DATA INNOVATION RISK ASSESSMENT TOOL



CHECKLIST Ø



Rationale for the checklist: Large-scale social or behavioural data may not always contain directly identifiable personal data and/or may be derived from public sources. Nevertheless, its use could potentially cause harm to individuals.

Data use should be always assessed in light of its impact (negative or positive) on individual rights. This risk assessment tool (or checklist) outlines a set of minimum checkpoints, intended to help you to understand and minimize the risks of harms and maximize the positive impacts of a data innovation project (and is intended primarily for projects implemented within international development and humanitarian organizations).

How to use the checklist: The checklist should be considered before a new project is launched, when new sources of data or technology are being incorporated into an existing project, or when an existing project is substantially changed. In particular, this assessment should consider every stage of the project's data life cycle: data collection, data transmission, data analysis, data storage, and publication of results. If possible, the questions raised by the checklist should be considered by a diverse team comprised of the project leader as well as other subject matter experts, including – where reasonably practical – a representative of the individuals or groups of individuals who could be potentially affected. Consider consulting with data experts, data privacy experts, and legal experts so that they can assist with answering these questions and help to further mitigate potential risks, where necessary.

Note that the checklist was developed by Global Pulse as part of a more comprehensive Risk, Harms and Benefits Assessment, consisting of Two Steps: (I) Initial Assessment and (II) Comprehensive Risks, Harms and Benefits Assessment. This checklist is an Initial Assessment that should help to determine whether a more comprehensive Risk, Harms and Benefits Assessment should be conducted.

Nature of the checklist: This checklist is not a legal document, and is not based on any specific national law. It draws inspiration from international and regional frameworks concerning data privacy and data protection. The document provides only a minimum set of questions and guiding comments. The checklist and guiding comments are designed primarily as a general example for internal self-regulation. As this checklist offers only minimum guidance, you are encouraged to expand the list depending on the project's needs, risks, or specific context, or in response to the evolving data landscape.

Depending on the implementing organization (its legal status/nature) and applicable laws, the guiding principles, standards and basis for answering these questions may need to be changed.

The latest version of this checklist and the full version of the comprehensive assessment will be made available at a later stage (independently of this publication) and will be available at www.unglobalpulse.org/privacy. For more information or to provide input on the checklist, please contact dataprivacy@unglobalpulse.org. This checklist is a living document and will change over time in response to the evolving data landscape.

Instructions for completion

Please be sure to answer all of the questions by choosing at least one of the following answers: "Yes," "No," "Don't Know," or "Not Applicable." Please use the comments column to explain your decision where necessary.

For every "Not Applicable" answer, please provide an explanation in the comments. Every "Don't Know" answer should be automatically considered a risk factor that requires further consultation with a domain expert before a project is undertaken. Once you have properly consulted with an expert regarding the issue, please be sure to go back to the checklist and change your answer in the form to finalize your checklist.

A final decision based on the checklist should not be made if there is any answer marked "Don't Know."



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Part 1: Type of Data

Personal Data: For the purposes of this document, personal data means any data relating to an identified or identifiable individual, who can be identified, directly or indirectly, by means reasonably likely to be used related to that data, including where an individual can be identified from linking the data to other data or information reasonably available in any form or medium. If you are using publicly available data, note that this data can also be personal, and therefore may involve some of the same considerations as non-public personal data.

| other data or information reasonably available in any form or medium. If you are therefore may involve some of the same considerations as non-public personal | | |
|--|---|--|
| 1.1 Will you use (e.g. collect, store, transmit, analyse | e etc.) data that directly identifies individuals? | |
| Personal data directly relating to an identified or identifiable individual may inclu phone number, email address, ID/social security number, IP address, device identifications. | | |
| ☐ Yes ☐ No | Comments: | |
| ☐ No ☐ Don't Know ☐ Not Applicable | | |
| 1.2 Will you use data that does not directly identify out a unique individual by applying existing and re- | | |
| Keep in mind that de-identified data (e.g., where all personal identifiers - such as linked to an individual(s) or group(s) of individuals, can still single out an individual and intent, and thus may require the same level of protection as explicit personal identifiable, consider all of the means reasonably likely to be used to single out re-identification include availability of expertise, costs, amount of time required for the same re | al(s) or group(s) of individuals with the use of adequate technology, skills, il data. To determine whether an individual(s) or group(s) of individuals is an individual or group(s) of individuals. Factors that influence a likelihood or | |
| NoDon't KnowNot Applicable | | |
| 1.3 Will you use sensitive data? | | |
| Any data related to (i) racial or ethnic origin, (ii) political opinions, (iii) trade union association, (iv) religious beliefs or other beliefs of a similar nature, (v) physical or mental health or condition (or any genetic data), (vi) sexual orientation; (vii) the commission or alleged commission of any offence, (viii) any information regarding judicial proceedings, (ix) any financial data, or any information concerning (x) children; (xi) individual(s) or group(s) of individuals, who face any risks of harm (physical, emotional, economical etc.) should be considered as sensitive data. Consider that the risk of harm is much higher for sensitive data and stricter measures for protection should apply if such data is explicit personal data or is reasonably likely to identify an individual(s) or a | | |
| group of individuals. Yes | Comments: | |
| □ No□ Don't Know□ Not Applicable | | |
| NEXT STEP: As you go through the remaining sets of questions, please keep the data type y least one of the question above, the risk of harms is increased. | rou identified in the section above in mind. If you answered "YES" to at | |
| Part 2: Data Access | | |

2.1 Means for data access

This question aims to help you understand the way in which you have obtained your data, to ensure that there is a legitimate and lawful basis for you to have access to the data in the first place. It is important to understand that whether directly or through a third party contract, data should be obtained, collected, analyzed or otherwise used in conformity with the purposes and principles of the Universal Declaration of Human Rights and the International Covenant on Civil and Political Rights and other applicable laws, including privacy laws.



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| How was | s the data obtained? (Choose from one of th | ne answers below) |
|---|--|---|
| | A. Dina akku fuana in diriidu al/a) /a ar arumusu) | Comments: |
| | A: Directly from individual(s) (e.g., survey) B: Through a data provider | |
| | (e.g. website, social media platform, telecom operator) | |
| | C: Don't know | |
| NEXT STEP |)• | |
| If you answer | | airness of data access and use." If you selected "B," you can skip 2.2 and d "C", consult with your legal expert before proceeding further. |
| 2.2 Legit | timacy, lawfulness and fairness of data acce | ess and use |
| Personal dat individual wh an internatio protect the v must be care | a use may be based, for example, on one or more of the following nose data is used; ii) authority of law; iii) the furtherance of international intergovernmental organization is the holder of the mandate vital interest of an individual(s) or group(s) of individuals. Keep in a | d and otherwise used through lawful, legitimate, and fair means. Ing legitimate bases, subject to applicable law: i) consent of the ational (intergovernmental) organizational mandates (e.g. in case where and is the implementer of a data project); iv) other legitimate needs to mind that the legitimacy and lawfulness of your right to use the data egal status of your organization; and the above bases (i- iv) are only |
| being used. likely to caus | Specifically, to ensure that data use is fair, data should not be us | account the legitimate interests of those individuals whose data is sed in a way that violates human rights, or in any other ways that are of individuals. It is recommended that the legitimacy and fairness of data use. |
| originally obt | | arpose of data re-use falls outside of the purpose for which consent was adequately informed. Thus, it is important to consider assessing the een obtained. |
| (e.g., in emer practical to o group(s) of in additional de | rgencies where you may no longer be in contact with the individ obtain informed consent, as a last resort, data experts may still condividuals (e.g., to save their life, reunite families etc.). In such ins | ection, re-use of data often presents difficulties for obtaining consent uals concerned). In situations where it is not possible or reasonably onsider using such data for the best or vital interest of an individual(s) o tances, any decision to proceed without consent must be based on an tion and must be found fair, lawful, legitimate and in accordance with the excessive in relation to the expected benefits of data use). |
| Do you h | nave a legitimate basis for your data access | and use? |
| | Yes | Comments: |
| | No | |
| | Don't Know Not Applicable | |
| | Not Applicable | |
| 2.3 Due | diligence on third party data providers | |
| media platfo basis to coll has obtained | orm, web site). It is important that you verify, to the extent reas ect and share the data with you for the purposes of your pro | er obtained data from a third party (e.g. telecom operator, social sonably practical, whether your data provider has a legitimate ject. For example, have you checked whether your data provider line terms of use) or has another legitimate basis for sharing the on "Lawfulness, legitimacy, and fairness" above) |
| Does you | | provide access to the data for the purpose of |
| | Yes | Comments: |
| | No | |
| | Don't Know | |
| | Not Applicable | |





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| Pa | rt | 3: | Data | Us | e |
|----|----|----|-------------|----|---|
|----|----|----|-------------|----|---|

3.1 Purpose specification

The purpose of data use should be legitimate and as narrowly defined as practically possible. Furthermore, requests or proposals for data

| access (or collection where applicable) should also be narrowly tailored where applicable) should be articulated no later than the time of data a concentrate on the reason why you need the data. Also, think about ar | ccess (or collection where applicable). In answering this question, | |
|---|---|--|
| Have you defined the purpose for which you will be practically as possible? | e using the data as narrowly, reasonably and | |
| ☐ Yes | Comments: | |
| □ No | | |
| ☐ Don't Know | | |
| ☐ Not Applicable | | |
| 3.2 Purpose compatibility | | |
| Any data use must be compatible to the purposes for which it was obtincompatible. In determining compatibility consider, for example, how group(s) of individuals; the type of data you are working with (e.g. publidentity of individuals whose data is used (e.g. anonymization, encryptideviation from the purpose for which the data was obtained. (See note | deviation from your original purpose may affect an individual(s) or ic, sensitive or non-sensitive); measures taken to safeguard the on). There must be a legitimate and fair basis for an incompatible | |
| Is the purpose for which you will be using the data obtained the data? | compatible with the purpose for which you | |
| ☐ Yes | Comments: | |
| □ No | | |
| ☐ Don't Know | | |
| ☐ Not Applicable | | |
| 3.3 Data minimization | | |
| Data access, analysis, or other use should be kept to the minimum ampoints 3.1 and 3.2). Data access, collection, analysis or other use shoul for which the data has been obtained. Data should only be stored for a legitimate, and fair. The data should be deleted and destroyed at the consider if at any point in time in your project cycle you have the minimum. | d be necessary, adequate, and relevant in relation to the purposes as long as necessary, and any retention of data should be lawful, conclusion of the necessary period. In answering this question, | |
| Are all the data that you will be using (including its storage) necessary and not excessive? | | |
| ☐ Yes | Comments: | |
| □ No | | |
| ☐ Don't Know | | |
| ■ Not Applicable | | |
| | | |

3.4 Regulation and legal compliance

Make sure that you have obtained all regulatory and other required authorizations to proceed with the Project. (For example, the use of telecom data may be restricted under telecommunication laws, and additional authorizations may be needed from a telecommunication regulator; or the transfer of data from one country to another may need to comply with rules concerning trans-border data flows). Furthermore, to ensure that you have complied with the terms under which you have obtained the data, you should check existing agreements, licenses, terms of use on social media platforms or terms of consent. If you are uncertain about this question, you should consult with your privacy and legal expert.



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| Is your use of the data compliant with (a) applicable laws and (b) the terms under which you obtained the data? | | | |
|--|--|--|--|
| | Yes | Comments: | |
| | No | | |
| | Don't Know | | |
| | Not Applicable | | |
| | | | |
| 3.5 Data | quality | | |
| | | ecessary, to determine the relevance and quality of data sets. Data s, including giving rise to unlawful and arbitrary discrimination. | |
| Is your da | ata adequate, accurate, up to date, rel | iable and relevant to the purpose of the project? | |
| | Yes | Comments: | |
| | No | | |
| | Don't Know Not Applicable | | |
| | Not Applicable | | |
| 3.6 Data | Security | | |
| Taking into account the available technology, cost of implementation and data type, robust technical, organizational safeguards and procedures, including efficient monitoring of data access and data breach notification procedures, should be implemented to prevent any unauthorized use, disclosure or breach of data. Embedding principles of privacy by design and employing privacy enhancing technologies during every stage of the data life cycle is recommended as a measure to ensure robust data protection. Note that proper security is necessary in every stage of your data use. In considering security, special attention should be paid when data analysis is outsourced to subcontractors. Data access should be limited to authorized personnel, based on the need-to-know principle. Personnel should undergo regular and systematic data privacy and | | | |
| assessed. | trainings. Prior to data use, the vulnerabilities of the s | security system (including data storage, way of transfer etc.) should be | |
| When considering the vulnerability of your security, consider the factors that can help you identify "weaknesses" - such as intentional or unintentional unauthorized data leakage: (a) by a member of the project team; (b) by known third parties who have requested or may have access, or may be motivated to get access to misuse the data and information; or (c) by unknown third parties (e.g., due to the data or information release or publication strategy). | | | |
| It is generally encouraged that personal data should be de-identified, where practically possible, including using such methods as aggregation, pseudonymization or masking, to help minimize any potential risks to privacy. To minimize the possibility of re-identification, de-identified data should not be analyzed or otherwise used by the same individuals who originally de-identified the data. It is important to ensure that the measures taken to protect the data do not compromise the data quality, including its accuracy and overall value for the intended use. | | | |
| Have you employed appropriate and reasonable technical and administrative safeguards (e.g. strong security procedures, vulnerability assessments, encryption, de-identification of data, retention policies, confidentiality/non-disclosure, data handling agreements) to protect your data from intentional or unintentional disclosure, leakage or misuse? | | | |
| | Yes | Comments: | |
| | No Don't Know Not Applicable | | |



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Part 4: Communication about your project

4.1 Transparency

Transparency is a key factor in helping to ensure accountability, and is generally encouraged. Transparency can be achieved via communication about your project (including providing adequate notice about the data use, as well as the principles and policies governing the data use). Making the outcomes of your data innovation project public can also be important for innovation.

| 3 3 | the state of the s | |
|---|--|--|
| Note, that making data (produced as an output of your project) open is an element of transparency. If you decide to make a data set open, you must conduct a separate assessment of risks, harms and benefits. In this case, you may also want to provide transparent notices on the process and applicable procedures for making the data set open. | | |
| Did or will you communicate about the data use | (publicly or to other appropriate stakeholders)? | |
| ☐ Yes☐ No☐ Don't Know☐ Not Applicable | Comments: | |
| 4.2 Level of transparency | | |
| Being transparent about data use (e.g., publishing data sets, publishing an organization's data use practices, publishing the results of a data project, etc.) is generally encouraged when the benefits of being transparent are higher than the risks and possible harms. Also note, that level of detail (e.g., the level of aggregation) in a data set that is being made open should be determined after a proper assessment of risks and harms. | | |
| Particular attention should be paid to whether, for example, publishing non-sensitive details about a project or making non-identifiable datasets open can cause a mosaic effect with another open datasets. Accidental data linking or mosaic effect can make an individual(s) or group(s) of individuals identifiable or visible, thus exposing the individual(s) or group(s) of individuals to potential risks of harms. | | |
| Are there any risks and harms associated with the publication of the collected data or resulting reports and are they proportionately high compared to the benefits? | | |
| ☐ Yes | Comments: | |
| ☐ No ☐ Don't Know ☐ Not Applicable | | |
| Part 5: Third Parties | | |
| 5.1 Due diligence in selecting partner third parties (e.g., research partners and service providers, including cloud computing providers, etc.). | | |

Frequently, data related initiatives require collaboration with third parties-data providers (to obtain data); data analytics companies (to assist with data analysis); and cloud or hosting companies (for computing and storage). It is therefore important that such potential collaborators are carefully chosen, through a proper due diligence vetting process that also includes minimum check points for data protection compliance, the presence of privacy policies, and fair and transparent data-related activities.

It is also important to ensure that third party collaborators are bound by necessary legal terms relating to data protection. These may include: non-disclosure agreements and other agreements containing appropriate terms on data handling; data incident history; adequate insurance, data transfer and data security conditions among other matters.

Cloud hosting. Many projects may use cloud or other hosting services, meaning that your organization does not maintain security of the hardware. It is important to ensure that your chosen cloud or hosting provider, and the data center in which they operate, have appropriate standards of security. Security certifications could be good evidence of your cloud provider's security compliance. When considering cloud storage and computing, take into account where the data will be actually located to understand potential vulnerabilities, compliance with laws, the special status of an implementing organization, including their privileges and immunities, where applicable, or rules concerning trans-border data flows.

□ Don't Know□ Not Applicable



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| Part 6: Risks and Harms Any risks and harms assessment should take into consideration the context of data use, including social, geographic, political, and religious factors. For example, analyses of the movement of vulnerable groups during humanitarian emergencies in conflict-affected zones could also be used by non-intended users of data to larget them with discrimination or persecution. Any Risk Harms and Renefits Assessment should consider the impact that data use may neve on an individuality andior grouple) of individuals, whether legally visible or not, and whether known or unknown at the time of data use. When assessing your data use, consider how it, effects individual rights. Rether than taking rights in opposition to each other, assessing the effect of data use in individual rights in compactants is recommended wherever possible. Use of data should be based on the principle of proportionality, in particular, any potential risks and harms should not be excessive in relation to the positive impacts (expected benefits) of data use. In answering questions of and 62 below was consider any potential risks and harms associated with jor that could result from every "No" enswer or "Don't Know" enswer that you selected in the Sections above. 6.1 Risks: Does your use of data pose any risks of harms to individuals or groups of individuals, whether or not they can be directly identified, visible or known? Blues should be assessed apparately from harms. Note that not all risks may lead to harms. In assureing this question, it is important to concentrate on the likely pinds. Types of risks may very depending on the correct. For example, some of the risks that should be considered include data leakage, because the principle of the principle of propertional production of a new data set. Such an outcome should be considered as a risk that can be produced as a result of data use. (In many story and prefile before any further use/doclours. Also, considered bias as a risk that can be produced as a result of data use. | Are your partners, if any, compliant with at least as strict standards and basic principles regarding data privacy and data protection as outlined in this checklist? | | |
|--|--|--|--|
| Part 6: Risks and Harms Any risks and harms assessment should take into consideration the context of data use, including social, geographic, political, and religious factors. For example, analysis of the movement of valinerable groups during humanitarian emergencies in conflict-effected zones could also be used by non-intended users of data to target them with discrimination or presecution. Any Risk, Harms and Benefits Assessment should consider the impact that data use may have on an individual(s) and/or group(s) of individuals, whether legably visible or not, and whether known or unknown at the time of data use. Any Risk, Harms and Benefits Assessment should consider the impact that data use may have on an individual(s) and/or group(s) of individuals, whether legably visible or not, and whether known or unknown at the time of data use. Any Risk, Harms and Benefits Assessment should consider the impact that data use may have on an individual(s) and/or group(s) of individuals, whether legably visible or not, and whether known or unknown and the data use in the secretion of the post individual in gints in conjunction is recommended wherever possible. Use of data should be based on the principle of proportionality in particulate any individual in gints in conjunction is recommended wherever possible. Use of a data should be based on the principle of proportionality in particulate any individual in gints in conjunction in the Sections above. 6.1 Risks: Does your use of data pose any risks of harms to individuals or groups of individuals, whether or not they can be directly identified, visible or known? Risks should be assessed separately from harms. Note that not all risks may lead to harms. In answering this question, it is important to concentrate on the likely risks. Types of risks may vary depending on the context. For example, some of the risks that should be considered include data leakage, the proposal p | □ Yes | Yes | Comments: |
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| When assessing your data use, consider how it affects individual rights. Rather than taking rights in apposition to each other, assessing your data use, consider how it affects individual rights in conjunction is recommended wherever possible. Use of data should be based on the principle of proportionality, in particular, any potential risks and harms should not be excessive in relation to the positive impacts (expected benefits) of data use. In answering questions 6.1 and 6.2 below also consider any potential risks and harms associated with (or that could result from) every "No" answer or "Don't Know" answer that you selected in the Sections above. 6.1 Risks: Does your use of data pose any risks of harms to individuals or groups of individuals, whether or not they can be directly identified, visible or known? Risks should be assessed separately from harms. Note that not all risks may lead to harms. In answering this question, it is important to concentrate on the likely risks. Types of risks may vary depending on the context. For example, some of the risks that should be considered include data leakage, breach, unauthorized disclosure (intentional or unintentional), timuse beyond the purposes for which the data was obtained/or intended to be used by your organization, risk of re-identification or singling out, data not being complete or of good quality, etc. Note that typically data analytics result in the production of a new data set. Such an outcome should be considered as a risk as well, and must be separately assessed for risks, harms and benefits before any further use/disclosure. Also, consider bias as a risk that can be produced as a result of data use. In many cases, bias can requirely effect an incividually or group(s) of individuals and lead to harms). If you have identified potential risks, please ensure to employ the necessary mitigation measures to reduce such risks to a minimum. Ensuring proper data security is one of many strong mitigation measures (see Section 3.6). If you do not know what | example, analy | ysis of the movement of vulnerable groups during humanita | |
| on individual rights in conjunction is recommended wherever possible. Use of data should be based on the principle of proportionality. In particular, any potential risks and harms should not be excessive in relation to the possible impacts (expected benefits) of data in answering questions 61 and 6.2 below also consider any potential risks and harms associated with (or that could result from) every "No" answer or "Don't Know" answer that you selected in the Sections above. 61. Risks: Does your use of data pose any risks of harms to individuals or groups of individuals, whether or not they can be directly identified, visible or known? Risks should be assessed separately from harms. Note that not all risks may lead to harms. In answering this question, it is important to concentrate on the likely risks. Types of risks may vary depending on the context. For example, some of the risks that should be considered include data leakage, breach, unauthorized disclosure (intentional or unintentional), intentional data misuse beyond the purposes for which the data was obtained/or intended to be used by your organization, risk of re-identification or singling out, data not being complete or of good quality, etc. Note that typically data analytics result in the production of a new data set. Such an outcome should be considered as a risk as well, and must be separately assessed for risks, harms and benefits before any further use/disclosure. Also, consider bias as a risk that can be produced as a result of data use. (In many cases, bias can negatively affect an individual(s) or group(s) of individuals and lead to harms). If you have identified potential risks, please ensure to employ the necessary mitigation measures to reduce such risks to a minimum. Ensuring proper data security is one of many strong mitigation measures (see Section 3.6). If you do not know what kind of risks exist or whether the risks are likely, it is recommended that you perform a more comprehensive Risk, Harms and Benefits Assessment (as a Step 2). | | | |
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| | | | Comments: |





DATA INNOVATION RISK ASSESSMENT TOOL

Part 7: Decision and rationale for decision

| Final Assessment | | |
|--|--|--|
| Based on your answers in Sections 1-7, explain if the risks and resulting harms are disproportionately high compared to the expected positive impacts of this project. | | |
| | | |
| Questions 1.1 – 1.3; 4.2; 6.1-6.2 answered as "Yes" mean that the ris Questions 2.1 – 2.3; 3.4-3.6; 4.1; 5.1 answered as "No" mean that the | | |
| If you answered "Don't Know" to any of the questions, consider it a questions are answered "Yes", "No" or "Not Applicable". | as a "risk factor". You should not complete this assessment unless all | |
| If you have answered "Not applicable", you should make sure that | you explained why it is not applicable in the Comments column. | |
| If you found any risks, you should assess the likelihood of the risks and likelihood, magnitude and severity of the resulting harms and make sure to mitigate them before the project is undertaken. | | |
| If you identify that some of the risks or harms are unclear, or high, then you should perform a more comprehensive Risk, Harms, Benefits Assessment as a Step 2 (as mentioned in the Introduction) and engage data security, privacy and legal experts. | | |
| If you have found that the likelihood of risks and harms is very low (or non-existent) in comparison to the probability of the positive impact, you should now proceed with your project. Always bear in mind you should implement as many mitigation measures for the identified risks (even if low). | | |
| Review team | | |
| Person who performed the assessment This should be filled out and signed by the lead person responsible Name: Title: Sign: | for conducting the assessment Comments: | |
| People who participated in or reviewed the assest Legal Expert) This should be filled out by those who assisted the lead person in maguestions raised above, if any (add additional reviewers, if neccessed answered. If this person also helped to determine the final outcome section. Name: | aking the decision or who have been consulted on specific ary). You can indicate the specific questions that this person | |
| Title: Sign: | | |