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**Bridging the gap between bird conservation and sustainable development : perceptions and participation of rural people in Burkina Faso's Sahel region**

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# Annexes

## Annex 1.1 Research Questionnaires

Note 1: All open questions; no answer categories were provided.

Note 2: Questions regarding the cause of problems were (often) not included, but were asked specifically if not evident from their answers regarding the possible solutions to problems.

### Urban research areas

#### **Foreign and Burkinabé organizations**

- *Name, address & contact details*

##### a) Organization

- 1) What is your position and what are your main activities?
- a) How long have you held this position and what was your previous job/function?
  - 2) What are your organization's/department's main activities, objectives, strategies, and in which geographical regions is it active (in LCG areas)?
  - 3) Who are the organization's partners, and with whom, and in what way, does the organization collaborate? (local inhabitants? international organizations?)
  - 5) How are decisions made, programmes/projects designed, and information gathered and knowledge created? (What is the role of local inhabitants and international organizations?)
  - 6) What, in your opinion, are the strengths, weaknesses, opportunities and threats associated with the organization's NRM structures and processes (SWOT analysis of NRM negotiation processes, including those with local populations if applicable)?
  - 7) How are the organization/department and projects/programmes financed?
  - 8) To what extent are environmental (including specifically bird related) aspects regarded as important in the department/organization, and why? (from an organization's perspective)

##### b) General

- 9) How are land use, NRM, bird/biodiversity conservation, (sustainable) development institutionally arranged?
- 4) Who are the actors (formal and informal) in National Resource Management (NRM)? (local and international actors?)
- 10) What legislation is in place regarding NRM and environmental aspects in land use and bird/biodiversity conservation? (or: What is the (main) land use, NRM, environmental, and bird (related) legislation?)
- 11) What (major) projects and programmes exist regarding land use, NRM, bird/biodiversity conservation and sustainable development?
- 12) Which research institutes address NRM and environmental issues?

## c) Personal

- 13) What is your personal opinion of NRM and bird/biodiversity conservation?
- 14) Are you aware of any related/similar research?
- 15) Which persons do you recommend that I contact regarding my research?
- 16) Do you have any comments and/or suggestions regarding my research (questionnaire), including certain aspects/subject I should include/omit?
- 17) Do you know the Burkinabe organization *NATURAMA*, (and what do you know about them)?
- 18) Do you have any documents regarding your organization's strategies, processes, projects etc.?

## d) Optional (Depending on interviewee's position and background, and his/her willingness to continue)

- 18) What are the major changes and trends in demography and land use in Burkina Faso and the rural research areas?
- 19) What do you believe the (potential) opportunities are that would bring benefit from the environment?

Rural research areas**Government, NGOs & religious leaders (& COs):**

- *Name, age, address (since when?), contact details, ethnicity, religion, marital status, (number of) children, education level, literate, French speaking and writing, main activities, own farmland and/or livestock (species and numbers), member of any (social, political) group?*

## a) Organization/position

- 1) What is your position and what are your main activities?
  - a) How long have you held this position and what was your previous job/function?
- 2) What are your organization's/department's main activities, objectives, strategies, and in which geographical regions is it active?
- 3) Who are the organization's partners, and with whom, and in what way, does the organization collaborate?
- 4) How are decisions made, programmes/projects designed, and information gathered and knowledge created?
- 5) How are the organization/department and projects/programmes financed?
- 6) Are there environmental, conservation and/or National Resource Management (NRM) aspects(/activities) to your work? If yes, what?
- 7) To what extent are environmental (including specifically bird related) aspects regarded as important in the department/organization, and why? (from an organization's perspective)

Note) If time, etc. allows, include a-e, otherwise only d & e

## b) Institutional arrangement (local context)

- 8) How are land use, NRM, bird/biodiversity conservation, (sustainable) development institutionally arranged?

- 9) What is the (main) land use, NRM, environmental, and bird (related) legislation?
  - 10) What are the (major) projects and programmes regarding land use, NRM, bird/biodiversity conservation and sustainable development?
  - 11) Is zoning applied in land use; if so, what are the details (e.g. timing and activities permitted)?
- c) Environment (local context)
- 12) What are the main problems/issues in local people's lives?
  - 13) What are the main local land use conflicts, including specifically those caused by human migration?
  - 14) What are the main local environmental problems and issues?
  - 15) What solutions do you suggest for the above mentioned problems?
  - 16) What do you believe the (potential) opportunities are that would bring benefit from the environment?
- d) Birds
- 17) What do you think of (wild) birds (importance, menace, aesthetic value)?
    - a. Does your view differ between bird species?
  - 18) What are the main threats to birds?
  - 19) What are your thoughts on bird conservation?
  - 20) Are birds protected, and which ones?
    - a) How do you think we can protect wild birds?
  - 21) Do you know the Burkinabe organization *NATURAMA*; if so, what do you know about this organization?
  - 22) Do you know the Local Conservation Group; if so, are you a member of the LCG, and why (not)? Also, what do you think of the LCG?
- e) Personal
- 23) What is your personal opinion of NRM and bird/biodiversity conservation?
  - 24) Do you have any comments and/or suggestions regarding my research (including certain aspects/subject I should include/omit)?
  - 25) Are you aware of any related/similar research or surveys?
  - 26) Which persons do you recommend that I contact regarding my research?
- f) Optional
- Depending on interviewee's function and background, ask about changes and trends in demography and land use in research area.

**LCG board members & CO board members:**

- Name, age (estimate), address (since when), ethnicity, religion, marital status, (number of) children, education level, literate, French speaking and writing, main activities, own farmland and/or livestock (species and numbers), member of any (social, political) group?

Adjusted from: *Guidelines for Site Support Group Institutional Analysis. BirdLife International guidelines serie for IBAs projects.*

**1. General information**

- 1.1 Name of the Site Support Group/Community Based Organization
- 1.2 Date that the LCG/CO was established
- 1.3 Why was the LCG/CO established? Was there any involvement of an NGO/Government?
- 1.4 Does the LCG/CO have any legal status? If so, provide details.
- 1.5 Does the LCG/CO have an annual budget or bank account? If so provide approximate details (annual budget [US\$], savings)
- 1.6 What is their total annual expenditure?

**2. Membership**

- 2.1 Number of members, and/or participants? (Persons or groups?)
- 2.2 Number of men; number of women?
- 2.3 Is the membership of the LCG/CO representative of the wider community? If not, how does it differ?
  - a) Where do the members live?
- 2.4 Can anyone in the community participate? (If not, what are the conditions for membership?)
- 2.5 Provide a profile of LCG/CO membership (i.e. what kind of people are members – young/old; educated/uneducated; men/women; particular ethnic groups; particular occupations or interests)
- 2.6 What is the main motivation for people's membership?
- 2.7 What are the responsibilities of the members?
- 2.8 Does the LCG/CO have any paid members – or are they all volunteers?
- 2.9 Do members receive anything for participating in activities?
- 2.10 Do members pay a joining fee and/or contribution? If yes, how often and how much? And in practice?
- 2.11 Has the LCG/CO received any grants, or implemented any projects before? If so, provide details (size of grant, donor, dates, purpose of project, success of project)
- 2.12 Does the LCG/CO have any other income/financial sources? (provide details)

**3. Governance and decision-making**

- 3.1 Does the LCG/CO have an institutional structure (e.g. board, chairman, committees). If so, please describe it (provide an organizational diagram if that helps).
- 3.2 If there are office holders (board, chairman, treasurer etc.) how are they elected?
- 3.3 How are decisions made by the LCG/CO? (including planning, authorization, and information gathering)

#### 4. Objectives, activities and planning

- 4.1 What are the LCG/CO's main activities (past and present)?
- 4.2 Are there any environmental and/or (bird) conservation activities?
  - a) Ask if scheduled meetings, education campaign, tree planting, bird surveys or other activities take place; if so: how often, by whom, and when (were the last ones held)?
- 4.3 Does the LCG/CO have objectives; a work plan? If so, provide details.
- 4.4 Does the LCG/CO have a Mission Statement? If so, please provide details.
- 4.5 Have the initial objectives been achieved? If not, why not?

#### 5. Linkages and networking

What linkages does the LCG/CO have (In each case where a linkage exists, describe the nature of the relationship/linkage, what its purpose was/is, what was achieved, when the relationship/linkage existed (i.e. when there was last any communication, etc.):

- 5.1 Within the village/community (e.g. to other COs, to the village council)
- 5.2 Within the region (e.g. neighbouring villages)
- 5.3 With local/regional decision-makers and institutions (e.g. District Councils, district departments of government, regional NGOs)
- 5.4 With national decision-makers and institutions (e.g. government departments, national NGOs, national forums)
- 5.5 Internationally (e.g. international NGOs, international agencies)

In each case where a linkage exists, describe the nature of the relationship/linkage, what its purpose was/is, what was achieved, when the relationship/linkage existed (i.e. when there was last any communication, etc.)

#### 6. Strengths, weaknesses, opportunities, threats

- 6.1 What are the perceived strengths, weaknesses, opportunities and threats associated with the LCG/CO?

#### 7. Personal opinions

- 7.1 Do you regard the environment as important, and why (not)?
- 7.2 What do you think of (wild) birds (importance, menace, aesthetic value)?
- 7.3 Do you hunt birds?
- 7.4 What are the main threats to birds (and cause behind threat), and what are your thoughts on bird conservation?
- 7.5 Are wild birds protected and do you/people obey the law?
- 7.6 Do you know the LCG/*Naturama*? (For CO's only)
  - a) If yes, why and what do you know about them?

#### 8. Additional questions (if time, etc. allows):

- 8.1 Specifically ask who are all the stakeholders in bird conservation and NRM?
- 8.2 Furthermore, talk about (potential) opportunities to bring benefit from the environment

**LCG (board) members:**

*Name, age (estimate), address (since when), ethnicity, religion, marital status, (number of) children, education level, literate, French speaking and writing, main activities, own farmland and/or livestock (species and numbers), member of any (social, political) group?*

## a) General

- 1) What are the main problems/issues in your life?
- 2) What are the main local land use conflicts, including specifically those caused by human migration? (b) Is there any zoning in land use, and what are the details (e.g. timing and activities permitted)?
- 3) What are the main local environmental problems?
- 4) What solutions do you suggest for the above mentioned problems and issues?
- 5) (How) does, and (how) could, the Site Support Group (LCG) help to solve these problems?
- 6) Is zoning applied in land use; if so, what are the details (e.g. timing and activities permitted)?
- 7) For which purposes do you use the environment, and in which way?
- 8) What are (potential) opportunities to bring benefit from the environment?
- 9) Do you regard the environment as important, and why (not)?
- 10) What do you think of (wild) birds (importance, menace, aesthetic value)?
- 11) Do you hunt birds?
- 12) What are the main threats to birds (and cause behind threat), and what are your thoughts on bird conservation?
- 13) Are wild birds protected and do you/people obey the law?

## b) LCG

- 14) When and why did you join the LCG?
- 15) What is the LCG's mission and/or what are its objectives?
- 16) Does the LCG have any paid members – or are they all volunteers?
- 17) Do scheduled meetings, education campaign, tree planting, bird surveys or other activities take place; if so: how often, by whom, and when (were the last ones held)?
- 18) What are the activities of the LCG, and in which activities did you participate, and why?
- 19) Do you receive money for any activity? If so, how much, for what purposes do you use it, and what do you have to do in return?
- 20) What are the responsibilities of LCG members?
- 21) How are decisions made by the LCG?
- 22) What are the strengths, weaknesses, opportunities and threats associated with the LCG?



**Local inhabitants**

*Name, age (estimate), address (since when), ethnicity, religion, marital status, (number of) children, education level, literate, French speaking and writing, main activities, own farmland and/or livestock (species and numbers), member of any (social, political) group?*

- 1) What are the main problems/issues in your life?
- 2) (a) What are the main local land use conflicts, including specifically those caused by human migration? (b) Is there any zoning in land use, and what are the details (e.g. timing and activities permitted)?
- 3) What are the main local environmental problems?
- 4) What solutions do you suggest for the above mentioned problems and issues?
- 5) For which purposes do you use the environment?
- 6) Are you aware of any environmental legislation? If so, give details and explain how your use of the environment is influenced by legislation.
- 7) Do you regard the environment as important, and why (not)?
  - a) Do you (want to) protect the environment?
- 8) What do you believe are (potential) the opportunities that can bring benefit from the environment?
  - a) How do you think you will use the environment (more) in the future?
- 9) What do you think of (wild) birds (importance, menace, aesthetic value)?
- 10) Do you hunt birds?
- 11) What are the main threats to birds (and cause behind threat), and what are your thoughts on bird conservation?
- 12) Are wild birds protected and do you/people obey the law?
- 13) Do you know the Burkinabe organization *NATURAMA*, and if so, what do you know about this organization?
- 14) Do you know the Local Conservation Group; if so, are you a member of the LCG, and why (not)?
  - a) What are your thoughts on the LCG?
- 16) Do you work for, with, or deal in any way with any community organization?

## Annex 1.2 PADev additional details

Initial questions for each participant: *Name, age (estimate), address (since when?), ethnicity, religion, marital status, (number of) children, education level, literate, French speaking and writing, main activities, own farmland and/or livestock (species and numbers), member of any (social, political) group?*

PADev Module 2 (Historic profile): Extra attention was given to the domain ‘natural environment’. Also, with regards to the domain ‘socio-political’, we talked about how national and sub-national factors, such as legislation, the structure, accessibility and effectiveness of institutions, economic and sector (e.g. agriculture, forestry, energy) policies affect people’s livelihoods and their use of natural resources. Detailed descriptions of changes and trends in land use were asked for.

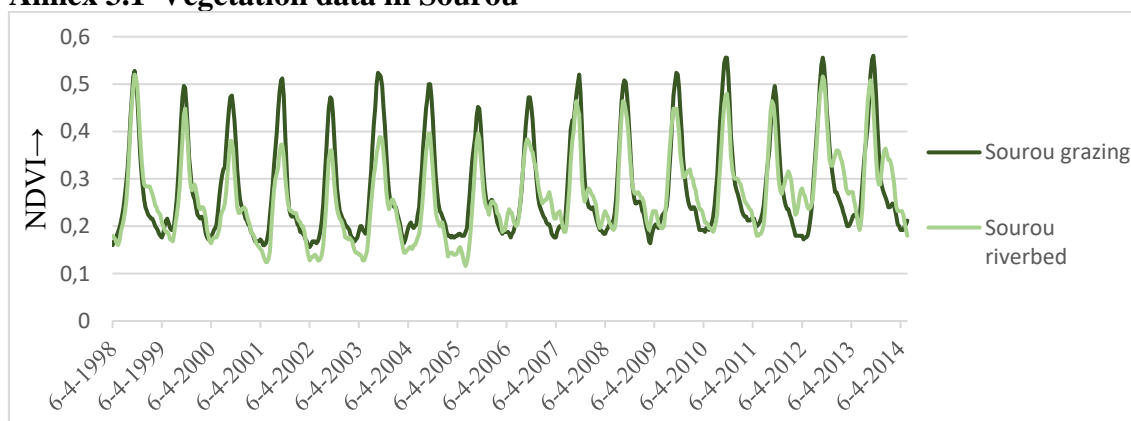
### Additional module: Relations between livelihoods and the environment/IBA

Talking about coping strategies, livelihood strategies and the role of birds and the environment (and the IBA) in people’s livelihood (see BirdLife, unpublished data, a; section ‘baseline survey’, point 3). In other words, how people’s livelihoods (and poverty) are related to birds and the environment. This module also included talking about people’s adaptations to environmental changes and natural disasters, including coping strategies and the role of the IBA in people’s coping strategies (see also BirdLife, unpublished data, b; especially section III.2).

### Additional module: Suggestions for improvement

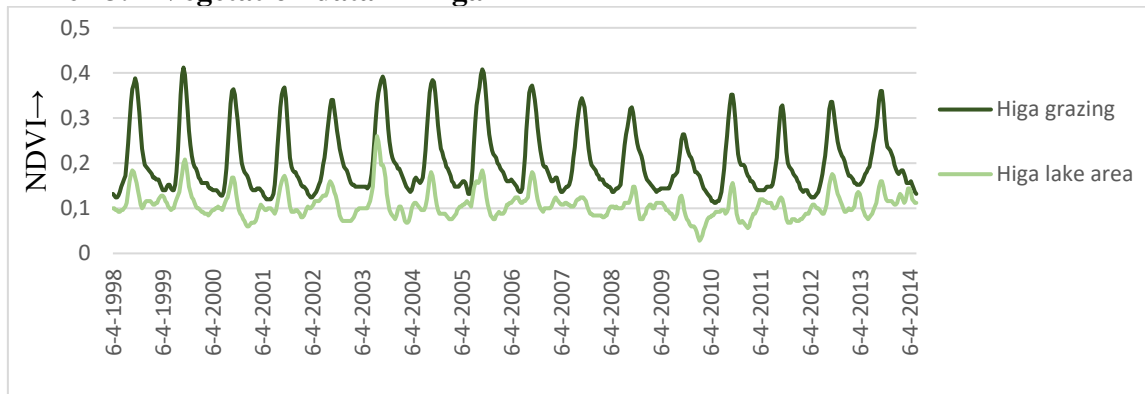
Participants were given the opportunity to elaborate on their perceived opportunities for improvement of (future) interventions, and suggestions for additional interventions.

## Annex 3.1 Vegetation data in Sourou



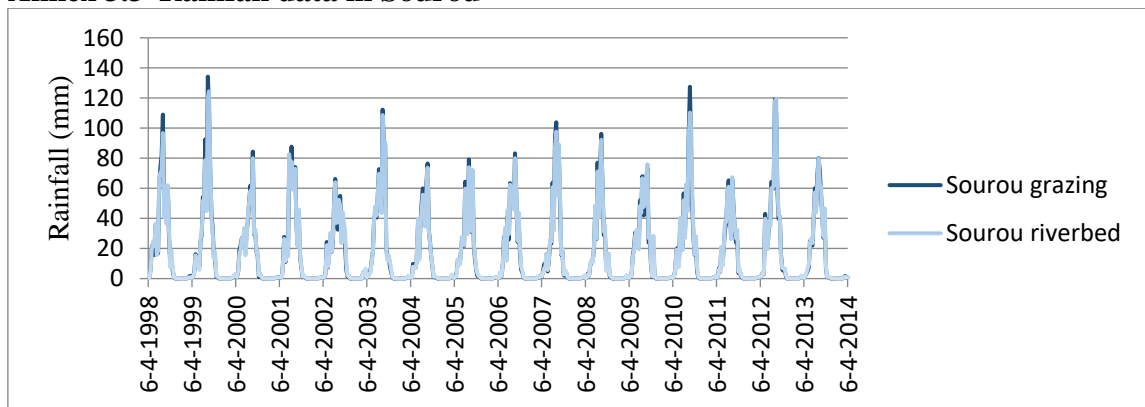
Explanation: SPOT-VEGETATION time series for two points: ‘Sourou grazing’ and ‘Sourou riverbed’, for the period 1998-2014. “Values of NDVI can range from -1.0 to +1.0, but values less than zero typically do not have any ecological meaning, so the range of the index is truncated to 0.0 to +1.0. Higher values signify a larger difference between the red and near infrared radiation recorded by the sensor – a condition associated with highly photosynthetically-active vegetation” (The Landscape Toolbox 2016; webpage).

**Annex 3.2 Vegetation data in Higa**



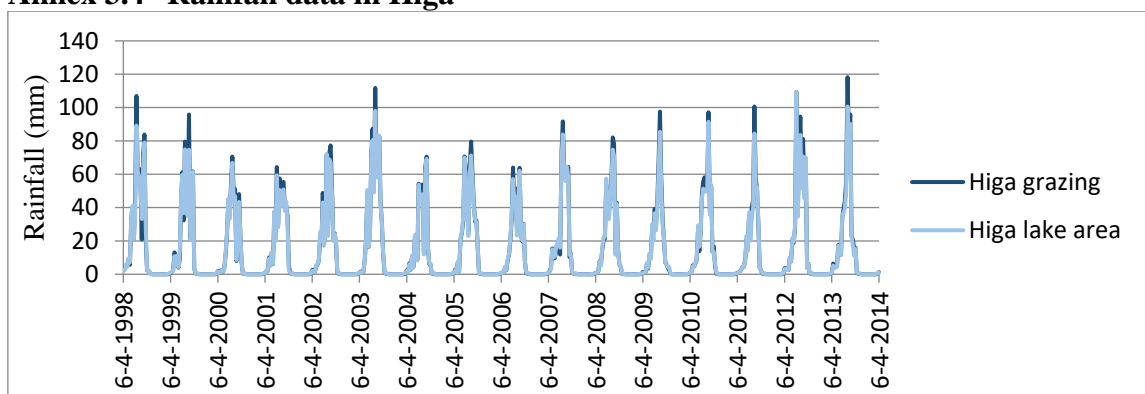
Explanation: SPOT-VEGETATION time series for two points: ‘Higa grazing’ and ‘Higa lake area’, for the period 1998-2014.

**Annex 3.3 Rainfall data in Sourou**



Explanation: CHIRPS time series for two points: ‘Sourou grazing’ and ‘Sourou riverbed’, for the period 1998-2014.

**Annex 3.4 Rainfall data in Higa**



Explanation: CHIRPS time series for two points: ‘Higa grazing’ and ‘Higa lake area’, for the period 1998-2014.

**Annex 5.1 Development actors: Websites & number of interviewees**

| Development actors  | Websites  | Interviewees |
|---|---|--------------|
| <i>BirdLife International</i>   | <a href="http://www.birdlife.org/worldwide/partnership/our-vision-mission-and-commitment">http://www.birdlife.org/worldwide/partnership/our-vision-mission-and-commitment</a>   | 2            |
| <i>Vogelbescherming Nederland</i>   | <a href="http://www.vogelbescherming.nl/over_ons/de_organisatie">http://www.vogelbescherming.nl/over_ons/de_organisatie</a>   | 2            |
| Marie Stopes International  | <a href="http://mariestopes.org/where-in-the-world#burkina-faso">http://mariestopes.org/where-in-the-world#burkina-faso</a>   | 1            |
| Broederlijk Delen   | <a href="http://www.broederlijkdelen.be/wat-we-doen">http://www.broederlijkdelen.be/wat-we-doen</a>   | 1            |
| Thamani   | <a href="http://www.thamani.be/index.php/thamani/valeurs">http://www.thamani.be/index.php/thamani/valeurs</a>   | 2            |
| L'Orange Bleue Afrique  | <a href="https://www.scribd.com/fullscreen/41886828?access_key=key-okztkbwc4vafkzh7eg">https://www.scribd.com/fullscreen/41886828?access_key=key-okztkbwc4vafkzh7eg</a>   | 3            |
| Autre Terre (Burkina Faso)  | <a href="http://www.autreterre.org/fr/medialibrary/9-burkina-faso-ouaga.aspx">http://www.autreterre.org/fr/medialibrary/9-burkina-faso-ouaga.aspx</a>   | 3            |
| IUCN (Burkina Faso)   | <a href="https://www.iucn.org/fr/propos/union/secretariat/bureaux/paco/paco_burkinafaso/presentation_bf/">https://www.iucn.org/fr/propos/union/secretariat/bureaux/paco/paco_burkinafaso/presentation_bf/</a>   | 1            |
| Eau Vive (Burkina Faso)   | <a href="http://www.eau-vive.org/fr/burkina-faso/association/missions-et-valeurs/">http://www.eau-vive.org/fr/burkina-faso/association/missions-et-valeurs/</a>   | 1            |
| Oxfam International (Burkina Faso)  | <a href="https://www.oxfam.org/en/countries/burkina-faso">https://www.oxfam.org/en/countries/burkina-faso</a>   | 2            |
| Christian Aid (Burkina Faso)  | <a href="http://www.christianaid.org.uk/whatwedo/africa/burkina-faso.aspx?Page=2">http://www.christianaid.org.uk/whatwedo/africa/burkina-faso.aspx?Page=2</a>   | 2            |
| Diobass Burkina Faso  | <a href="http://www.diobass-bf.org/Objectifs-finalites.html">http://www.diobass-bf.org/Objectifs-finalites.html</a>   | 1            |
| SNV (Burkina Faso)  | <a href="http://www.snvworld.org/en/countries/burkina-faso">http://www.snvworld.org/en/countries/burkina-faso</a>   | 4            |
| CIRAD (Burkina Faso)  | <a href="http://afrique-ouest-continentale.cirad.fr/le-cirad-en-afrique-de-l-ouest-continentale/burkina-faso">http://afrique-ouest-continentale.cirad.fr/le-cirad-en-afrique-de-l-ouest-continentale/burkina-faso</a>                                       | 1            |
| CIFOR   | <a href="http://www.cifor.org/about-cifor/">http://www.cifor.org/about-cifor/</a>   | 3            |
| NATURAMA  | <a href="http://www.NATURAMA.bf/spip.php?page=article&amp;id_article=2">http://www.NATURAMA.bf/spip.php?page=article&amp;id_article=2</a>   | 5            |
| ONG AGED Burkina Faso   | <a href="http://agedburkina.org/spip.php?page=agedburkina&amp;lang=en">http://agedburkina.org/spip.php?page=agedburkina&amp;lang=en</a>   | 1            |
| CILSS   | <a href="http://www.cilss.bf/spip.php?rubrique41">http://www.cilss.bf/spip.php?rubrique41</a>   | 1            |
| GIZ (GIZ FAFASO)  | <a href="https://www.giz.de/en/aboutgiz/identity.html">https://www.giz.de/en/aboutgiz/identity.html</a>   | 2            |
| PNUD/UNDP   | <a href="http://www.bf.undp.org/content/burkina_faso/fr/home/operations/about_undp.html">http://www.bf.undp.org/content/burkina_faso/fr/home/operations/about_undp.html</a>   | 2            |
| Ministère de l'Environnement et du Développement Durable (Générale)                                 | <a href="http://www.environnement.gov.bf/index.php/le-ministere/les-services-centraux/la-direction-des-amenagements-forestiers#">http://www.environnement.gov.bf/index.php/le-ministere/les-services-centraux/la-direction-des-amenagements-forestiers#</a> | 3            |
| Ministère de l'Environnement et du Développement Durable (La Direction Générale des Eaux et Forêts) | <a href="http://www.environnement.gov.bf/index.php/le-ministere/les-services-centraux/la-direction-generale-des-eaux-et-forets">http://www.environnement.gov.bf/index.php/le-ministere/les-services-centraux/la-direction-generale-des-eaux-et-forets</a>   | 3            |
| AMVS  | <a href="http://www.amvs.bf/spip.php?article4">http://www.amvs.bf/spip.php?article4</a>   | 2            |

**Annex 5.1 Development actors: Websites & number of interviewees, continued**

|   | Websites  | Interviewees |
|---|---|--------------|
| Development actors  |   |              |
| INERA Institut de l'Environnement et Recherches Agricoles | <a href="http://www.inera.bf/presentation/miss_attrib.htm">http://www.inera.bf/presentation/miss_attrib.htm</a>   | 2            |
| Université de Ouagadougou                                 | <a href="http://www.univ-ouaga.bf/spip.php?rubrique1">http://www.univ-ouaga.bf/spip.php?rubrique1</a>   | 2            |
| Université Polytechnique de Bobo-Dioulasso                | <a href="http://www.univ-bobo.bf/spip.php?page=article&amp;id_article=15">http://www.univ-bobo.bf/spip.php?page=article&amp;id_article=15</a>                             | 2            |
| Biovisio  | <a href="http://www.biovisiogmbh.de/en/bioviso/origins">http://www.biovisiogmbh.de/en/bioviso/origins</a>   | 2            |
| Roxgold   | <a href="http://www.roxgold.com/s/SocialResponsibility.asp">http://www.roxgold.com/s/SocialResponsibility.asp</a>   | 2            |
| Gebana Afrique  | <a href="http://www.gebana.com/en/principles/vision/">http://www.gebana.com/en/principles/vision/</a>   | 1            |
| Anatrans  | <a href="http://www.whitebirdinternational.nl/cm/49/wbi/burkina-faso/anatrans/about-us">http://www.whitebirdinternational.nl/cm/49/wbi/burkina-faso/anatrans/about-us</a> | 1            |
| Total   |   | 60           |

Note: development actors, actors' website (i.e. webpage with their mission statement or similar section, including, vision, objectives, commitment, cooperate responsibility, values, mandate, philosophy, policies, goal, about us, mandate and presentation), and number of interviewees.

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