

## Appendix 1. Guide for semi-structured interviews

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### Guide Survey Questions

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#### [Section 1: Characterizing HELP in Davao]

This section will include questions that help characterize the HELP Davao Network and consider how it has contributed over time. It will include questions such as:

- Exploring how the HELP Davao Network functioned and to gain understanding of what people understand its roles to be . . .
- To gain insights into the major changes in watershed governance over the period 2004–2012? What is different in how they are managed today?
- To explore what have been key drivers of change in watershed governance?
- To consider the contribution of HELP Davao Network to watershed management? And the role of other water/ watershed initiatives since 2004?

#### [Section 2: Building Social Capital]

Four or five questions exploring

- The purpose of the “Network”.
- Role and benefits of participation, both personally and across organizations.
- How relationships have changed and if relationships affected the decision-making processes?
- The extent to which the HELP Davao Network might have influenced the improvement in participation and building of relationships.

#### [Section 3: Knowledge Transfer]

In this section we explore how HELP has contributed new knowledge or understanding that may have improved decision making processes in relation to watershed management, questions will include:

- Why was the UNESCO HELP approach attractive to Davao stakeholders?
- How appropriate was HELP as a technology and approach for Davao?
- Have you observed changes in how HELP Davao operates over time?
- Has HELP influenced the use of integration of hydrological science with other socio ecological concerns in decision-making processes? Can you provide examples of when interdisciplinary approaches were used . . . in your workplace . . . jointly with other organisations . . . in policy making at local or regional government levels?
- Have you seen changes in your workplace or other organizations as a result of participation or interaction with HELP?

#### [Section 4: Limitations]

The final two sections will look at limitations and areas for possible future innovation. Questions will focus on:

- To identify barriers to improving water governance in Davao? The main limitations to the HELP approach in Davao?
- Identifying possible unintended consequences from water related policy decisions over the past decade . . .
- Limits to hydrological science/ interdisciplinary approaches for progressing good water governance?
- Exploring if other societal needs such as for food or energy need deeper consideration . . .

#### [Section 5: Future Innovation]

- To identify key opportunities for increasing HELP contribution towards improving water governance in Davao?
  - Who else should the HELP Davao Network be collaborating with from within the water sector? Should HELP seek to engage champions from outside the water sector? If so who?
  - And finally, are there other areas that HELP should concentrate actions on? Any other concerns? Suggestions? Comments?
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## Appendix 2. Online survey questionnaire

### Section 1: Background Context and Characterization of the HELP Davao Network

In this section we look to understand a little bit about your context and how familiar you are with the goals and objectives of the HELP Davao Network.

1. The sector that best represents my work is: My role/ position is:

Please describe the sector you represent:

Please select the sector that best represents your work experience:

2. Please rate how familiar you are with the HELP Davao Network

- I am very familiar and an activity participant
- I am somewhat familiar and occasionally participate
- I am somewhat familiar but rarely participate
- I am not really familiar and rarely participate
- I have heard of HELP Davao but have not participated in HELP activities
- I do not know HELP Davao

Answer If 3. Please rate how familiar you are with the HELP Davao . . . I do not know HELP Davao Is Selected

3. You have indicated that you are unfamiliar with HELP Davao. This survey is largely focused on how HELP Davao has contributed to Watershed Management in Davao. Would you like to continue anyway and share your views?

- Yes, continue to question 4.
- No, end of survey.

If No, end of survey. Is Selected, Then Skip To End of Survey

4. The goals of the HELP Davao Network are to: (Drag and drop your top three–preferences)

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Three most relevant goals are:

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- \_\_\_\_\_ Provide a shared voice for environmental concerns
  - \_\_\_\_\_ Aid science based decision making
  - \_\_\_\_\_ Building relationships across different sectors
  - \_\_\_\_\_ Implement the Watershed Code
  - \_\_\_\_\_ Promote better understanding of hydrology science
  - \_\_\_\_\_ Provide an independent think tank exploring options for watershed development
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Briefly described any other goals or objectives of the HELP Davao Network:

### Section 2: Building Social Capital

Social capital has been defined as the “networks, norms and trust, that enable participants to act together more effectively to pursue shared objectives” (Putnam, 1995). In Davao it has been considered as the glue that bonds stakeholder together. In this section we will look at personal and organizational level motivations, experiences and roles for participation in multi- stakeholder networks, such as the HELP Davao Network.

5. Why do you participate in multi-stakeholder Networks, such as HELP Davao?  
(Drag and drop in your top three preferences.)

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My top 3 reasons for participation are:

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- \_\_\_\_\_ Access to trainings
  - \_\_\_\_\_ Interest in achieving shared goals
  - \_\_\_\_\_ Build relationship with other stakeholders of similar interests
  - \_\_\_\_\_ Build relationship with other stakeholders with different interests
  - \_\_\_\_\_ Learn more about watershed management
  - \_\_\_\_\_ Make sure my concerns are recognized
  - \_\_\_\_\_ Through the network my views are better represented
  - \_\_\_\_\_ Pool resources for shared outcomes
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Are there any other factors that motivate you to participate in multi-stakeholder Networks?

6. As a result of participation in the HELP Davao Network how do you think or act differently

	Strongly Agree	Agree	Neither Agree nor Disagree	Disagree	Strongly Disagree
Positively changed way I think about watershed management	○	○	○	○	○
Deepened my understanding of watershed management	○	○	○	○	○
Increased my awareness of different stakeholders	○	○	○	○	○
Enhanced my relationship with other watershed stakeholders	○	○	○	○	○
Helped build trust between stakeholder of different interests groups	○	○	○	○	○

Please provide an example of new “thinking/ understanding” or “improved relationships”:

7. How would you describe your roles and responsibilities for participation in the HELP Network? (Tick all that apply)

- I am a decision maker
- I can influence decision and direction
- I provide information and knowledge that supports the network
- I support the Network but I am not actively involved
- I am not clear on my roles or responsibilities within the Network
- I have not a participated in the Network
- Other \_\_\_\_\_

8. A range of key for success can be identified for multi-stakeholder networks. How effectively has HELP Davao achieved the following:

	Very Effective	Effective	Neither Effective nor Ineffective	Ineffective	Very Ineffective
Enabled collective action	○	○	○	○	○
Facilitated balance participation of a full range of stakeholders	○	○	○	○	○
Helped create a shared vision	○	○	○	○	○
Facilitated shared leadership	○	○	○	○	○
Built recognition of interdependence between stakeholder	○	○	○	○	○
Found new ways to look at existing challenges	○	○	○	○	○
Valued different opinions	○	○	○	○	○
Helped pooling of resources	○	○	○	○	○
Supported consideration of local knowledge in decision-making	○	○	○	○	○

What other keys for success have been important for the HELP Davao Network?

Section 3: Knowledge Transfer

The UNESCO HELP approach is breaking an existing paradigm where science is poorly utilized in decision making and watershed stakeholders isolated by fragmented institutions (see Figure 1). The uptake of a new paradigm is largely dependent on and driven by local stakeholder within the individual HELP river basin.

To assess the success of the HELP approach in Davao the core challenge is to examine to what extent knowledge transfer and innovation has occurred. In this section we will explore why the HELP approach was considered appropriate for Davao and to what extent the knowledge objectives of HELP have been adopted and mainstreamed in Davao.

9. Why were you first interested in UNESCO HELP approach?

	Strongly Agree	Agree	Neither Agree nor Disagree	Disagree	Strongly Disagree
I was aware of a need to improve the watershed management in Davao	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
HELP seemed appropriate for Davao watersheds	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I was interested to learn more about using science for decision making	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I was interested in attending trainings	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I believed HELP could address gaps in co-ordination	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I believed HELP could address gaps in knowledge and understanding	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

10. What statement(s) best match the approach adopted by the HELP Davao Network?

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The top three statements that best reflect the HELP Davao approach are:

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\_\_\_\_\_ Prioritizing scientific knowledge over other knowledge sources

\_\_\_\_\_ Employing science to better inform social, environmental and economic concerns

\_\_\_\_\_ Facilitating changes in the way hydrological research is conducted

\_\_\_\_\_ Focusing on issues and concerns of end-users

\_\_\_\_\_ Integrating science with other forms of traditional knowledge to inform decision-making

\_\_\_\_\_ Responding to concerns of major stakeholders

\_\_\_\_\_ Implementation of watershed rehabilitation programs

\_\_\_\_\_ Other

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11. As a result of increased awareness or collaboration with the HELP Davao Network:

	Strongly Agree	Agree	Neither Agree nor Disagree	Disagree	Strongly Disagree
I see hydrological science as being more important than I did before	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I have seen increased understanding on hydrological science in my workplace	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I have observed increased understanding in other organizations	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I have observed increased coverage in the media of watershed issues.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Please briefly provide an example of hydrological science in decision making to support your answers:

12. How effective was the HELP Davao Network in advancing the following:

	Very Effective	Effective	Neither Effective nor Ineffective	Ineffective	Very Ineffective
Integration of knowledge across hydrology, environment and social sectors	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Sharing of data between different sectors	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Please provide a example to support your answer:

13. How effective has the HELP Davao Network been in engaging participation of the following stakeholders groups:

	Very Effective	Effective	Neither Effective nor Ineffective	Ineffective	Very Ineffective
Private Corporate Organizations	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Civil Society Organizations	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Local Government Offices	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Local Government Decision Makers/Politicians	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
National & Regional Government Organizations	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Peoples Organizations	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Direct community participation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Media	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
International Aid organizations	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Section 4: Outcomes, Limitations and opportunities.

14. HELP Davao has assisted in facilitating a number of joint action plans, to what extent has your organization followed up to support implementation of the following plans

	Far exceeds expectations	Exceeds expectations	Equals expectations	Short of expectations	Far short of expectations
2011: Hydro hazards action planning for the Matina Pangi	o	o	o	o	o
2011: IWRM Working Plan 2011–2015	o	o	o	o	o
2011: the Customized Guidelines for Davao City and Region	o	o	o	o	o
other	o	o	o	o	o

Briefly provide one or two examples that support your answers:

15. To what extent do you believe the following policy decisions are based on “best available science”

	Strongly Agree	Agree	Neither Agree nor Disagree	Disagree	Strongly Disagree
Ban on aerial spraying	o	o	o	o	o
Watershed code	o	o	o	o	o
Regional Development Council endorsement of IWRM action plans	o	o	o	o	o
Endorsement of change in land use for development of coal fire power plant	o	o	o	o	o
Preventing the development of Hydro-power in the upper Tamugan watershed.	o	o	o	o	o
Other	o	o	o	o	o

Please briefly explain any observed benefits or consequences from the policy decisions:

16. In 2011 the first customized Guidelines for IWRM were launched in Davao. Have these guidelines helped you in your work, or what else is required to make the guidelines more useful?

- I do not have a copy of the Guidelines
- I have used the Guideline to help guide my work in watershed management
- Additional training would be better help me to fully utilize the Guidelines
- I have used the Guidelines but they were not appropriate
- I have the Guidelines but have not used them

17. No single organization can operate independent of other watershed actors. To what extent have the following organizations/sectors positively contributed to watershed management in Davao?

	Very Effective	Effective	Neither Effective nor Ineffective	Ineffective	Very Ineffective
HELP Davao Network	o	o	o	o	o
Environmental NGOs	o	o	o	o	o
The private sectors	o	o	o	o	o
Local government	o	o	o	o	o
Regional government	o	o	o	o	o
Watershed Management Council	o	o	o	o	o

18. What do you think have been the main limitations to the HELP approach in Davao?

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Top three limitations

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- Lack of funding
  - Lack of leadership
  - Unclear mandate
  - Poor institutional arrangements
  - Insufficient co-ordination with key stakeholders
  - Lack of capacity to enforce policy decisions
  - Lack of new scientific data produced
  - Failure to fully utilize local partners strengths
  - Other
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19. In your opinion what should be the key focus areas for HELP Davao? Drag and drop the three most important focus areas.

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Top three priority focus areas

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- Advocating for sound science in decision making
  - Capacity building in hydrological science
  - Conducting participatory reviews of existing policy
  - Developing joint data collection systems to address knowledge gaps
  - Enabling dialog outside formal decision making forums
  - Sharing knowledge and approaches from other river basins
  - Re-framing issues and identifying alternative options
  - Other
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20. Finally, are there any further concerns that you would like to share?