

The LOKUS instrument

This exhibit consists of a two-part description of the LOKUS instrument. The purpose is to introduce the instrument to the reader. Please be informed that the instrument provided in this exhibit is merely a linear display of items and is not in its ready-to-use format (i.e., automatic online administration format). You can view the automated version by clicking on a separate link provided on this website. To learn more about the instrument, or to copy, duplicate or otherwise reproduce the LOKUS, please contact Dr. Vathsala Stone at: (Email) ystone@buffalo.edu; (Phone) (716) 204-8606 ext. 210.

Part I of this exhibit presents a generic Microsoft Word version of the LOKUS instrument, which lists items in a linear fashion. LOKUS is designed to survey respondents about new knowledge reported out from Research and Development (R&D) projects in any chosen technology-related field. The version addresses and describes findings from three R&D projects; however, the LOKUS can be modified to fit as many reported findings as desired within any technology related-field. Items are simply repeated for each additional finding (e.g., publication, presentation, webcast, etc.), but their language must be tailored to the context of the new findings by making appropriate substitutions, such as making changes in: the specific technology field mentioned in the instructions and in items 73 & 74; the description of the findings mentioned in items 2 & 21; the author & the description of the new knowledge mentioned in items 2-23.

Note that the LOKUS is intended to be administered to diverse and disperse stakeholders through a web-based interface where items are presented to each respondent in a tailored sequence based on their own responses. The linear listing of items provided in Part I is not meant to illustrate this sequencing. See Part II for an illustration of the branching sequence that respondents are exposed to as they complete the LOKUS survey online.

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PART I
The Level of Knowledge Use Survey (LOKUS) Instrument

This survey is designed to measure your current state of awareness, interest, and/or use of new knowledge published in the field of _____ technology. New knowledge (published findings) can be in the form of new devices, instruments, freeware, and standards/guidelines.

This survey queries you about three publications. Once you begin the survey, you are presented with the first publication and a brief description of the new knowledge it contains. You are then asked a series of questions about your current state of awareness, interest, and/or use of the new knowledge.

Once you have answered the questions pertaining to the first publication, you will repeat the process for the remaining two publications.

Please read each question carefully and answer honestly. Remember that your responses should reflect your current state of awareness, interest, and/or use of the new knowledge from each publication.

1) Please enter the unique participant ID number that was provided to you by the investigators.

Directions: Please read the description of the publication below and answer the question that follows it.

STUDY A

Citation:

New knowledge reported:

Description:

Primary Investigator:

2) Question: Are you familiar with the new knowledge from *AUTHOR'S* study (*DESCRIPTION OF NEW KNOWLEDGE*)?

- ☐ No, I had not heard of the new knowledge from this study until now.
- ☐ Yes, I had heard of the new knowledge from this study before.

3) Does the following statement describe your current state of awareness, interest or use of the new knowledge from *AUTHOR'S* study (*DESCRIPTION OF NEW KNOWLEDGE*)?

I had heard of the new knowledge from this study, but I have not tried to get more information about it.

Please click yes/no based on the entire statement.

- ☐ Yes ☐ No

4) Does the following statement describe your current state of awareness, interest or use of the new knowledge from *AUTHOR'S* study (*DESCRIPTION OF NEW KNOWLEDGE*)?

I am seeking details on whether the new knowledge from this study will be useful; however I have not yet decided to use it.

Please click yes/no based on the entire statement.

☐ Yes ☐ No

5) You indicated that you are seeking details of the new knowledge from *AUTHOR'S* study (*DESCRIPTION OF NEW KNOWLEDGE*), but have not made a decision to use it yet.

Please review each statement and check all options that represent your current position.

- ☐ I am aware of the existence of the new knowledge from this study and that it might be useful.
- ☐ I am obtaining information that explains the new knowledge from this study through the internet, journals, conferences, meetings, etc.
- ☐ I am discussing the new knowledge from this study with others. I exchange information, materials, or ideas about it and also learn about what is involved in using it.
- ☐ In order to make a decision about using the new knowledge from this study, I am analyzing and comparing further information about it – such as what it contains, what is required for using it, evaluation reports about it, what I can get out of it, and its strengths and weaknesses.
- ☐ I have explored the new knowledge from this study and also what is required for its use. I am ready to decide if I am for or against using the new knowledge.

6) Does the following statement describe your current state of awareness, interest or use of the new knowledge from *AUTHOR'S* study (*DESCRIPTION OF NEW KNOWLEDGE*)?

I am preparing to use the new knowledge from this study, but have not used it yet.

Please click yes/no based on the entire statement.

☐ Yes ☐ No

7) You indicated that you are preparing to use the new knowledge from *AUTHOR'S* study (*DESCRIPTION OF NEW KNOWLEDGE*), but have not used it yet.

Please review each statement and choose all options that represent your current position.

- ☐ I am aware of the benefits of using the new knowledge from this study, but I need more information such as practical needs, resources and timing.
- ☐ In order to prepare to use the new knowledge from this study, I am looking for information and resources specifically related to using it.
- ☐ I am sharing information with others about resources needed for initial use of the new knowledge from this study. To prepare myself for first use, I join others in opportunities such as pre-use training, planning for resources, practical set up and scheduling.
- ☐ I am identifying the resources needed and available, as well as the steps and procedures necessary for initial use of the new knowledge from this study.
- ☐ I have prepared myself for initial use of the new knowledge from this study- such as, studying reference material, sharing information, arranging my schedules, resources and practical set up, and receiving any needed training.

8) Does the following statement describe your current state of awareness, interest or use of the new knowledge from *AUTHOR'S* study (*DESCRIPTION OF NEW KNOWLEDGE*)?

I have just begun to use the new knowledge from this study, but I have not yet mastered how to use it.

Please click yes/no based on the entire statement.

- ☐ Yes ☐ No

9) You indicated that you have just begun to use the new knowledge from *AUTHOR'S* study (*DESCRIPTION OF NEW KNOWLEDGE*), although you have not yet mastered how to use it.

Please review each statement and check all options that represent your current position.

- ☐ I am still looking for information to better manage the use of the new knowledge from this study. This includes such things as practical set up, resolving initial problems, scheduling, and identifying the amount of time and work it takes for me to use the new knowledge.
- ☐ I am examining what it takes to use the new knowledge from this study. My assessment is usually related to resolving practical problems and difficulties related to time, schedules and resources.
- ☐ Based on the information obtained and my assessment, I have begun to use the new knowledge from this study.

10) Does the following statement describe your current state of awareness, interest or use of the new knowledge from *AUTHOR'S* study (*DESCRIPTION OF NEW KNOWLEDGE*)?

I am using the new knowledge from this study regularly and I do so with ease. However, I have not tried using it in ways other than originally intended by the author.

Please click yes/no based on the entire statement.

- ☐ Yes ☐ No

11) You indicated that you are regularly using the new knowledge from *AUTHOR'S* study (*DESCRIPTION OF NEW KNOWLEDGE*), and have not tried a different way of using it.

Please review each statement and choose all options that represent your current position.

- ☐ I am aware of what is required to use the new knowledge from this study, both short term and long term.
- ☐ I am evaluating my routine use of the new knowledge from this study.
- ☐ I am planning to continue using the new knowledge from this study as intended. I am

not yet concerned about different ways of using the new knowledge.

☐ I use the new knowledge from this study routinely with minimal problems.

12) Does the following statement describe your current state of awareness, interest or use of the new knowledge from *AUTHOR'S* study (*DESCRIPTION OF NEWKNOWLEDGE*)?

Based on my own evaluations, I am using the new knowledge from this study in ways different than the author originally intended.

Please click yes/no based on the entire statement.

☐ Yes

☐ No

13) You indicated that you are using the new knowledge from *AUTHOR'S* study (*DESCRIPTION OF NEW KNOWLEDGE*) in ways different than the author originally intended, based on your own evaluations.

Please review each statement and choose all options that represent your current position.

☐ I am aware that it would be beneficial to expand the use of the new knowledge from this study; that is, to use it in ways different from originally intended.

☐ I am looking for information and materials that relate specifically to expanding my current use of the new knowledge from this study.

☐ I am discussing with others how I would expand my current use of the new knowledge from this study.

☐ I am evaluating all information about the new knowledge from this study for the purpose of expanding my current use of it.

☐ Based on my evaluation, I am developing intermediate and long-range plans to expand the use of the new knowledge from this study.

☐ I have explored and tried different ways of combining the new knowledge from this study with existing practices.

14) Does the following statement describe your current state of awareness, interest or use of the new knowledge from *AUTHOR'S* study (*DESCRIPTION OF NEW KNOWLEDGE*)?

I am either considering collaborating with others, or have started to do so, on the use of the new knowledge from this study.

Please click yes/no based on the entire statement.

☐ Yes

☐ No

15) You indicated that you are either considering collaborating with others, or have started to do so, on the use of the new knowledge from *AUTHOR'S* study (*DESCRIPTION OF NEW KNOWLEDGE*).

Please review each statement and choose all options that represent your current status.

☐ I am aware that collaborating with others in the use of the new knowledge from this study would be beneficial.

☐ I am seeking information and opinions for the purpose of working with others in the use of the new knowledge from this study.

☐ I am talking to others about working together to use the new knowledge from this study.

☐ I am evaluating how to work with others and use the new knowledge from this study, including the advantages and disadvantages of such collaboration.

☐ I am planning and scheduling resources and time for collaborating with others on the use of the new knowledge from this study.

☐ I have started working with others on the use of the new knowledge from this study.

16) Does the following statement describe your current state of awareness, interest or use of the new knowledge from *AUTHOR'S* study (*DESCRIPTION OF NEW

KNOWLEDGE*)?

My collaboration with others has led to a different way in which we use the new knowledge from this study.

Please click yes/no based on the entire statement.

☐ Yes

☐ No

17) You indicated that your collaboration with others has led to a different way in which you use the new knowledge from *AUTHOR'S* study (*DESCRIPTION OF NEW KNOWLEDGE*).

Please review each statement and choose all options that represent your current position.

☐ I am aware that integrating my work on the use of the new knowledge from this study with the work of others would be beneficial.

☐ I am seeking information and opinions for the purpose of integrating my work with the work of others on the use of the new knowledge from this study.

☐ I am evaluating the integration of my work with the work of others regarding the use of the new knowledge from this study, including the strengths and weaknesses of such integration.

☐ I have integrated my work with the work of others leading to joint expansion of the use of the new knowledge from this study.

18) Does the following statement describe your current state of awareness, interest or use of the new knowledge from *AUTHOR'S* study (*DESCRIPTION OF NEW KNOWLEDGE*)?

I am making modifications to the new knowledge from this study, individually or jointly with others.

Please click yes/no based on the entire statement.

☐ Yes

☐ No

19) You indicated that you are involved in making changes to the new knowledge from *AUTHOR'S* study (*DESCRIPTION OF NEW KNOWLEDGE*), individually or jointly with others.

Please review each statement and choose all options that represent your current position.

- ☐ I am aware that making modifications to the new knowledge from this study, individually or jointly with others, would be beneficial.
- ☐ I am seeking information and materials in order to modify the new knowledge from this study, individually or jointly with others.
- ☐ I am weighing the advantages and disadvantages of making modifications to the new knowledge from this study, individually or jointly with others.
- ☐ I have made modifications to the new knowledge from this study, individually or jointly with others.

20) Mark all the options that describe your state of awareness, interest, or use of the new knowledge from *AUTHOR'S* study (*DESCRIPTION OF NEW KNOWLEDGE*) before taking this survey.

- ☐ I had not heard of the new knowledge from this study until now.
- ☐ I had heard of the new knowledge from this study, but I have not tried to get more information about it.
- ☐ I am seeking details on whether the new knowledge from this study will be useful; however I have not yet decided to use it.
- ☐ I am preparing to use the new knowledge from this study, but have not used it yet.
- ☐ I have just begun to use the new knowledge from this study, but I have not yet mastered how to use it.
- ☐ I am using the new knowledge from this study regularly and I do so with ease. However, I have not tried using it in ways other than originally intended by the author.
- ☐ Based on my own evaluations, I am using the new knowledge from this study in ways different than the author originally intended.
- ☐ I am either considering collaborating with others, or have started to do so, on the use

of the new knowledge from this study.

☐ My collaboration with others has led to a different way in which we use the new knowledge from this study.

☐ I am making modifications to the new knowledge from this study, individually or jointly with others.

Directions: We now ask you to briefly comment on your answers regarding the publication. The description is repeated for your reference. Please read it and answer the questions that follow.

STUDY A

Citation:

New knowledge reported:

Description:

Primary Investigator:

21) If you had heard of the new knowledge from *AUTHOR'S* study (*DESCRIPTION OF NEW KNOWLEDGE*), when and where did you first learn about it?

22) What reasons made you decide to use (or not use) the new knowledge from *AUTHOR'S* study (*DESCRIPTION OF NEW KNOWLEDGE*)?

23) If you did make use of the new knowledge from *AUTHOR'S* study (*DESCRIPTION OF NEW KNOWLEDGE*), briefly describe what you did.

24) Thank you for completing the questions pertaining to Study A.

We are now moving on to Study B. Make sure you click on Next Page to continue.

☐ Study B

NOTE: The above questions are repeated for Studies B and C.

73) Thank you for completing the questions pertaining to Study C.

We are now moving on to two general questions about research studies in the field of _____technology.

For research findings to reach you more effectively, what communication approaches would you suggest, other than the usual published form (i.e. academic journal articles)?

74) As someone interested in research studies in the area of _____technology, please add any comments pertinent to the communication and use of such studies.

PART II

Item branching within the web-based LOKUS instrument

The tailored presentation of items based on an individual's responses to online LOKUS, i.e., the item sequence for each respondent, is presented in the flow chart on the next page. The central column in the flowchart presents the sequence of items (questions). Note the "branching" of the items based on the responses "yes" or "no" to each question, as denoted by the Y and N arrows. Note also, that the column to the extreme left shows the level/dimension that corresponds to each item/question and the column to the extreme right shows how responses to the branched items capture respondent's activities linked to the levels/dimensions.

During its development, LOKUS was administered on a web based platform provided by the Vovici (2001) software program. Incorporating the above item branching scheme into Vovici presented no issues. Feasibility and effectiveness of administration of LOKUS using other software has not yet been demonstrated.

References

Vovici Corporation. (2011). **Vovici 6**. Herndon, VA. Available at www.vovici.com

