Environmental Dimension

Forms:

To whom	Form	Description	
Interviewer	Guiding question	Questions in plain language questions, with examples and with check boxes not to forget anything	
Interviewer	Key points of interview	To help with notes taking and to guide final questions. Print from the PPT file in this folder.	
Interviewee	Interview questions	To help to visualize and go back to previous points	

Instructions:

- 1. Explain the purpose of the interview and ask the interviewee to sign then consent form
- 2. Hand out to the interviewee the "Interview questions" form
- 3. Ask questions in "Guiding questions" form
- 4. During the interview, make notes on "Key points of interview" form. Make sure it is readable, as interviewee will see it
- 5. Thank the interviewee and make yourself available to answer any further questions

Please print the forms for the respective dimension and take them with you to the interview. Print "KEY POINTS OF INTERVIEW".

ENVIRONMENTAL DIMENSION (Interviewer copy. Tick questions as you advance in the interview.)

Specific Questions	Remind participants to consider
MATERIAL AND RESOURCES [] Think about the equipments and supplies that are part of the system. Which materials may be consumed to produce them? [] What about to use the system? For example, supplies. [] Does the system change the way people consume material? For example, encourage people to buy more?	[] different types of material, e.g., raw materials, recycled materials. Say, for example: you mentioned packaging. What is this made of? [] the consumption of material by the user, beneficiary (person or institution) * or any other person or institution that might be affected by the system. Say, for example: you mentioned the system does not increase the consumption of material. What about his institution? What about other people or institutions that do not directly interact with the system? *a beneficiary does not necessarily use the system, but may benefit from it. E.g. a baby for a monitoring device.
 SOIL, ATMOSPHERIC AND WATER POLLUTION [] Think again about the equipments and supplies that are part of the system. Does producing them generates waste or emissions? [] Does the system itself produces waste or emissions? [] Does the system influence how much waste or emissions people or institutions generate? [] Or, alternatively, does it promote (or impair) recycling? 	 [] hazardous waste, solid waste, emissions, wastewater, hardware components, etc. Say, for example: you mentioned the systems does not increase emissions, but can it create other kinds of waste like solid waste or wastewater? [] waste and emissions generated by the user, by the beneficiary (person or institution), or by any other person or institution that might be affected by the system. Say, for example: you mentioned that the system promotes recycling among its users. Can it affect the waste generated by other people or institutions that do not directly interact with the system?
BIODIVERSITY AND LAND USE [] Can the system impact the plants or animals around it? [] What about elsewhere? [] Can the system change the size, use, of composition of the soil around it? For example, by occupying land or by converting land into cropland? [] What about elsewhere?	[] the animals, plants and soil affected by the user, by the beneficiary (person or institution), or by any other person or institution that might be affected by the system. Say, for example: you mention how the system does not change the way company uses land. Can it affect the way other people or institutions that do not directly interact with the system use land?
 ENERGY [] Does the system affect the production of energy? [] What about the use of energy? E.g. enables or encourages less energy consumption or consumption from renewable sources. [] Does the energy to run the system hardware comes from renewable energy sources? 	[] the energy consumption of its user, its beneficiary (person or institution) or any other person or institution that might be affected by the system. Say, for example: you mention how the system encourages the user to be always connected, spending more energy. Can it affect the energy use by other people or institutions that do not directly interact with the system?
LOGISTICS AND TRANSPORT [] Does the system affects the need for movement of people or goods? [] Does the system affect the means by which people or goods move? [] Does the system affect the distance that people or goods move?	[] the transportation of its user, its beneficiary (person or institution) or any other person or institution that might be affected by the system. Turn sheet

		Say, for example: you mentioned how the systems help to reduces the travel distance of goods the company sells. Can it affect the distance and means of transport for other people or institutions that do not directly interact with the system?			
	Finishing Questions				
	During the interview, use template to take notes of TOPICS and KEY POINTS raised. Sample key points. "MATERIALS: user encouraged to shop", "SOIL: depletes soils from nutrients", "BIODIVERSITY: increase cropland", "ENERGY: user save energy", "LOGISTICS: reduced travel distance"				
[] Then say: Let's take this scenario to the extreme: imagine that many people worldwide are using this or similar system for many years or decades. Think about how one thing may lead to another. We call this a chain of effects. For example, if the system encourages people to buy more clothes, companies will produce more, generating more jobs in the developing world, but also creating greater environmental damage.					
	Show the list of key points captured, and ask: Looking at these key points you mentioned during the interview. Can you thi Encourage the interviewee to think about as many chains of effects as he or	ink of chains of effects for some of these key points in the extreme scenario above? she can.			
	Is there any other issue that is relevant	to the environment that the system may affect?			

Evaluation Questions:

- Background of the interviewee
 - a. Age
 - b. Gender
 - c. Profession
 - d. Expertise
 - e. Education
- Were the questions easy to understand?
- Have the questions been useful for triggering **relevant** discussions on the possible effects of software system in the society / the individual / the environment / the economy / its own ability to endure ?
 - a. Why or why not?

ENVIRONMENTAL DIMENSION (Interviewee copy)

Specific Questions	Final Questions			
MATERIAL AND RESOURCES [] Think about the equipment that are part of the system. Which materials may be consumed to produce the system? [] What about to use the system? For example, supplies. [] Does the system change the way people consume material ? For example, encourage people to buy more?	 Imagine that many people worldwide are using this or similar system for many years or decades. Think about how one thing may lead to another. For example, if the system encourages people to buy more clothes, companies will produce more, generating more jobs in the developing world, but also creating greater environmental damage. Looking at this list of key points you mentioned during the interview, can you think of a chain of effects for some of these key points in the extreme scenario above? 			
SOIL, ATMOSPHERIC AND WATER POLLUTION [] Think again about the equipments and supplies that are part of the system. Does producing them generates waste or emissions? [] Does the system itself produces waste or emissions? [] Does the system influence how much waste or emissions people or institutions generate? [] Or, alternatively, does it promote (or impair) recycling?				
BIODIVERSITY AND LAND USE [] Can the system impact the plants or animals around it? [] What about elsewhere? [] Can the system change the size, use, of composition of the soil around it? For example, by occupying land or by converting land into cropland? [] What about elsewhere?				
 ENERGY [] Does th e system affect the production of energy? [] What about the use of energy? E.g. enables or encourages less energy consumption or consumption from renewable sources. [] Does the energy to run the system hardware comes from renewable energy sources? 				
LOGISTICS AND TRANSPORT [] Does the system affects the need for movement of people or goods? [] Does the system affect the means by which people or goods move? [] Does the system affect the distance that people or goods move?				
Is there any other issue that is relevant to the environment that the system may affect?				