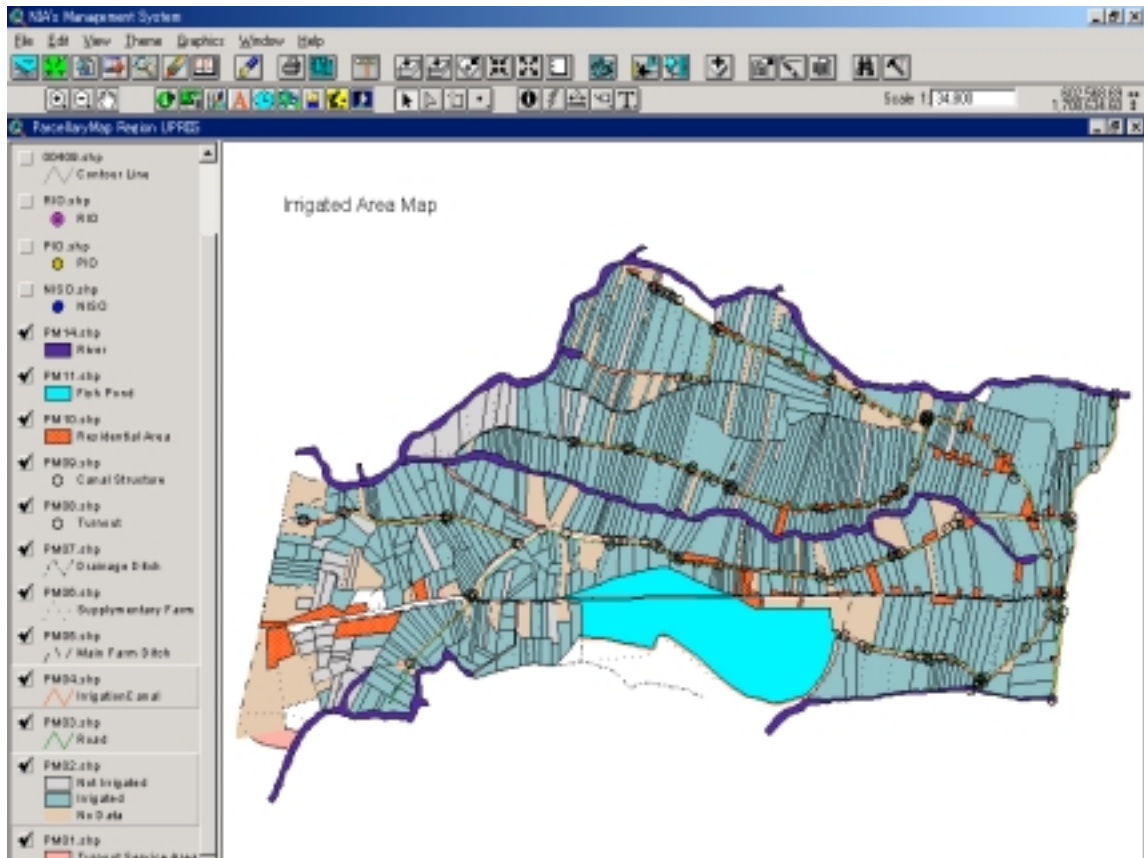
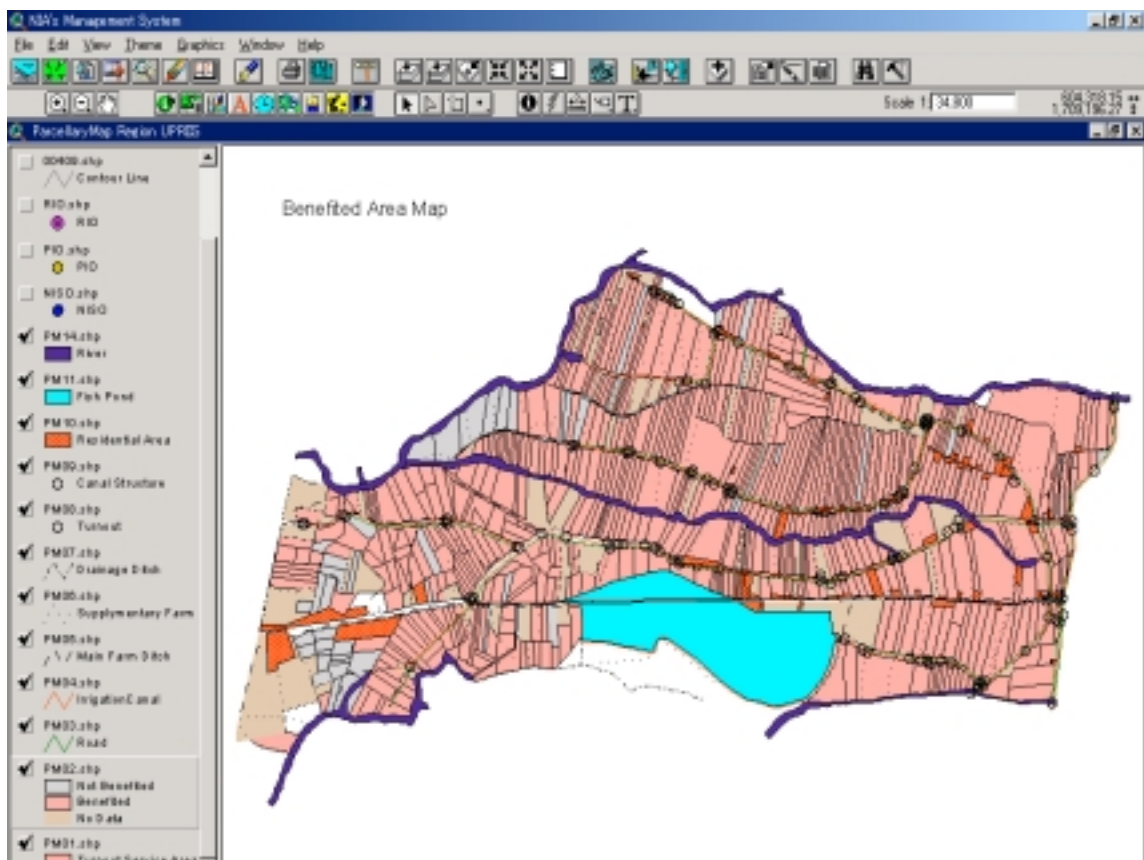


図 4.5 アウトプット型式およびユーザー・インターフェースのフロー (縮尺 1:4,000 地図レベル GIS データベース)

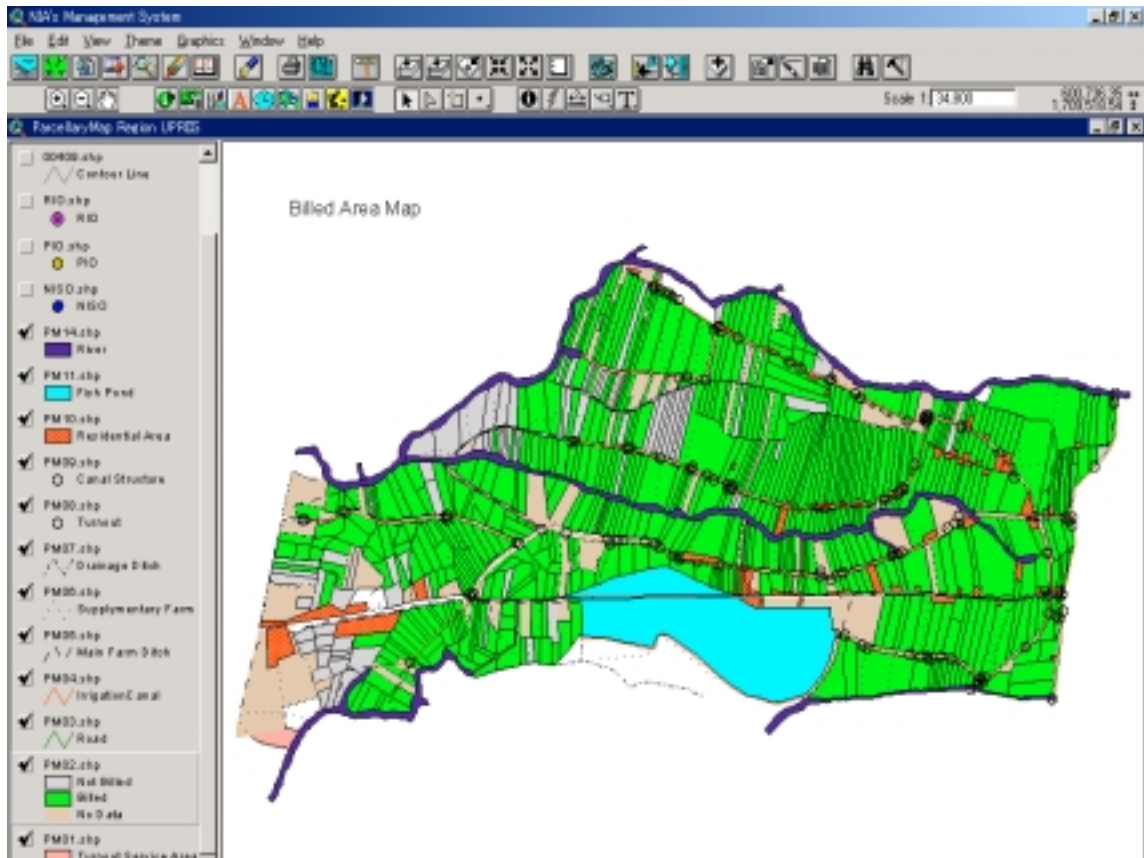


Irrigated Area Map

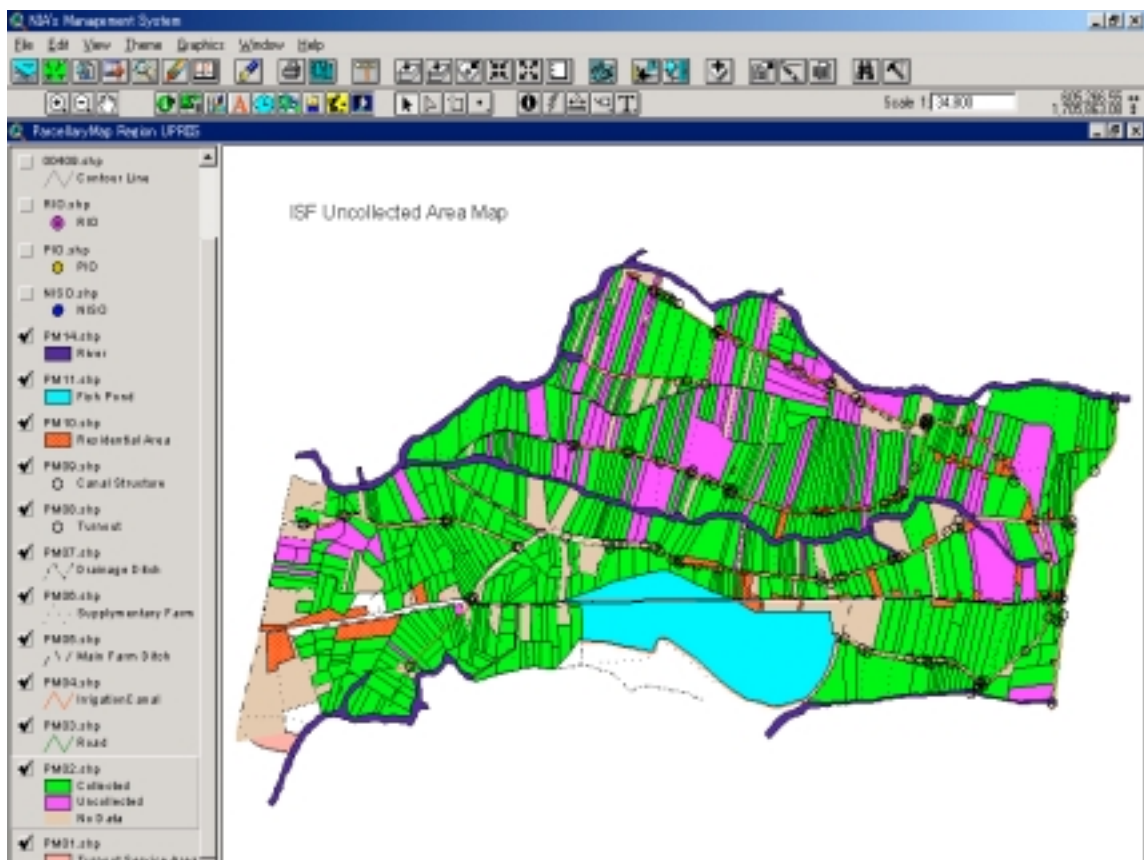


Benefited Area Map

図4.6 サンプル・アウトプット (縮尺1:4,000 地図レベルGIS データベース) (1/2)



Billed Area Map



ISF Uncollected Area Map

図4.6 サンプル・アウトプット (縮尺1:4,000 地図レベルGIS データベース) (2/2)

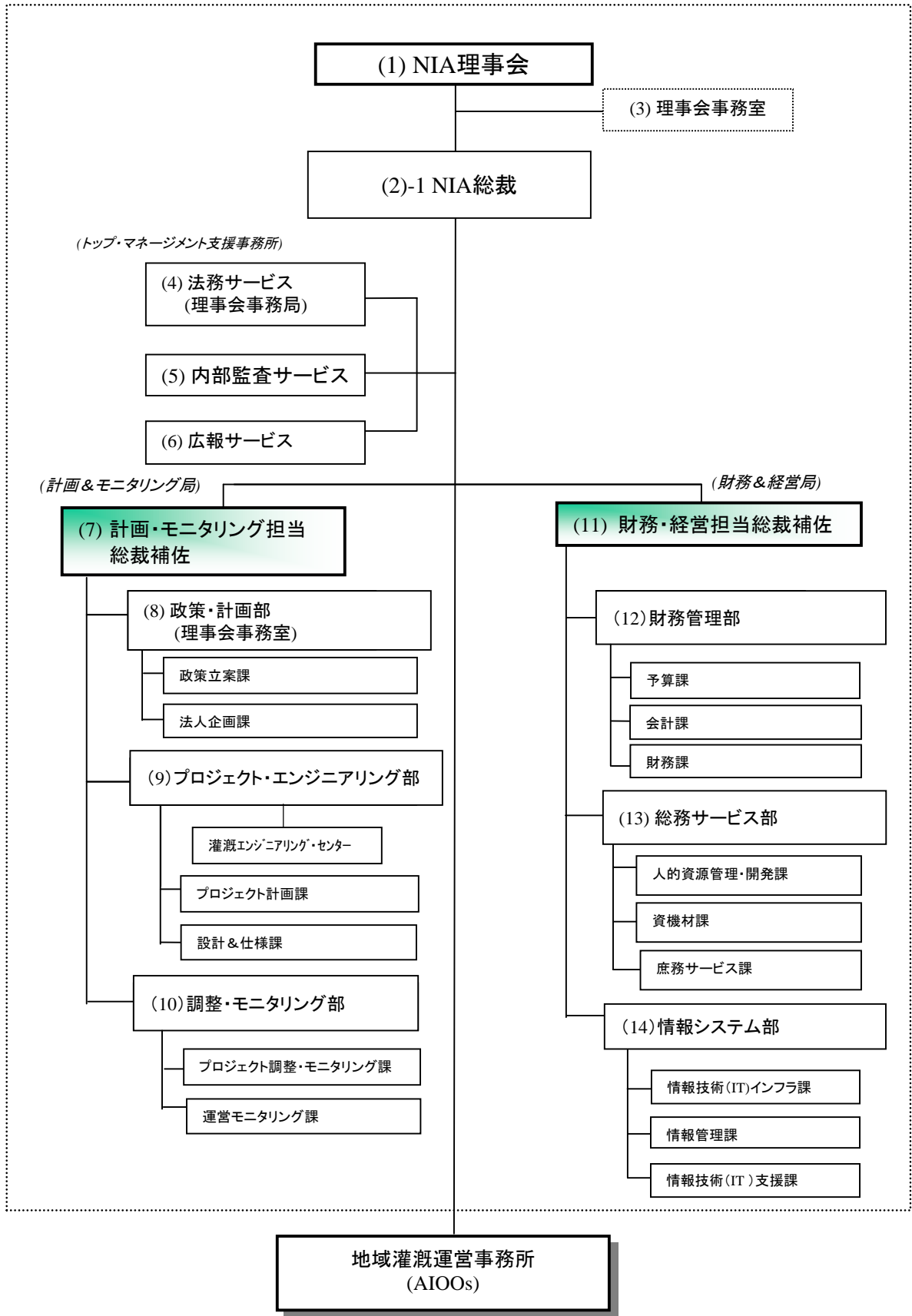


図 7.1 NIA中央の組織体制(案)

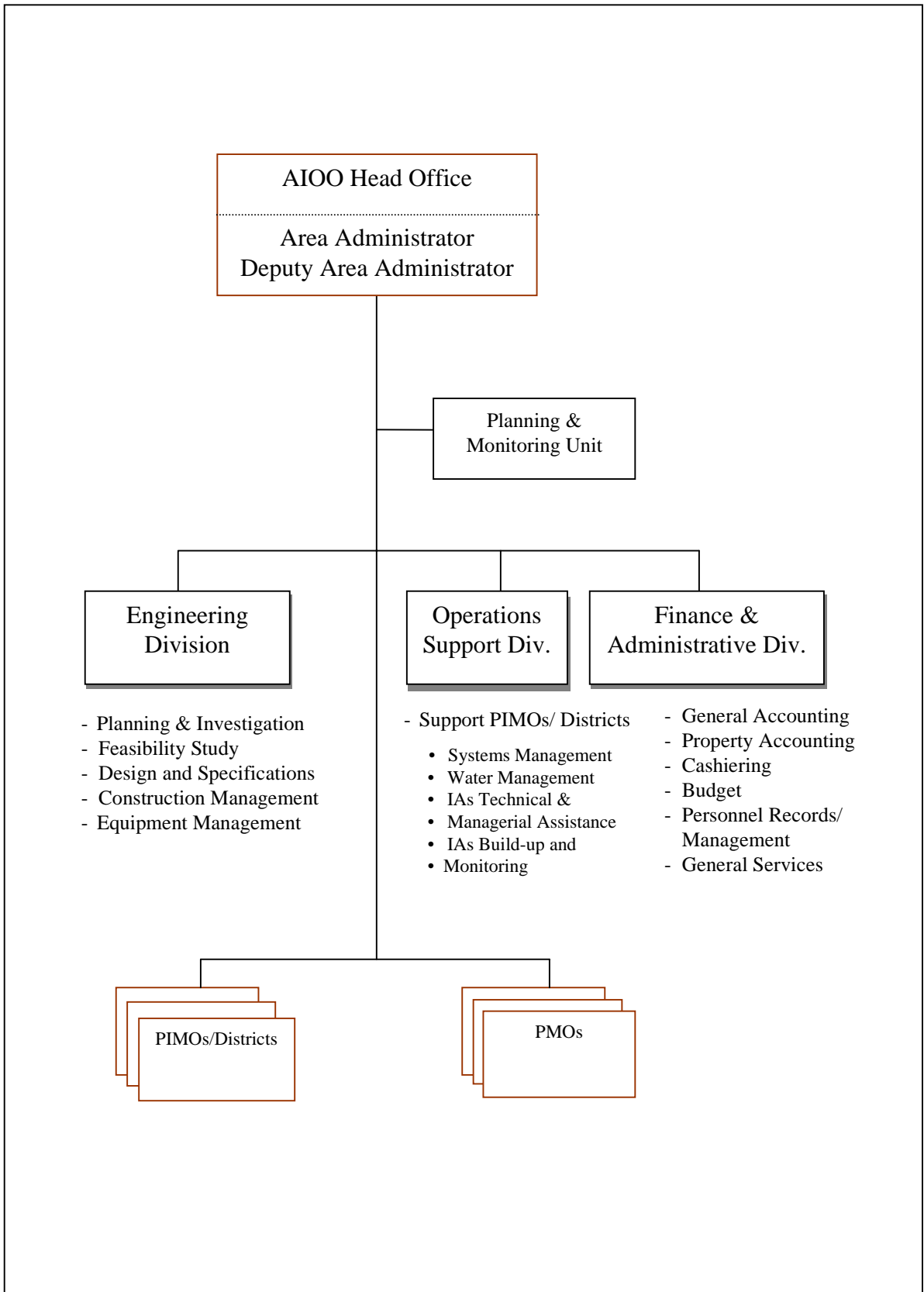


図 7.2 地域灌漑運営事務所(AIOO)の組織体制案

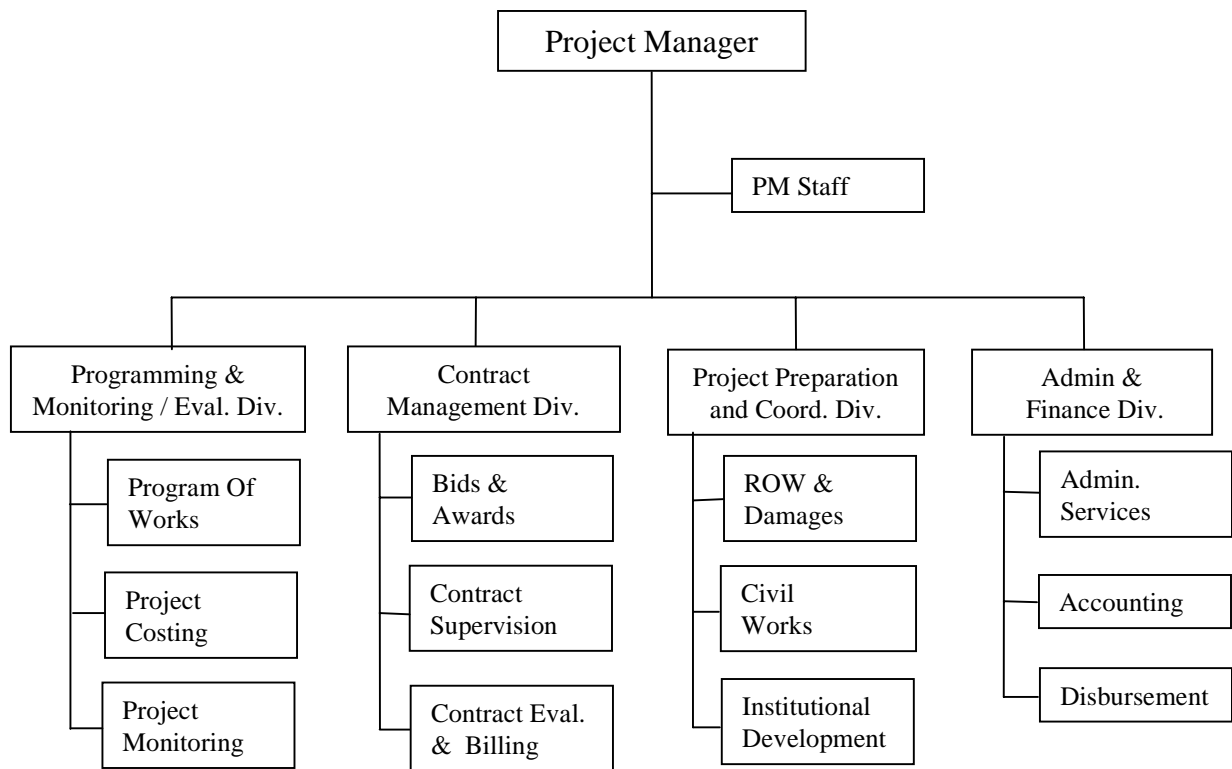


図 7.3 プロジェクト管理事務所 (PMO)の組織案

Functions:

- PM Staff:
 - Provide legal Support Services to the Project Manager
 - Formulate policies for the operation of the project office
 - Formulate strategies and action plans for public information on project goals and objectives.
- B. Programming, Monitoring and Evaluation:
- Preparation of Program of works
 - Monitor and evaluate progress of project implementation
 - Estimate costs of construction of various irrigation and building structures under the project
 - Undertake progressive project costing
- C. Contract management:
- Prepare contract tender documents
 - Evaluate and pre-qualify prospective bidders
 - Provide secretariat support to PBAC
 - Prepare contract documents
 - Evaluate contract accomplishments and prepare progress billing
 - Supervise execution of contracted works
- D. Force Account Works:
- Negotiate right of way for construction of irrigation facilities
 - Estimate and prepare documents for payment of row and damages
 - Take over uncompleted works left by contractors (Civil Works, Institutional Dev't., etc.)
- E. Administrative & Finance
- Take charge of General Services & Personnel action for the Project Office
 - Take charge of proper recording of project funds and expenditures
 - Undertake payments of all project obligations

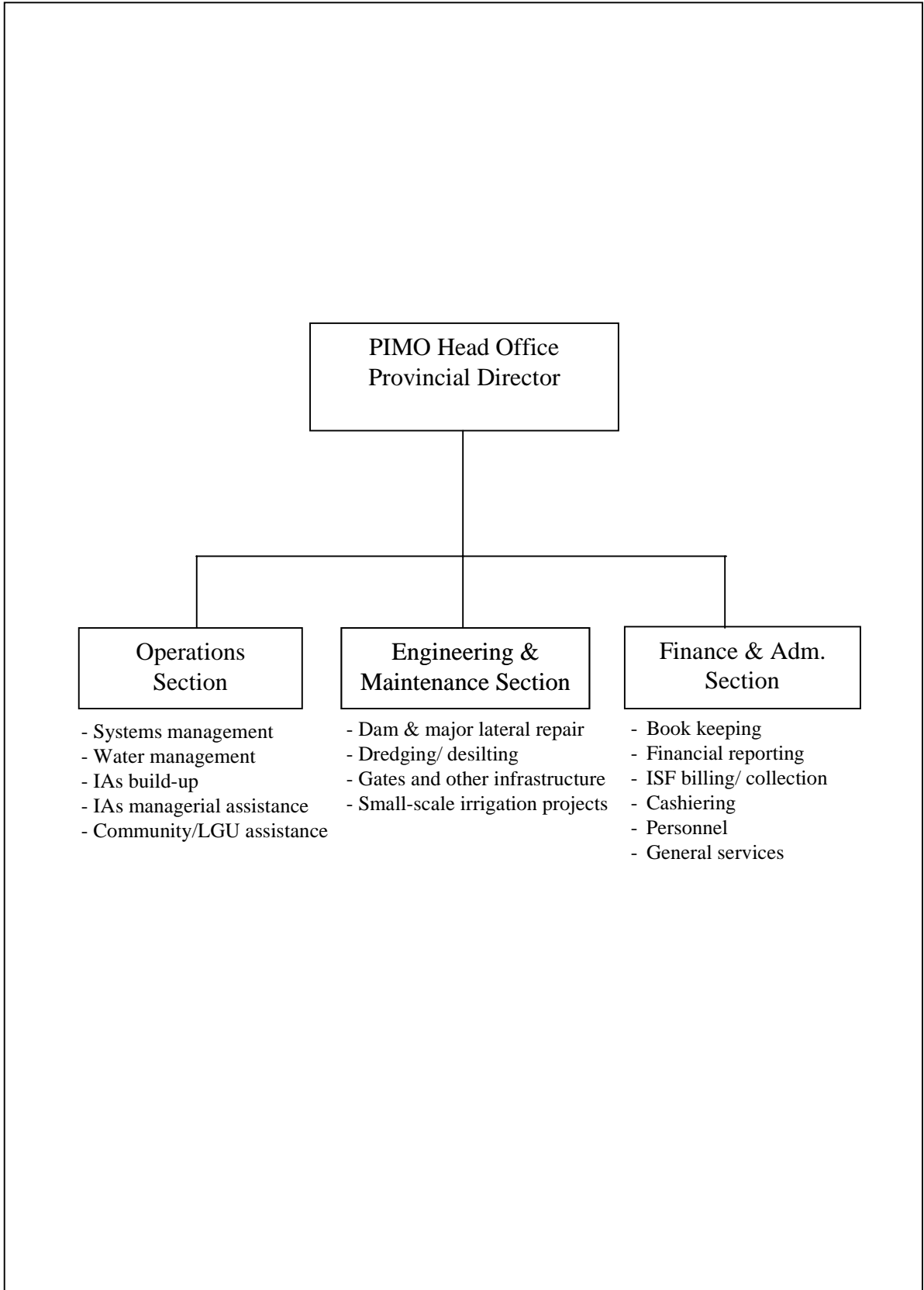


図 7.4 州灌漑管理事務所 (PIMO)の組織案

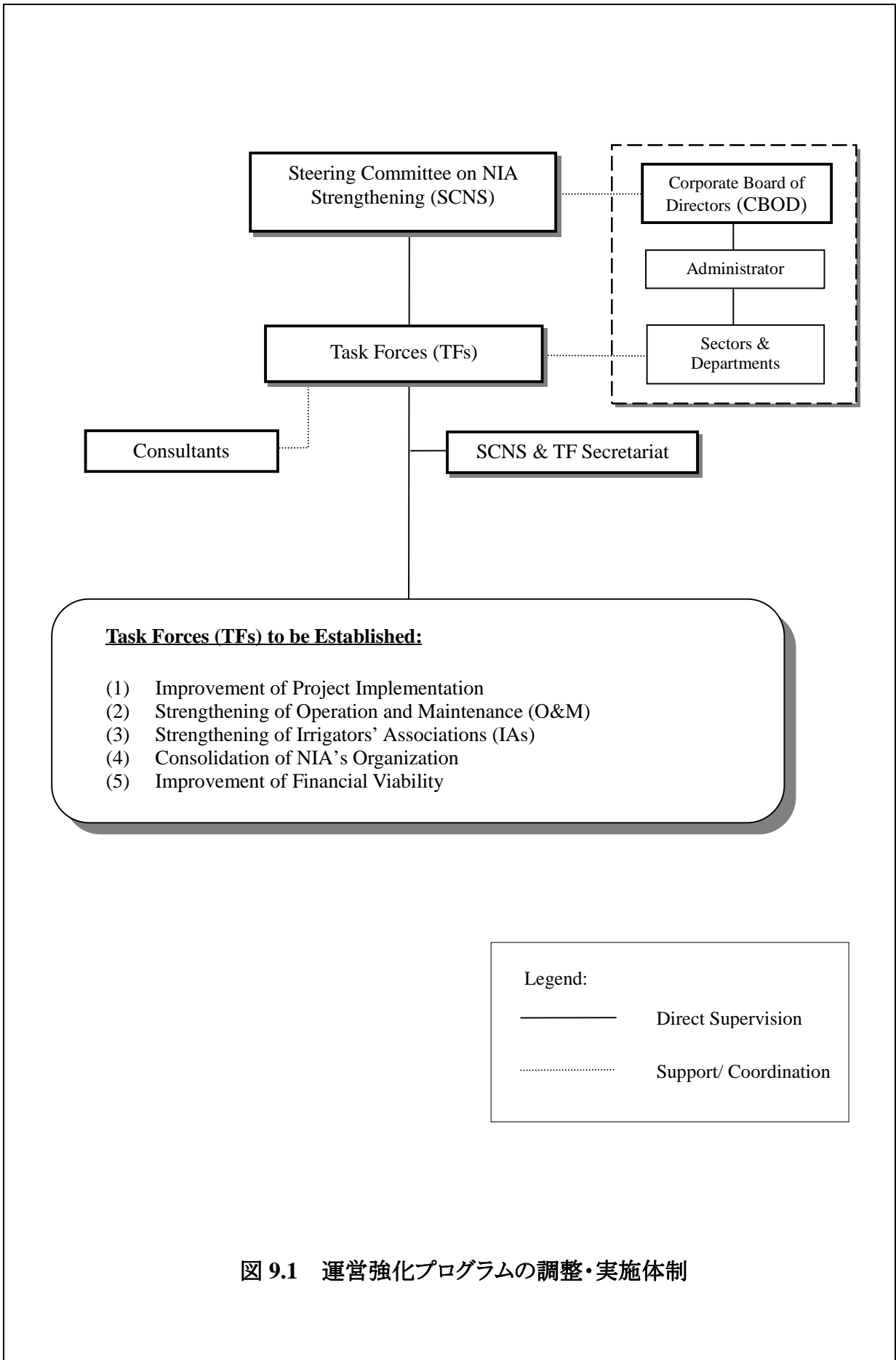


図 9.1 運営強化プログラムの調整・実施体制

図 9.2 運営強化プログラムの実施工程 (1/3)

| Programs and Components | Short-term (2001 - 2004) | | | | Long-term (2005-2009) | | | | | Implementer |
|---|-----------------------------|------|------|------|--------------------------|------|------|------|------|-----------------------------|
| | '2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | |
| 1. Improvement of Project Implementation | | | | | | | | | | TF |
| 1.1 Transfer of Functions of AIOO/PIMO | | | | | | | | | | MSD, Corplan |
| 1.2 Application of Project Monitoring Tools | | | | | | | | | | Office of the AA for PDI |
| 1.3 Updating of Manual/Design Standard and Computerization | | | | | | | | | | DSD, LD |
| 1.4 Facilitation Procurement and Project Implementation | | | | | | | | | | PDI, SOEM |
| 2. Strengthening of O&M | | | | | | | | | | TF/AIOOs |
| 2.1 Strengthening O&M Functions of NISO | | | | | | | | | | SMD, EMD, IDD |
| 2.2 Improvement of Equipment Management System for O&M | | | | | | | | | | EMD |
| 2.3 Enforcement of Capacity Improvement Plan | | | | | | | | | | PIMO (NISO & PIO), IDD, EDP |
| 3. Strengthening of IA | | | | | | | | | | TF/AIOOs |
| 3.1 Preparation and Implementation of a Turnover (IMT) Program of NIS or Laterals to IA/CIA | | | | | | | | | | SMD, IDD |
| 3.2 Monitoring and Assessment of IA Activities | | | | | | | | | | IDD |

図 9.2 運営強化プログラムの実施工程 (2/3)

| Programs and Components | Short-term (2001 - 2004) | | | | Long-term (2005-2009) | | | | | Implementer |
|---|-----------------------------|------|------|------|--------------------------|------|------|------|------|-----------------------|
| | '2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | |
| 4. Consolidation of NIA's Organization | | | | | | | | | | SCNS/TF |
| 4.1 Strengthening of the NIA's Management System | | | | | | | | | | TF |
| 4.1.1 Restructuring of Corporate Board of Directors (BOD) | | | | | | | | | | CBOD |
| 4.1.2 Strengthening of Policy and Planning Function | | | | | | | | | | CORPLAN |
| 4.1.3 Establishment of the Management Information System (MIS) | | | | | | | | | | EDP |
| 4.1.4 Strengthening of Internal Audit | | | | | | | | | | Management Audit Div. |
| 4.2 Restructuring of NIA's Organization | | | | | | | | | | TF |
| 4.2.1 Sliming CO through Decentralization (CO to RIO) and Merging Departments and Divisions | | | | | | | | | | MSD, PRMD |
| 4.2.2 Integrating RIOs to create AIOO | | | | | | | | | | RIO (TF/AIOO) |
| 4.2.3 Integration of NISO/PIO into PIMO | | | | | | | | | | NISO&PIO (TF/AIOO) |
| 4.2.4 Preparation and Implementation of Effective Retirement Program | | | | | | | | | | Personnel Division |
| 4.2.5 Transfer or Re-assignment of Redundant Personnel/New Retirement | | | | | | | | | | Personnel Divison |

図 9.2 運営強化プログラムの実施工程 (3/3)

| Programs and Components | Short-term (2001 - 2004) | | | | Long-term (2005-2009) | | | | | Implementer |
|--|-----------------------------|------|------|------|--------------------------|------|------|------|------|---|
| | '2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | |
| 4.3 Implementing of Training and Retooling Program | | | | | | | | | | Training Administration Section |
| 5. Improvement of Financial Viability | | | | | | | | | | SCNS/TF |
| 5.1 Income Increase from ISF | | | | | | | | | | TF |
| 5.1.1 Increase of the ISF Rate | | | | | | | | | | SOEM (SPS, SMD), Revenue Generation Serv. Div. |
| 5.1.2 Increase of ISF Collection Efficiency (up to 70% in 2010) | | | | | | | | | | SMD, TD, LD |
| 5.2 Increase of Management Fee (5% to 7%) | | | | | | | | | | Corplan, CD |
| 5.3 Income Increase from Other Sources | | | | | | | | | | TF |
| 5.3.1 Acceleration of Disposal of Non-performing Assets | | | | | | | | | | Records Management Division |
| 5.4 Cost Reduction and Saving | | | | | | | | | | SCNS/TF |
| 5.4.1 Elimination of Functional Duplication & Staff Redundancy | | | | | | | | | | MSD, PRMD |
| 5.4.2 Acceleration of Retirement Program (Continuation of 4.2.4) | | | | | | | | | | Personnel Div. |

Legend:

- : Preparatory Study and/or Preparation of Works
- : Program Implementation
- : Follow-up/Maintenance Work
- : Periodical Monitoring
- : Evaluation

Note: The above Strengthening Programs and their Implementation Schedule were discussed/confirmed in the Consultation Task Force (CTF) meetings and workshops with participation of the representatives from the agencies concerned and NIA Top Management (including IACC/ITF).