

The Project for Strengthening of Survey of Kenya for GIS Promotion in The Republic of Kenya

DATE: 29th November, 2006

VENUE: AICAD Conference Hall

AN OVERVIEW OF THE PROJECT INCEPTION REPORT

Presented By:

B N Owino

Deputy Project Manager

Outline of Presentation

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 - 1.2. Goal
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 - 1.4. Project Design Matrix (PDM)
2. Basic Policies
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6. Project Joint Coordinating Committee
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1. Project Purpose

1.1 Background

- ❑ The establishment of KNSDI, which aims at sharing the use and efficient management of spatial information in Kenya, is captured in the current National Development Plan (2002-2008) which underscores its importance in National development. Survey of Kenya was nominated as the coordinator and implementing agency of the project.
- ❑ The Departments capacity as related to GIS which is the basis for developing the KNSDI is still low.
- ❑ The GOK requested Government of Japan for technical assistance in carrying out the project. On receipt of the request, JICA dispatched an evaluation study team in mid March 2006. Discussions were held with participating organizations from Kenya and as a result it was recognized that it was necessary to promote the application of GIS as an initial step in establishment of the KNSDI.
- ❑ Finally, it was agreed that a project would be implemented aiming at strengthening the capacity of the implementing agency in order to promote the application of GIS.

1.2 Goal

Project Goal

- ❑ To build capacity in the SOK in order to promote geo-information sharing in Kenya.

Expected Outcomes

- ❑ SOK's capacity for reliable map digitizing will be improved to promote geo-information sharing in Kenya.
- ❑ Standards will be formulated for the Kenya National Spatial Data Infrastructure.
- ❑ Resources will be developed for GIS dissemination.

1.3 Project Scope

Project Area

- ❑ Base for Activity: City of Nairobi is the base for the activities.
- ❑ Selected Range for Each Activity: The whole country, The Republic of Kenya.

Partner Organizations

- ❑ Implementing Agency : Survey of Kenya (Project Managers)
- ❑ Partner Organizations : KISM, AICAD, KEBS, DRSRS
- ❑ Joint Coordinating Committee(JCC): Kenya side (Ministry of Lands, Ministry of Finance, KISM, Central Bureau of Statistics,DRSRS and any other co-opted members), Japan side (JICA consultants and JICA Kenya Office), Observers (RCMRD and Embassy of Japan)
- ❑ Relationship with other Agencies: Information or data from the project will be used in other JICA or donors projects to promote sharing of the project results.

Project Scope: Based on PDM (See next page)

The Project for Strengthening of Survey of Kenya for GIS Promotion in The Republic of Kenya

1.3 Project Scope (cont.)

Project Design Matrix (PDM)

The Project for Strengthening of Survey of Kenya for GIS Promotion

Cooperation Period : 2006 ~ 2008. (2 years.)
 Target Group : SOK and other related organizations

Implementation Agency : Survey of Kenya (SOK), Ministry of Land, JICA
 Working Area : Nairobi

Ver. : 1
 Made on October 3rd, 2006

Narrative Summary	Indicators	Means of Verification	Important Assumptions				
Super Goal National Spatial Data Infrastructure (NSDI) is constructed.	1. GIS users can collect necessary information from the web page. 2. GIS users can receive technical support from relevant organizations.	- SOK Web site - Documents of related org.					
Overall Goal GIS utilization is promoted.	1. Utilization of GIS will be promoted by 2010.	- Documents of related org.	- Demands for GIS utilization will be increased. - Hardware and software for GIS will become common. - The direction of the government for the use of national spatial data will be maintained. - Institutional rules for NSDI will be elaborated.				
Project Purpose The capacity of SOK's staff for promotion of GIS utilization is enhanced.	1. Number of organizations using SOK's services will be increased. 2. Related organization will appreciate the services of SOK.	- Questionnaire for GIS users	- Related organizations are positive to GIS promotion.				
Outputs 1. SOK's capacity for reliable map digitization is improved for GIS promotion. 2. Spatial data infrastructure is standardized. 3. Resources for GIS are maintained and improved.	1. Productivity of map digitizing will be improved. 2. The specifications for spatial data infrastructure developed by the project, will be appreciated by related organizations (WG) of NSDI. 3-1. Trainees will be satisfied with the training provided by SOK. 3-2. Clearing house will be in place. 3-3. Nairobi City sample map will be posted on the web page. 3-4. The guidelines for geospatial data supply will be in place.	- Project documents - Questionnaire to the WG - Website - Questionnaire for trainees	- The trained staff of SOK in this project will be retained.				
Activities 1. To analyze map digitizing methods used in SOK. 1. To formulate a manual to improve the map digitizing process based on the analysis results. 1. To formulate a digital map database and to implement quality control. 1. To build capacity of SOK's staff on the above mentioned technical skills. 2.1 To survey the present condition of GIS data preparation/ supply in Kenya. 2. To formulate and publish draft specifications of SOK's spatial data infrastructure for use by the survey organizations. 3. To survey the condition of GIS utilization of organizations which are using or planning to use GIS. 3. To formulate and conduct necessary training in order to introduce GIS. 3. To elaborate metadata sets based on the survey results of "2.1" 3. To establish a clearing house on the web. 3.5 To publish a sample map of Nairobi City on the web. 4. the survey result of "2.1" 4. To manage the computer network and maintain the web pages. 4. To build capacity of SOK staff on the above mentioned technical skills.	<table border="1"> <thead> <tr> <th colspan="2" data-bbox="630 908 1386 936">Inputs</th> </tr> <tr> <th data-bbox="630 936 1119 965">Kenyan Side</th> <th data-bbox="1119 936 1386 965">Japanese Side</th> </tr> </thead> <tbody> <tr> <td data-bbox="630 965 1119 1323"> 1. Assignment of counterparts personnel - Project Manager - Deputy Project Manager - Map Digitizing - Standardization - GIS Training - Clearing house/ Metadata - Information Technology/ Communication - Data Supply - Secretaries, etc. 2. Facilities - Japanese experts room - Telephone line and Internet facility, etc. 3. Project expenses </td> <td data-bbox="1119 965 1386 1323"> 1. Assignment of Japanese experts Leader - Map Digitizing - Training - GIS Standardization - Clearing house/ Metadata, etc. 2. Equipment - Computer - Hardware - Software - Others 3. Training fee in Japan </td> </tr> </tbody> </table>	Inputs		Kenyan Side	Japanese Side	1. Assignment of counterparts personnel - Project Manager - Deputy Project Manager - Map Digitizing - Standardization - GIS Training - Clearing house/ Metadata - Information Technology/ Communication - Data Supply - Secretaries, etc. 2. Facilities - Japanese experts room - Telephone line and Internet facility, etc. 3. Project expenses	1. Assignment of Japanese experts Leader - Map Digitizing - Training - GIS Standardization - Clearing house/ Metadata, etc. 2. Equipment - Computer - Hardware - Software - Others 3. Training fee in Japan
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			- Appropriate budget of the Kenyan side will be secured. - Adequate number of counter part personal will be - The related organizations will be cooperative.				
			Preconditions				

Impacts from the Project

Goal

Outputs

Indicators

Important Assumptions

Activities

Inputs Kenya

Inputs Japan

2. Basic policies of Project

1. Support strengthening of Survey of Kenya's capacity as a lead agency.

- Build confidence amongst partner organizations on SOKs role.
- Ensure continuity of capacity building.

2. Develop map digitization methodology.

- develop work manuals based on local conditions.
- Establish quality control techniques and create map databases based on KNSDI standards.

2. Basic policies of Project (cont.)

3. Formulate KNSDI Standards based on International Standards (ISO)

- ❑ Organize workshops on KNSDI Standards.
- ❑ Organize KNSDI Standards Seminars.

4. Develop Resources to Disseminate GIS Based on Needs

- ❑ Carry out different training needs assessments for existing and potential users of GIS.
- ❑ Conduct training.
- ❑ Create Metadata specifications.
- ❑ Publish City of Nairobi digital maps on the SOK website.

2. Basic policies of Project (cont.)

5. Smooth Project Implementation

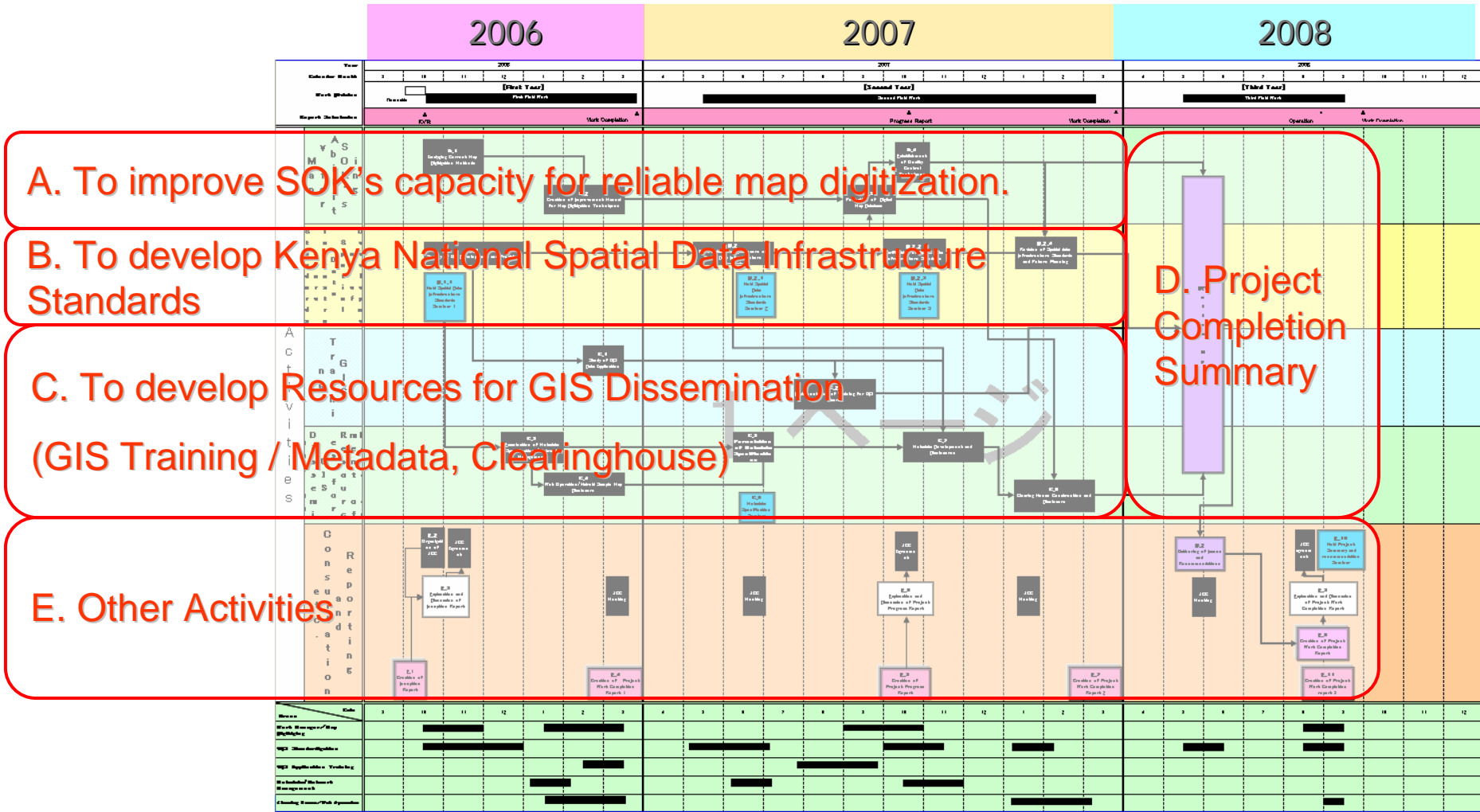
- Close cooperation amongst related parties such as the Chief Advisor, SOK and KNSDI committees and technical working groups will be promoted.

6. Copyright and Security of Geo-information

- KNSDI communication system will strive to constantly provide security to geo-information and establish systems with adequate security features as a priority.

3. Project Objectives

3.1. Flow of Activities



3. Project Objectives

3.1. Flow of Activities (cont.)

A. To improve SOK's Capacity for Reliable Map Digitization.

- ❑ Analyze Current Map Digitization Methods.
- ❑ Prepare Manuals for Improvement of Map Digitization Techniques.
- ❑ Create Digital Topographical Map Databases.
- ❑ Establish Quality Control Techniques.

B. To develop KNSDI Standards

- ❑ Survey of GIS Development and Provision
- ❑ Formulation and Disclosure of Spatial Data Infrastructure Standards

C. To develop Resources for GIS Dissemination

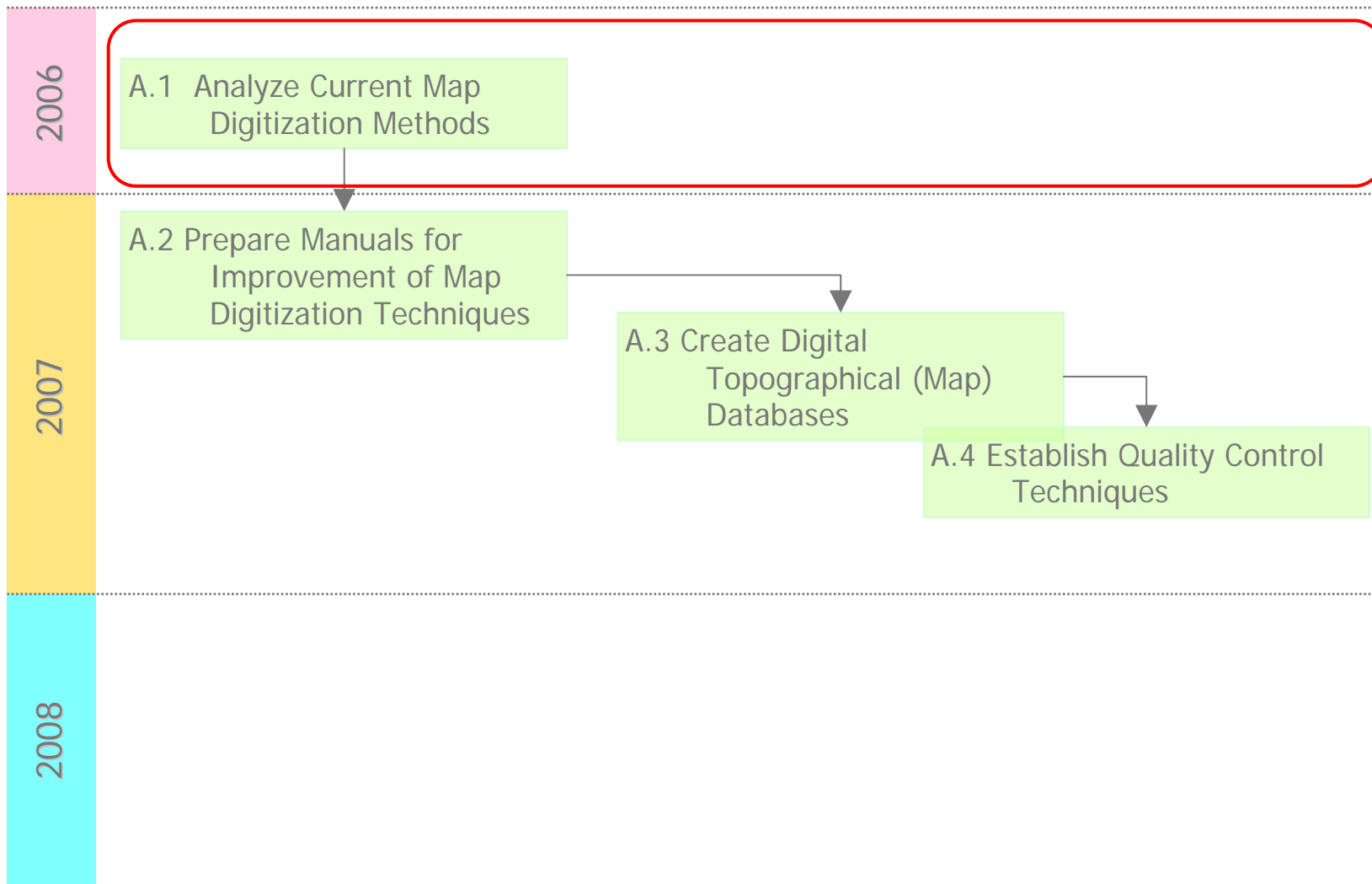
- ❑ Carry out training needs assessment of GIS users.
- ❑ Conduct Training for GIS Users
- ❑ develop Metadata
- ❑ Establish a Clearing House
- ❑ Operationalize SOK website/Publish City of Nairobi digital Maps.
- ❑ Publish Manuals and guidelines of geospatial data supply.
- ❑ Manage Computer Network and maintain SOK web page.

D. Follow up and Recommendations

E. To Prepare Project Reports and Organize Joint Coordinating Committee Meetings

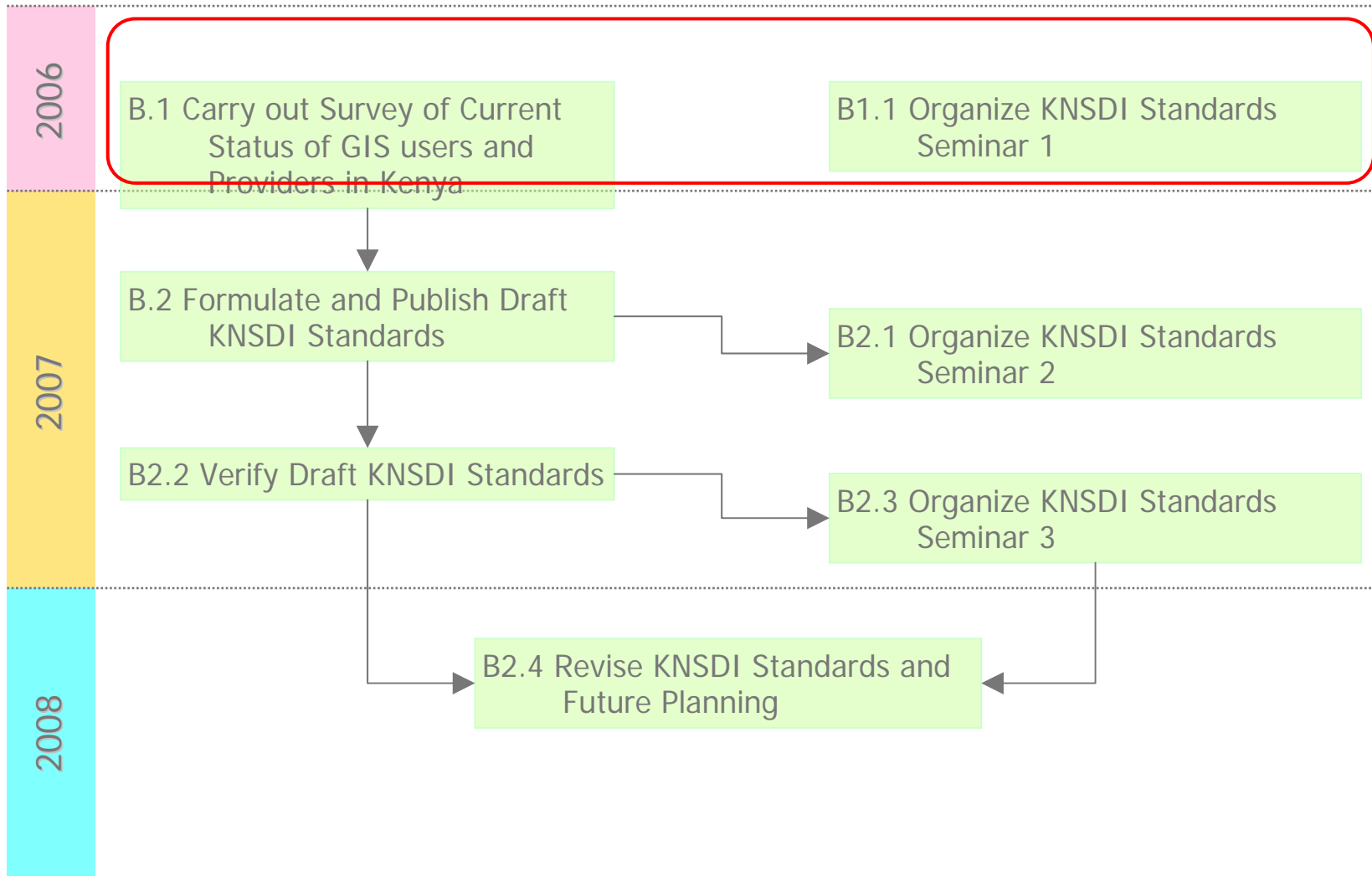
3.2 Implementation Plan

A. To Improve SOK's capacity for reliable Map Digitization



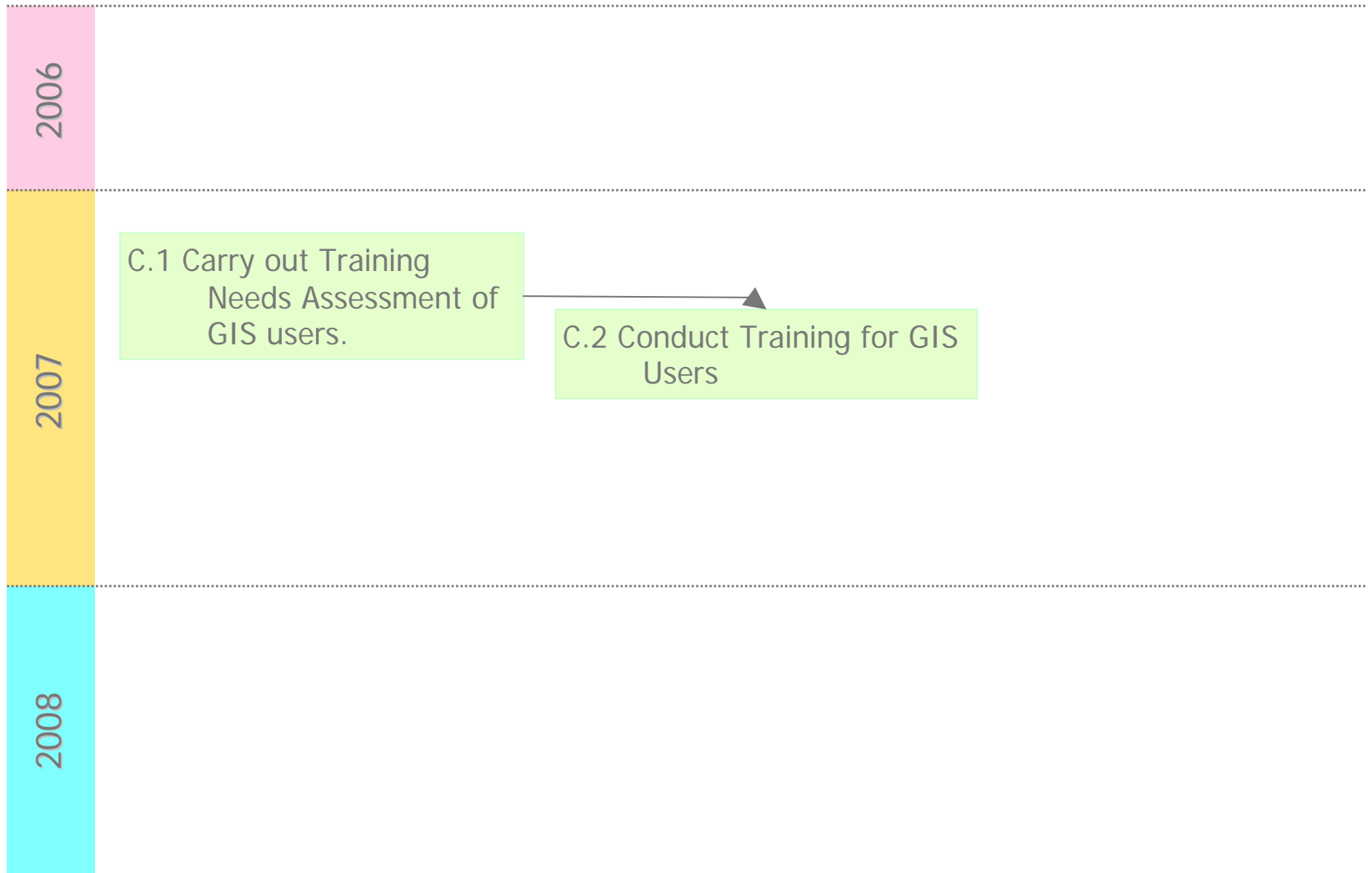
3.2 Implementation Plan

B. To develop KNSDI Standards



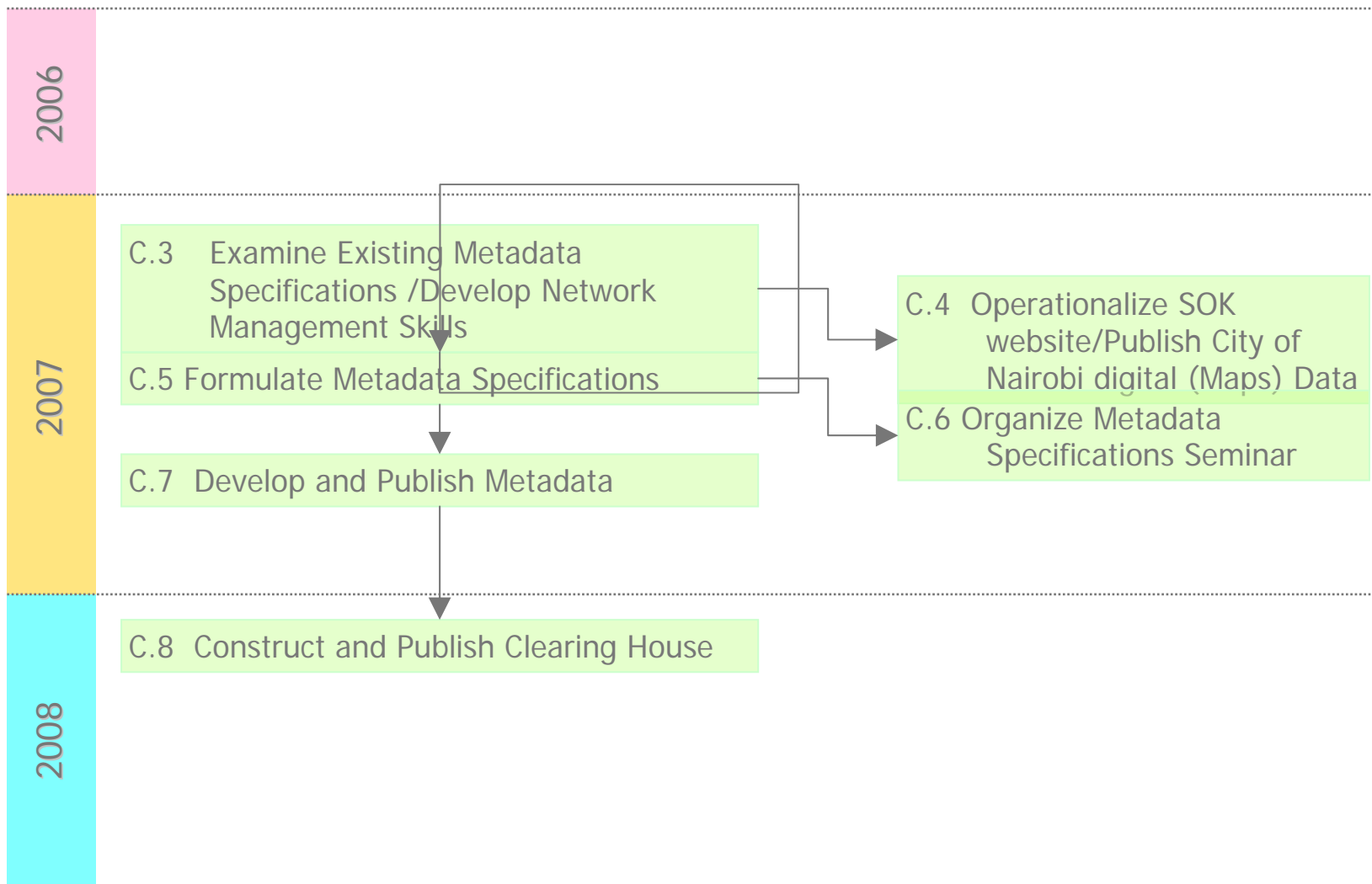
3.2 Implementation Plan

C. To develop Resources for GIS Dissemination (GIS Training)



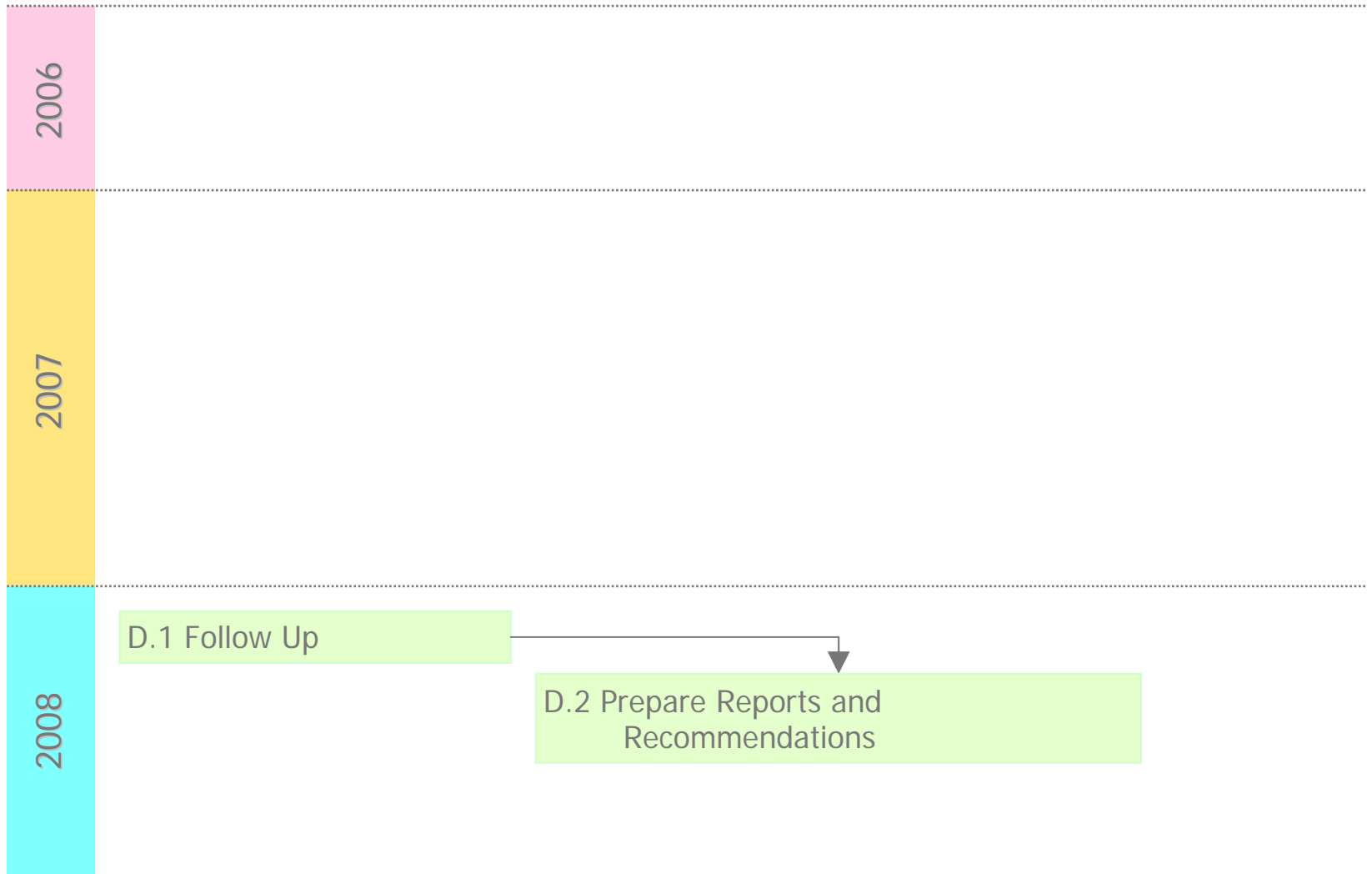
3.2 Implementation Plan

C. To develop Resources for GIS Dissemination (Cont.) (Metadata, Clearinghouse)



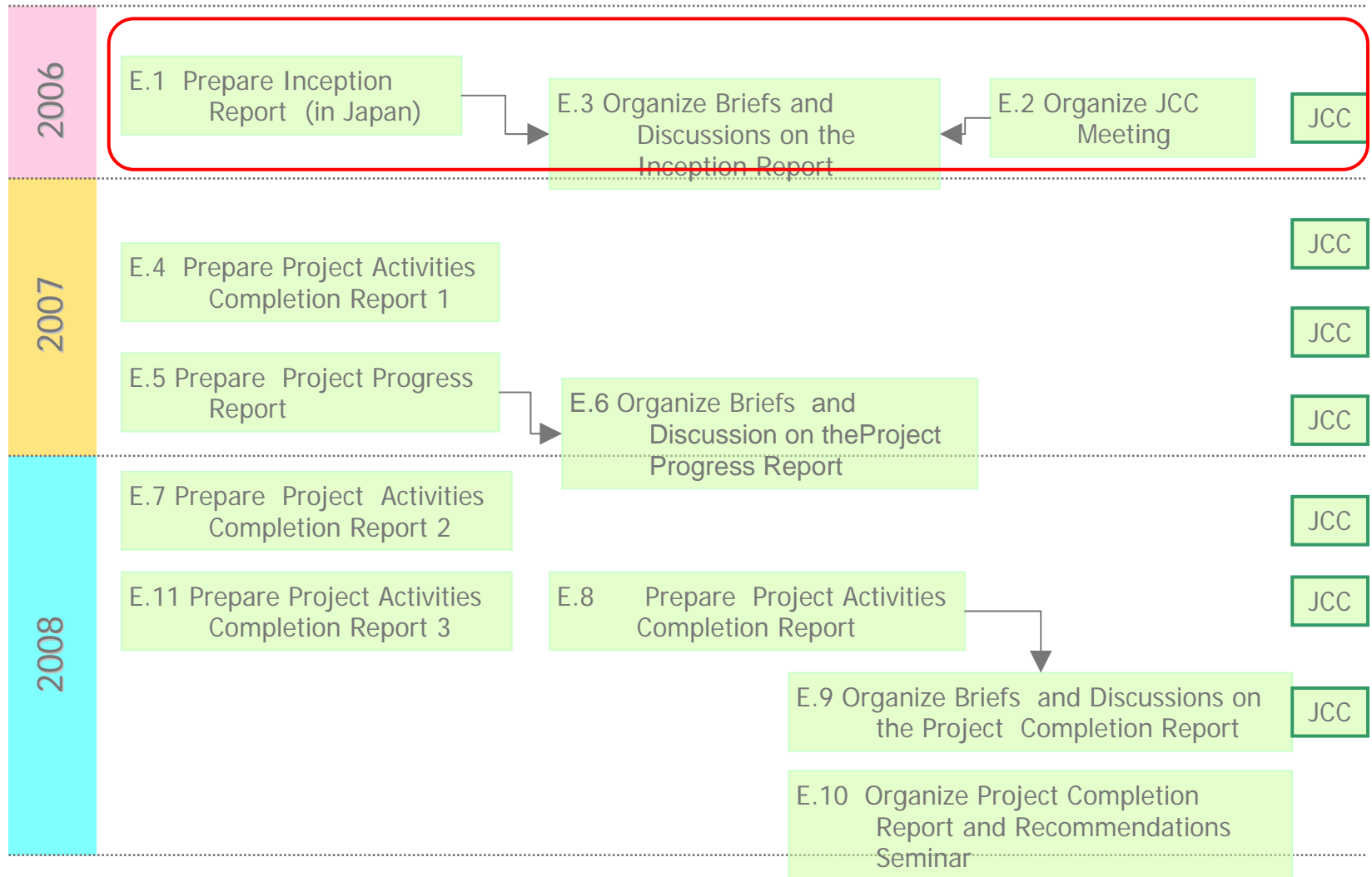
3.2 Implementation Plan

D. Project Report Summary



3.2 Implementation Plan

E. Other Activities



3.3 Method of Monitoring and Evaluation

1. Basic Monitoring Policies


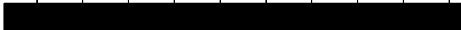


- Monitoring will be carried out in collaboration with the JICA consultants and SOK.

2. Monitoring Implementation Plan

- Evaluate Progress of the Project Based on PDM
- Analysis of Project Status from Monitoring and Evaluation Reports.
- Examine Future Implementation Plan.

4 . Project Program

4 . 1 Work Schedule

	2006					2007					2008																			
	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3						
Work in Kenya	← First Year →					← Second Year →					← Third Year →																			
	 First Year Phase in Kenya					 Second Year Phase in Kenya					 Third Year Phase in Kenya																			
Work in Japan	 Domestic Work																													
Report	▲ Inception Report					▲ Work Completion					▲ Progress Report					▲ Work Completion					▲ Bussiness					▲ Work Completion				

- 凡例 :
-  Work in Kenya
 -  Work in Japan
 - ▲ Report Creation

Development of Manuals and Guidelines

- ❑ Output: Manuals for GIS dissemination are developed.
- ❑ Indicator: Resources for GIS (e.g. a guideline of geospatial data supply) are published on the SOK web page.



- ❑ To develop guidelines for Geo-data supply, copyright and security by the SOK.

6. Project Joint Coordinating Committee

The JCC will be established for the effective and efficient implementation of the project. JCC will meet every six months or whenever necessary.

6.1 Functions

- ❑ To approve the projects annual work plans and budget.
- ❑ To review projects overall progress and annual expenditure.
- ❑ To review and exchange views on major issues arising from or connected with the project.

6. Project Joint Coordinating Committee cont.

6.2 Composition

Kenyan Side

- ❑ Permanent Secretary, Ministry of Lands
- ❑ Director, External Resources Department, Ministry of Finance
- ❑ Project Manager
- ❑ Deputy Project manager
- ❑ Principal, KISM
- ❑ Director, CBS
- ❑ Director, DRSRS
- ❑ Any other Co-opted member when need arises.
- ❑ Observers: Director General, RCMRD

Japan Side

- ❑ Resident representative of JICA Kenya Office
- ❑ Japanese experts
- ❑ Observers: Representative from the Embassy of Japan when necessary

ARIGATO