State of Alaska
FY2009 Governor's Operating Budget

Department of Natural Resources
Information Resource Management
Component Budget Summary

Component: Information Resource Management

Contribution to Department's Mission

Provide information technology services and graphic land records to the Department of Natural Resources, and assure public access to information.

Core Services

1. Create and maintain the state status plat maps that display location and status of state lands, property rights, and active DNR business cases.

2. Create, maintain, and upgrade DNR business transaction systems via a centralized database of land management activity; including case, customer, revenue and billing, location, Recordings, Uniform Commercial Code, and electronic document management.

3. Create and maintain the centralized DNR Geographic Information Systems databases and maps used for policy, planning, and land management decisions.

4. Provide computer support, networking, email access, data storage, security, server administration, disaster recovery, help desk and other information technology services to DNR.

5. Build and maintain the primary DNR public access web pages and Internet portals that support millions of public use searches into department databases.

6. Deliver internet-ready business systems to simplify the process of working with government on resource development projects.

End Result	Strategies to Achieve End Result
A: DNR business processes are efficiently automated and easy to use by customers, both internal and external. Productivity increases for staff. A positive environment for economic investment is created; applicants know what is expected. Target #1: All DNR business transactions and permit applications can be conducted electronically. Measure #1: Number of on-line business applications. Target #2: 99.9% availability of DNR information systems at any time of day, or day of the year, excluding scheduled downtime for maintenance. Measure #2: Percent of time internal networked devices (computers, printers, copiers) fully operational for DNR staff. Target #3: Raise productivity per cartographer to 2,000 of cases completed per year reflecting benefits of automation. Measure #3: Average number of cases updated per cartographer per year.	**A1: DNR staff have fast, efficient, and standards-based Personal Computers to accomplish their jobs.** Target #1: Maintain a ratio of less than 1% of tech support for department customers. Measure #1: Number of full time network and desktop support staff supporting department wide customers as a percent of the total DNR staff numbers being supported. **A2: Computerized systems are designed to support and enhance the business processes defined by statute, regulation, and management.** Target #1: Automate four business processes per year and put on-line for customers and staff. Measure #1: Number of business processes automated. Target #2: Three business processes which incorporate mapping and document management technologies. Measure #2: Number of business applications that use mapping and document management solutions to support the strategy.

End Result	Strategies to Achieve End Result
B: State Land Records and data are maintained, protected from natural disaster, and made publicly accessible. Target #1: Reduce the total backlog of pending actions by 5% per year with the aim to have less than 1000 pending actions. Measure #1: Number of pending actions requiring status plat updates at the start of the fiscal year. Target #2: A tested disaster recovery plan has been prepared and is ready to execute if so ordered. Measure #2: A disaster recovery plan has been written, approved, and tested.	**B1: Automate update processes to DNR land records web site to assure current information is available for staff decision making.** Target #1: Utilize data entry at State Recorders Office to eliminate duplicate entry into LAS Mainframe System for mining claims, plats (surveys), and state deeds. Measure #1: Number of transactions that are automatically linked to Land Administration System from Recorder's Data Entry, eliminating duplicate data entry.

End Result	Strategies to Achieve End Result
C: Public can conduct business or query DNR databases without requiring staff intervention; lower the cost of doing business with DNR via automation. Target #1: Accommodate a 10% annual increase per year for hits on our web sites, # of terabytes of data downloads, and the average of number of visits per day. Measure #1: Total count of web statistics for visits per day, volume of downloads (bandwidth); and total hits per year.	**C1: Allow the public to complete on-line forms or make reservations and submit with payment at their convenience; save DNR staff time by reducing data entry requirements.** Target #1: 80% of all Burn Permits issued via the Internet System. Measure #1: Percentage issued via the Internet System. Target #2: 80% Reduction in UCC paper filings by implementing on-line Uniform Commercial Code interactive process. Measure #2: Percentage of total UCC filings posted via the self-help Internet based system. Target #3: Execute 85% of State Parks Cabin Reservations over the self-help Internet web site. Measure #3: Percent of cabin reservations used Internet self-help system.

Major Activities to Advance Strategies

- Strategic planning for IT projects for DNR
- Leveraging staff and technology across projects
- Collaboration with other State, Federal, Local Government, and Native groups
- Position DNR as a leader in GIS applications

- Provide central desktop support through use of standards and remote software applications
- Provide business applications through WEB based technologies
- Set standards for classifications and legends for Status Plats
- Provide data base management and reduction of duplication

FY2009 Resources Allocated to Achieve Results	
FY2009 Component Budget: $3,151,200	**Personnel:**
	Full time 29
	Part time 0
	Total 29

Performance Measure Detail

A: Result - DNR business processes are efficiently automated and easy to use by customers, both internal and external. Productivity increases for staff. A positive environment for economic investment is created; applicants know what is expected.

Target #1: All DNR business transactions and permit applications can be conducted electronically.
Measure #1: Number of on-line business applications.

Analysis of results and challenges: At the end of FY07, DNR had 14 on-line business services, out of an estimated total of 200. See the web site below for a cumulative view of progress toward the goal.

Target #2: 99.9% availability of DNR information systems at any time of day, or day of the year, excluding scheduled downtime for maintenance.
Measure #2: Percent of time internal networked devices (computers, printers, copiers) fully operational for DNR staff.

ESTIMATED HOURS OF SYSTEM UPTIME

Year	HRS UPTIME	% UPTIME	DAYS UP
2000	8,640	98.6%	360
2001	8,660	98.8%	361
2002	8,680	99.1%	362
2003	8,680	99.1%	362
2004	8,630	98.5%	360
2005	8,610	98.3%	359
2006	8,672	99.0%	361
2007	8,710	99.4%	363

Advancing statewide security measures, anti-virus, and LanDesk software helped to secure high ratings.

Analysis of results and challenges: Need to tie DNR data center to building backup generator to raise uptime, need to implement DOA-ETS security and disaster recovery plan.

Target #3: Raise productivity per cartographer to 2,000 of cases completed per year reflecting benefits of automation.

Measure #3: Average number of cases updated per cartographer per year.

Average Updates Per Cartographer Per Fiscal Year

Year	# Updates	Target
FY 2000	1368	1400
FY 2001	2542	2000
FY 2002	1559	1600
FY 2003	1456	1600
FY 2004	1715	1800
FY 2005	1773	1800
FY 2006	2041	2000
FY 2007	1475	2000
FY 2008	0	2200

FY01 had large backlog of mining claims and prospecting sites processed. One time clean-up.
FY06 showing some of the automation benefits from the Core GIS Project.
FY07 decline a result of a difficult software production roll out which required significant cartographer testing slowing the update process. The new system is in production and during July '07 the rate was over 250 updates per month.
FY08 in progress.

Analysis of results and challenges: Keeping the land records current is an important requirement to avoid any conflicts in the use of the land due to out dated records.

A1: Strategy - DNR staff have fast, efficient, and standards-based Personal Computers to accomplish their jobs.

Target #1: Maintain a ratio of less than 1% of tech support for department customers.

Measure #1: Number of full time network and desktop support staff supporting department wide customers as a percent of the total DNR staff numbers being supported.

Network and Desktop Support Staff

Year	DNR Full-Time Staff	Tech CIC Staff	Percent Tech
FY 2004	691	6	0.9%
FY 2005	722	6	0.8%
FY 2006	766	7	0.9%
FY 2007	851	8	0.9%
FY 2008	872	8	0.9%

Network and desktop staff in the Computer Information Center support all divisions except DGGS, Oil and Gas, and Joint Pipeline Office. Percents below 1% are well below industry standards.

Analysis of results and challenges: The ratio of IT network and desktop support staff to full time staff is about 1%. This low cost ratio is made possible by DNR and State IT Standards.

A2: Strategy - Computerized systems are designed to support and enhance the business processes defined by statute, regulation, and management.

Target #1: Automate four business processes per year and put on-line for customers and staff.
Measure #1: Number of business processes automated.

Business Processes Automated

Year	DNR Process On-Line	Target
FY 2004	3	4
FY 2005	3	4
FY 2006	1	4
FY 2007	3	4

See analysis for specific processes.

Analysis of results and challenges: 2007: Q1 Delivered RS2477 document imaging system as Stellent prototype. Q2 Delivered On-line payment by checking account option (ACH-Beaches); Q4 delivered automated burn permit process w/ new location component.

2006: Q1 One new automation: All DNR recorded transactions automatically linked into Land Administration System (LAS), saves staff time, provides access to electronic recorded documents.
2005: 1) Cabin Reservations on-line; > 85% all rentals now done over the Internet; 2) register commercial recreation 0n-line; 3) updated land sale bidding and over the counter sales system (joint project with Mining, Land and Water)
2004: 1) Uniform Commercial Code on-line; ~ 15% of all UCC filings. 2) Burn Permits on-line. 3) New Credit Card System for Internet payment.

Target #2: Three business processes which incorporate mapping and document management technologies.
Measure #2: Number of business applications that use mapping and document management solutions to support the strategy.

New Document and Mapping Systems

Year	Doc Systems	Map Systems	YTD	Target
2004	1	1	2	2
2005	1	2	3	3
2006	1	1	2	4
2007	1	2	3	4

Document systems use in-house software developed for specific application. DNR now working to deploy a Stellent based Case-management solution.
Mapping systems are open for other departments to access. DNR and AOGCC share a common data system that assures consistency and does not duplicate data.
2007 automated basemap selection from the UAF-GINA infrastructure as part of the Statewide Digital Mapping Initiative; and new major plat production system. Doc System had Metadata model defined.

Analysis of results and challenges: 2006: Updated platting system, Alaska Mapper Released.
FY06 Q3 Projection: Coastal Project Questionnaire on-line w/ map analysis.
2005: New state status plat designed. New bibliographic doc system for minerals data. New mapping front end for minerals data.

B: Result - State Land Records and data are maintained, protected from natural disaster, and made publicly accessible.

Target #1: Reduce the total backlog of pending actions by 5% per year with the aim to have less than 1000 pending actions.
Measure #1: Number of pending actions requiring status plat updates at the start of the fiscal year.

Status Graphics Workload Analysis

Year	Beginning Balance	New Casework	Cases Updated	Ratio Updated / New Work
FY 2000	16790	13684	19154	140%
FY 2001	11320	30355	33042	109%
FY 2003	8633	12001	17151	143%
FY 2004	3483	15132	13717	91%
FY 2005	4898	11651	10640	91%
FY 2006	5909	11990	12251	102%
FY 2007	5648	13061	8853	68%
FY 2008	9856	0	0	0

Analysis of results and challenges: In FY2007 Status Graphics placed a new state platting system into production. Staff testing reduced ability to maintain updates at normal rates. Production for FY2008 should return to normal, even with conversion requirements for B/W to color.

Currently, the oldest pending action is about 12 months. With the new system we aim to make this 90 days over the next three years.

Target #2: A tested disaster recovery plan has been prepared and is ready to execute if so ordered.
Measure #2: A disaster recovery plan has been written, approved, and tested.

B1: Strategy - Automate update processes to DNR land records web site to assure current information is available for staff decision making.

Target #1: Utilize data entry at State Recorders Office to eliminate duplicate entry into LAS Mainframe System for mining claims, plats (surveys), and state deeds.
Measure #1: Number of transactions that are automatically linked to Land Administration System from Recorder's Data Entry, eliminating duplicate data entry.

Automated Links from Recording to LAS

Year	Doc Rec Links	Plat Filed
FY 2006	52,489	162
FY 2007	11,725	114

Table reports on the numbers of automated transactions created by having a document recorded. Over 50,000 DR transactions eliminates duplicate data entry in the Land Administration System (LAS). Plat Filed (PF) eliminates duplicate scanning and doc. handling costs.

Analysis of results and challenges: DNR-LRIS programmers have automated linkage of the following transactions:
Document Recorded (DR)
Plat Filed (PF)
Conveyance Recorded (CR)
These transactions have generated automated links to over 60,000 transactions in the Land Administration, primarily in Title and Mining Case Files.

C: Result - Public can conduct business or query DNR databases without requiring staff intervention; lower the cost of doing business with DNR via automation.

Target #1: Accommodate a 10% annual increase per year for hits on our web sites, # of terabytes of data downloads, and the average of number of visits per day.
Measure #1: Total count of web statistics for visits per day, volume of downloads (bandwidth); and total hits per year.

DNR Web Sites Usage

Year	Visits / Day	Downloads - GB	Hits / Yr	% increase
2004	3468	641 GB	44,507,108	0
2005	4282	2113 GB	61,256,646	38%
2006	4763	2513 GB	71,487,000	17%
2007	0	0	0	0

Total hits and download data are not available prior to 2004.
2005 Showed over 300% growth in downloads, this is primarily from public access directly downloading GIS data from DNR, commonly from companies working on permitting issues. Over two terabytes downloaded in CY 2005.

2006 Data are projected annual totals based on data through August '06.

Analysis of results and challenges: DNR web site continues to grow in use as on-line applications provide convenient answers to users, and saves staff time from phone calls and independent research for customers. Amount of data being downloaded from the site continues to grow.

C1: Strategy - Allow the public to complete on-line forms or make reservations and submit with payment at their convenience; save DNR staff time by reducing data entry requirements.

Target #1: 80% of all Burn Permits issued via the Internet System.
Measure #1: Percentage issued via the Internet System.

Burn Permits Issued Via the Internet

Year	# of Permits	%
2004	3000	38%
2005	3500	45%
2006	4730	70%

Increasing use of on-line permit system saves time in State Forestry Offices. Updated system planned for FY07.

Analysis of results and challenges: FY2006: Permit number increased to over 4000. Work begins on integrating Fairbanks methods using borough parcel ownership information to help locate permitted site and confirm permit owner.

FY2005: Over 3500 permits issued using the new Internet system. Mat-Su, Palmer, and Kenai are areas of highest use.

FY2004: Over 3000 burn permits total, 38% were Internet based. Savings to Div. of Forestry ~ 200 hours; customer satisfaction higher because of convenience.

Target #2: 80% Reduction in UCC paper filings by implementing on-line Uniform Commercial Code interactive process.
Measure #2: Percentage of total UCC filings posted via the self-help Internet based system.

UCC Filings Made Over the Internet

Year	Percent of Filings
FY 2004	5%
FY 2005	20%
FY 2006	50%
FY 2007	49%

Recorder's Office marketed this automated service to their key institutional customers in FY06.

High adoption rate by banks and other industry groups, low adoption rate by general public.

Analysis of results and challenges: Automated UCC filings reduce the cost to the state by eliminating the need for most data entry. The process is more efficient for applicant once setup; eliminates paper handling and filing costs. System meets national standards.

Target #3: Execute 85% of State Parks Cabin Reservations over the self-help Internet web site.
Measure #3: Percent of cabin reservations used Internet self-help system.

Percent of Cabin Reservation Made On-Line

Year	% of Reservations	Target
2004	70%	75
2005	85%	85
2006	84%	85

Analysis of results and challenges: Average projected savings to DNR is about 4 days of labor per month. Significant savings to public reduces travel time and scheduling constraints (24 hr availability for Internet).

Key Component Challenges

Information Resource Management
Top Issues: From DNR FY09 IT Plan

Issue 1. <u>Replace Older Systems</u>: Over the past years the department has identified several applications that are at the end of their life cycle. Progress has been made replacing major systems. For others, capital projects are underway, some are in queue.

Issue Rank	Application	Replacement Progress	Funding Status
1	Land Administration System (LAS): (Case System)	Project started: Moved to a Service Oriented Architecture.	Capital Project via Unified Permit.
2	Oil and Gas (O&G) Royalty Accounting & Case	Project initiated in O&G, design and coding underway. Integration issues with LAS and Document Management.	GF Funded under operating; needs to integrate with LAS.
3	Alaska Coastal Zone Management System	Coastal Project Questionnaire moving from paper based forms to on-line appli	Capital Project now under Unified Permit
4	Recording Process	Move from Paper-based to Electronic Recording for real property transactions	FY09 CIP Request
5	Parks: History and Archeology, site reviews	New business process designed, components delivered; ~50% complete.	Fed. Funds via DOT/PF; I/A
6	Revenue and Billing System	Moving to web-reporting and excel extracts (06-07); Will eventually need to replace or upgrade 1980s system after replacement to AKSAS is implemented.	Moving to web screens FY08

7	Habitat Title 41 Permit Application	Replacement or update identified, low priority; current PC system works well, limits data sharing.	No project funding requested.
8	Mining Portal	Interagency federal-state web sites addressing mineral property and resources data	On-track
9	Status Plat –Land Ownership Mapping	Replacement System moved to in production FY07, migrates to Oracle 10g Spatial; Integrate local government and federal records via Cadastral Project	System Completed in FY07; data conversion to color plats underway
10	Mental Health Trust Land Office	Create Asset Management System using e-Docs & GIS	Target FY09 completion.

Issue 2:   Active Directory (AD) Conversion & Web-Server DMZ Efforts: New directory services using Microsoft AD are required to implement security and routing requirements in new software applications tied to permit streamlining. Related conversion effort is the migration of DNR Web Servers to the state DMZ under a security plan, goal is better security with no loss of performance.

Issue 3:   Document Management Implementation: DNR needs to automate flow of incoming paper and electronic files, and digitize case file documents to support records search and adjudication. Scope includes all divisions and DNR offices.

Issue 4:   GIS Deployment within DNR and Within Executive Branch   GIS technologies for decision support and transaction processing offer rich opportunity for DNR. Advances are planned within both Unified Permit Project and the Statewide Digital Mapping Initiative.

Issue 5: ALMRS : This Alaska Land Mobile Radio (ALMR) project creates a digital standard for emergency response and resource management land mobile radios for the Division of Parks and Division of Forestry. Project was partially funded in FY07; replacement planning and implementation is underway; FY09 CIP.

Significant Changes in Results to be Delivered in FY2009

On-line permitting will expand in FY08 offering the public and industry applicants a more efficient process for submitting resource authorization requests. Land Use Permits, Commercial Recreation, Coastal Management Grants, and other permits will help to meet the productivity performance measures set in this component.

DNR IT Capital State-Federal Projects will continue to advance measurable results under the Alaska Statewide Digital Mapping Initiative, the minerals related efforts and the land ownership initiatives (Cadastral). These systems bring enhanced data - for example detailed Ortho-Imagery and digital elevation models (DEMs) - to the DNR decision making process.

DNR Computer Information Center will deploy new state standards for security and operating systems. These changes will align DNR with a shared IT model for the executive branch, with the goal of increasing the security of the state network, raising uptime percentages, and thus raising productivity of DNR staff.

Major Component Accomplishments in 2007

Core Services Accomplishments

New State Status Plat - The Core-GIS (Geographic Information Systems) project has delivered improved, easier to read, colored status plat system which tracks the location and disposition of state land. The new plats are linked to the Department's Land Administration System (LAS). Conversion from black and white to color is now underway.

WEB-LAS Replaces The Mainframe Screens - New web screens with drop down menus and context help info were delivered for the Land Administration System. The new screens simplify data entry and query of the business system. The implementation was followed with extensive training of over 100 staff in Fairbanks, Juneau, and Anchorage. ApplinX and EntireX middleware are key components.

Enterprise Email Transition and Migration Completed - From May 16th 2007 through July 10th, DNR's IT staff deployed the new State's Email Enterprise System. The team worked over 160 hours of overtime to meet the deadline. Most remote transitions and migrations were done over the phone with end-users or by using LANDesk's Remote Control software. Due to the critical nature of Forestry's fire season, Computer Information Center (CIC) staff made a special trip to Palmer to expedite Forestry's Palmer office.

Alaska Mapper New Release - Version 2.0 changes include access to satellite imagery (see below), a new look and feel, improved help information, new United States Geological Survey (USGS) base maps, access to National Oceanic and Atmospheric Administration (NOAA) nautical charts as basemaps, and new data download procedures. The site provides interactive access to land status information and other state GIS data layers.

Statewide Digital Mapping Initiative (SDMI) Delivers Images - In year-one of the SDMI project DNR established a strong mapping partnership with the University of Alaska Fairbanks (UAF). The UAF staff provide statewide LANDSAT imagery, over 20 million acres of high-resolution imagery (eg. Fairbanks Forestry Imagery, Mat-Su, Anchorage, Kenai etc); improved USGS Maps of all published scales, access to NOAA nautical charts, and versions of the Alaska digital elevation model. All of these "raster data" themes are optional basemaps to Alaska Mapper 2.0. Customers may also download SDMI imagery into their own GIS systems.

Over 2 Million Recorded Documents Digitized - Over 10 years of Recorder's Documents & all recorded survey plats are on the DNR Intranet; and approved document types (deeds, plats, mining claims) are all on the Internet. This represents about fifteen million images. The DNR goal is to scan all digitally indexed recorded documents dating back to the 1970s.

Transparency in Government - Public Access to DNR Data - The DNR public web site consistently averaged over 80,000 unique visitors per month generating over 7,000,000 hits per month. All divisions maintain web sites, the top areas of public access are the State Recorder's Office, State Land and Mining Records, the DNR Land Sale Program, and State Parks.

New Legal Description Software - New legal description software used to describe property and land use restrictions was delivered using the Tamino XML database. The new process works similar to inputting text into word processing software. It allows multiple versions, retaining a history of descriptions as prepared by different work units in the course of adjudication, and identifies the staff that entered or modified each version. The contract legal description will be used as a web service for automatically populating permit, lease, and patent documents.

Recorded Documents Linked to Business Systems - Two software solutions have been implemented that allow recorded documents to be automatically linked to the DNR LAS case files. All documents sent to the Recorder's Office with a DNR case file label are now automatically loaded to the business system. Older DNR recorded documents are added as they are identified by adjudicators or in a batch run performed by programming staff. This eliminates the need to load information in two separate systems and assures a consistent public record to adjudicators and the public.

Unified Permit: DNR Document Management System Initiated - A contractor, Frontline Logic, has been hired to help implement the Stellent software. The project goal is to deliver a document management for all DNR business units in a two-year window.   Scanning protocols are developed. Contract Administration and Title will be automated for in-coming documents. The work is being coordinated with other DNR document management efforts including the Joint Pipeline Office (JPO), Office of Project Management and Permitting (OPMP), and Oil and Gas. The Alaska Oil and Gas Conservation Commission (AOGCC) was consulted.

Status Graphics Cartographers - completed the notation of 8,853 pending actions during FY07. That is below our goal of 12,000 updates. Staff testing of the new color platting system caused the slow-down; work is returning to projected levels. The immediate focus is to eliminate the mining claim backlog of over 5,000 claims. At the start of FY08 there were 9,895 pending actions to note to the status maps affecting over 1,500 townships.

Department of Transportation and Public Facilities (DOTPF) Land Records Posted - Right of Way and Airport Plats The GIS Programming Unit completed design and loading of the DOTPF right-of-way and airport plats from the South-central and Interior regions to the multi-agency Land Records web site.   A quarterly update process is in place; and in the future the South-east Region may be added. This co-operative effort is a product of the Bureau of Land Management (BLM) supported Cadastral Project.

Cadastral Project - DNR-BLM Land Records Web Site Grows - Currently Serving Over 100,000 Maps, Plats, and Survey Notes, continuing to add new sources requested by DNR users.
- 28,000 state plats and historical indices
- 10,000 state surveys
- 19,000 master title plats
- 24,000 federal surveys
- 250k and 63k USGS topo maps
- now serving 17-B easement plats,
- now serving ANCSA village land 14-C plats
- expanded serving of BLM survey notes, and
- added DOTPF right-of-way and airport plats for south-central and northern regions.
- added shore-fishery plats via the recording process

Oracle Database Migrates to 10-G - To improve database reliability and total up-time services, Oracle 10G, a Real Application Cluster (RAC) was installed. The advanced architecture provides live fail-over capability, (two servers, if one goes down, the other will cover), and eliminates the need to take the database off-line for backups. RAC offers improved mapping support, and doubles DNR Enterprise Oracle computing capacity.

Forestry Fire Reporting System - The new Fire Reporting System (FRS) is in production. The new system developed by team of Division of Forestry (DOF) staff, contractors, and IRM staff now runs entirely from the Oracle database with a web front-end. FRS is used to help track and manage resources during the active fire season.

Forestry Burn Permit System - A team of DOF staff, contractors, and IRM staff updated on-line Burn Permit System; it provides a mapping component using state and borough land ownership data to assist Forestry and local fire departments with smoke management and incident reporting. The system is being extended to other railbelt boroughs.

Division of Geological and Geophysical Survey Coordination - Training Sessions were held in conjunction with annual Alaska Miners Association: mineral properties, land ownership, DNR record systems, Recorders' Office searches, map based searches, links to Division of Geological & Geophysical Surveys (DGGS) minerals information.   The Minerals Data and Information Rescue in Alaska (MDIRA) was supported as web-portal to mining property records in Alaska Mapper tied to minerals information via integration with DGGS web sites.

Status Graphics Progress to Maintain The DNR Graphic Land Record:
- Worked with BLM Survey to reduce the cycle time in receiving federal surveys from every 3- months to every 2-weeks. This helps DNR staff working on the BLM 2009 Project.

- Moved from the mainframe Status Plat Tracking System to a web-based Plat Information Management System for pending actions. This eliminates duplicate data entry and provides real-time updates of information.

- Completed the notation of the Northwest Area Plan Amendment, Upper Yukon Area Plan and the Haines State Forest Plan to the status plat. The Kodiak Area Plan has been received, Kenai plan is 90% automated.

- Trained DNR staff, other state agencies, and private companies on using Alaska Mapper, the Land Records Website, accessing DNR GIS data, and How to Read a Status Plat. Training is on-going.

Automated Survey Upgrade in LAS - Multiple case files that are associated with a single survey, for example land sale files, automatically link each case with the most current survey information.

Chugach State Park Trails Get Detailed Map Positions - LRIS cartographers and interns located, documented, and inventoried over 120 miles of trail in the Chugach State Park using survey-quality GPS; and guided by the lead Ranger. The project has cooperative support from the National Park Service. The project benefits resource managers and the general public.

Spill Response Support for Alaska Department of Environmental Conservation (DEC) - GIS staff delivered training to DEC staff on a new spill response application. DEC may use the mapping and resource tracking system in an up-coming spill drill.

Support for New Forestry Mapping Web Site - The Division of Forestry Northern Region delivered advanced GIS mapping web site to area foresters, staff, local fire departments, the borough, and the general public. LRIS provided technical support and infrastructure.

Data Storage Capacity Expands - CIC replaced the Network Appliance file server, a.k.a. Kodiak (880 filer) with a new FAS3020 Filer.   The new server increased storage space from 7 terabytes to 14 terabytes, and can expand to 50 terabytes. DNR data, including recorded documents are stored here.

LanDesk Software - New State Standard Deployed - LanDesk provides the ability to discover new network devices, inventory networked hardware and software, remotely control computers by IT staff, and push out software applications and bug patches.

Security Improved Via A New State Standard - To comply with the State's new security policies, DNR installed and implemented CISCO Security Agent (CSA) on approximately 1000 DNR computers. Virus invasions are now rare within the State-DNR networks.

IT Support for Fire Management - Forestry's State Logistics Center (SLC) in Fairbanks moved to a larger and better facility on the University of Alaska Fairbanks (UAF) campus. CIC staff coordinated the installation of hardware and software with UAF IT staff.

New Backup System Configured - CIC upgraded the backup system for DNR's servers, and assigned the new Oracle RAC system to an independent system.   This has reduced the time to backup servers by more than half and doubled the storage capacity of individual tapes.   A new backup solution for Palmer Forestry was also implemented.

Core Services: Offering DNR Technical Training

Trained DNR Staff in Technical Systems - Hosted multiple technical training classes directly tied to the production systems that DNR staff use on a regular basis. Outcome: Staff can efficiently use IT systems, can find information needed for decisions.
The following classes were offered:
- Land Administration System Training and Support - Trained adjudicators on new Data   Entry screens, and transaction update process using new web-based interface.
- Trained 20 DNR employees in the DNR Systems Orientation class on a monthly basis.   Introduces employees to scope and relationship of all DNR IT systems.
- Trained 40 DNR employees in the use of the Land Records Website on as needed basis.   Trained in Anchorage, Juneau, and Fairbanks. Offered classes outside DNR for a small fee coordinated through the DNR Public Information Center
- Trained 80 staff and end-users on Alaska Mapper, an interactive mapping system based on combined status plat and LAS databases; and trained four staff on the use of the Status Plat Tracking system.

Statutory and Regulatory Authority

This component operates under Alaska Statues, 38.05.020; 38.05.035; 38.04.065; 41.08.030; 38.05.030; 09.25.115; 41.08.020; 40.21.060; 37.14.425; 09.25.120; 41.08.035; and Alaska Administrative Codes, 6AAC Chapter 96; 11AAC 05.010.

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Information Resource Management
Component Financial Summary

All dollars shown in thousands

	FY2007 Actuals	FY2008 Management Plan	FY2009 Governor
Non-Formula Program:			
Component Expenditures:			
71000 Personal Services	2,396.4	2,570.1	2,705.5
72000 Travel	10.8	6.0	6.0
73000 Services	289.8	328.9	330.3
74000 Commodities	98.5	109.4	109.4
75000 Capital Outlay	0.0	0.0	0.0
77000 Grants, Benefits	0.0	0.0	0.0
78000 Miscellaneous	0.0	0.0	0.0
Expenditure Totals	**2,795.5**	**3,014.4**	**3,151.2**
Funding Sources:			
1002 Federal Receipts	125.9	133.3	0.0
1004 General Fund Receipts	1,798.4	1,897.8	2,021.5
1007 Inter-Agency Receipts	78.8	145.9	187.4
1055 Inter-agency/Oil & Hazardous Waste	27.0	21.0	21.0
1061 Capital Improvement Project Receipts	585.5	650.7	750.7
1108 Statutory Designated Program Receipts	27.8	12.7	12.7
1153 State Land Disposal Income Fund	152.1	153.0	157.9
Funding Totals	**2,795.5**	**3,014.4**	**3,151.2**

Estimated Revenue Collections

Description	Master Revenue Account	FY2007 Actuals	FY2008 Management Plan	FY2009 Governor
Unrestricted Revenues				
None.		0.0	0.0	0.0
Unrestricted Total		**0.0**	**0.0**	**0.0**
Restricted Revenues				
Federal Receipts	51010	125.9	133.3	0.0
Interagency Receipts	51015	78.8	145.9	187.4
Statutory Designated Program Receipts	51063	27.8	12.7	12.7
Capital Improvement Project Receipts	51200	585.5	650.7	750.7
Interagency Recs./Oil & Hazardous Waste	51395	27.0	21.0	21.0
State Land Disposal Income Fund	51434	152.1	153.0	157.9
Restricted Total		**997.1**	**1,116.6**	**1,129.7**
Total Estimated Revenues		**997.1**	**1,116.6**	**1,129.7**

Summary of Component Budget Changes From FY2008 Management Plan to FY2009 Governor *All dollars shown in thousands*			
	General Funds	**Federal Funds**	**Other Funds**	**Total Funds**
FY2008 Management Plan	1,897.8	133.3	983.3	3,014.4
Adjustments which will continue current level of service:				
-Correct Unrealizable Fund Sources for Salary Adjustments: GGU	51.4	-7.9	-43.5	0.0
-ETS Chargeback Redistribution	1.4	0.0	0.0	1.4
-Correct Unrealizable Fund Sources	0.0	-133.3	133.3	0.0
-FY 09 Bargaining Unit Contract Terms: General Government Unit	70.9	7.9	56.6	135.4
FY2009 Governor	**2,021.5**	**0.0**	**1,129.7**	**3,151.2**

Information Resource Management
Personal Services Information

Authorized Positions			Personal Services Costs	
	FY2008 Management Plan	**FY2009 Governor**		
Full-time	29	29	Annual Salaries	1,732,422
Part-time	0	0	COLA	120,121
Nonpermanent	1	1	Premium Pay	0
			Annual Benefits	935,139
			Less 2.95% Vacancy Factor	(82,182)
			Lump Sum Premium Pay	0
Totals	**30**	**30**	**Total Personal Services**	**2,705,500**

Position Classification Summary

Job Class Title	Anchorage	Fairbanks	Juneau	Others	Total
Administrative Clerk III	1	0	0	0	1
Administrative Officer I	1	0	0	0	1
Analyst/Programmer II	3	0	0	0	3
Analyst/Programmer III	3	0	0	0	3
Analyst/Programmer IV	8	0	0	0	8
Analyst/Programmer V	3	0	0	0	3
Cartographer II	6	0	0	0	6
Cartographer III	1	0	0	0	1
College Intern III	1	0	0	0	1
Data Processing Mgr III	1	0	0	0	1
Natural Resource Mgr II	1	0	0	0	1
Natural Resource Spec III	1	0	0	0	1
Totals	**30**	**0**	**0**	**0**	**30**