

Section B:
Project to develop programme
Guidelines





Stage 1:
Information gathering, consultations and surveys

B

G1

Objective of Stage 1

To gather information and understand the issues, challenges and problems in the water supply and sanitation sector in the programme area from the viewpoint of both government staff at various levels and communities themselves, so that the planning is based on the real context of the area.

Introduction

Information gathering is necessary to understand the whole context of the proposed programme. The members of the Planning Team may be very familiar with their working situations, but it can still be very useful for them to step out of the day-to-day work and take a fresh look at the context. Information needs to be gathered on social, economic and health issues, as well as the technical aspects of water resources and supply and sanitation.

It is essential that views at all levels are taken into account. This includes the beneficiaries' views of their own problems and needs. The information-gathering process addresses this by looking at each different level — central, provincial or regional, and district — and by carrying out sample surveys in villages. Background information and statistical data should also be collected at each level. As far as possible, participatory methods should be used. The village surveys are consolidated in Village Needs Assessment Workshops with village representatives in each district.

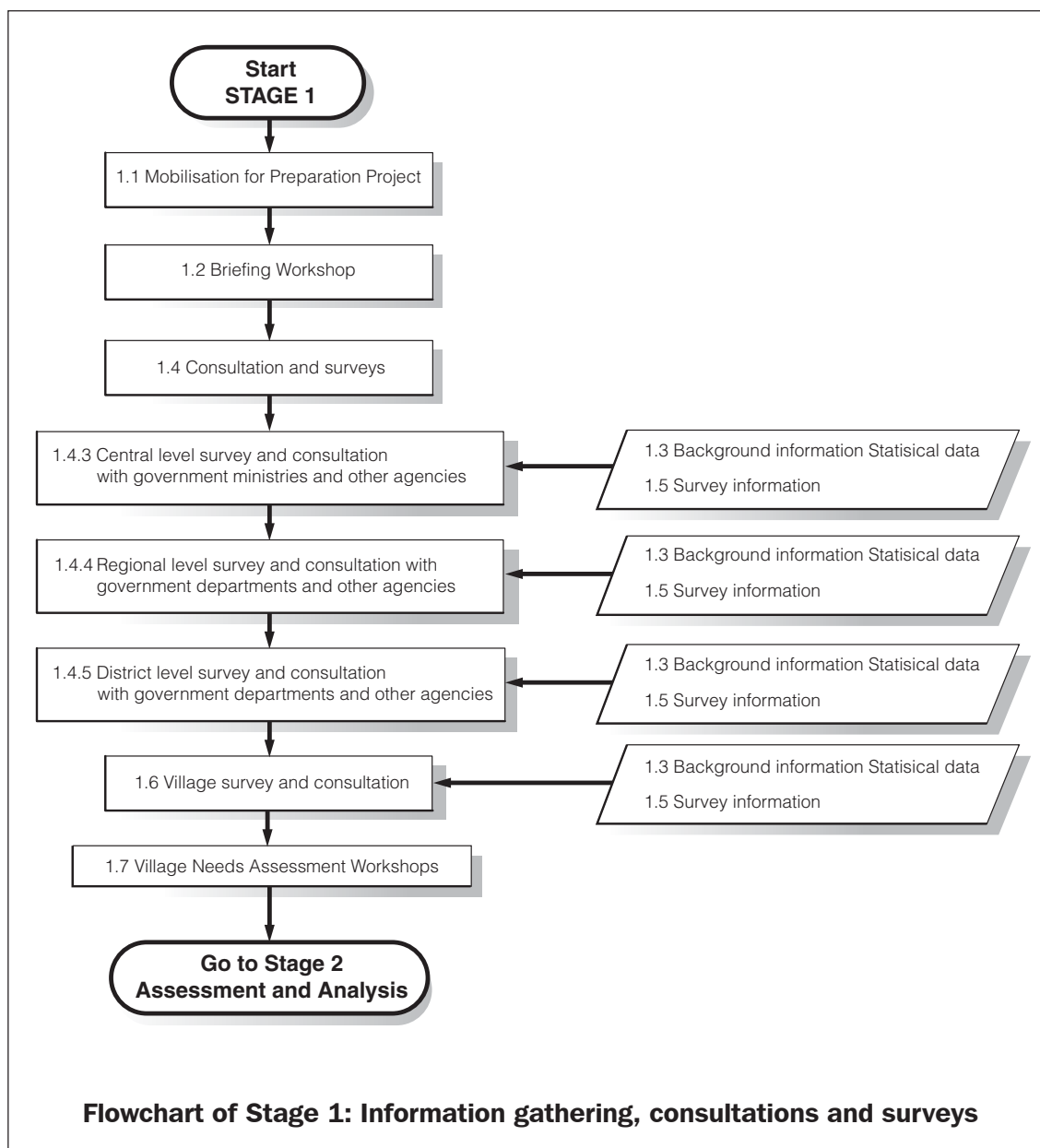
As shown in the **Flowchart of Stage 1**, Stage 1 starts with a **Briefing Workshop** for the Planning Team. This has two parts. The first is an introduction to the Guidelines and Manual and the proposed planning process. The second part is for training on the methods and techniques to be used. For some members of the Team, this should be a useful refresher in participatory methods, for others it may be an introduction to the techniques. Overall, it should build confidence in the Team so that they are better able to undertake consultations and surveys.

The **Consultation and surveys** cover the three levels of government administration, central, regional or provincial, and district, with **Statistical data** and **Background information** being collected at each level.

For the **Village surveys and consultations** the Team should work together with appropriate staff from the district administration who may be more familiar with village work. Then the village surveys are consolidated for each district by holding a **Village Needs Assessment Workshop** with representatives from each of the communities visited in the district. This is the villagers' chance to analyse their own situation and to define their needs and expectation of the programme, which is intended to be for them.

Definitions

Background information:	information about the context in which the water supply and sanitation sector works
Statistical data:	statistics from official reports and other documents
Survey:	systematic collection of information
Consultation:	meetings and discussions with people to understand the issues and problems in the sector



B

G1



G1.1 Mobilisation for Preparation Project

Formation of Planning Team

The Preparation Phase in Section A describes the points to consider and the type of people required for a Planning Team (GA3, MA4 and MA6). The actual people now have to be selected and appointed, and/or seconded from other ministries and department.

To ensure a cohesive and effective Team, it is important to select staff with the appropriate seniority and experience. The Team should be compatible in terms of government grading. Based on the pilot study in Zambia, the grading of a Team Leader as a professional manager with 15 years of experience or more would be appropriate. The other members of the Team should be from a similar or lower grade for a technical specialist. It is important not to appoint people who are too senior. They are likely to have many other calls on their time, so may not be able to concentrate full-time on the Preparation Project. Tensions between Team members may be caused if specialists have a much higher grading than the Team Leader. All Team members should have substantial experience in their professional field, probably not less than 10 years.

The appointment of suitable administrative support staff will also have to be arranged.

Consultants

One of the original concepts behind the Guidelines was that governments should be able to design their own programmes without the need for external consultants. The experience from the pilot study in Zambia shows that this may be too optimistic. The Zambian team clearly had the ability to plan and design a programme — what they lacked was the experience and confidence. Consultants may still be needed, but their role should very different to the traditional one of leading and managing the process. Consultants should be used in a technical advisory capacity, supporting and advising the national Team and providing training where required. Management and control of the process should be the responsibility of the national Team.

Defining the need for consultancy services, writing terms of reference, and selecting and appointing consultants requires special care and attention. The development banks and other organisations may be able to provide guidance on this. The Asian Development Bank has published *Guidelines on the Use of Consultants by Asian Development Bank and its Borrowers*. The International Labour Office has another useful book, *How to select and use consultants: A client's guide* (1993).

Office facilities, equipment and transport

The office accommodation, equipment, transport, etc., as described in Section A (GA9) will have to be arranged in time for the Team to start work.

B

G1

B

G1

G1.2 Briefing Workshop

Making a good start to the Preparation Project is obviously essential, because it will influence how the rest of the relatively short project will proceed and succeed. It is also important to have a clear start to the project. To help with this, it is recommended that a Briefing Workshop be held for the Core Planning Team and other people who will join the Team for parts of the process. The objectives for this workshop are:

- to enable the Planning Team to get to know each other and start team building;
- to enable the Planning Team to understand the Guidelines and the assignment;
- to help the Planning Team understand the approaches to be used, which may be different to their normal procedures;
- to promote a common understanding of and commitment to the process; and
- to refresh the Team's participatory assessment skills.

This meeting may need to last for three days, including training in participatory methodologies. Full session plans for the Briefing Workshop are given in the Manual (M1.2).

B**G1**



G1.3 Background information and statistical data

G1.3.1 Maps of the programme area

Various types of map will be useful for setting the context for planning and programme design and for understanding aspects of the programme areas. Table G1.3.1 gives a checklist of possible types of map.

Table G1.3.1: Types of map

Type of map	Check
Topographic	<input type="checkbox"/>
Administrative boundaries	<input type="checkbox"/>
Roads	<input type="checkbox"/>
Geological	<input type="checkbox"/>
Hydrogeological	<input type="checkbox"/>
Rainfall	<input type="checkbox"/>
Settlement patterns	<input type="checkbox"/>
Population density	<input type="checkbox"/>
Land use	<input type="checkbox"/>
Aerial photographs	<input type="checkbox"/>
Satellite imagery	<input type="checkbox"/>

More detail on maps is provided in the Manual (M1.3.1).

B

G1

G1.3.2 Institutional arrangements

Information on the institutional arrangements should be collected during the consultations and surveys at each level.

Organisations

It is important to identify all the organisations working in and/or contributing to the sector. These may be broadly classified as follows:

- government
- donor
- international organisations and NGOs (operational)
- local NGOs
- private sector

Table M1.3.2, in the Manual (M1.3.2), can be used to compile a list of relevant organisations and show their areas of responsibility or skills. During the consultations and surveys organisations can be added to the table as they are identified.

Co-ordination, policy-making and regulation/control

The present responsibility for co-ordination in the sector should be defined and the mechanism recorded. An assessment of whether the system is working will form part of the survey and consultation at the different levels.

Roles and responsibilities in policy-making and regulation and control should be defined. Table M1.3.2 can be used to list these.

Types of implementation and activities

The different specialist areas of implementation and activities should be identified, by organisation. This will help to show up areas where there is limited capacity or coverage, and any complete gaps in coverage. Table M1.3.2 should help in this process.

B

G1

G1.3.3 Government legislation, policies and plans

Copies of any legislation and policies relevant to the sector should be obtained, including copies of drafts if in process. Table G1.3.3a suggests some of the possibilities.

Table G1.3.3a: Legislation and policies relevant to the sector

	Check
water resources	<input type="checkbox"/>
rural water supply	<input type="checkbox"/>
sanitation	<input type="checkbox"/>
health	<input type="checkbox"/>
gender	<input type="checkbox"/>
rural development	<input type="checkbox"/>
NGOs	<input type="checkbox"/>
agricultural water use	<input type="checkbox"/>
industrial water use	<input type="checkbox"/>
	<input type="checkbox"/>
	<input type="checkbox"/>

Similarly, copies of government plans and donors' plans should be obtained and any parts dealing with the above areas highlighted. Table 1.3.3b shows relevant types of plans.

Table G1.3.3b: Plans relevant to the programme

	Check
Five-year plans (or other planning period)	<input type="checkbox"/>
rolling plans	<input type="checkbox"/>
sector plans and reviews	<input type="checkbox"/>
donors' plans	<input type="checkbox"/>
NGOs' plans	<input type="checkbox"/>
	<input type="checkbox"/>
	<input type="checkbox"/>

B**G1**

G1.3.4 Population

Population growth rates are needed to estimate the number of people to be served in the future, in accordance with the time horizon for the programme.

More detailed information on aspects such as:

- urban and rural populations;
- populations in each district or sub-division of the area;
- settlement patterns;
- populations densities; and
- migration, etc.

will help to refine the programme design and enable particular groups to be identified and targeted.

Wherever possible, this statistical data should be dis-aggregated by gender and age, that is, the figures for men, for women and for children should be given separately, as well as the totals. This is to analyse whether women's needs and men's needs and contexts are the same or different. Dis-aggregated statistics can also be used for monitoring to ensure that different gender needs are being met.

There may be various sources for such data, at the different administrative levels — central, regional and district. An important document would be the most recent census from the government statistics office. The following list suggests this and other possible sources:

- census
- other government documents
- statistics office
- other government departments
- local knowledge
- surveys
- other programmes and project data

More detail on population data is provided in the Manual (M1.3.4).

B

G1

G1.3.5 Socio-economic information

People are the reason for any development programme or project. Thus it is essential to understand the social, cultural and economic characteristics of the people in the programme area in order to develop a programme that fits their needs, aspirations and circumstances. This understanding must include the dynamics of gender — the roles of women and men, girls and boys, and the relationships between them. If these are ignored or not understood, the prospects for the success of the programme may be adversely affected.

More detailed information on aspects such as:

- ethnic and religious sub-groups;
- occupations of people;
- sources of income;
- assets and income;
- types of economic systems;
- literacy rates;
- women-headed households; and
- disabled people; etc.

Again, wherever possible, this information should be dis-aggregated by gender and age. There may be various sources for such data, at the different administrative levels — central, regional and district. An important document would be the most recent census from the government statistics office. The following list suggests this and other possible sources:

- census
- other government documents
- statistics office
- other government departments
- local knowledge
- surveys
- other programmes and project data

More detail on socio-economic data is provided in the Manual (M1.3.5).

B

G1

G1.3.6 Water resources

All water supply programmes require a proper understanding of all the available resources, their quantity and sustainability, quality, and the location and accessibility of water resources. There are three broad areas of enquiry:

- **Climate:** rainfall, evaporation, trends, major zones
- **Geography:** topography, drainage basins, geomorphological zones, land use and soils
- **Geology:** rock type, rock distribution, nature and depth of weathered zone, and the degree of aquifer confinement

Much of the data for the programme area is likely to be available at central level sufficient to make a broad assessment of the water resource potential. The form of the data may vary but typically could include that shown in Table G1.3.6.

Table G1.3.6: Water resources data

Form of data	Comments
Rainfall distribution map	scales from 1:50 000 down to 1:500 000.
Evaporation records	from climate data collected at meteorological stations or from evaporation pans
Distribution of evaporation	zoned ranges of evaporation, regionally and according to elevation. May need to extrapolate for programme area.
Long-term rainfall records	monthly rainfall returns for some stations, perhaps up to 25-year record. May need to extrapolate for programme area.
River and stream water-level and flow records	either from fixed flow gauging stations or from current meter gaugings at other sites
Surface water flow hydrographs	
Inventories of hand-dug wells and drilled wells	Rural water supply programmes may hold inventories of waterpoints. Drilling records and borehole logs may be kept centrally by the appropriate department.
Topographical maps	at scales between 1:50 000 and 1:500 000, with streams, rivers, and lakes and catchment divides
Geomorphology	can be derived for the programme but may exist as national or provincial syntheses
Land use and soil distribution maps	may be available for some areas, perhaps not all. Aerial photographs or satellite images enable a rapid assessment to be made of land use. Soil type may be derived from the geological map if otherwise not available.
Geological maps	at a scale of 1:50 000 and less are available for many areas. These portray the type and distribution of particular rock types. Information on weathering and the availability of confined water-bearing strata not apparent from the maps may only be forthcoming from earlier project reports and studies. These data may not be fully available at the beginning of the water resources assessment.

The process of bringing the data together, identifying shortfalls in the data holdings, and providing a meaningful assessment of the water resources potential of the programme area are described in a series of assessment analyses in the Manual (M2.2.5).

More detail about understanding and assessing water resources is provided in the Manual (M1.3.6).

G1.3.7 Water supply and waste disposal

A major part of this data-gathering and assessment exercise is to find out what water supply and waste disposal facilities already exist in the programme area. Data gathering falls broadly into three areas:

- water supply coverage
- water usage
 - domestic
 - agricultural
 - urban
 - industrial
 - recreation
- latrine coverage
- latrine usage
- solid waste disposal facilities
- pollution from waste disposal

This should provide a number of pieces of basic information:

- existing coverage with improved water facilities
- use of traditional water sources
- existing patterns and trends
- existing coverage with improved sanitation facilities
- traditional methods for disposal of excreta
- information on existing technical choices
- yield and quantity of water facilities
- particular problems and problem areas

These data can then be used for the hydrogeological and hydrological assessments (M2.2.5) and to provide additional information regarding existing use of the available water resource and the stress placed on the resource from waste disposal.

Much of the data required to carry out the water supply and waste disposal assessments are likely to be available at government and project level. In this case, however, the programme will need to validate the existing situation during the village consultations and surveys. These surveys should identify failures of waterpoints, disuse of waterpoints in favour of traditional sources, and identify problems (mechanical, hydrogeological, institutional or other) that have occurred with waterpoints. These data are fundamental to the programme design and enable the planners to draw on past experience.

More detail on water supply and sanitation coverage and targets is provided in the Manual (M1.3.7).

B

G1

G1.3.8 Hygiene promotion

Hygiene promotion is a process which aims to promote the conditions, attitudes and practices that help to prevent water- and sanitation-related diseases. It is an important component of water supply and sanitation programmes for two reasons: to maximise the potential benefits of improved water supply and sanitation facilities, and to help users to appreciate the need for their proper operation and maintenance to create willingness to contribute to their costs (Boot, 1991). Hygiene education is a part of hygiene promotion.

To prevent water- and sanitation-related diseases and to improve living conditions, facilities have to be used, continuously, by everybody and in a safe way. This requires an interest from both communities and officials. Integrating hygiene promotion with other aspects of water supply and sanitation programmes requires skilful planning and management (*ibid.*). The starting point for this planning is to understand what is currently being done, and what priority is given to hygiene promotion.

Information is needed on a number of different aspects of hygiene promotion, as shown in Table G1.3.8. Detailed questions to obtain this information and forms for compiling it are given in the Manual (M1.3.8, M1.3.9).

Table G1.3.8: Aspects of hygiene promotion

Aspect	Detail
Funding	<ul style="list-style-type: none"> government departments and organisations providing funding for hygiene promotion budget allocations clarity of budget lines
Organisations	<ul style="list-style-type: none"> place of hygiene promotion in organisation of water and sanitation sector organisations implementing hygiene promotion other organisations undertaking or supporting aspects of hygiene promotion collaboration and co-ordination amongst government departments, donors and NGOs in hygiene promotion the role of schools in hygiene education and promotion
Implementing capacity	<ul style="list-style-type: none"> human resources for implementation supporting resources
Health services and facilities	<ul style="list-style-type: none"> planned and actual health care service provision
Health statistics	<ul style="list-style-type: none"> top ten diseases (morbidity) for adults and children incidence of water- and sanitation-related diseases infant mortality rate
Health policy and planning	<ul style="list-style-type: none"> health policies of the various organisations health plans of the various organisations health planning procedures of the various organisations international initiatives on hygiene promotion

G1.3.9 Health statistics

It is important to collect data on the incidence of the most common diseases (morbidity) to see whether these include water- and sanitation-related diseases. This is needed for advocacy and to justify the water and sanitation programme and the place of hygiene promotion within it.

The diseases and the ranking of their occurrence may be different at the national, regional and district levels. It is important to remember that health statistics are usually based on cases that are referred to the health care systems (at village health posts, clinics and hospitals). The many cases where people are ill but do not get treatment or go to traditional healers are unlikely to be included. Thus, the official statistics may grossly under-represent the true incidence of infectious diseases. Official and unofficial statistics should, therefore, be collected at each level.

A classification system based on transmission routes of infectious water- and sanitation-related diseases has been developed (Cairncross and Feachem, 1993). This is very useful because it helps to show where interventions can be made to reduce the incidence of these diseases. Form M1.3.9 is structured using this classification system. The infant mortality rate (IMR) (0 to 1-year-old) is a sensitive barometer to assess the health of a population. It can differ by area and circumstances, so it can be used to compare the health of different populations in, for example, different geographical areas or different population groups. It is also very important to understand the occurrence of diseases caused by the chemical quality of groundwater, especially arsenic and fluoride.

Form M1.3.9 in the Manual (M1.3.9) can be used to compile the statistics from the various organisations and sources during the consultations and surveys. Possible sources of health statistics are listed in the manual.

B

G1

G1.3.10 Funding

As part of the consultation and survey at the different levels, data should be gathered on the funds allocated to the sector by each organisation. This should include both past expenditure and future budgeted or planned spending. To enable a complete picture to be made of the past expenditure, it is probably best to collect the information for the last complete year, with the same year for each organisation. When gathering information from donors and implementers, care should be taken to ensure that funding is not double-counted.

Form M1.3.10 in the Manual (M1.3.10) is provided for collecting funding information from each organisation.



G1.4 Consultations and surveys – central, regional and district

G1.4.1 Interviewing

Virtually all the consultations are based on the Team interviewing officials and staff of government departments and organisations. Some of these people may be very senior, others may be much more junior than the person doing the interviewing. Interviewing successfully, which means obtaining the information that is wanted, is a skill that may come naturally to some people, but needs developing in others. The Manual (M1.4.1) provides some points to help in developing these skills. Practice in interviewing is provided as part of the Briefing Workshop (M1.2, Session 6).

**B****G1**

G1.4.2 Central-level consultation and survey

The purpose of the consultation and survey exercise at central level is to understand the policies, views and practices, and the strengths and weaknesses of the government departments and other organisations that will manage, implement and be involved in the programme. This knowledge will be analysed in the Planning Workshop so that objectives and activities can be planned to strengthen the organisations for their roles.

The various organisations should already have been identified as part of the background information collection (G1.3.2 and M1.3.2). The list will probably include the organisations shown in Table G1.4.2.

The consultation on views and practices should include the following:

- sector policies
 - understanding
 - application and practice
- organisation's roles and responsibilities
- organisation's activities
 - plans
 - programmes
 - projects
 - processes
- organisation's future plans and developments
- capability of organisation
- capacity of organisation
- funding
- co-ordination
- perceived issues, challenges, constraints and problems in the sector and facing the organisation

These are described more fully in the Manual (M1.4.2) with suggestions for basic questions to start discussions.

Subject-specific information (e.g. water resources, hygiene education) is covered separately as part of Background information (M1.3) and Survey information (M1.5).

Background information and data, as described previously, should also be collected from each organisation as appropriate.

B

G1

Table G1.4.2: Organisations at central level

government ministries and departments	Water Resources Health Rural Development Planning Public Works Agriculture Education
donors: multilateral	World Bank Asian Development Bank African Development Bank European Union etc.
donors: bilateral	SIDA DANIDA DFID GTZ USAID FINNIDA NORAD CIDA JICA etc.
international organisations and NGOs (operational)	UNICEF UNDP World Health Organisation WaterAid Plan International ActionAid Oxfam CARE etc.
local NGOs	
private sector	national drilling companies consultants contractors manufacturers resource centres training organisations

B**G1**

G1.4.3 Regional-level consultation and survey

The purpose of the consultation and survey exercise at regional level is to understand the policies, views and practices, and the strengths and weaknesses of the government departments and other organisations that will manage, implement and be involved in the programme. This knowledge will be analysed in the Planning Workshop so that objectives and activities can be planned to strengthen the organisations for their roles.

The various organisations should already have been identified as part of the background information collection (G1.3.2 and M1.3.2). The list of organisations to consult will probably include some of those shown in Table G1.4.4.

The consultation on the views and practices of the organisations should include the following:

- sector policies
 - understanding
 - application and practice
- organisation's roles and responsibilities
- organisation's activities
 - plans
 - programmes
 - projects
 - processes
- organisation's future plans and developments
- capability of organisation
- capacity of organisation
- funding
- co-ordination
- perceived issues, challenges, constraints and problems in the sector and facing the organisation

These are described more fully in the Manual (M1.4.3) with suggestions for basic questions to start discussions. Subject-specific information (e.g. water resources, health education, O&M) is covered separately (M1.3 and M1.5).

Background information and data, as described previously, should also be collected from each organisation as appropriate.

Table G1.4.3: Organisations at regional level

government departments	regional government water resources health rural development	planning public works agriculture education
international organisations and NGOs (operational)	UNICEF WHO WaterAid Plan International	ActionAid Oxfam CARE etc.
local NGOs	Community-based organisations (CBOs)	
private sector	drilling companies contractors	

G1.4.4 District-level consultation and surveys

The purpose of the consultation and surveys at this level is similar to that at regional level, i.e. to obtain the views and practices of the organisations and agencies involved in the sector. See G1.4.3 for the overview and the Manual (M1.4.4, M1.3 and M1.5) for details.

There is, however likely to be a crucial difference in approach at this level, particularly if members of the Core Team are from central level. The intention at district level is not to find out what the formal policies and procedures are, it is to discover the district staff's own understanding and interpretation of these policies. They are the ones who are actually implementing them. They are the ones who are best placed to understand the problems and difficulties of applying the policies.

The interviews with district staff may be especially sensitive if members of the Core Team are associated with making policy at central level. The district staff may be reluctant to discuss the practical realities and problems if they are seen to be criticising policies made by the interviewers. It may also generate a reaction of defensiveness in the interviewers, leading to denial of facts. It is important to establish confidence and trust so that a frank, open expression of views is possible. A demonstrable willingness to learn by the interviewers will help in this. If it works, the results can provide a valuable lesson for everyone.

B**G1**



G1.5 Survey information gathering

G1.5.1 Water resources and uses

Knowledge of how water from the various resources is allocated for different uses is important for later assessment of the demand on each resource. It is also important to understand if there is any conflicting demands for the water between the different uses and users, and whether there are any water rights issues in the area.

Form M1.5.1 in the Manual (M1.5.1) can be used as a basis for discussion with local officials responsible for water supplies.

G1.5.2 Rural water supplies — Summary

The Manual gives forms to help in summarising the information gathered at regional and district levels on water resources and the technologies currently used to abstract the water (M1.5.2).

B**G1**

G1.5.3 Operation and maintenance of rural water supplies

Obviously, it is essential that handpumps and other types of water supply facilities continue to function after they have been constructed. Some form of operation and maintenance (O&M) system should have been established to enable this to happen. As part of the exercise of information gathering and analysis, it is necessary to assess how well the O&M system is working. If no formal system was established, information on the informal maintenance arrangements should be gathered. The methodology proposed (M1.5.3) is based on and adapted from Cotton *et al.* (1994).

The method is divided into two parts. During the fieldwork, information needs to be collected on various aspects of the O&M system at regional, district and village levels. A number of forms are provided for recording this information in a systematic way. This will be assessed in the Analysis section to establish a number of performance indicators for the O&M system.

O&M management systems

Firstly, it is necessary to categorise the type of operation and maintenance system which is in place. There are a number of ways of organising O&M management. The essential differences relate to the degree of involvement of the user community, the role of the public institutions and levels of government, and the role of the private sector. For practical purposes, systems can be classified into three categories, although in practice systems may be anywhere in a range between them:

VLOM: Village Level Operation and Maintenance (and Management):

All routine inspections and minor repairs are carried out by trained people from the community, often known as caretakers or village maintenance workers. There is a mechanism for support, and the reporting of and repair of major faults. There is minimum intervention by external agencies.

Area-mechanic maintenance:

A trained, locally based mechanic carries out repairs, involving the community to a greater or lesser extent.

Centralised maintenance:

A team of trained technicians travel out from a depot to inspect and repair facilities. Communities have little if any input apart from sending requests for repairs to be done. It is most common for the public sector to provide this service, although the private sector may be involved.

- What type of O&M system is in place?

VLOM	<input type="checkbox"/>
Area-mechanic maintenance	<input type="checkbox"/>
Centralised maintenance	<input type="checkbox"/>
No formal system	<input type="checkbox"/>
Other arrangement	

Performance indicators

To enable the performance of the operation and maintenance system to be monitored and managed, a number of indicators have been developed. These have been adapted for this manual so that an assessment of the current performance of the operation and maintenance system can be made and any problems identified. The performance and problems will later be analysed in the Planning Workshop to improve any deficiencies in the O&M system.

The performance indicators (PI) are divided into groups:

- service
- financial
- personnel
- materials
- work order control

More explanation of each of these PIs is given in Information and data analysis (G2.2.4 and M2.2.4)

Forms for collecting the information and data that will be used to calculate these PIs are given in the Manual (M1.5.3). These should be copied and one completed for each district, and then collated for the region. **It is important to check and verify the information given by district offices during the sample survey of villages.**

G1.5.4 Community pumps: The users' views

It is important to understand how pumps and pump technology work from the users' point of view. Issues to be explored during the Village consultation and surveys include:

- ownership
- how they operate and maintain the pump
- how they get support and assistance if required
- sources and availability of spare parts
- how much it costs them to run the pump
- if a motorised pump, how they obtain and pay for fuel/electricity and lubricants

For each individual village with a pump, the villagers and pump users should be asked for this information. Forms to collect this information in each village are given in the Manual (Forms M1.5.3A and B and Form M1.6.6).

B**G1**



G1.6 Village consultation and survey

It has been widely recognised in the past decade or so that users themselves should be fully involved in any projects which affect them. There may be limitations on how much they can be involved in designing a programme, but to inform the planning and design process it is essential to gather at village level as much information about the conditions that the beneficiaries themselves face in their lives. They should be enabled to voice their ideas, opinions and problems, and what they themselves define as their needs.

G1.6.1 Selection of villages

Obviously it is impossible to visit every village and community in the area, so it will be necessary to choose a representative sample. The actual number of villages to select depends on a number of factors. If the programme area is complex socially, ethnically or geographically, then more villages will have to be covered than if the area is fairly uniform. This has already been considered in outline in the Preparation Phase (MA7) in order to plan the overall time needed to carry out the Preparation Project. Now it is necessary to consider this in more detail and to adjust the original estimate if necessary.

The Manual provides a way of calculating the number of villages that need to be included in the sample survey for each district (M1.6.1). This takes into account the social and geographic complexity of the area, including factors such as the number of ethnic groups, the topography, use of surface water or groundwater, and use of improved or traditional water supplies.

The actual selection of villages is best done in consultation with district officials during the District-level consultation and surveys. If it has to be done in advance in order to give time to inform villagers of the intended visit, criteria for selection can be drawn up and sent to the districts for them to make the selection.

Time required

At least two days in each village should be allowed to carry out the consultation and survey. Time to travel to and from the each village should be added. If it is feasible, the survey team staying overnight in the village would help to build confidence with the villagers, which could result in better information and understanding.

Team for survey

The team to carry out the village consultation and surveys should include local staff from the district concerned. Possible staff include:

- community worker or extension agent
- water and sanitation engineer or hydrogeologist
- health worker
- teacher
- agricultural extension agent


B
G1

G1.6.2 Participatory process and methods

There are a number of subjects that need to be understood from the communities' points of view for the programme planning and design. To enable communities to be fully involved in their own development, the concept of Participatory Rural Appraisal (PRA) has evolved as one possible approach. A number of exercises and methodologies have been designed for this, some of which will be appropriate for obtaining the views of a sample of villages. These include:

- Semi-structured interviewing
- Key informant interviews
- Group interviews
- Focus group discussions
- Mapping
- Seasonal calendars
- Pocket charts
- Observation
- Environmental tours

An explanation of participatory processes and details of the relevant methods are given in the Manual (M1.6.2).

B**G1**

G1.6.3 Village survey issues and methods

Table G1.6.3 shows the subject areas, with key points for each subject, and possible methods to use to obtain this information. The application of these is shown in the Manual (M1.6.3), together with fuller explanations and forms for recording the information gathered, as follows:

M1.6.4 General background information on village

M1.6.5 Village water supplies

M1.6.6 Community pumps

M1.6.7 Village sanitation

M1.6.8 Community participation

M1.6.9 Health and hygiene beliefs and behaviour

M1.6.10 Group discussions

M1.6.11 Community health and beliefs

M1.6.12 Hygiene behaviour

B**G1**

Table G1.6.3: Subject areas to understand from communities' point of view

Subject	Key points	Methods
Water resources	<ul style="list-style-type: none"> sources of water management of water in community and area water rights types of water technology in village floods and droughts seasonal 	<ul style="list-style-type: none"> interviews with key informants observation environmental tour mapping seasonal calendar of water source availability and use
Water use	<ul style="list-style-type: none"> uses of water quantities of water allocation for different uses and priorities future plans for water exploitation 	<ul style="list-style-type: none"> focus group discussions observations questionnaire
Maintenance	<ul style="list-style-type: none"> system of maintenance water and sanitation committees who carries out maintenance and repairs cost sharing/recovery reliability of water point 	<ul style="list-style-type: none"> interviews with key informants questionnaire
Health, hygiene and diseases	<ul style="list-style-type: none"> community health community beliefs about health and disease hygiene behaviours domestic environment use of water 	<ul style="list-style-type: none"> focus group discussions checklists observation interviews with key informants seasonal calendar of diseases
Sanitation	<ul style="list-style-type: none"> understanding of sanitation present practice regarding defecation number and type of latrines in village use of latrines, condition solid waste 	<ul style="list-style-type: none"> focus group discussion observation environmental tour interviews with key informants mapping three pile sorting
Socio-economics	<ul style="list-style-type: none"> number of people (disaggregated by gender, age, social grouping) number of households occupations, incomes and assets social organisations and groups, leadership gender issues educational levels clinic or health post primary and/or secondary school 	<ul style="list-style-type: none"> focus group discussions interviews with key informants
Environment	<ul style="list-style-type: none"> deforestation soil condition, soil erosion wastewater drainage pollution of water resources and sources land use 	<ul style="list-style-type: none"> focus group discussion environmental tour with community members
Community-defined needs and problems		<ul style="list-style-type: none"> focus group discussions
Interest in water and sanitation programme	<ul style="list-style-type: none"> priority in list of needs/problems willingness to manage planning and implementation of village project willingness to contribute to construction (time, labour, materials, money) willingness to pay for O&M 	<ul style="list-style-type: none"> focus group discussions
Community participation (experience and potential)	<ul style="list-style-type: none"> previous village projects future development plans 	<ul style="list-style-type: none"> focus group discussions observation of previous projects

B

G1

G1.7 Village needs assessment workshops

The purpose of these workshops is to enable the views of communities, including their own perceptions of issues and problems and solutions, to be prepared for inclusion in the Planning Workshop.

The participants of the workshops should be representatives from each of the villages that are visited during the village survey and consultation. Each village should send two or three representatives, including at least one woman. In case any representatives are unable to read easily, it may be necessary to provide helpers to assist with the written material in the workshop.

The workshop itself takes one day, with one or two days for preparation in advance. It is suggested that one workshop is held in each district.

A methodology for organising and running these workshops is provided in the Manual (M1.7).

B**G1**



Stage 2:
Assessment and analysis

B

G2

Objective of Stage 2

To produce a draft outline programme based on a thorough assessment, analysis and understanding of the programme area and the issues and challenges in the water supply, sanitation and hygiene promotion sector.

Introduction

The information and data that has been gathered has to be processed and analysed. There are several parts to this, as shown in the Flowchart of Stage 2.

Data processing (2.1 on Flowchart) is the numerical analysis of statistical information. The processed data may summarised for presentation during the Planning Workshop.

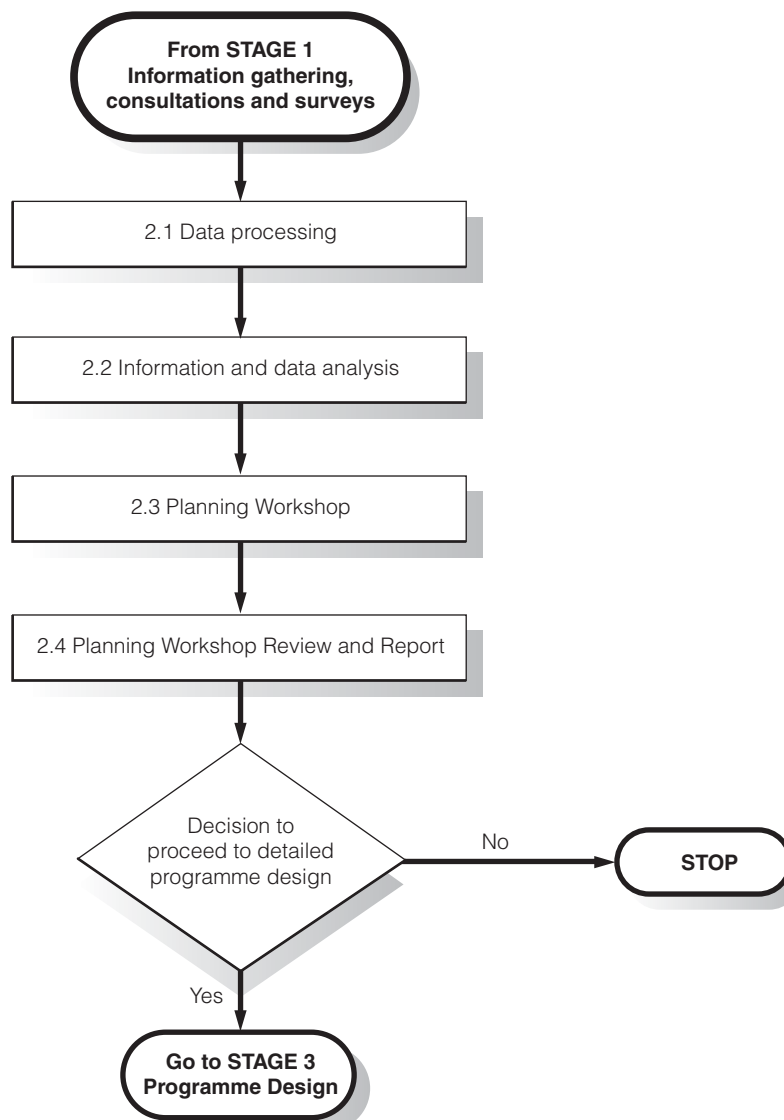
Information and data analysis (2.2) is the assembly and comparison of data and information from different sources, in order to understand particular issues and identify potential problems. The information, data and analysis is summarised for presentation and recorded for use in the various reports that will be prepared as part of the Preparation Project.

The summaries are prepared for presentation in the **Planning Workshop (2.3)**. This participatory workshop is the core of the whole planning process. Representatives from the various different levels (including villages) and various areas of expertise should be invited to this workshop. The workshop uses participatory methods such as problem identification and problem tree analysis to set objectives in each of the areas, and SWOT analysis to look at the institutions in the sector.

The output from the workshop is then **reviewed (2.4)** and compared with the original Terms of Reference for the Preparation Project. A **report** should be prepared for submission to the relevant authority for a decision on whether or not to continue to Stage 3: Programme Design.

B

G2



Flowchart of Stage 2

B

G2



B



G2

G2.1 Data processing

G2.1.1 Population data

The basic source of information should be the most recent census. Important things to draw out of the data are the statistics for:

- total population
- population by district
- population by gender and age
- urban and rural populations
- population densities
- households
- female-headed households

To be able to compare data from different sources it will be necessary to bring them to a common date. The most important comparison will be present population with present coverage of water supply and sanitation. It is likely that the latter figures will be the most recent, so population data will have to be increased by the growth rate with any significant changes such as migration or refugee influxes. It will then be necessary to project figures forward for planning purposes.

Thus two sets of calculations will be needed. Spreadsheets for these calculations are given in the Manual (Forms M2.1.1A and B). These can either be photocopied and used to make the calculations manually, or they can be entered into a computerised spreadsheet programme such as Excel or Lotus 1-2-3 with the formulae for automatic calculation.

These will be crude calculations that do not take account of factors such as changes in disease patterns, for example reduction in mortality rates as a result of improved water supply and sanitation. For present planning purposes, however, they are probably adequate.

B**G2**

G2.1.2 Finance

One way of checking whether or not a programme is integrated is to look at the allocation of budgets from all the agencies involved in the sector, including the community contributions in terms of cash, labour and materials, and the private sector. If it is possible from the data collected, it is useful to classify the total amounts of money allocated to and dispersed to the following categories:

- Water supply
 - new construction
 - rehabilitation
 - operation and maintenance
- Sanitation
 - promotion
 - construction of latrines
 - solid waste
- Community organisation, mobilisation and training
- Hygiene promotion
- Water resource management

There may be other categories if the information is already organised in that way. For example, training, transport capital costs and transport running costs may be shown separately, but it is more useful if these can be assigned to the particular component in the main list.

The source of the funding may also be important. It is useful to distinguish between funds generated from the community, funds from local and national sources, and international donor funding. This can indicate the reliance on, and possible vulnerability to, one funder.

Forms for compiling and analysing this information are provided in the Manual (M2.1.2).

B

G2

G2.1.3 Coverage of water supply and sanitation

The processing of this data will depend on the way the different organisations define and present their figures. If there is wide variation in the figures and they cannot be reconciled — or if figures are not easily available — it may be necessary to present these variations. These cases could be highlighted as problems for the Planning Workshop to consider.

The easiest way to present this sort of information is to tabulate it. It is useful to present figures as both actual numbers and as percentages of the total number of people or households. It may also be important to distinguish between systems that are operational and systems that have broken down or are in need of rehabilitation.

Possible categories to distinguish levels of coverage could be:

- types of water supply — improved and traditional unprotected sources
- distance to source
- types of latrine

Figures for coverage should be updated to include construction since the figures were produced. This can be done simply by adding the construction or implementation figures for each year to the official figure. Care should be taken that these are *actual* construction, not what was planned.

An example of the presentation of water supply coverage taken from the First Pilot Study of these Guidelines in Zimbabwe is in the Manual (M2.1.3).

B**G2**

G2.1.4 Disease statistics

Disease statistics gathered from central, regional and district offices and from village health posts is best tabulated so that patterns can be seen and interpretations made. Tables for this are provided in the Manual (M2.1.4). Data gathered from the communities in villages is not statistically valid and should be processed and analysed in a different way. Forms are provided in Manual (M2.1.5).

Important points to bring out of the data include:

- the number of the top ten diseases of adults listed that are water- and sanitation-related;
- the number of the top ten diseases of children listed that are water- and sanitation-related;
- infant and under-5 mortality rates;
- any variations between national and regional figures, between regional and district, and between districts; and
- any variations in percentage terms between village health posts and district figures.

Care should be taken with data and statistics for several reasons:

- The data for adults and children may not be disaggregated but lumped together.
- It is likely that health data collected from institutions, e.g. health clinics and hospitals, underestimate the true disease incidence, as these figures only record the cases which have attended clinics and hospitals.
- Health data issued by governments and other organisations may differ and a range of figures may be available, e.g. it is common to see different estimates of infant mortality rates for the same population.
- Health data may be available as actual numbers of cases rather than in the form of rates.

B

G2

G2.2 Information and data analysis

A number of issues need to be considered when planning a rural water supply, sanitation and hygiene promotion programme. These issues are inter-related — solutions to one cannot be developed without considering the others. The complexity of these inter-relationships is shown as a matrix in Table G2.2.

The inter-relationships of these issues emphasise the need for integrating the planning and implementation of rural water supply and sanitation programmes. This is not easy to achieve. A number of different professional disciplines are involved. They are not disciplines that naturally relate to or understand each other — especially technicians (engineers and hydrogeologist/hydrologists) with social development people. The separation of responsibilities into different government ministries also complicates the process.

Information and data analysis involves assembling and comparing data and information from different sources, by different specialists, in order to understand particular issues and identify potential problems.

There are three phases to understanding a complex subject¹:

- simplistic — when everything seems obvious
- complex — as the implications sink in
- simple again — when insight tames the complications

Guidance on some of the relationships shown in Table G2.2 is given in the rest of this section and the corresponding section in the Manual. Other relationships, for which guidance is not provided, are indicated for the user to think about.

B

G2

¹ paraphrased from Chambers, 1993

Table G2.2: Information and data analysis matrix

Output	Plans			Policies				Procedures				Social Economic				Water supply			Water resources		Sanitation		Hygiene		Organisations		
Social economic	wealth/poverty																										
	community organisation and development methodologies																										
Water supply	coverage and targets																										
	water demand																										
	operation and maintenance																										
	technology choices																										
Water resources																											
	groundwater potential/limitations																										
	surface water potential/limitations																										
Sanitation																											
	coverage and targets																										
Health/hygiene	technology choices																										
Organisations	h/h education effectiveness/needs																										
implementation capacity																											
	finance																										

The shaded boxes show relationships where a decision on an output requires analysis of a variety of types of information and data.

G2.2.1 Policies, plans and procedures

The various policies, plans and procedures should be read and analysed to understand the implications of anything that may be relevant to the water and sanitation sector.

Questions to help analysis:

- What is the implication of the policies, plans and procedures for the sector?
 - Will any roles, procedures or implementation arrangements have to be changed?
 - Are there any limitations or restrictions on the way things can be done?
 - Do the policies, plans and procedures reflect the current thinking in the sector internationally on things like the integration of components, community management and cost recovery?
- Some of these are discussed in G2.4.7.

Policies

From the various policies that have been gathered, abstract anything relevant to the water and sanitation sector. Particular things to note are:

- water resources
- water supply
- sanitation
- health which is relevant to water or sanitation diseases
- health or hygiene education
- social development
- economics related to the sector
- NGOs' roles in the sector and generally

Plans

Plans can be classified as general government plans covering all sectors (e.g. a five-year plan, rolling plans) or as sector-specific.

The **general plans** should be analysed in the same way as policies, abstracting the parts relevant to the sector by using the same list as above.

For **sector-specific plans**, abstract:

- the goals;
- objectives;
- targets and coverage figures; and
- definitions and any other information which is relevant or important to consider for the planning of the new programme.

Procedures

These should be analysed in the same way as policies, abstracting and summarising the procedures relevant to the sector by using the same list as above. Note anything which creates an enabling environment, or will be restrictive.

B

G2

G2.2.2 Interviews²

The consultations and surveys at the various levels involved a number of different types of interview. These included:

- individual interviews
- key informant interviews
- group interviews and discussions
- focus group discussions

Analysis of these can be difficult, because of the wide variety of answers, the different points raised by different people, and the length of some of the answers.

A way to analyse the responses is to summarise each interview into the main points raised. From these it may be possible to make a limited number of categories of response that will help to summarise common views and show dissenting views.

It is worth reporting any particularly interesting responses word for word. Any responses raising problems or issues within the water and sanitation sector should be highlighted and written on 'problems cards' for use in the Planning Workshop (see M2.3, Session 4).

**B****G2**

² This is based substantially on part of Tool 1 in Gosling, L., and Edwards, M. (1995)

G2.2.3 Coverage, targets and implementation capacity

The purpose of this analysis is to establish whether the targets that have been set in the government plans or the Terms of Reference for this programme are realistic and achievable in terms of institutional capacity and finance.

The basic steps to do this are:

1. Compare the present coverage of water supplies sanitation facilities with the target coverage to establish how much work needs to be done.
2. Compare the work that needs to be done with the actual present implementation capacity, for software as well as hardware, of the various organisations working in the sector.
3. Compare the cost of the work that needs to be done with the finance available.

The detailed steps to carry out this analysis are given in the Manual (M2.2.3).

**B****G2**

G2.2.4 Operation and maintenance performance indicators³

O&M management systems

First, it is necessary to categorise the type of operation and maintenance system that is in place. If there is no system, then the informal arrangements for maintenance should be reviewed. There are a number of ways of organising O&M management. The essential differences relate to the degree of involvement of the user community, the role of the public institutions and tiers of government, and the role of the private sector. For practical purposes, systems can be classified into three categories, although in practice systems may be anywhere in a range between the extremes.

VL0M: Village Level Operation and Maintenance (and Management)

All routine inspections and minor repairs are carried out by trained people from the community, often known as caretakers or village maintenance workers. There is a mechanism for support, and for the reporting of and repair of major faults. There is minimum intervention from external agencies.

Area-mechanic maintenance: a trained locally based mechanic carries out repairs, involving the community to a greater or lesser extent.

Centralised maintenance: a team of trained technicians travel out from a depot to inspect and repair facilities. Communities have little if any input. It is most common for the public sector to provide this service, although the private sector may be involved.

O&M performance indicators

To enable the performance of the operation and maintenance system to be monitored and managed, a number of indicators have been developed. These indicators can be used for analysing the current status of the operation and maintenance system to inform the Planning Workshop and prepare the programme design.

During the assessment you should have gathered information which will assist in the calculation and analysis of performance indicators (PIs). The PIs are divided into groups, as shown in Table G2.2.4, with an abbreviation that is used in the survey form (Form M1.5.3A).

Table G2.2.4: Performance indicators for operation and maintenance

▪ service	S	Functioning water points	$\frac{\text{number in working order}}{\text{total number}}$
	S	Reliability	$\frac{\text{functioning time}}{\text{total elapsed time}}$
▪ financial	F	Cost	average O&M cost per user
	F	Revenue	$\frac{\text{operating revenue}}{\text{population served}}$
	F	Cost recovery	$\frac{\text{average user payments}}{\text{average O\&M cost per user}}$
	F	Subsidy	$\frac{\text{O\&M budget allocation}}{\text{O\&M cost}}$
▪ personnel	P		
▪ materials	M		

The method for calculating the PIs is given in the Manual (M2.2.4).

³ This part is based on and adapted from Cotton *et al.*, (1994), *Tools for the Assessment of Operation and Maintenance Status of Water Supplies*, World Health Organisation, Geneva.

G2.2.5 Water resources assessment

For readers not familiar with groundwater, an introduction to the subject with a glossary of terms is provided in Appendix A of the Manual.

During the information-gathering process, various pieces of information and data on the water resources in the area should have been collected. To produce an overall assessment of the water resources, water demand and pollution from waste disposal, a number of individual analyses are proposed. These are summarised in Table G2.2.5. Issues to be considered for the individual assessments are given in the Manual (M2.2.5).

Assessments Nos.1 to 6 are to identify the amounts of water available to recharge groundwater in a given area, the amount of runoff and groundwater base-flow available to sustain surface waters, and the variation in likely available volumes and the return periods of extreme conditions of drought and flood. In addition the geographical and geological constraints to the overall water resources potential should be identified.

Assessments Nos.7 and 8 are to identify the levels of existing and projected future demand for water for various uses, and Assessment No.9 is to identify actual and potential pollution from disposal of wastes.

Table G2.2.5: Water resources assessment

Assessment No. and title	Scope and use of assessment
1. To derive a conceptual model of the hydrological cycle	Basic understanding of the hydrological cycle enables the water resource potential to be identified in broad terms. It also facilitates technical choice with regard to density and type of water abstraction facility. The assessment presupposes availability of basic climatic data and should be used to provide input to the water resources assessment.
2. To estimate drought and flood return frequency	Annual variation of rainfall in low rainfall areas may be large; it is necessary to appreciate the likely range and the frequency of extreme conditions, as well as current climatic trends. This appreciation is used to enable a sustainable water supply system to be planned that will be capable of withstanding the extremes of climate.
3. To evaluate the geographical constraints	Geographical features affect both hydrology and hydrogeology. Thorough evaluation of these features will identify constraints on surface water and groundwater resources. This evaluation is used for the hydrogeological assessment (Assessment No.5).
4. To evaluate the geological constraints	The geological constraints are the nature and distribution of the various rock types, and the degree and depth of weathering. The information is used to form the basis of a hydrogeological map depicting permeable and impermeable strata and the relative value of one rock type against another for storing and producing groundwater.
5. To bring data together as a hydrogeological assessment	The different levels of data assessed under the three areas of climate, geography and geology can be brought together to form an integrated summary of the available surface water and groundwater resources. This summary is used as the basis for programme design and will inform possible coverage as well as technical choice. It also provides information on where groundwater development is easy and where it is likely to be relatively difficult.
6. To identify shortfalls in data	The data used for the hydrogeological assessment may contain geographical or technical gaps that limit the sensible evaluation of the water resource potential. These should be identified in order to promote future data collection to safeguard the proposed water supply system.
7. To investigate water supply coverage	This identifies the existing patterns and trends in use. It is used to draw on past experience and to identify coverage targets.
8. To assess water abstraction and water use	This assessment attempts to quantify water use in terms of the overall resource. It is used to understand existing patterns of use and trends that are taking place.
9. To evaluate the risk posed by waste disposal to the water resource	This assessment needs to identify the types and volumes of waste material generated and the risk posed by their disposal to the water resource. It is used to see if additional safeguards are necessary to protect the resource.

G2.2.6 Assessment summaries

Each member of the planning team who has been carrying out the consultations, surveys and analysis should write a summary of the information gathered and its analysis. This has two purposes:

- to prepare a presentation for the Planning Workshop to give the participants a broad picture of the area and the issues and problems they are dealing with; and
- to make a written record for various reports and programme documents that will be produced.

In addition, each team member should write problem cards for specific problems that they have identified during the consultations, surveys and information analysis.

Table G2.2.6 is a checklist of the information that should be included in the summaries. The summaries should:

- focus on the key points only;
- explain the issues and realities in the programme area;
- bring out important discoveries from the consultation and surveys;
- be presented on flip-chart paper so that the group can refer to them during the course of the workshop; and
- be prepared as handouts for the participants' later reference.

Table G2.2.6: Checklist for assessment summaries

<input type="checkbox"/>	a map of the area, showing features such as rivers and lakes, small towns, mountains, roads, and any important geographical information
<input type="checkbox"/>	existing coverage of the rural population with water supply facilities
<input type="checkbox"/>	maintenance status of existing water supplies
<input type="checkbox"/>	types of traditional source
<input type="checkbox"/>	types of improved source and method of abstraction
<input type="checkbox"/>	traditional methods of disposing of faeces
<input type="checkbox"/>	existing coverage of improved sanitation facilities
<input type="checkbox"/>	types of improved latrine
<input type="checkbox"/>	diseases
<input type="checkbox"/>	official disease statistics
<input type="checkbox"/>	disease patterns in communities
<input type="checkbox"/>	people's understanding of the causes of diseases
<input type="checkbox"/>	key hygiene behaviours and practices
<input type="checkbox"/>	water resources information
<input type="checkbox"/>	major uses and allocation of water
<input type="checkbox"/>	community allocation and use of water
<input type="checkbox"/>	water rights problems
<input type="checkbox"/>	total population of area
<input type="checkbox"/>	rural population of area
<input type="checkbox"/>	population by gender
<input type="checkbox"/>	institutions and organisations in sector
<input type="checkbox"/>	organisational problems and issues
<input type="checkbox"/>	implementation capacity in each component
<input type="checkbox"/>	summaries from each Village Needs Assessment Workshop
<input type="checkbox"/>	successes in past and current projects and programmes
<input type="checkbox"/>	problems and issues mentioned during the consultation and survey, and arising from the analysis

G2.3 The Planning Workshop

The Planning Workshop is the most important part of the process of developing a programme. It enables representatives of all those involved in the programme to work together to explore the issues and problems and to develop solutions. It provides the basis for the detailed programme design. The Planning Workshop should create ownership of the programme by the people who will be responsible for its implementation.

Objective of the Planning Workshop

To produce a draft outline programme including a goal with the broad objectives, specific objectives and activities necessary for its achievement, by representatives of the organisations and institutions that will be involved in implementing the programme and representatives of the beneficiary communities, based on a thorough understanding of the context in which the programme will operate.

Process

The process is based on various participatory methods to enable all the participants to contribute. These are outlined in Flowchart 2.3, and each session is described in detail in the Manual (M2.3). Successful conduct of the process depends on having a good facilitator. This person should obviously be experienced in participatory techniques for planning, but should also have some knowledge of the sector and the region.

It may be best to do the workshop in a location away from any of the offices concerned, so that everybody can concentrate on the workshop and not be distracted by other work.

Time

At least five full days are needed for the workshop, and it may be wise to allow for six days in case extra time is needed. Exercises such as problem tree analysis take considerable time and should not be rushed if the full value of the process is to be realised.

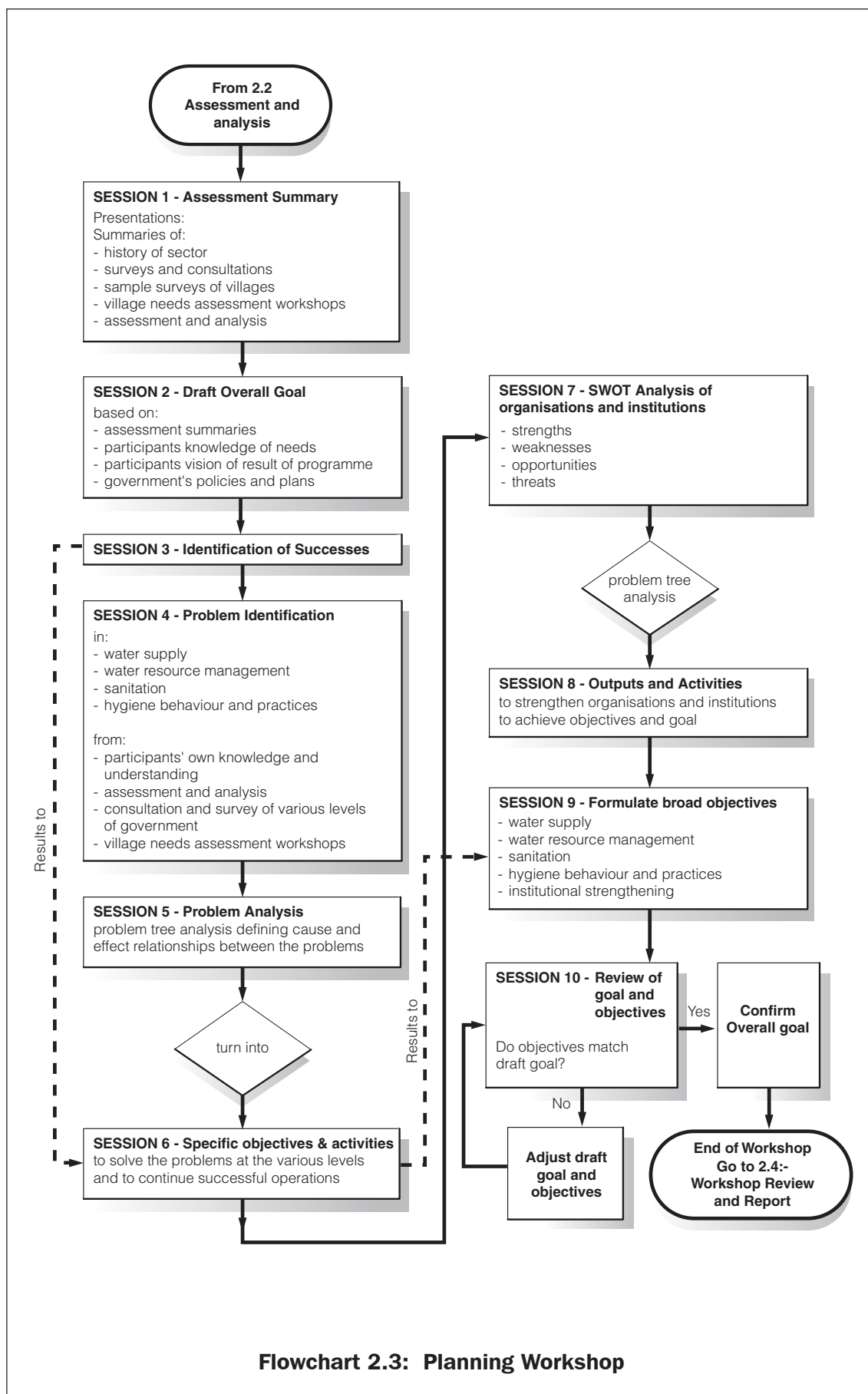
Participants

Having the right people to participate in the workshop is the key to its success and the success of the resulting programme. Participants should include people involved in the day-to-day issues and problems in the sector, people with detailed knowledge of the issues on the ground, people with specialist and technical expertise, and, most importantly, people whose lives will be affected by the results of the programme — the communities themselves. Thus, representatives should be drawn from:

- communities in each district (selected through the Village Needs Assessment Workshops)
- people who will actually implement the programme that is developed
- district government staff involved in the sector (probably two from each district)
- regional government staff from each concerned department
- central and regional government specialist staff from each concerned department (some of these people may also be from the Core Team)
- the Core Team which has carried out the assessment and analysis part of Stage 2
- decision-makers from key positions within the government system (if they cannot be present, they should be kept fully informed of process and outcomes)
- other specialists involved in the study
- representatives from other organisations involved in the sector, such as NGOs

B

G2



G2.4 Planning Workshop Review and Report

The outputs from the Planning Workshop are solutions to the problems and issues that face the people working in the sector and the communities living in the area. The solutions, in the form of objectives and activities, have been developed by these people. To maintain the participants' ownership of the programme, it is essential to carry these through to the programme design. The format in which they have been presented, however, may make this difficult. Each objective tree is likely to be a mixture of both specific objectives and activities, and they may not be expressed very clearly. The outputs may not cover all the activities and objectives that may be necessary to achieve the broad objective for that component. The Planning Workshop may not have discussed some of the major policy questions facing the sector. This section is to address these issues, leading to the production of a report on which the responsible authority can make a decision to proceed to detailed design of the programme.

Objective of the Planning Workshop Review and Report

To obtain a decision to proceed to Stage 3: Programme Design based on a report defining a comprehensive outline programme that addresses all the issues, needs and problems in the sector.

Process

The steps to achieve this are outlined in **Flowchart 2.4**. Master Lists of specific objectives and activities (G2.4.2/3/4/5/6) are the basis of this whole section, and are used at several points. The intention is to capture and maintain the integrity of the outputs from the Planning Workshop but also to ensure that everything that is necessary is included. The sequence of steps is therefore important.

The **outputs** from the Planning Workshop are first **reviewed against the Master Lists** (2.4.1) to record all the points identified by the workshop participants, and to sort them into specific objectives and activities. The sector specialists should then add others from the Master Lists that they consider necessary to achieve the broad objectives in each component.

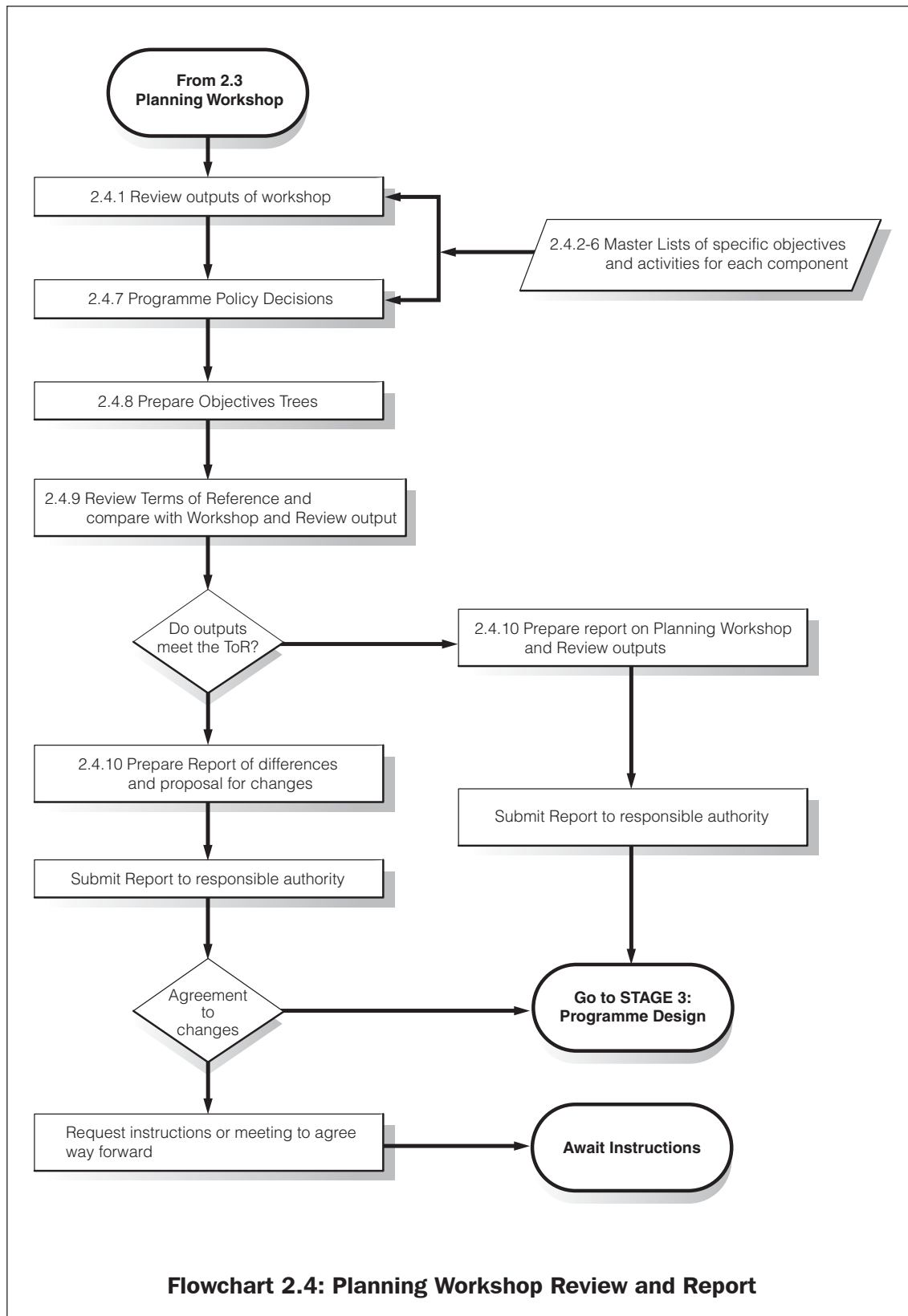
Decisions have to be made on some **key questions for programme policy** (2.4.7). These are major issues that are currently being discussed in the sector internationally. Based on the results of the decisions, some additional items from the Master Lists may be required, so it is necessary to refer to the lists again.

It is helpful to arrange all the required specific objectives and activities into **objective trees**, showing the hierarchy and relationships between each (2.4.8). These can then be adapted easily to the logical framework format that is required by some donors.

At this stage, a **check back to the original Terms of Reference** for the Preparation Project (2.4.9) will help to ensure that the project is still going in the right direction and achieving what was requested. If it is, a **report of the results of the Preparation Project** (2.4.10) so far should be prepared for the commissioning authority. If the outputs and findings differ from the ToR, it will be necessary to prepare a report to explain why, and propose changes to the ToR if necessary. A decision may then be needed from the commissioning authority on whether or not to accept the proposed changes and proceed to the Programme Design.

B

G2



G2.4.1 Planning Workshop review

The objective trees from the Planning Workshop are likely to contain a mixture of specific objectives and activities, with no clear distinction between them. In addition, they may not be clearly expressed. The first step is to organise this mixture into a structure for the programme design. Master Lists for each component are provided to assist with this organisation:

G2.4.2 Water supply facilities

G2.4.3 Hygiene promotion

G2.4.4 Sanitation

G2.4.5 Water resource management

G2.4.6 Institution building/strengthening

The next step is to combine these workshop outputs with the professional specialist's own views of the specific objectives and activities needed to achieve each component. This process should be carried out with some care. The output from the workshop is in a sense 'owned' by the participants. Based on their own knowledge, experience and hard work, they have produced what they consider to be the solutions to their problems and the basis for a programme. If done sensitively, it will probably be acceptable to add new material to the output, but not to delete anything or dismiss ideas.

The job of each team specialist is:

- to review the output
- to allocate the output into specific objectives and activities, assisted by the Master List
- to organise the specific objectives and activities so that any gaps can be seen
- to add additional specific objectives and activities, from the Master List and other relevant information or experience, that are considered necessary

Support on the individual steps is provided in the Manual (M2.4.1).

The following pages contain the Master Lists of specific objectives and activities for each broad objective. The broad objectives, specific objectives and activities are deliberately written in the Lists in a brief summary form. This is so that the users can express these in their own way to suit their programme. A fuller description of all the items in the lists is given in the Manual in Stage 3: Programme Design: Programme components (M3.2).

B

G2

G2.4.2 Master List: Water supply facilities

Broad objective: access to safe, adequate and sustainable water supplies

Specific objectives	Activities
WS1 community management of construction of water supply facilities	WS1.1 awareness building WS1.2 community organisation WS1.3 establishment of management committee WS1.4 training for management WS1.5 training for financial/accounting practice WS1.6 training for technical skills WS1.7 scheme selection/prioritisation WS1.8 technology choice WS1.9 guidelines for explaining technical/design/financial/procedural matters
WS2 construction of water supply facilities	WS2.1 technical choices WS2.2 standardisation WS2.3 support organisations (NGOs, private sector) WS2.4 contracting regulations WS2.5 quality control WS2.6 technical support/advice WS2.7 materials and equipment procurement/provision WS2.8 finance (including community contribution) WS2.9 survey WS2.10 design WS2.11 accounting/audit WS2.12 monitoring coverage
WS3 rehabilitation of existing water supply facilities	WS3.1 technical choices WS3.2 standardisation WS3.3 support organisations (NGOs, private sector) WS3.4 contracting regulations WS3.5 quality control WS3.6 technical support/advice WS3.7 materials and equipment procurement/provision WS3.8 finance (including community contribution) WS3.9 survey WS3.10 design WS3.11 accounting/audit WS3.12 monitoring coverage
WS4 system for O&M of water supply facilities	WS4.1 design maintenance system WS4.2 implement maintenance system WS4.3 replacement parts supply system WS4.4 financing WS4.5 monitoring
WS5 community management of O&M of water supply facilities for sustainability	WS5.1 establishment of water user committees WS5.2 village maintenance workers WS5.3 training for management WS5.4 training for financial management WS5.5 training for technical maintenance skills WS5.6 operate maintenance system WS5.7 financing WS5.8 monitoring WS5.9 follow-up support to communities

G2.4.3 Master List: Hygiene promotion

Broad objective: increased knowledge and improved practices of hygiene and water use behaviour of community, family and individual

Specific objectives	Activities
HP1 hygiene promotion strategy	HP1.1 review national hygiene education/promotion strategy HP1.2 review hygiene education strategies of other countries, NGOs, etc. HP1.3 collect information on appropriate approaches for strategy HP1.4 design/redesign regional strategy HP1.5 increase political commitment to hygiene education at all levels
HP2 hygiene promotion	HP2.1 write guidelines for working practices and training HP2.2 develop materials for hygiene promotion HP2.3 develop selection criteria and recruit village promoters HP2.4 train/retrain village promoters/educators HP2.5 monitor performance and impact of training HP2.6 community profiles HP2.7 baseline KAP surveys and analyses HP2.8 identify and prioritise hygiene behaviours for programme to address HP2.9 compile village hygiene promotion plan HP2.10 hygiene promotion programme implementation

B

G2

G2.4.4 Master List: Sanitation

Broad objective: access to and use of sanitation facilities

Specific objectives	Activities
SA1 awareness and understanding of need for sanitation by communities	SA1.1 survey of existing practices and understanding SA1.2 development of promotional material, marketing information SA1.3 publicity campaigns SA1.4 village-level training, workshops, etc. SA1.5 demonstration latrines and solid waste disposal
SA2 construction of sanitation facilities	SA2.1 design and standardisation of technologies/ types/costs to offer choice SA2.2 regulations for siting of latrines SA2.3 subsidies SA2.4 manufacture of components (e.g. latrine slabs) SA2.5 training of artisans SA2.6 construction of household latrines by individuals/families SA2.7 construction of institutional latrines (schools, health posts, clinics, etc.) SA2.8 solid waste disposal facilities SA2.9 environmental impact assessment SA2.10 monitoring of construction numbers
SA3 use of facilities	SA3.1 monitoring of use SA3.2 follow-up campaigns

B

G2

G2.4.5 Master List: Water resource management

Broad objective: management of water resources for sustainability

Specific objectives	Activities
WR1 data collection and monitoring	WR1.1 identification of data needs WR1.2 design and construction of data management system WR1.3 collection of baseline data WR1.4 collection of historical data WR1.5 maintenance of data management system
WR2 existing and future demand for water and waste disposal	WR2.1 evaluate existing water use and waste disposal patterns WR2.2 establish trends WR2.3 identify causes of water source failure
WR3 capacity of water resources	WR3.1 assessment of groundwater recharge and surface run-off WR3.2 assessment of surface and groundwater distribution and availability WR3.3 evaluation of water quality and pollution vulnerability WR3.4 evaluation of resource sustainability WR3.5 identify development potential
WR4 sustainable and equitable use of water resources	WR4.1 establishment of criteria and regulations for abstraction of water WR4.2 raising awareness of water resource management with communities, government and other organisations WR4.3 allocation of water for various uses WR4.4 regulation of water abstraction WR4.5 monitoring abstraction and use of water WR4.6 management of catchments/recharge zones WR4.7 control of pollution WR4.8 water rights

B

G2

G2.4.6 Master List: Institution building/strengthening

Broad objective: the various organisations (government departments, implementing agencies and community organisations) capable of managing and implementing the programme and its projects

Specific objectives	Activities
IS1 policies and procedures	IS1.1 develop policy, procedures and methodologies for: <ul style="list-style-type: none"> village selection procedures/criteria community management of water supplies (including participation in decision-making) cost recovery and subsidies latrine promotion maintenance (VLOM, private sector or 2/3 tier) regulation of NGOs regulation of private sector responsibility for co-ordination and roles in sector IS1.2 implement policies and procedures
IS2 management and personnel capabilities	IS2.1 confirm/redefine/define responsibilities of organisation IS2.2 confirm/redefine/define organisational structure IS2.3 review and revise job descriptions IS2.4 training needs assessment IS2.5 source and provide appropriate training IS2.6 review/revise staff conditions of service
IS3 staff development for community liaison/development/management, hygiene promotion	IS3.1 employment of social/community development/hygiene education staff IS3.2 source or develop orientation and training courses IS3.3 training in community organisation, PRA methods, hygiene behaviour and education, etc.
IS4 capacity of organisation for implementation/facilitation	IS4.1 assess implementing/facilitating capacity of organisations (personnel, resources) IS4.2 assess needs and targets IS4.3 recruit staff IS4.4 provide resources IS4.5 plan workloads
IS5 monitoring and evaluation	IS5.1 establish monitoring system IS5.2 establish monitoring criteria IS5.3 establish evaluation criteria IS5.4 carry out M&E and use results IS5.5 database of existing water supply systems
IS6 co-ordination and co-operation	IS6.1 identification of partner groups (including donors) IS6.2 define/confirm lead agency IS6.3 registration of implementing agencies IS6.4 establishment of co-ordination systems

G2.4.7 Programme policy decisions

A number of key decisions on programme policy should be considered at this stage. These are needed to inform the rest of the programme planning and design. The issues are discussed in the rest of this section, and support for making the decision is provided in the Manual (M2.4.7).

After making decisions on each of these issues, additional specific objectives and activities may become necessary. To assist with this, review the Master Lists and pick any additional specific objectives and activities considered necessary to fulfil the key policy decisions.

Ownership

The complex concept of ownership is fundamental to a number of other key decisions.

It is now generally accepted that communities should own their own facilities to ensure maintenance and sustainability. This is partly because governments in many places have realised that they cannot afford to maintain facilities themselves and so have ‘transferred’ ownership to the users. It is also assumed that if people own something they are more likely to look after it properly.

Experience has shown, however, that asking the community to contribute labour and local materials and then ‘handing over’ the facilities to them after construction does not in itself achieve this ownership. Perceptions of ownership by the various parties are often quite different, even opposite. Government authorities, NGOs and other agencies assume that if a community requests a water supply system and provides ‘community participation’ for its construction, the community will consider it to be theirs. In practice, because the planning, decisions, technology, finance and materials have been made or provided by outsiders, people still believe that the facility belongs to the outsider. The external agency is still the official owner, despite handover ceremonies and training courses. Cash contributions to capital costs may help to by creating ‘financial’ ownership, but questions of affordability and exclusion through poverty need to be considered.

These issues are factors in several of the programme policy decisions, but the starting point is the definition of legal ownership. Do the present government regulations allow communities to legally own the water supply systems, or is legal ownership retained by the state? This will affect the way the programme is designed so a key decision for programme policy has to be made on this point.

Implementation strategy

Traditionally, water supply and sanitation projects within water supply and sanitation programmes have been implemented by government agencies, private sector contractors, or NGOs, with varying degrees of community participation. Generally, these have not proved to be sustainable, because the concept of community ownership has not been established. A ‘handover’ to the community at the end of construction is not enough. To promote the concept of ownership, people have to be in control of the decisions affecting their lives.

To solve this problem, the trend has been to pass more responsibility to communities for participation in construction. The ultimate stage in this is for communities to manage the construction for themselves, either by doing the construction work themselves or by supervising a contractor. Increasingly, it is recognised that the development agency, whether government or NGO, should be a facilitator in this process. They should be enabling communities to manage the planning, construction, and operation and maintenance of the facilities. This is much more than participation, which traditionally has meant communities participating in the development agencies’ projects. This has significant implications for the design of the programme. Thus a key programme policy decision has to be made.

B

G2

Maintenance system

Operation and maintenance is fundamental for sustainability. The large number of broken down water supplies in many countries is evidence that maintenance has not worked. The maintenance system needs to be considered right from the start of the planning process, not added as an afterthought. Issues such as the affordability for villagers to pay for the O&M, and hence the correct choice of technology, are essential. The current maintenance system should already have been assessed during the consultation, survey and analysis stage and analysed during the Planning Workshop. This should indicate whether the current system is working adequately and is affordable. If the maintenance system, whether centralised, three-tier, two-tier or VLOM, is found to be working inadequately, a key programme policy decision will be needed to consider the alternatives.

Cost sharing

The term 'cost recovery' is often used to mean contributions by communities for water supply and sanitation facilities. The expression 'cost sharing' is used here as a more accurate representation of what is actually meant.

It is now generally accepted that projects should respond to requests from communities for improved services, and that communities should contribute to the capital costs by providing local materials and labour and, increasingly, a cash contribution. (It is also generally accepted that communities should pay the whole cost of operation and maintenance.) Recently, the 'demand responsive approach' has extended this concept of request and community contribution so that communities can choose their preferred level of service from a range of options, but have to pay the additional capital cost of a higher level of service. Underlying this is the principle that water is an economic as well as a social good. A useful source of information on this is the recent Mpumalanga Statement: *Financing of Community Water and Sanitation Services* (Mpumalanga Workshop, 1999).

A risk in this approach is that with the emphasis on the economic aspects, the poorest people will be further marginalised — projects will tend to go to richer communities that can afford to pay for them. Richer communities tend to be able to vocalise their demands better. It may be necessary to facilitate the demand from poorer or marginalised groups in society. The approach is also based on the assumption that there is sufficient water to allow choice. In many countries, water for all uses is becoming increasingly scarce. The choice of higher levels of service for one community that can afford to pay for it may mean insufficient water for another poorer community.

The approach advocated in *Vision 21: A Shared Vision for Hygiene, Sanitation and Water Supply* is that a dialogue must be started with users and communities at the initial stages of projects, on levels of service, tariffs, revenue collection and administration of services. If decision-making is placed close to the community, the resulting costs of water, sanitation and hygiene services can be significantly reduced. This will result in figures far lower than those assumed so far. Leveraging community resources will reduce direct costs, distribute costs among many partners, reduce costs of centrally managed systems, and discourage corruption (Water Supply & Sanitation Collaborative Council, 2000).

Discussion of willingness to pay should distinguish between needs and demands. Equitable financing and cost sharing are essential to enable services for the unserved, and particularly for the poor. Considerations of equity must be balanced with those of financial viability. Neither old dogmas about providing water and sanitation for free, or new dogmas about always charging full cost pricing, are adequate. Charges must be in line with the capacity of people to pay, especially of the poor. Options of payment in kind or in cash need to be considered (*ibid.*).

A key programme policy decision should be made on the process and means to enable all people to have access to a sufficient and affordable water supply.

B

G2

Subsidies

A key programme policy decision has to be made on the levels of subsidies for water supply construction and for latrine construction. The subsidy for water supply is tied to the other aspects of cost sharing discussed earlier. Subsidy for latrines is a difficult issue. It is now generally accepted that if subsidies are to be provided, they should only be for the substructure (the latrine slab and the pit lining if required), and that families should provide their own superstructure or housing. If the cost of latrines to the individual family is too expensive, people will not construct them. If the level of subsidy is too high, governments and donors cannot afford to provide it for the numbers of latrines required (ideally one per family for the total number of families in the area).

Responsibilities of agencies

Responsibility for the various components of programmes is often not clear. For some components, more than one government department claims responsibility, while other components fall in between departments, with none having the responsibility assigned. In the latter case, sanitation promotion is frequently the casualty. A programme policy decision should be made, clearly assigning responsibility for the various components of the programme.

Co-ordination

Along with clear responsibility for each component, co-ordination to make sure the various components work together is essential. A programme policy decision has to be made to define the lead agency to take on this co-ordination role at each administrative level.

B**G2**

G2.4.8 Objective trees

Now that all the objectives and activities necessary for the programme have been identified, they can be assembled into objective trees to show the hierarchy and relationships between them.

The trees provided in the Manual (M2.4.8) can be used as a guide for this. The trees should show:

- how the sets of activities together lead to the achievement of the specific objectives; and
- how the specific objectives in turn combine to achieve the broad objectives.

Check to see that the objective/activity set at one level is sufficient to achieve the objective/activity at the next higher level (working upwards on the tree), so that ‘doing *this* will lead to achievement of *that*’.

These trees should form part of the Workshop Review Report.

If logical frameworks are used for planning, as required by some donors (including DFID), these objectives trees can easily be converted to that format.

**B****G2**

G2.4.9 Review of Terms of Reference

Before proceeding into the Programme Design of Stage 3, it may be important to obtain approval for the scope and scale of the outline programme that has been developed so far. Such approval is likely to be based on how well the Terms of Reference for the Preparation Project are being met. Therefore a review of the outline design against the Terms of Reference is probably necessary.

There are two basic interrelated questions to ask in this review:

- How well does the programme match the ToR?
- Are the ToR relevant to the conditions in the programme area?

If the answer to the first question is that there is a major variance, then the answer to the second question will have to show why these variances are necessary. The ToR would have been written with a limited knowledge of the programme area; the outline programme should be based on the realities in the programme area. It may be necessary to convince the senior decision-makers and politicians of these realities in order to obtain approval of the outline programme and a decision to proceed to Programme Design.

A format for reviewing the ToR against the outline programme is provided in the Manual (M2.4.9).

B**G2**

G2.4.10 Planning Workshop Review Report

At this stage it will probably be necessary to prepare a report for the commissioning authorities. The purpose of this is to provide information on the progress of the Preparation Project, and to record the outputs so far, including the information assessment and analysis, the outputs from the Planning Workshop and the outline programme from the Planning Workshop Review.

Based on the review of the outline programme design against the Terms of Reference for the Preparation Project (G2.4.9), the report may take one of two forms. It will depend on whether the outline programme conforms to the ToR, or if there is a major variance. Suggested structures for both are provided in the Manual (M2.4.10).

BG2

Stage 3:
Programme Design

B

G3

Objective of Stage 3

To produce the design for a rural water supply, hygiene promotion and sanitation programme, incorporating water resources management, of the specified area.

Introduction

The Planning Workshop and the Planning Workshop Review should have produced an outline design for the programme. This outline now has to be filled out, including defining the various objectives and activities that have been identified as necessary. The steps for this are shown in the Flowchart of Stage 3.

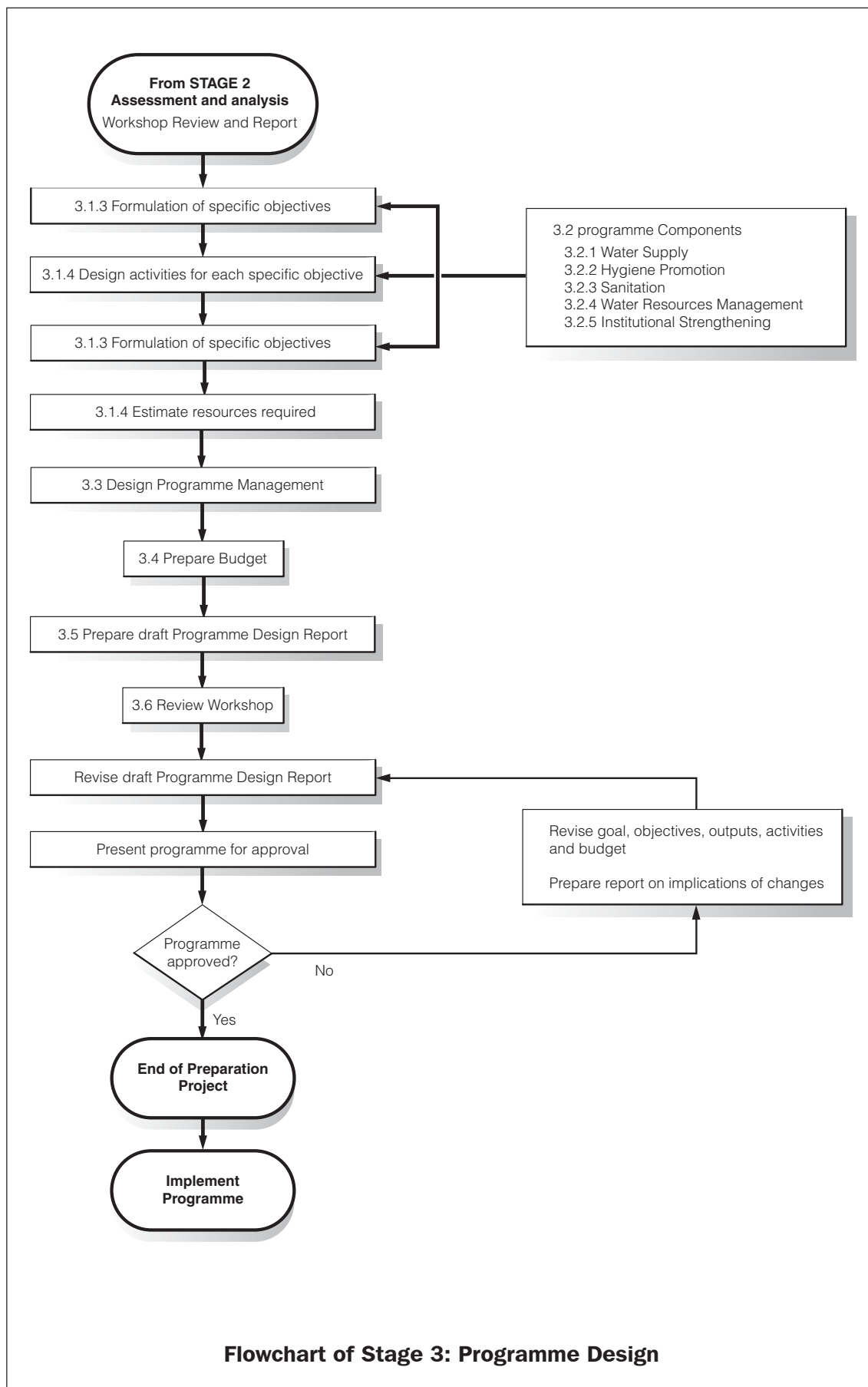
The **specific objectives need to be formulated (3.1.3)** in SMART terms with indicators for measuring progress and achievement. The **activities for each specific objective need to be designed (3.1.3)** in outline, with an estimate of the resources required for each. Support is provided for both of these in the Programme components (3.2).

The **Programme Management (3.3)** system has to be designed. A Master List is provided for this.

A **budget** for the programme has to be prepared.

The whole programme then needs to be described in the **Programme Design Report (3.5)** for submission to the commissioning authorities for approval.

BG3



B

G3

B

G3

G3.1 Design of programme components

The method described in these Guidelines is for the development of broad strategies for a sector programme, not detailed decisions about specific projects or interventions. This is important to bear in mind during development of the programme design. Options should be selected in terms of overall parameters, mechanisms, systems, processes, criteria, collaborative arrangements, etc., while also narrowing the range of options to ones that are appropriate and based on sound programming principles.

In fact, the need is to plan for flexibility, for enabling the use of a variety of approaches for implementing the programme and projects within it. Each community is unique, and your decisions must help create the means by which communities will be able to make decisions and gather the will, interest and resources to create and sustain a healthier environment. Similarly, regarding the institutional arrangements involved, there are no absolute answers. In some cases it will be necessary to proceed by trial and error, and/or specify what further study is needed to resolve a need or problem that hinders efforts in the water and sanitation sector in the region or country (Environmental Health Project, 1997).

Process

In the Planning Workshop and the Planning Workshop Review, only the broad objectives have been fully defined in specific, measurable, achievable and time-bound (SMART) terms (see M3.1.1 for detailed explanation). When objectives are clear, it is possible to clarify all the activities of the programme. Clear objectives also enable progress to achievement to be monitored. Indicators for monitoring are an essential part of this. A detailed description of these is given in the Manual (M3.1.3).

The programme design team now has to develop the specific objectives in SMART terms and the activities necessary to achieve those specific objectives. The process is explained in the Manual, with Forms M3.1.1 and M3.1.2 provided to help the design team in this task (M3.1.1 and M3.1.2). To assist with this process, the programme components are described in some detail (M3.2).

Time planning

A time plan in the form of a Gant Chart (or bar chart) should be prepared in broad terms for the programme period. It should show the main activities under each broad and specific objective. Some guidance on the time and timing for activities is given in Programme components (M3.2).

The time scale is probably best to the nearest quarter — monthly planning at this stage may be too detailed. It may be helpful to show additional information such as seasons, and periods when communities are busy with farming or have time available for projects.

Rate of implementation should be governed by the process needing the most time, usually the social development and development of community capacity to manage. Rates of implementation should also be based on the analysis of capacity of each organisation.

B

G3

B

G3

G3.2 Programme components

To assist in the development of the specific objectives and activities of each component of the programme, some of the principles and issues to consider are provided in the Manual (M3.2). These cover:

- Water supply (M3.2.1)
- Hygiene promotion (M3.2.2)
- Sanitation (M3.2.3)
- Water resource management (M3.2.4)
- Institutional strengthening (M3.2.5)

The structure follows the pattern of specific objective and activity. After a discussion of issues at specific objective level, the points to consider for each activity under that specific objective are described. These should be referred to during formulation of the objectives and activities. For some of them, it may also be useful to refer back to the Programme policy decisions (G2.4.7). References are also given for further information on the particular subject.

B**G3**

B

G3

G3.3 Programme management

One definition of management is getting things done through other people. This is useful for programme management, considering the scope of the programme that is being developed. The definition of programme taken for these Guidelines is:

a coherent framework of procedures and activities for co-ordinating and regulating projects within the water and sanitation sector in a defined geographical area.

One department or organisation is unlikely to be able to undertake all the activities for improved water supply and sanitation itself. A number of different organisations and different types of organisations have to work together to do it. Thus programme management is getting the activities of the programme done through the various organisations, communities and projects. It involves planning, organising, checking and co-ordinating to ensure that all the organisations work together on the various components to achieve improved, sustainable accessibility to water supply and sanitation facilities for people, leading to the programme goal.

G3.3.1 Master List: Programme management

Broad objective: Efficient and effective management of the programme to achieve the goal

Outputs	Activities
PM1 integration and coverage of components	PM1.1 planning PM1.2 projects PM1.3 co-ordination
PM2 regulation of procedures, standards, etc.	PM2.1 implement policies and procedures
PM3 management of resources	PM3.2 funding — donors, government budgets PM3.2 implementing agencies PM3.3 materials
PM4 management structure and organisation	PM4.1 define programme structure and organisation PM4.2 manage staffing PM4.3 plan workloads
PM5 reports	PM5.1 preparation of reports
PM6 monitoring and evaluation	PM6.1 M&E of policies, procedures, projects, organisations PM6.2 use results to improve projects, procedures PM6.3 advocacy

B

G3

B

G3

G3.4 Budget

Budgeting is as much about planning as it is about finance. Without careful plans, it is impossible to budget; but without budgets, plans cannot be realised and costed effectively. In other words, budgets translate plans and activities into financial terms (Eade and Williams, 1995).

Preparing a budget for a programme over a five- or ten-year time-scale covering a region may not be possible using standard government budget formats. It will probably be easiest to use a 'broad brush' approach, rather than detailed costing of every component.

With the scope and scale of the programme, and the variety and uncertainty of sources and potential sources of funding, it may be worth dividing the budget into two parts⁴:

- a **guaranteed budget** for the expenditures which it is anticipated will be covered, for example, by the annual government budget allocation; and
- a **complementary budget** for additional expenditures which depend on funding which is not yet guaranteed, but which is planned as part of the programme.

Budgets are also generally divided into:

- **capital:** tangible and lasting items such as buildings and equipment; and
- **revenue:** recurrent costs such as payments to staff and suppliers for services and consumable goods.

The government ministries may already have prescribed systems and formats for budgeting, so it is probably best to use these. If they are for annual budgeting, however, they may require too much detail. An alternative may be to look at the system used for things such as rolling plans (e.g. national five-year plans).

BG3

⁴ adapted from Eade and Williams (1995)

B

G3

G3.5 Programme Design Report

Until the programme is implemented, the Programme Design Report is the primary product of the Preparation Project. As such it is a very important document. Apart from being used for the implementation, it will be circulated at senior levels in government and to potential donors and other external agencies. Therefore it should be comprehensive but still clear and accessible.

The following is a suggestion for the format and contents of the Programme Report. As far as possible, detailed information and background data should be assigned to Appendices, with only a summary discussion of the pertinent facts in the main body of the report.

Suggested table of contents

Summary

Abbreviations

1. Introduction

- Origin of programme
- Process of developing programme

2. Programme area

- Geography
- Demography/population
- Economy
- Sources of income
- Poverty/wealth
- Gender

3. Water and sanitation sector analysis

- Water
 - water resources
 - policies and regulations
 - allocation by sector
 - types of abstraction
 - coverage of water supply facilities
 - operation and maintenance system
 - operation and maintenance status
 - costs
- Health/hygiene promotion
 - common diseases
 - morbidity/mortality
 - people's understanding
 - policies and regulations
- Sanitation
 - policies and regulations
 - types of latrine
 - costs
 - coverage
 - people's understanding and use
 - solid waste disposal
 - wastewater drainage

B

G3

- Institutional arrangements
 - national
 - regional
 - district
 - community
 - organisations
 - government
 - donors
 - national NGOs
 - international NGOs
 - private sector
 - planning and co-ordination
 - finance
 - budget allocations
 - donor funds
 - existing programmes and projects
 - plans

4. Programme goal, objectives

- Goal
- Broad objectives
- Specific objectives
- Activities (summary)

5. Scope

- Procedures and regulation
- Water supply construction
- Rehabilitation
- Operation and maintenance
- Sanitation
- Hygiene promotion
- Training
- Institutional strengthening
- Implementation assistance

6. Finance

- Summary estimates
- Financing plan
- Community contribution/cost sharing
- Subsidies

7. Implementation arrangements

- Institutional arrangements
- Programme management
- Lead agency
- Co-ordination
- Roles and responsibilities
- Regulations and procedures
- Implementation schedule (bar/Gant chart)
- Operation and maintenance system
- Reporting
- Monitoring
- Evaluation

B

G3

8. Environmental issues

- Environmental impact assessment

9. Risks

- Identification
- Minimisation

Appendices

1. Project Preparation study team
2. Terms of Reference
3. References
4. Environmental evaluation
5. Cost estimates — basis of estimates (unit costs)
6. Objective trees
7. Activity sheets

... other detailed information

B**G3**

B

G3

G3.6 Review Workshop

To ensure that the ownership of the programme is maintained, a second workshop involving all the participants from the Planning Workshop is advised. This is to give these people, who will be implementing and benefiting from the programme, an opportunity to review and discuss how the programme has evolved since their first outline design. It is a chance for them and the programme designers to check that the draft programme is still relevant to address the problems and issues that they face in the sector, which were analysed in the Planning Workshop.

The draft Programme Design Report should be sent to all the participants well in advance of the Review Workshop. This should give them a chance to understand the report and discuss it with colleagues and other stakeholders.

The Review Workshop itself should be planned to take two or three days. A suggested timetable is provided in the Manual (M3.6)

After the Review Workshop, it may be necessary to revise the draft Programme Design Report to take account of changes proposed by the participants, before submitting it to the commissioning authority.

B**G3**

