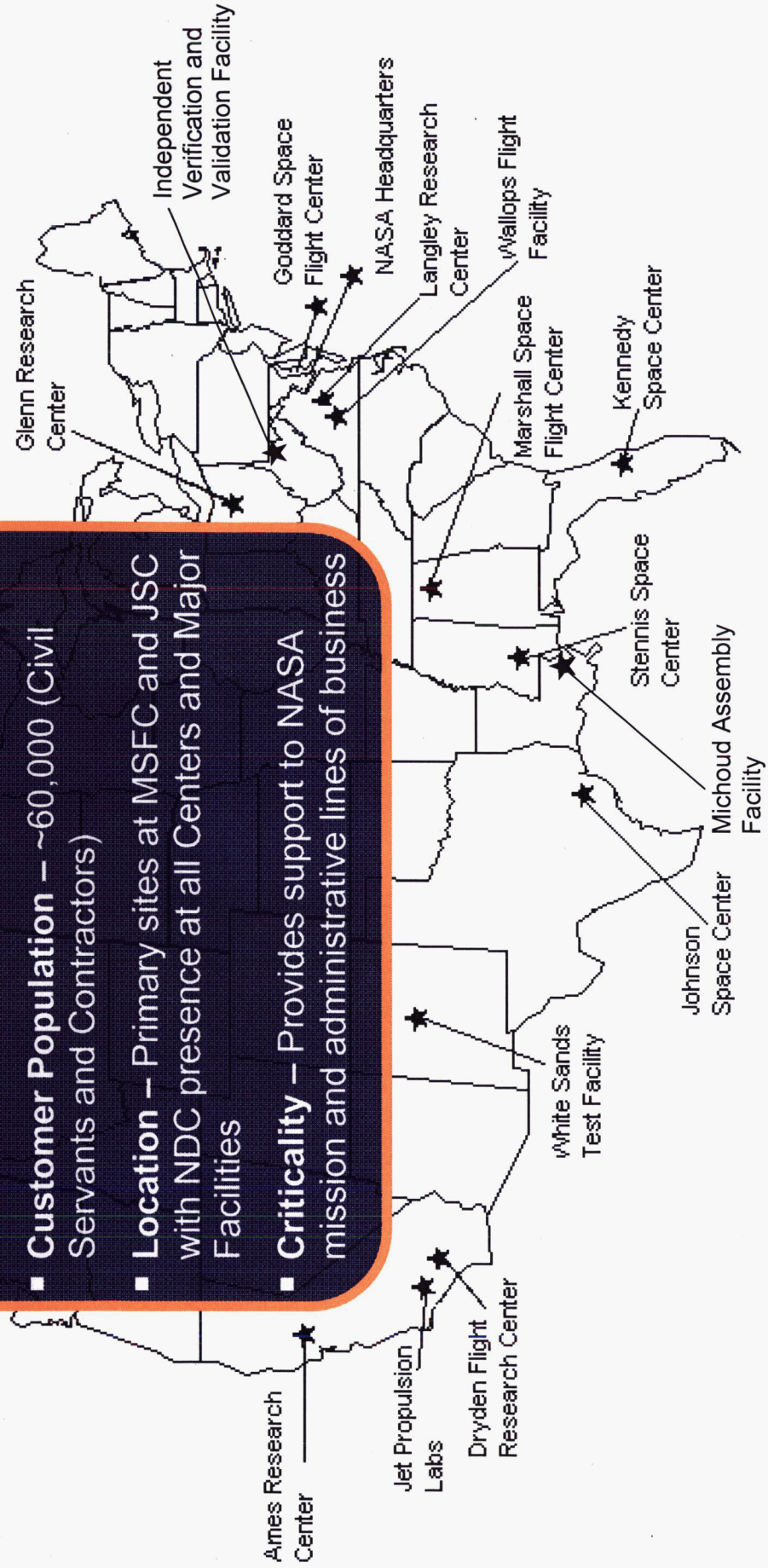
## NDC Challenges





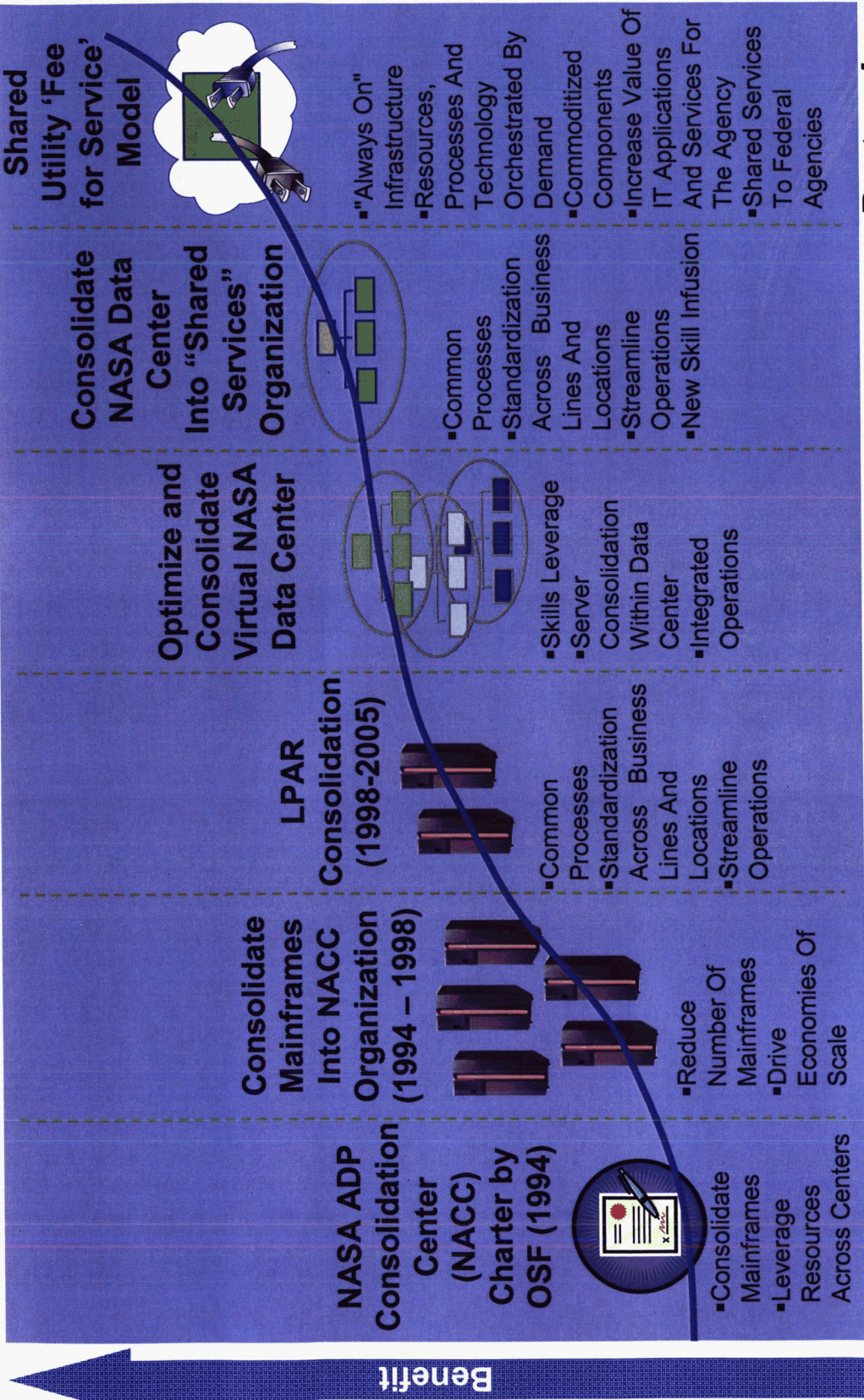
## Virtual NDC Overview

- **Customer Demand** – 17 Services
- **Customer Population** – ~60,000 (Civil Servants and Contractors)
- **Location** – Primary sites at MSFC and JSC with NDC presence at all Centers and Major Facilities
- **Criticality** – Provides support to NASA mission and administrative lines of business





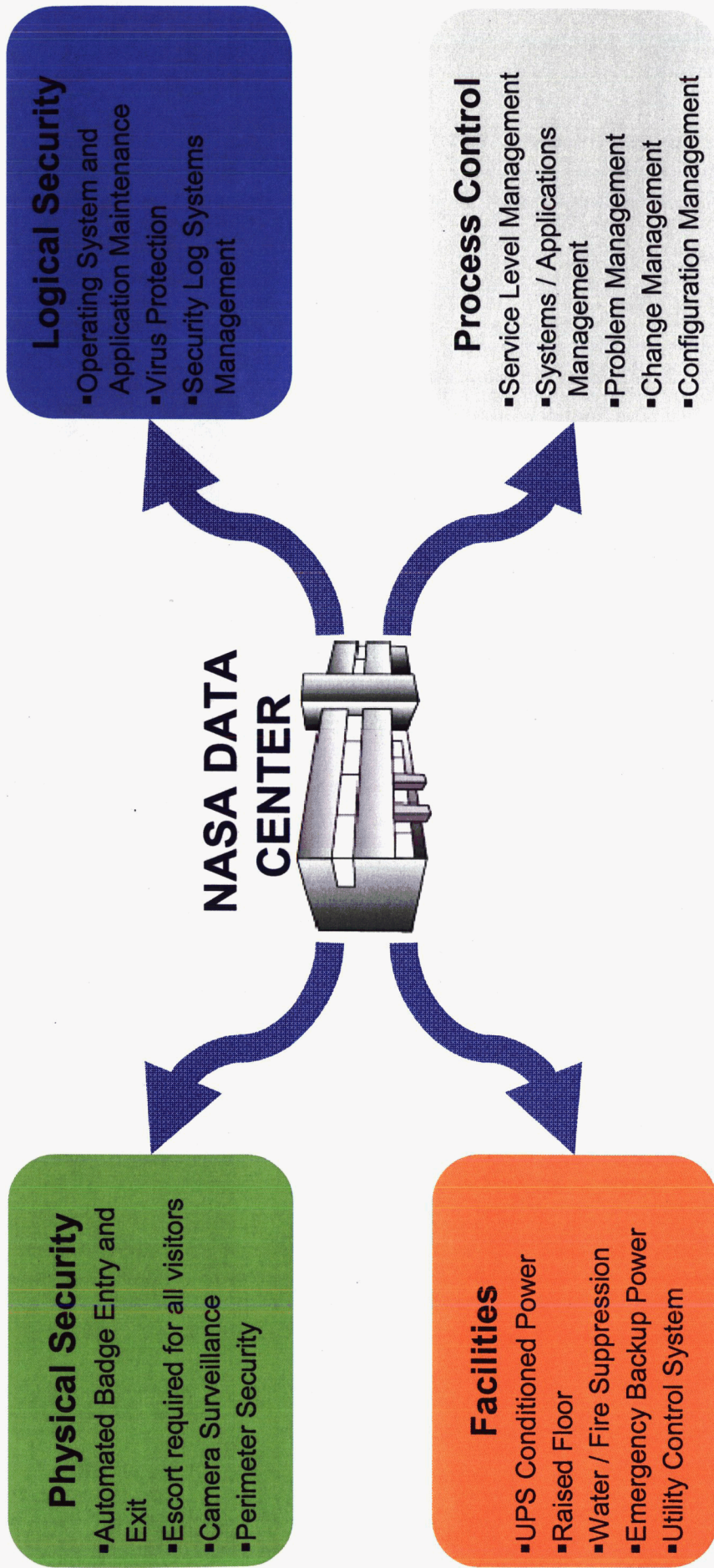
# NDC Present and Future



**Reduce - Consolidate - Scale - Partner!**



## NDC Environment





# NDC Decomposition

## Work Breakdown

- Systems Event Monitoring and Management
  - Continuity of Operations
  - Financial Management – Fee for Service Rate Structure, License Management
  - Computer Systems & Operations
  - Customer Satisfaction
- 
- Leveraged Agencywide Applications
  - Data Lifecycle Management
  - Web / Portal Applications
  - Commoditized / Reusable Applications
  - Database Management
- 
- Hardware – Processors, Disks/SAN, Tape Management
  - System Software – Operating System, Backup, Security
  - Networks – Firewalls, Switch Infrastructure, Data Network, Fail-over / Redundancy
  - Integration – Peripheral sharing, Data sharing, Application sharing
  - New Technology

## Operations

## Application Development

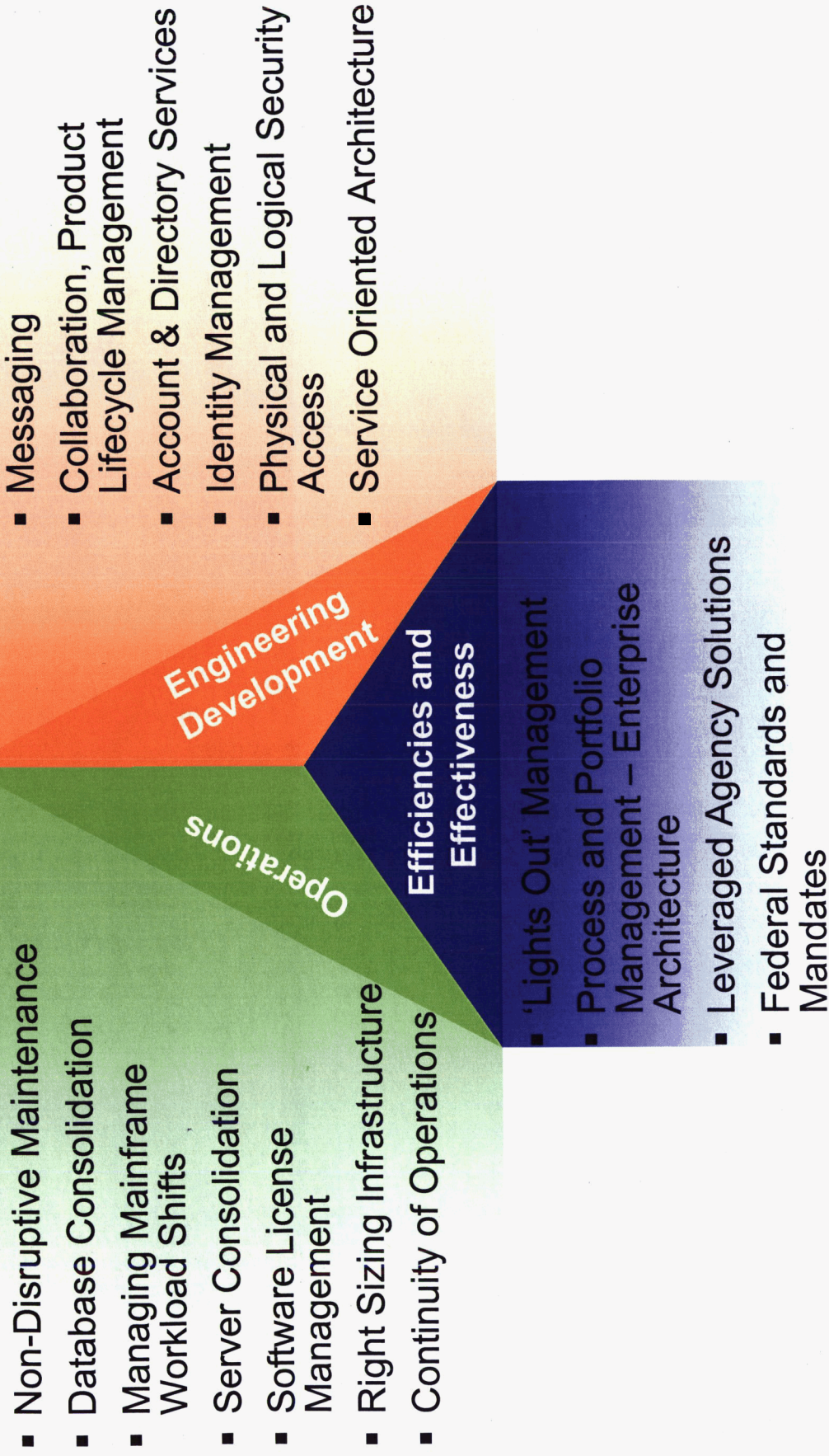
## Engineering

## Service Breakdown

- Hosting Mainframe
- Hosting Midrange
- Web Hosting
- Archival
- Business Intelligence
- Infrastructure Access
- Application Hosting
- Collaboration
- Housing
- Application Development & Sustaining Engineering
- Custom Course Development
- Print
- Scheduling
- Disaster Recovery
- Database Management and Administration
- Security
- Systems Administration
- Engineering

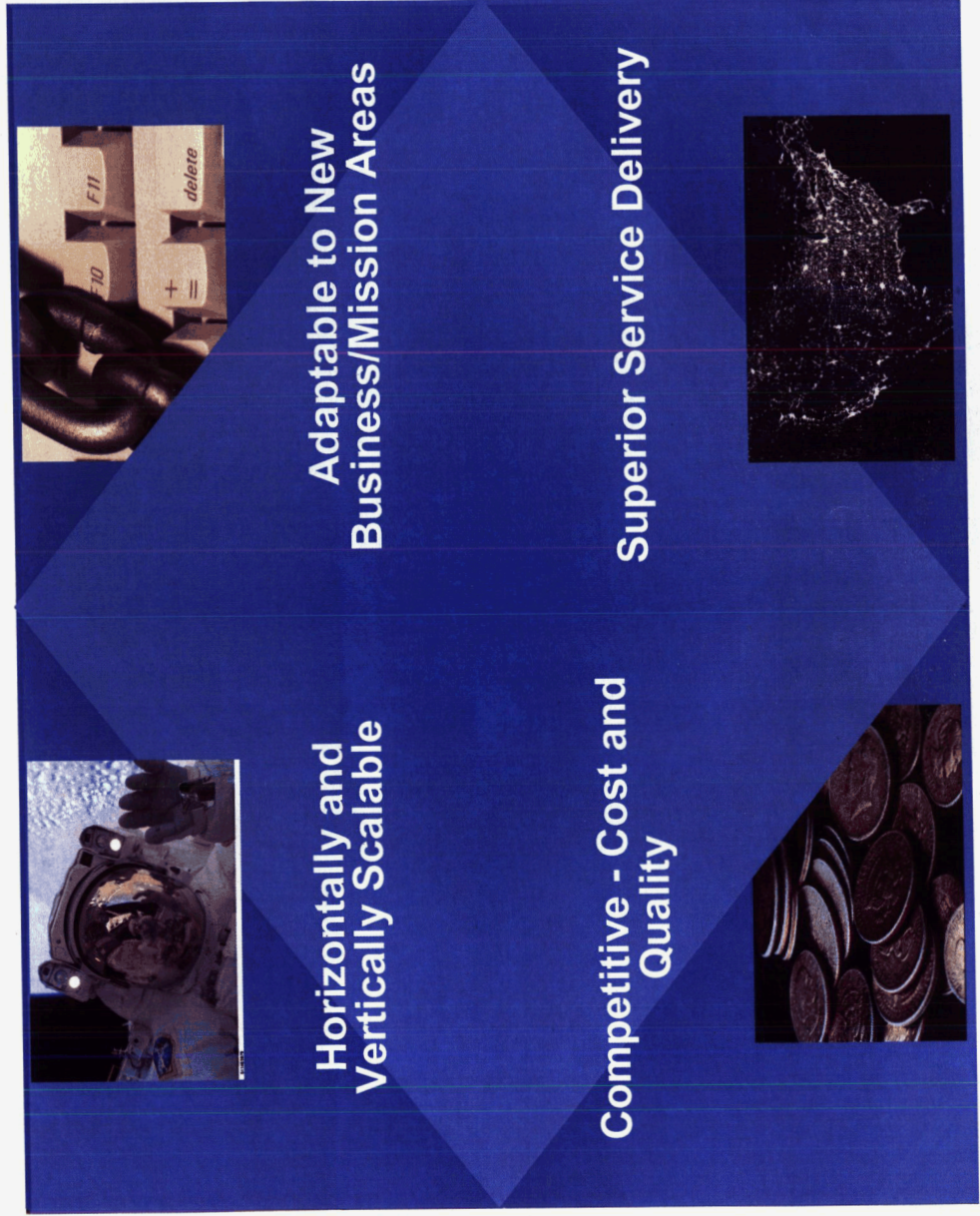


## NDC Opportunities


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- Non-Disruptive Maintenance
  - Database Consolidation
  - Managing Mainframe Workload Shifts
  - Server Consolidation
  - Software License Management
  - Right Sizing Infrastructure
  - Continuity of Operations
- Operations**
- Messaging
  - Collaboration, Product Lifecycle Management
  - Account & Directory Services
  - Identity Management
  - Physical and Logical Security Access
  - Service Oriented Architecture
- Engineering Development**
- Efficiencies and Effectiveness**
- 'Lights Out' Management
  - Process and Portfolio Management – Enterprise Architecture
  - Leveraged Agency Solutions
  - Federal Standards and Mandates




## NDC Solutions




**Horizontally and Vertically Scalable**



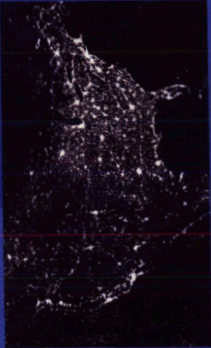
**Adaptable to New Business/Mission Areas**



**Competitive - Cost and Quality**



**Superior Service Delivery**







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