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The Making of Making CASI Possible in Japan

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Introduction

In 2007, the team of researchers at Waseda University headed by Aiji Tanaka as principal investigator¹ conducted a nation-wide survey, using Computer Assisted Self-Administered Interview (CASI), for the first time in Japan.² This paper explains the goals, procedures and characteristic features of the survey.³ At various points of this paper, we go into some logistical and technical details of the making of our survey, in order to clarify the nature of problems we confronted in introducing this new method to Japan as well as how we dealt with these problems along the way. We believe that these problems, and our solutions, merit discussion because they raise important issues about the survey environment, the formatting of questionnaire, the wording and ordering of questions, treatment of DK s (“don’t know” answers) and NAs (“not applicable” answers), etc, which are all critically relevant to the methodology of social

¹ The original team consisted of 16 scholars from 11 universities (see Appendix D). Researchers currently committed to this project include: Aiji Tanaka (Principal Investigator), Yukihiro Funaki, Takeshi Iida, Masaru Kohno, Ikuo Kume, Koichi Kuriyama, Kazumi Shimizu, and Motoki Watabe from Waseda University; and, Kentaro Fukumoto (Gakushuin University), Airo Hino (Tokyo Metropolitan University), Yusaku Horiuchi (Australian National University), Kosuke Imai (Princeton University), Ryosuke Imai (Tokyo Metropolitan University), Yuko Morimoto (University of Kyoto), Yoshitaka Nishizawa (Doshisha University), Yutaka Shinada (Kobe University), and Masahiro Yamada (Kwansei Gakuin University). We would like to acknowledge that the CASI computer program was developed by three of our members, Koichi Kuriyama, Motoki Watabe, and Yuko Morimoto. We would also like to thank our graduate students, Kiichiro Arai, Norihiro Mimura, Shohei Ohishi, and Arata Yamazaki for their assistance at various stages of the project.

² The first CASI survey was conducted in February 2007 on the randomly assigned half of the sample of the panel survey (the first wave of which had been conducted in November 2005). In the summer of 2007, we conducted a two-wave survey on a freshly-drawn sample, before and after the Upper-House election. We used CASI for both the first and second waves. See below for funding sources, sample sizes, and other details.

³ The results of these surveys are reported and analyzed in other papers as well, which are to be presented in the same APSA panel as this paper is to be presented.

survey generally. By sharing our experiences, including some of our technological innovations, we thus hope to make a contribution to the development of survey research, demonstrating that CASI is not only doable but also a worthwhile enterprise for expanding the horizon of scientific inquiry into individual and collective human behavior.

In the Beginning...

In the beginning, it seemed almost impossible to conduct a nation-wide Computer Assisted Self-Administered Interview (CASI) survey in Japan. Japan has had a long history of mass surveys, but even today an overwhelming number of Japanese surveys are conducted by either the mass-media or governmental organizations. Although Japanese scholars have been successful, especially since the 1970s, in securing research funds to conduct large-scale surveys for academic purposes, they have done so entirely on an ad hoc and individual basis. In Japan, there is no center/institute with permanent office and staff, which specializes in survey research, which engages in educational programs on survey methodology, and which is funded on a regular or even semi-regular basis. Given this absence, it seemed infeasible that a new style of survey, like CASI, could be introduced to the field of Japanese survey research.

The lack of institutional infrastructure was particularly problematic because, in Japan, mass surveys are usually conducted by face-to-face interviews, in which interviewers employed by survey companies visit the respondents' residences.⁴ During the history of Japanese surveys, personal computers or any electronic devices have hardly been utilized for these interviews. Most of these interviewers of the Japanese survey companies were only accustomed to conducting interviews with paper and pencil (PAPI), in which questionnaires are read to respondents, flash cards containing the set of available answers are shown for each question, and all answers are recorded manually. The introduction of CASI would thus require a systematic and standardized training for those interviewers.

When we first approached Japan's major survey companies and brought up the idea

⁴ On some occasions, telephone interviews are also used for nation-wide survey (mostly by the Japanese mass media because of their need to conduct surveys quickly), but given the increasing prevalence of cell phones in Japan, the sampling procedure for telephone surveys is becoming increasingly problematic. Japanese researchers cannot yet resort to internet surveys for a nation-wide survey because the distribution of internet users in Japan is still heavily skewed toward younger, more educated, urban-dwellers. Hence, in order to conduct a survey on a sample which appropriately represents the entire Japanese population (voters), face-to-face interviews are still the only viable way.

of our CASI project, they were generally skeptical of the feasibility of our project. None of these companies had any prior experience of handling hundreds of notebook computers to be programmed and transported to and from designated survey locations across Japan in a short period of time. They also admitted that they totally lacked expertise in reading and transforming electronically stored data. Further, we were told that some of their interviewers had never used computers in their own lives and might have psychological resistance to learning how to operate them. At that point, we realized that our task was immense.

It was thus clear that we would have to do almost everything from scratch by ourselves, creating detailed manual and instructions, organizing a standardized training program for interviewers across Japan, and providing assistance for transforming the electronically stored data into readily-readable forms. In addition to these logistical considerations, new technologies were needed to make the operation of CASI's interface programs as simple and user-friendly as possible. By dividing up the task, and through trial and error, our team met all these challenges.

The Plan Develops....

As soon as our research grant application was accepted by Japan's Ministry of Education, Culture, Sports, Science and Technology in the summer 2006, a series of meetings were held at Waseda University and overseas conference calls were set up in order to decide the direction of the three-year project.⁵ With regard to the basic plan and organization, the following major decisions were made.

(1) CASI, not CAPI

One of our first decisions was whether we would go ahead with Computer Assisted Self-Administered Interviews, CASI, which is distinguished from its cousin method now referred to as CAPI, or Computer Assisted Personal Interview. Computer technologies, when used in survey research, bring about various benefits, including making it possible to ask questions with visual and/or audio-sound stimulus and to measure response time for each answer provided by the respondent. While the method of CAPI and that of CASI can both take advantage of these benefits, the difference between the two methods is not trivial, and the reason why we opted for CASI in Japan deserves some elaborations.

In CAPI, the interviewers retain the notebook computers for most of the interview

⁵ During this brainstorming stage, we took advice from many scholars not formally involved in our project. We would like to thank, in particular, Dave Howell at the University of Michigan, from whom we learned a great deal about computer assisted surveys in the United States.

process. In CAPI, therefore, the computers are used mainly as the interviewers' devices to record and store the answers electronically, which are provided verbally by respondents. To utilize computer technologies for the purpose of recording and storing the answers has the advantage of reducing various measurement errors associated with the process of data-collection in survey research. In CAPI, the interviewers do sometimes hand over the computers to respondents during the interview, but they do so only for a particular set of questions, such as those that execute visual/sound stimulus and those that require privacy in the survey environment. The most notable examples of the latter are those questions that are otherwise expected to generate "socially desirable answers."⁶

In CASI, by contrast, as its name "Self-Administered" suggests, the interviewers hand over the notebook computers at the beginning of the survey (that is, immediately after a brief practice session), and the respondents would be asked to type-in their answers directly. The advantage in terms of reducing measurement errors is less clear with CASI because the respondents themselves would be typing and hence recording/storing their answers. That is, the CASI method can be susceptible to errors originating from varying levels of computer literacy among the respondents. Furthermore, since the interviewers would normally detach themselves from the survey process once the survey begins, there is no guarantee in CASI that the respondents are actually reading and understanding the questions before they type-in their answers. In addition to all these methodological concerns, CAPI, not CASI, was used more extensively in the United States and elsewhere.

We nevertheless decided on CASI, not CAPI, as our survey method in Japan for several reasons. First and foremost, we were concerned with the nature of the peculiar environment in which face-to-face interviews take place in Japan. CAPI is perhaps a more appropriate survey method when personal interviews can be conducted in a physically spacious environment, as in the living room setting of a typical north-American house. In such a setting, interviewers and respondents can sit down together, interact, and, if necessary, can hand the computers back and forth as the interview progresses. In the Japanese context, however, personal interviews rarely take place in such a comfortable environment. In fact, in Japan, interviewers do not usually get invited into the respondents' living rooms (some Japanese households do not even have the equivalent of North-American "living rooms"), but they rather remain standing near the door (sometimes even outside the door, with the door being only half open) for

⁶ For discussion of these questions, see below.

the entire interview process.⁷ Considering this peculiar setting, we concluded that CAPI would be a difficult method in Japan. Obviously it would be tiring for the interviewers to stand as they hold the computers and type-in respondents' answers for the whole interview process. It would also be difficult in such a physically tight setting to hand the computers back and forth once the interview process started.

Our second concern was the level of computer literacy among interviewers, some of whom as we were told had no prior experience of handling either desktop or notebook computers. For these interviewers, CAPI would have been far more confusing than CASI. In CASI, once the computers were handed to the respondents after the practice session, interviewers would only intervene in the survey process if respondents had specific questions and/or faced some operational difficulties. In CAPI, on the other hand, interviewers had the additional burden of paying attention and making sure to turn the computers around for those "socially sensitive" questions so that they can be answered directly by the respondents. Given that this was the first time the new technologies were introduced to Japan's survey field, we thought it best to minimize such a burden.

Third, while we were aware of CASI's various shortcomings, we were also confident that they were the kind of shortcomings that could be overcome technologically. With regard to the difficulties associated with the basic operation of computers and understanding CASI's programs, we made sure that the respondents needed to use only the number ("0" - "9") keys and "enter" key for the entire survey process. Such user-friendliness would drastically reduce the measurement errors associated with varying levels of respondents' computer literacy.⁸ Further, while it is true that CASI cannot exclude the possibility that the respondents might not read and understand each question before they type-in their answers, we could isolate the extreme cases of inattentive responses, by examining the response time measured for each question. Finally, we concluded that CASI was generally a superior method in cultivating the sense of privacy in survey environment.⁹

⁷ In many cases, survey companies explicitly instruct their interviewers not to get invited to the "inside" of the respondents' houses for security reasons.

⁸ In other words, we faced a trade-off between CASI's measurement errors potentially originating from varying computer literacy among respondents and CAPI's measurement errors potentially originating from varying computer literacy among interviewers, and we ultimately decided that the latter was a greater problem because the former can be solved technologically.

⁹ There is a price to pay, of course, for increased privacy. Both our CASI survey and our ordinary survey with paper and pencil (PAPI) conducted in parallel included a question at the end of questionnaire, asking the respondent if he/she would mind giving out his/her telephone number. The ratio of those respondents who actually gave out the telephone number was much higher in PAPI than in CASI. We believe that the higher

(2) Schedule

The next biggest issue to be settled was when and how often to conduct our CASI survey. The budget allotted to us from the Ministry was sufficient to conduct one two-wave panel survey for a freshly drawn nation-wide sample in Japan.¹⁰ However, we all agreed that it would be best to run a pretest or trial survey using CASI before we conducted our main one. Our dilemma was that, because this was the first time ever, the pretest/trial would have to be run as if we were conducting a real CASI survey. Otherwise, it would not reveal any of the problems, either logistical or technological, that we should expect to encounter. This meant, for all practical purposes, that we had to conduct full CASI surveys twice. We were fortunate that, in terms of research funding, there were some other large sources of funding available at Waseda, which we could pool together. After some deliberations, the following was decided.

First, we would conduct our main panel-structured CASI survey in the summer of 2007. We decided on this timing because it was expected that, in July 2007, there would be an election for the House of Councilors, or the Upper House of Japan's bicameral parliament. The first wave of the panel would be conducted before and the second wave after the election.

Second, at the same time as the above CASI survey, we would conduct in parallel an ordinary PAPI survey on the same-sized nation-wide sample.¹¹ As we would prepare and ask the same set of questions for CASI and PAPI (with the exception of the last question involving political-economic experiments, which is explained later in this paper), this parallel (and panel-structured) design would enable us to compare the

rate in PAPI had something to do with a good rapport that real human interviewers were able to cultivate with the respondents. There thus seems to be a trade-off between "intimacy" and privacy. Generally, what constitutes the best survey environment is extremely difficult to define.

¹⁰ We acknowledge that our main survey, the Waseda Study of Computer Assisted Self-Administered Interview 2007 (Waseda-CASI2007), was made financially possible by the Grant-in-Aid for Scientific Research (A) (#18203008, headed by Aiji Tanaka of Waseda University, for 2006-08), the Ministry of Education, Culture, Sports, Science and Technology, Japan. The data sets will be available in the near future from ICPSR, the University of Michigan (<http://www.icpsr.umich.edu/>) and/or the Social Science Japan Data Archive, the Institute of Social Science, the University of Tokyo (<https://ssjda.iss.u-tokyo.ac.jp/en/>).

¹¹ We acknowledge that this survey, Waseda-PAPI2007, was made financially possible by the Open-Research-Center Enhancement Program (headed by Koichi Suga of Waseda University, for 2004-2008) of the Academic Research Advancement Promotion Programs for Private Universities, the Ministry of Education, Culture, Sports, Science and Technology, Japan. For the sample sizes, sampling procedures, actual response rates, and other technical details of our CASI and PAPI surveys, see Appendix II.

results based on two different survey methods in meaningful ways.¹²

Third, as a pretest or trial-run, we would conduct a CASI survey in February 2007 as part of the second wave of the panel survey, the first wave of which had already been conducted in November 2005 by a group of Waseda researchers.¹³ More specifically, we would randomly assign the respondents of the 2005 first wave survey into two groups, and we would conduct CASI survey on one of them while on the other half we would conduct an ordinary PAPI.¹⁴

Fourth, even before conducting the February pretest survey, we would conduct a “pretest for the pretest” survey on a small-size sample drawn in the Tokyo area. This pre-pretest run was necessary for both logistical and technological reasons. Logistically, we needed this extra step to prepare our instruction manual for interviewer training and to obtain feedback for its improvement. Technologically as well, we wanted to remove the bugs of the CASI interface software at that point. This pre-pretest in Tokyo turned out to be extremely successful in various respects. It was evident that interviewers read and understood our manuals very well, as they had no trouble remembering to charge the batteries the night before, handling the computers safely, and explaining the purpose and operation of CASI to the respondents. Even those interviewers who were totally inexperienced with computers had no difficulty operating our CASI program, and the program actually worked! This experience obviously boosted our confidence and finally convinced the survey company that CASI was doable.

Do Computers Really Make Difference?

¹² For more on this point, see below.

¹³ We acknowledge that this survey, or GLOPE Computer Assisted Self-Administered Interview 2007 Study (GLOPE-CASI 2007), was made financially possible by the 21st-Century “Center of Excellence” (21COE) Programs (headed by Shiro Yabushita of Waseda University, for 2003-2007), the Ministry of Education, Culture, Sports, Science and Technology, Japan. We also acknowledge that the first wave of this survey, as well as the PAPI portion of the second wave, were made financially possible by the Open-Research-Center Enhancement Program (headed by Koichi Suga of Waseda University, for 2004-2008) of the Academic Research Advancement Promotion Programs for Private Universities, the Ministry of Education, Culture, Sports, Science and Technology, Japan. The data sets will be available in the near future from ICPSR, the University of Michigan (<http://www.icpsr.umich.edu/>) and/or the Social Science Japan Data Archive, the Institute of Social Science, the University of Tokyo (<https://ssjda.iss.u-tokyo.ac.jp/en/>).

¹⁴ The random assignments was made based on survey points rather than individual respondents, not only for “matching” purposes, but also because the number of notebook computers we were able to purchase was limited because of the budget constraints, and it would have been physically impossible to transport the computers from one location to another during the short survey period.

Our team of researchers wanted to conduct CASI survey not only to introduce computer technologies to the field of Japanese survey research. We also had in our minds a set of specific, more research-oriented goals. One of these goals was a systematic comparison between CASI and PAPI as survey methods.

It is generally claimed that the introduction of computer technologies to the field of survey research brings about various advantages over an ordinary survey with pencil and paper. To test whether such advantages really exist, however, requires an experimental setting where the same set of questions are asked simultaneously for two same-sized samples, one with and the other without the aid of computer technologies. In our view, the design of our split-sample/parallel, panel-structured surveys provided an excellent opportunity for this test and to determine whether the computers do actually make any difference.

1) “social desirability” hypothesis

One specific, frequently-mentioned advantage of CASI over PAPI is, as noted earlier, the increased privacy in survey environment. In an ordinary PAPI survey, the interviewer reads out each question, to which the respondent answers verbally. Thus, in PAPI, the respondent expects that his/her answers will be heard by and known to at least one another person, namely the interviewer. Because of this expectation, the survey environment of PAPI cannot be regarded as being entirely “private.” By contrast, in CASI survey, the respondent is assured that his/her answer will not be seen or heard by anybody, including the interviewer. Because the respondent him/herself types in the answer to each question and proceeds at his/her own pace, the interviewer does not even know which question the respondent is answering at any time.

The different levels of privacy in the survey environment are known to have non-negligible effects especially when the respondents are asked questions that may generate the so-called “socially-desirable answers”. What constitutes “socially-desirable answers,” and/or what constitutes those questions that generate such answers in the first place, must vary across countries with different cultural and historical backgrounds. In fact, precisely because of the private nature of the problem, we have no way of determining, *ex ante*, what constitutes such questions/answers, until we canvas many different areas of social activities in an exploratory fashion. In our view, a well designed CASI-PAPI comparison would provide an excellent opportunity to pursue such needed exploration.

While it is beyond the scope of this paper to review all of our findings related to socially desirable answers in Japan, a few examples may be sufficient to illustrate the

stark difference that the two survey methods can make.¹⁵ For example, our pre-election wave survey included a question regarding how frequent the respondent read a daily newspaper. Our results reveal that, when the surveys were conducted as face-to-face interviews with real human interviewers, more people answered that they read newspaper every day or mostly every day. Also, the number of those who answered that they never read newspaper was substantially higher under CASI's survey environment where the respondent was assured privacy during the interview process. These tendencies seem to suggest that reading a newspaper is regarded as one of those activities that are socially-expected or socially-desired among the Japanese grown-up men and women. The respondents were, in the context of PAPI with the interviewer present, pressured to say that they did conform to such a normal behavior (see Table 1).¹⁶

TABLE 1 about here

The above results on reading newspapers can be contrasted with those on watching television (see Table 2). The overwhelming number of our respondents in both PAPI and CASI answered that they watched news on television every day or mostly every day, and there was no significant difference in the distribution of answers provided under the two methods. Unlike with newspapers, there does not seem to be any social pressure that forces respondents to answer one way or the other in the case of watching television.

TABLE 2 about here

Another illustrative example can be found in the respondents' evaluations of their own ideological positions. This question was asked in our post-election wave survey. In Japan, instead of the "left" and "right" labels widely-used in the other western

¹⁵ For more findings and detailed analyses on this subject, see Yoshitaka Nishizawa and Koichi Kuriyama's paper to be presented at the same APSA panel.

¹⁶ The same question was repeated in our post-election wave survey. Interestingly enough, in that 2nd wave, the noticeable difference in the distributions between CASI and PAPI disappeared almost completely. While it is impossible to make any conclusive interpretation of this evidence, it does seem to point to the possibility that the pattern of attrition between the first and second waves in panel survey must be related to the varying level of "vulnerability to social pressure" of individual respondents. For example, it is possible that the behavior of those respondents who participated in the first but not in the second wave might itself be one of their socially-desirable behavior.

democracies, the terms to describe ideological positions are “Kakushin” and “Hoshu” which roughly correspond to “progressive” and “conservative” respectively in English.

TABLE 3 about here

The results (Table 3) reveal that many people in Japan, as elsewhere, tend to regard themselves as “the middle of the road,” positioning themselves just around the half point between the most extreme progressive and the most extreme conservative positions. It is yet possible to detect some differences in the distributions between CASI and PAPI as well, most notably the gap in the number of respondents who positioned themselves at the exactly mid-way position. Arguably, this gap reflects the fact that, with regard to ideological positions, declaring oneself “middle of the road” is a socially desirable thing to do in Japan. Further, under CASI, more people seemed willing to admit that they were at the two ideological extremes presumably because of assured privacy in the survey environment.

If the above observations and interpretations are correct, we must conclude that the choice of survey methods does make a significant difference. In PAPI, the survey environment which respondents face is practically a social environment because of the presence of one another person, the interviewer, with whom the respondents are expected to engage in some inter-personal interactions. Under such circumstances, the respondents are bound to feel pressure which at least in some cases would ultimately lead them to express “socially-desirable answers.”

2) CASI effect

It is claimed, as noted earlier, that the introduction of computer technologies to survey research reduces various measurement errors in the data gathering process. Aside from the measurement errors associated with interviewers (such as mistakes in hearing or recording the respondents’ answers), there are also errors associated with the respondents’ limited cognitive processes, such as instability in their own attitudinal formation and inconsistency in recalling their past experiences and events. Computer technologies, especially their ability to display various kinds of information visually and/or with audio-sound, are expected to compensate these human cognitive limitations. If so, they are likely to reduce at least some of the relevant measurement errors.

This technical aspect of CASI’s advantage may interact with the increased privacy in survey environment provided by CASI as well. In ordinary survey with paper and pencil, the respondent’s process of forming opinions and retrieving memories may be affected

by subtle differences in the ways the interviews are conducted. Even with the same interviewer, the way in which he/she asks questions and waits for answers may vary from one day to another, or from one respondent to the next, causing noises in the process of collecting data. In CASI, a large part of these noises, or the so-called “interviewer effects,” is expected to vanish.

Generally, then, CASI is likely to bring about more “stability” and “consistency” in respondents’ answers and thus to reduce measurement errors in comparison to PAPI. Our series of surveys were designed to pursue such a comparison and thus to identify CASI’s advantage in a systematic way. Note, in particular, that we designed our surveys to carry out both “between” and “within” comparisons of the two methods. That is, the PAPI-CASI parallel surveys conducted before and after the House of Councilors election in 2007 provides an opportunity to conduct a comparison *between* the two groups under different survey systems, while the PAPI-CASI panel survey conducted on the half of the sample originally drawn in 2005 provides an opportunity to conduct a comparison *within* the same group under different survey systems. (see Table 4)

TABLE 4 about here

Regrettably, at the time of writing this paper, we must report that this line of systematic comparison between CASI and PAPI has not yet been carried out. In our original plan, we were going to include, in the post-election wave, photos of candidates running for the House of Councilors in CASI when the respondent was asked to recall to whom he/she voted. The purpose of including such visual information was to compare the results with PAPI’s results, in which only the candidates’ names could be provided. We were thus hoping to show that CASI method is superior in retrieving the respondents’ memories about their past actions.¹⁷ Unfortunately, because we faced bureaucratic obstacles obtaining the official photos of all the candidates from the Ministry of Home Affairs, we had to abandon this project at the very last minute.

A more general reason why our inquiry has not yet advanced so much in this area relates to the delay in our data-cleaning process, especially with regard to the response time measured in CASI survey. A meaningful exploration of the respondents’ abilities to

¹⁷ An important caveat must be added here. The Japanese government does not disclose information about each voter’s real voting record. Hence, it is impossible in Japan for survey researchers to find out whether the respondent is retrieving a “correct” memory about his/her voting decision. Nevertheless, the difference, if any, between CASI and PAPI in the number of respondents who would answer “I do not remember” could be taken at least as partial evidence.

form stable attitudes and/or to recall past events consistently requires, in our view, a systematic analysis of response time for the relevant questions. We therefore intend to pursue this aspect of the research in future when the data-cleaning process is complete.

Grounds for Comparability?

Theoretically, it seemed simple enough to conduct a comparison between CASI and PAPI for the purposes outlined above. As a practical matter, however, it turned out that it was extremely difficult to create survey environments that were meaningfully comparable between the two methods. There were manifold problems we had to deal with logistically and technologically, and we were able to solve some, but not all, of them. To convey the nature of difficulties we confronted and how we tried to solve them, let us discuss a few examples.

1) treatment of DKs, or “don’t know” answers

In an ordinary PAPI survey, the interviewer usually shows a card containing the list of choices for available answers for each question, but such a list rarely contains DK as one of the options.¹⁸ The reason for this is obvious enough. If the DK option were included explicitly in the list, more respondents would likely to choose DK as their answers simply to pass up difficult questions or to avoid strenuous thinking processes. In the absence of an explicit DK option, however, respondents do sometimes answer orally to the interviewers, “I don’t know,” in which case the interviewer would record DK as the expressed answer. Even if the respondent does not say “I don’t know” expressly, it is easy to imagine situations where the interviewer should still record DK as the answer. Suppose, for example, the respondent stumbles on a particular question for a long time, longer than any other questions. The interviewer, in such a case, is instructed to read out the question slowly one more time. If the respondent still does not provide an answer, the interviewer would then ask the respondent, “you don’t know the answer?”. If the respondent nods or indicates somehow that he/she does not know the answer for this particular question, the interviewer would record DK.

In the ordinary PAPI context, then, there are some intricate interactions that take place between interviewers and respondents before DKs are eventually recorded as their answers. In the CASI environment, it is impossible to recreate these interactions. For the same reason stated above, it would be unwise to display DK explicitly as one of the available options on the CASI’s screen. Besides, the inclusion of DK would defeat the whole purpose of PAPI-CASI comparison. Nevertheless, it would also be wrong, for the purpose of comparability and even for ethical reasons, if the respondents were

¹⁸ The notable exceptions are the set of “political knowledge” questions.

entirely deprived of options to choose DK as their ultimate answers. We, thus, had to come up with some kind of solution, which would guarantee the respondents' right to say "I don't know" on the one hand but which on the other hand would not excessively encourage them to answer in that way.

Our solution to this problem was both logistical and technological. First, logistically, we emphasized, in our instruction manual given to the interviewers, that every respondent must be notified at the beginning of the interview process that he/she could say "I do not know" as answer to any question.¹⁹ Accordingly, for both PAPI and CASI surveys, all of our interviewers made sure that each respondent knew that he/she was not deprived of DK as an option.

Second, technologically, our CASI interface program indeed included an explicit option, "I don't know," though it was not given as part of the first set of options for answers. More specifically, our program was designed in such a way that, every time the respondent skipped a question (by hitting the "enter" key without having chosen one of the given answers shown on the screen), a distinctly-colored (yellow) page would appear, showing the following message. The respondent was thus given an option to choose DK at this point.²⁰

You did not answer.

If you want to go back to the previous question, press (1).

If you want to go to the next question, choose (2) or (3) to give the reason.

(1) go back to the previous page

(2) because I do not know

(3) because I do not want to answer

¹⁹ We also emphasized that every respondent must be notified at the beginning of the interview process that he/she could say "I do not want to answer" to any question.

²⁰ Further, our CASI program was designed in such a way that this yellow page forced the respondent to choose one of the three options in order to proceed to the next question. That is, if the respondent hit the "enter" key either accidentally or intentionally on this screen, then a smaller "pop-up" screen would emerge and ask "please choose one of them."

The obvious “pros” of this scheme were that it guaranteed the respondent’s right to self-record “I don’t know” to any question without him/her being unnecessarily encouraged to do so. The scheme, at the same time, had the merit of assuring the respondent his/her right to refuse to answer any question, a merit which was crucial from ethical standpoints. It is true that, because DK was not given in the first set of options, the respondent somehow had to bother to ask the interviewer how he/she could skip a particular question to which he/she happened not to know the answer. But, for the purpose of making CASI comparable to PAPI, the exclusion of the explicit DK option from the initial set of answers was “nonnegotiable,” so to speak. We also thought that ample instructions provided at the very beginning of the interview process should alleviate the possibility that the respondent would hesitate to ask the interviewer what to do when he/she faced a question to which he/she happened not to know the answer.²¹

The above scheme had some obvious “cons” as well. Because the DK option was hidden behind the initial set of answers, our CASI program may have the effect of discouraging the respondents to choose DK as an answer. No matter how carefully the interviewers explain that DK is a viable option for an answer, it is still possible that the respondents may simply forget the instruction. Besides, as shown above, to choose DK in our CASI program was designed to be rather cumbersome, as it required an extra step of skipping a page in order to get to the yellow screen. While we were convinced that our scheme was the best for the purpose of establishing comparability between CASI and PAPI, we were concerned how this arrangement would affect the distribution of DKs. To prove our concerns, to some extent, it turned out that CASI recorded quite fewer DKs (and NAs) than PAPI for almost all the questions.

These results, however, do not mean that our CASI program excessively or unnecessarily discouraged the respondents from choosing to say “I don’t know.” Those terms “excessively” or “unnecessarily” suggest that there is some “optimal” level of encouraging/discouraging DK in any survey and that our particular design of the CASI program somehow deviated from it. Such an optimal level, of course, neither exists in

²¹ A respondent would of course know about the existence of this extra “yellow page” screen after he/she used it for the first time. Respondents could find out about this page accidentally as well, by hitting the “enter” key by mistake at some point during the self-administered interview process. In either case, it could be argued that, once discovered, the merit of this scheme that it would not encourage DK unnecessarily would be lost thereafter and that clever respondents could always choose to go to the yellow page to pass up difficult questions or to avoid strenuous thinking process. We ultimately concluded, however, that, the merit would not be lost even after the existence of this page became known to respondents, because the respondent facing this yellow page would still have to engage in a cumbersome step of choosing from multiple options to proceed to the next question.

the abstract, nor is possible to define for all practical purposes.

Take, for example, the results for one of our survey questions regarding the important persons/organizations in policy implementation. As can be seen from Table 5, the difference between PAPI and CASI in DK frequencies is quite striking for this particular question. But, note also that between the two methods, the number of respondents who choose “prime minister” as their answer is also strikingly different. Taking both into considerations, it is not simply that CASI “excessively” or “unnecessarily” discourages the respond to choose “I don’t know” as an answer. It might well be the case that CASI is a method that reveals the respondents’ “true” opinions more effectively because the extra cumbersome step of having to skip the initially-given set of answers forces the respondent to ponder his/her answer more thoroughly.²²

TABLE 5 about here

Generally, then, our experiment of trying to create meaningfully comparable environments between CASI and PAPI reinforces the obvious, and yet often forgotten, point about the methodology of survey research. That is, different survey methods have different merits and shortcomings, and hence the choice of methods itself affects the effectiveness and efficiency of data collection. Our findings that the DK answers can be drastically reduced under CASI suggests, at minimum, that we should be careful when drawing inferences from non-CASI survey results with large numbers of DKs.

2) Questionnaire Formatting:

Another set of problems that arose in establishing CASI-PAPI compatibility was concerned with various aspects of questionnaire formatting. Some types of questions, which were unproblematic in PAPI, turned out to be difficult to ask in the CASI environment. We believe that most of the problems we encountered were solved technologically, and would be pleased to share our experiences.

The type of questions which posed great difficulties initially were those which contained multiple elements in one question. Take, for example, the question in our post-election wave survey which asked the respondent to evaluate the importance of different levels of elections held in Japan. The question reads:

[post] Q10 In thinking about the future of politics in Japan, how important do you

²² In order to explore this line of inquiry, a systematic analysis of response time for DK answers will be helpful.

think the results are of the House of Representative election, the House of Councilors election, and the Combined Local Assemblies and Gubernatorial elections, respectively? If “0” means “not important at all” and “10” means “extremely important”, what number indicates your answer?

And, the following three specific statements were tagged in turn:

- (1) first, how about the House of Representatives election?
- (2) then, how about the House of Councilors election?
- (3) then, how about the Combined Local Assemblies and Gubernatorial elections?

For such a set of questions, in the PAPI context, the interviewer would typically prepare only one card for the answers which would contain all three elements, namely “House of Representative elections”, “House of Councilor elections” and “Combined Local Assemblies and Gubernatorial elections”. One card is more preferable than three separate cards because what these questions are trying to get at are the respondents’ *relative* evaluations of the three elections. By preparing only one card for the all three, the respondent is forced to anticipate subsequent questions about “House of Councilor election” and “Combined Local Assemblies and Gubernatorial elections” even while answering the first question about “House of Representative elections.”

How could we replicate the same condition in CASI? The first problem we faced was the constraint imposed by the basic operation of our interface program, which required the respondent to hit the “enter” key every time for his/her answer to be recorded electronically. Ordinarily, this constraint would only allow one question to be displayed on the CASI screen at any stage of the interview process, and the respondent would expect that, by hitting the “enter” key, he/she would be moving onto the next question. However, for a question such as that set out above which contained multiple elements to evaluate in relation to one another, the respondent had to remain at the same screen even though he/she might have to hit the “enter” key multiple times to record the answers. What was needed, therefore, was a matrix format of questionnaire in our interface program whereby only the focus within the screen, not the screen itself, would shift by hitting the “enter” key. For a demonstration of how this interface works, see Appendix III(1).

This innovation of the “matrix questioning” format solved some, but not all of the problems. If the number of elements which the respondent was asked to evaluate in relation to one another was small, as was the case above with only three elements, the

simple, static version of matrix interface would have been sufficient. In other cases, however, the number of elements was much larger, as was the case with post-election wave Q15 regarding the respondent's participation in various categories of political activities. The format of this question had to be extremely complicated, because it had two components, the first about his/her past experience of participation and the second about his/her willingness for future participation, across 16 categories of activities respectively (see Appendix IV). Because the size of the fonts used for CASI's screen display had to be large enough, another technological modification was needed so that the matrix format could accommodate those questions containing larger number of elements at the same time.²³ Our solution was to invent a dynamic version of the matrix questioning interface, in which the contents displayed on the screen would scroll down as the respondent hit the "enter" key. For a demonstration of how this interface works, see Appendix III(2).

In addition to the above multiple-element questions, those type of questions that allowed for multiple answers also forced us to innovate a special technological treatment under CASI. The following, for example, is one of such questions often asked in any survey.

[pre] Q.10: Are there any parties that you would never want to support? If there are, which parties are they? Please name as many parties about which you feel this way (M.A.).

For this type of question, in PAPI, the interviewer normally records as many answers as the respondent provides, and the process continues until the respondent finally makes it clear to the interviewer that "there are no more parties applicable" left on the remaining list. During this process, the interviewer, if so instructed, can also record the order in which each answer is given by the respondent.

How can this procedure be replicated in CASI? Again, because of the basic constraint of the CASI's operation, such questions allowing for more than one answer at a time pose a problem, because the respondent has to hit the "enter" key each time he/she choose one item on the list. Our solution to this problem was to invent an interface scheme with which to transform this multiple answer question into a series of single

²³ We were concerned that if the font sizes were too small, elderly respondents would not be able to read the questions and list of answers displayed on the screen. It is true that the "font size problem" would occur for the answer-option card in the PAPI context as well. But, in PAPI, the interviewer not only shows the card but can repeat the answer-options if necessary.

answer questions. This scheme works as follows. The respondent initially sees the screen displaying the full list of political parties, while being asked “Are there any parties which you would never want to support? If there is, which party is it?” If the respondent chooses, for example, the Japan Communist Party (JCP) as his/her initial answer and hits the “enter” key, then the respondent will see the second screen displaying the list of all parties but the JCP, while being asked “Are there any more?”. If the respondent chooses the Liberal Democratic Party (LDP) in this round and hits the “enter” key, then a third screen displaying the list of all parties but the JCP and the LDP will appear, with a question “Are there any more?”....This process continues until the respondent chooses the option, “there are no more applicable” and hits the “enter” key, which will take the respondent to the next question. Note that this scheme makes the CASI’s procedure for this question parallel to PAPI’s procedure in several key respects. Not only are the respondents in both PAPI and CASI given opportunities to express more than one answer for this question (as they are supposed to for a MA question), they are also able to express the rank-order of their answers (the order of negative preferences for political parties in this case), which is recorded manually by the interviewer in PAPI and electronically in CASI. For a demonstration of this scheme, see Appendix III(3).

The above are but some examples of the technological innovations which were necessary to make a meaningful comparison between CASI and PAPI. The above examples are a reminder that the introduction of computer technologies to the field of survey research often creates a completely new set of problems, which would not have arisen under the ordinary survey method.

Randomization

In our planning stage, we recognized that another important benefit of introducing computer technologies to the field of survey research was the ability to randomize the order of questions as well as that of the listed choices for answers. For our 2007 CASI survey, we did not randomize the order of questions, but we did the order of listed choices for answers, as well as the order of the elements in those questions (such as post-election wave Q15 cited above) which ask the respondents to evaluate them in relation to one another.

(1) Why Randomize?

From a methodological standpoint, randomization is crucial when the order of questions and/or of listed choices is expected to inflict a non-negligible cognitive impact on the respondent. Although the gravity of such an “ordering effect” has been known to

the community of Japanese survey researchers, they had no choice but to ignore it in the past because in PAPI, for practical reasons, the order needed to be fixed for all the respondents. Thus, for example, in the question quoted above (pre-election Q10) which asks the respondent to choose a party/parties which he/she would never want to support, the respondents in a typical PAPI survey in Japan would face the list of political parties starting with the Liberal Democratic Party at the top, followed by the Democratic Party, then by Clean Government Party, usually in the order of relative share of parliamentary seats. This way of listing would be problematic if the respondent, by correctly recognizing from this particular order that the LDP was the largest and/or most powerful party, was somehow influenced to decide that he/she would or would not support the LDP, independent of his/her “original” or “true” opinion toward the LDP. In such a case, the listed order itself cannot be regarded as being informationally neutral, as it may create some cognitive bias for/against the LDP in the mind of the respondents.

Despite the possibility that ordering effects are abound, PAPI is severely limited in that it would be practically infeasible to prepare (i.e., to print out) hundreds of (randomized) sets of questions and/or answers. Even it were possible to prepare such questionnaires and/or lists, manual recording of answers by interviewers would likely cause errors. Under CASI, however, none of these problems arises.

(2) Randomization and the Organization of Data Set

Conceptually, to introduce randomization in survey research appears to be a simple procedure. Indeed, as far as the technological aspects are concerned, randomization can be done quite easily using computers. It turned out, however, that it is rather a complicated procedure to transform the results obtained from randomized questionnaires into readily-usable data. In order to express all the necessary information obtained from CASI's randomized questionnaire, some innovations were required in terms of the organization of variables in the data-set.

To illustrate how we created and coded variables, let us consider the example quoted above, which asks: “[PreQ.10] Are there any parties that you would never want to support? If there are, which parties are they? Please name as many parties about which you feel this way (M.A.).” In CASI, as noted before, the list of answers to this question was randomized. Now suppose that the actual (randomized) order that a particular respondent happened to see on the initial screen was the following:

1. LDP (Liberal Democratic Party)
2. CGP (Clean Government Party)

3. SDP (Social Democratic Party)
4. DPJ (Democratic Party of Japan)
5. JCP (Japan Communist Party)
6. Other parties
7. There is no such party

We call this order “Display Sequence” denoted by “DS” in our data-set. In order to convey the information about the order of the listed choices (randomized for each respondent), we would need five DS variables, namely:

a10DSx1st
a10DSx2nd
a10DSx3rd
a10DSx4th
a10DSx5th

where “a” stands for “pre-election wave”, “10” for Question 10, “x” for multiple answer type of question, and “1st” for the first answer option listed, “2nd” for the second answer option listed, and so forth. By assigning each political party the same fixed reference number as used in PAPI, then, the above five variables together can express the displayed (randomized) order which this particular respondent actually saw on the initial screen. That is, with LDP=1, DPJ=2, CGP=3, JCP=4 and SDP=5, the above five variables for this respondent should read:

a10DSx1st = 1
a10DSx2nd = 3
a10DSx3rd = 5
a10DSx4th = 2
a10DSx5th = 4

Turning from the display order to the preference order of this respondent, suppose further that this respondent has chosen the JCP as the party that he/she does not want to support in the first round of questioning, that he/she has also chosen the CGP in the second round, and the SDP in the third round, but that he/she has chosen “no more parties applicable” in the fourth round. To represent this (negative) preference order requires another set of variables, which we call “response sequence” and denote by “RS.”

In the case of the above respondent, these variables should read:

a10xLDPRS = -9
a10xDPJRS = -9
a10xCGPRS = 2
a10xJCPRS = 1
a10xSDPRS = 3
a10xOTHRs = -9
a10xNONRS = 4
a10xDKRS = -9
a10xNARS = -9

These two sets of variables above, DS and RS variables, together contain all the necessary information about the results from CASI's randomized questionnaire. Nevertheless, we recognize that these two variables by themselves are not so convenient for practical purposes, particularly when comparing those with the results from PAPI for the same question. Thus, we have prepared a third set of variables, which we call "Converted Sequence" (denoted by "CS") representing which party was chosen as an answer in which order. In the case of the above respondent, they should read:

a10CSx1st = 4 (for JCP)
a10CSx2nd = 3 (for CGP)
a10CSx3rd = 5 (for SDP)
a10CSx4th = 7 (for "no more parties applicable")
a10CSx5th = -9

(3) Effect of Randomization?

Because public opinion surveys in Japan had never been conducted with randomization in the past, it is possible that they were contaminated by various "ordering effects" resulting from the particular ways in which the answer-options and the elements for relative evaluations were listed in the questionnaires. Utilizing computer technologies, our CASI survey provides the first systematic findings with which to test these effects in Japan. If there were any such ordering effects, they should be detected in our results obtained from the randomized questionnaire.

Appendix IV lists all of the questions, in both pre-election and post-election waves, in

which we randomized the order of listed answers and elements, together with the results from both CASI and PAPI. Despite some stark differences between the two sets of results, it is impossible to isolate the effect of randomization by simply comparing these aggregate distributions. There are so many other factors that interact with these results, obvious examples being the possible effects of social desirability and DK treatments both of which have already been discussed above. To reveal the randomization effect (and hence the ordering effects) would thus require a thorough analysis of the display sequence and response sequence variables within the CASI sample.

Political Economic Experiments

Finally, the third major pillar of our research objectives was to conduct what we call a “political-economy experiment” utilizing CASI.²⁴ At Waseda University, economists, social-psychologists, and political scientists have been engaged since 2003 in collaborative research on new types of experiments, the design of which explicitly incorporates the stage of political decision-making in otherwise standard public-goods provision games. These experiments have been conducted in our newly-built laboratory, where up to 20 human subjects in divided booth setting can engage in various forms of strategic interactions through the network of computers. Taking advantage of our CASI survey, we decided to conduct similar experiments on a randomly drawn nation-wide sample.

1) Why CASI experiment?

The methodological strength of an experiment in scientific inquiry lies in its ability to reveal a causal mechanism by contrasting the behavior of “controlled groups” and “experiment groups.” That is, through a carefully-designed manipulation of the conditions that each group faces, the experiment can isolate the hypothesized effect to cause the difference in behavioral outcomes between the two groups. While this procedure secures the so-called “internal validity” in testing the logic of a causal argument, the ordinary experiment conducted in a laboratory setting is said to lack “external validity” in testing the generalizability of the argument. Typically, experiments conducted in university laboratories use students as their subjects. Moreover, the number of students that can participate in an experiment at one time is often severely limited due to limitations in space and the network environment of the

²⁴ For the details of our experimental design and a preliminary analysis of the results, see the paper by Kazumi Shimizu, Motoki Watabe, Kentaro Fukumoto, Yuko Morimoto and Koichi Kuriyama to be presented at the same APSA panel.

laboratory itself. Thus, criticisms levied repeatedly against experimental research have been that neither the findings nor the inferences drawn from these experiments can be generalized.

The lack of external validity is problematic, particularly when the hypothesis being tested in the experiment has something to do with macro-political phenomena, such as elections, demonstrations, revolutions, and, more generally, political changes. The process that leads to these extraordinary political events involves a large part of the entire population, whether the involvement may take the form of explicit participations in political action or more tacit consent and collaboration. Thus it would be improper, for example, to draw inferences about certain electoral outcomes based on an experiment that replicates the election and voting decision process in a laboratory setting. Obviously, university students alone cannot represent the eligible voters of an entire nation.

Our aim in incorporating a political-economic experiment into the 2007 CASI survey was to conduct an experiment concerning a macro-political event on a sample randomly drawn from the nation-wide population of Japan's eligible voters. To our knowledge, such an experiment has never been conducted anywhere in the world.

2) the puzzle, hypothesis and experiment

In designing our experiment, we had in mind a specific puzzle in the context of recent Japanese politics: Why did Prime Minister Jun'ichiro Koizumi win a landslide in the 2005 House of Representatives election? Koizumi's extraordinary victory defied most of the conventional explanations offered by contemporary Japanese politics. The Liberal Democratic Party has been suffering a long term decline ever since the 1960s, and Koizumi's own drastic reform initiatives were said to have had a devastating impact on the LDP's strongholds. Furthermore, as a result of the 1993-94 change in electoral laws, a two-party system has been gradually emerging in Japan, with the Democratic Party of Japan increasingly becoming a viable alternative to the LDP. Koizumi's success was at odds with all of these trends.

To explain Koizumi's success, we focused on his political style and particularly his usage of political rhetoric during the campaign. It appeared that his clear and simple presentation of political issues, such as his staunch and determined position regarding the privatization of Japan's postal services and savings, was critical in appealing to undecided voters. Hence, we hypothesized:

Hypothesis: Koizumi's usage of simple phrases appealed directly to otherwise

politically uninterested voters and also indirectly by raising their “shared expectation” that others (like themselves) would be mobilized.

In order to test this hypothesis, we decided to incorporate a political-economic experiment with our CASI survey. In fact, such an experiment was the only appropriate way to test the hypothesis. Obviously, because the landslide electoral victory had already taken place a few years before, we could not go back in time and redo another survey with right questions. It was not a viable option, either, to ask the respondents to look back and recall their voting decisions, especially now that they already knew the stunning results of that election. We therefore needed to create the same situation as the voters faced in a more abstract and formalized way, and to conduct an experiment to see whether the subjects/voters would behave the way they actually did in the past election. And, if we conduct this experiment, not in a university laboratory, but with a randomly drawn nation-wide sample, the findings and inferences drawn from this experiment would retain generalizability.

More specifically, in our CASI interface program, we created an imagined situation where each respondent would have to decide whether to participate in a public action (to vote for reform) by paying some personal cost (by going to the poll). The situation was such that the respondent would know that a certain percentage of people (those in an imagined neighboring community) would have to participate together to bring about the result. Essentially, this is a “Public Goods Provision Game with Thresholds,” which is known to have multiple equilibria, one with successful provision of such goods and the other without. Using the framework of this game, then, the key to test the above hypothesis was an effective manipulation of the “simplicity” and/or “clarity” of message that the respondent received. We thus set up the situation where the respondent would receive messages regarding the nature of the aimed public action with varying degrees of difficulty. Group A was given the explanation in simple and clear phrases. Group A was also led to believe that others would be given the explanation in simple and clear phrases. (EASY-EASY Group). Group B was given the explanation in long and difficult phrases. Group B was also led to believe that others would be given the explanation in long and difficult phrases. (HARD-HARD Group). Group C (like Group A) was given the explanation in simple and clear phrases. However, (unlike Group A) Group C would be led to believe that others would be given the explanation in long and difficult phrases. (EASY-HARD Group). This experimental design leads us to expect that, to be consistent with the above hypothesis, public action would most likely to occur among Group A, least likely among Group B, with Group C somewhere between the two.

Prior to the actual CASI survey, preliminary tests of our experimental design were conducted several times at the Waseda's laboratory using students as subjects. Then, they were tested in the pre-pretest of CASI conducted in the Tokyo area. As the results from these numerous pretests were supportive of our hypothesis, they were finally incorporate into both of our main two-wave surveys in the summer 2007.

3) Results and suggestions for future research

The results of our CASI experiments are provided in details in our colleagues' paper, and they are thus not repeated here.²⁵ For the present purpose, we make a few observation as well as suggestions for future direction of research.

First, our experiments were conducted in both pre-election and post-election waves, which already had many regular survey questions for the respondents to answer. The experiments were positioned at the end of our CASI questionnaire. Because these experiments require a lengthy instruction, most respondents spent much longer time for this particular part of the questionnaire than they did on average with other questions. In a future research, perhaps, it would be better to conduct CASI experiment independent of CASI survey, for the sake of respondents' concentrations. Some respondents seemed a little confused when the experimental question suddenly appeared on their screen with a totally different image and format.

Second, the procedures of our experiments were explained to the respondents only visually, using Flash program incorporated into our CASI interface software. This, we realized, was an unusual procedure since, ordinarily, the instructions for experiments are provided by real human agents. One suggestion for future CASI experiment is that it might be helpful for the respondent to listen to the pre-recorded instructions on notebook computers, to compensate the visual information that he/she absorbs on the display.

Third, although our experiment had an element of "strategic interaction" in its basic structure of the game, it was impossible based on the level of our technologies to let the respondents engage in an "on-line" interaction in making their decisions regarding pubic actions. In an environment where wireless internet network is more prevalent, it would be more suitable for the respondents to have a real strategic interaction among themselves, in order to approximate the situations that these respondents face in real politics.

²⁵ See the APSA paper by Kazumi Shimizu, Motoki Watabe, Kentaro Fukumoto, Yuko Morimoto and Koichi Kuriyama.

Conclusions: CASI is worthwhile and doable, and....

In the long run, we have no doubt that computer assisted interviews, whether self-administered (CASI) or not (CAPI), will replace the traditional paper and pencil survey as the main method of personal interviews. In Japan and elsewhere, computer technologies are bound to become even more prevalent in the future than they are today. In a few decades, generations who have never used computers in their lives will soon all be replaced by those who have grown up with Windows and Explorer. In this regard, to introduce CASI for the first time to the Japanese survey field was certainly a worthy project.

From an academic viewpoint as well, we believe our CASI survey accomplished a “great leap forward” in advancing the frontier of survey research more generally. As explained in this paper, our CASI survey and parallel PAPI survey, carefully combined, provided rare opportunities to compare the utility and characteristics of the two methods systematically. As these two methods provide different levels of privacy in the survey environment, the comparison was particularly effective in highlighting the voters’ tendencies to respond to human interviewers in the PAPI context with socially-desirable answers.²⁶ Our CASI survey, we believe, also broadened the horizon of experimental research in social science, as it incorporated political economy experiments which, to our knowledge, have never been conducted on a randomly drawn nation-wide sample. We have shown that, by taking advantage of the mobility that notebook computers provide, an experimental research can take place outside of the ordinary laboratory environment, hence enhancing the external validity of the causal test employed therein.

Overall, as the first attempt ever to conduct a computer assisted survey in Japan, we are thus satisfied with our accomplishments. In concluding this paper, however, it is also appropriate to discuss a point of concern, one regarding the utility and perhaps future prospects for CASI generally.

As indicated throughout this paper, we are confident that the respondents, as well as our interviewers, had no trouble operating the computers and understanding our CASI interface program. At the same time, we should strive for even simpler and more user-friendly survey technologies. Much of the problem related to technology-literacy, as we see it, did not arise in the process of interview, but it rather did in the process of getting to the interview. That is, we are concerned that the introduction of CASI might have adversely affected the response rates. The response rate for CASI (40.1%) is considerably lower than that for PAPI (44.5%), and some of this gap must be associated

²⁶ See the APSA paper by Nishizawa and Kuriyama.

with the difference in the survey methods themselves.²⁷

This is obviously a bad news for the prospects for any computer assisted survey. Nevertheless, we remain hopeful because, if the technology-literacy problem was the major source of the lower response rates, this problem is likely to become less consequential, as future generations of respondents are less likely to be intimidated by computers. Particularly noteworthy in this regard is the difference, between our CASI and PAPI survey results, in the distribution of answers to the question regarding usage of the internet. For the pre-election wave of the CASI survey, the percentage of the respondents who said that they had never used the internet was 48.1%, while for PAPI it was 54.0% (see Table 6).

TABLE 6 about here

We take this result pointing to an optimism rather than pessimism. Precisely because CASI's turnout rates are lower particularly among those who are less technologically literate as of today, it is possible that further innovations of user-friendly technologies are likely to improve the response rates greatly in the future.

²⁷ Our first letter sent out to the respondents (which indicates they were chosen for the survey) did not mention anything about the usage of computers in survey. It is at the time of the initial contact when the interviewers actually visited the respondents houses that the respondents were told that the interview would take place with the aid of computers and they would have to self-administer the entire interview. At that point, the respondents could decide not to participate in the interview process at all. We did collect, through interviewers' observations, the data for why respondents refused to participate in survey. Obviously, such data can never be complete and thus cannot be wholly reliable. Nevertheless, some exploratory analysis of this data may shed light on why the response rate for CASI was much lower than for PAPI.

Table 1: [pre] Q1-2 How often do you read newspapers? Choose one from these choices of answers

CASI(736)/PAPI(817)	CASI		PAPI			CASI		PAPI	
	N	%	N	%		N	%	N	%
1. never	104	14.1	87	10.6	5. (mostly) everyday	491	66.7	583	71.4
2. 1 day a week	41	5.6	44	5.4	6. *DK	2	0.3	1	0.1
3. 2 ~ 3 days a week	59	8.0	66	8.1	7. *NA	0	0.0	2	0.2
4. 4 ~ 5 days a week	39	5.3	34	4.2					

Table 2: [pre] Q1-1How often do you watch news on TV? Choose one from these choices of answers

CASI(736)/PAPI(817)	CASI		PAPI			CASI		PAPI	
	N	%	N	%		N	%	N	%
1. never	21	2.9	12	1.5	5. (mostly) everyday	594	80.7	678	83.0
2. 1 day a week	18	2.4	27	3.3	6. *DK	0	0.0	0	0.0
3. 2 ~ 3 days a week	53	7.2	52	6.4	7. *NA	0	0.0	0	0.0
4. 4 ~ 5 days a week	50	6.8	48	5.9					

Table 3: [post] Q11-1 The words conservative and progressive are used to express one's political position. If progressive is "0" and conservative is "10", what number do you think might best indicate your own position?

CASI(780)/PAPI(933)	CASI		PAPI	
	N	%	N	%
0. progressive	13	1.7	11	1.2
1. ↑	12	1.5	6	0.6
2.	25	3.2	27	2.9
3.	76	9.7	80	8.6
4.	88	11.3	78	8.4
5. middle	363	46.5	473	50.7
6.	59	7.6	82	8.8
7.	62	7.9	58	6.2
8.	46	5.9	50	5.4
9. ↓	7	0.9	16	1.7
10. conservative	19	2.4	10	1.1
11. *DK	8	1.0	40	4.3
12. *NA	2	0.3	2	0.2

Table 4: Two Types of Panel-Structured Surveys: Within and Between Comparisons

		2nd-wave PAPI		
1st-wave PAPI	<			
		2nd-wave CASI	<===	<u>Within</u> group Comparison
1st-wave PAPI	--	2nd-wave PAPI		
1st-wave CASI	--	2nd-wave CASI	<===	<u>Between</u> group Comparison

Table 5 [pre] Q 4 Which person or which organization do you think acts most effectively to implement useful policies on your behalf? Choose one from these choices of answers.

CASI(736)/PAPI(817)	CASI		PAPI	
	N	%	N	%
1. Prime minister	187	25.4	124	15.2
2. Political party you support	197	26.8	193	23.6
3. Representatives in the national Diet from your areas	83	11.3	102	12.5
4. Local politicians from your areas (mayors or members of local assemblies)	220	29.9	220	26.9
5. DK	39	5.3	121	14.8
6. NA	10	1.4	57	7.0

Table 6 [pre] Q 2 How many hours a day on average do you use the Internet with your computers or cellular phones? Choose one from these choices of answers. If you use the Internet for your work, subtract those hours.

CASI(736)/PAPI(817)	CASI		PAPI			CASI		PAPI	
	N	%	N	%		N	%	N	%
1. never	354	48.1	441	54.0	5. *DK	0	0.0	1	0.1
2. less than 30 mins	133	18.1	151	18.5	6. *NA	1	0.1	1	0.1
3. less than 1 hour	106	14.4	104	12.7					
4. more than 1 hour	142	19.3	119	14.6					

Appendix I: Original Members of CASI Project

From Waseda University

Aiji Tanaka (Principle Investigator),
Yukihiko Funaki
Mariko Hasegawa (currently at the Graduate University for Advanced Studies)
Masaru Kohno
Ikuo Kume
Koichi Kuriyama
Kazumi Shimizu

From Other Universities

Kentaro Fukumoto (Gakushuin University)
Yusaku Horiuchi (Australian National University)
Kosuke Imai (Princeton University)
Ryosuke Imai (Tokyo Metropolitan University)
Yoshitaka Nishizawa (Doshisha University)
Yutaka Shinada (Kobe University)
Kengo Soga (Osaka University; currently at Kobe University)
Motoki Watabe (University of Kyoto; currently at Waseda University)
Masahiro Yamada (Kwansei Gakuin University)

Appendix II: Supplemental Information for WASEDA-CASI2007/PAPI2007

1. **Geographical Area:** Japan (all 47 prefectures)
2. **Population:** eligible voters (men and women over 20 years of age)
3. **Period:** two-wave survey before and after the House of Councilors election in 2007*

First Wave: June 16 (Saturday) — July 11 (Wed), 2007

Second Wave: August 25 (Saturday) — September 17 (Mon), 2007

* The election was held on July 29 (Sunday); the official campaign period began on July 12 (Thursday)

4. **Sampling Method:** stratified two-stage random sampling (see below for details)

5. **List used for Sampling:**

“voter registration list (Senkyonin Meibo)”

supplemented by “residential register(Jumin Kihon Daicho)”

6. **Number of Sample Points:**

CASI: 115 locations

PAPI: 115 locations

7. **Planned Number of Samples**

We set 1840 as our targeted number for sample for the first wave for each CASI and PAPI. For the targeted number of sample for the second wave, see the table below.

		# of sampled respondents per location	# of sampling points	# of planned sample
1st Wave	CASI sample	16	115	1,840
	PAPI sample	16	115	1,840
2nd Wave	CASI respondents from 1st Wave supplements for 2nd Wave※	-	-	(736)
		6	115	690
		total		1,426
	PAPI respondents from 1st Wave supplements for 2nd Wave※	-	-	(817)
		6	115	690
		total		1,507

※ see below

8. Total Number of Sample

From the population of listed eligible voters, we drew the total of 2990 respondents, that is, 26 for 115 points, for CASI and PAPI respectively. These numbers were calculated as follows.

1) Anticipated Response Rates and Supplements for Sample

We set the number of necessary supplements for sample to be 6 according to the following calculation.

- ① As noted above, we set 1840 as our targeted numbers of sample for the first wave for each CASI and PAPI. Thus, for each of 115 points, 16 respondents had to be sampled ($16 \times 115 = 1840$).
- ② We anticipated that the response rate of the first wave would be 44%, thus our respondents expected to be 810 ($1840 \times .44 = 810$). We also anticipated that the response rate of the second wave would be 70%, thus our respondents expected to be 567 ($810 \times .70$).
- ③ We planned that the second wave of survey would be conducted on approximately same number of respondents of the first wave. We therefore needed additional 233 respondents. Based on the same anticipated response rate (44%), we would need 530 supplementary respondents for each CASI and PAPI sample ($233/.44$).
- ④ By dividing 530 by 115 points, we obtain the number 5 ($4.6=530/115$). Just in case the response rates were even lower than our anticipated rates, we added 1, thus finally to obtain 6 as the number for supplements.

2) Sample Substitutes

In addition to the above supplementary respondents, we sampled an additional 4 respondents as alternates or substitutes (3 for the first wave and 1 for the second wave). We enforced a strict rule with regard to allowing the original respondents be replaced by these alternates either ① when the former were dead or had moved elsewhere, or ② when they could not have been contacted for reasons beyond our control. (Note: despite the strict rule, some sampling points actually required more than 4 alternates. See below)

3) The Compositions of Samples

- | | |
|--------------|-----------------------------------|
| No. 1 ~16 : | original samples for the 1st wave |
| No. 17 ~19 : | alternates for the 1st wave |
| No. 20 ~25 : | supplements for the 2nd wave |
| No. 26 : | alternate for 2nd wave |

9. Sampling Procedure

1) Stratifications

① Prefectures are divided into the following 9 blocks.

<u>Blocks</u>	<u>Prefectures in the block</u>
1. Hokkaido	Hokkaido
2. Tohoku	Aomori, Iwate, Miyagi, Akita, Yamagata, Fukushima
3. Kanto	Ibaragi, Tochigi, Gunma, Saitama, Chiba, Tokyo, Kanagawa, Yamanashi, Nagano
4. Hokuriku	Niigata, Toyama, Ishikawa, Fukui
5. Tokai	Gifu, Shizuoka, Aichi, Mie
6. Kinki	Shiga, Kyoto, Osaka, Hyogo, Nara, Wakayama
7. Chugoku	Tottori, Shimane, Okayama, Hiroshima, Yamaguchi
8. Shikoku	Tokushima, Kagawa, Ehime, Kochi
9. Kyushu	Fukuoka, Saga, Nagasaki, Kumamoto, Oita, Miyazaki, Kagoshima, Okinawa

② In each block, cities and towns/villages are divided into the following 5 categories according to their population size. City population size is based on 2005 census, and the classifications of cities and towns/villages are as of October 1st, 2005.

City size categories

1. 18 Metropolitan Cities (Sapporo, Sendai, Saitama, Chiba, Tokyo, Yokohama, Kawasaki, Niigata, Shizuoka, Hamamatsu, Nagoya, Kyoto, Osaka, Sakai, Kobe, Hiroshima, Kitakyushu and Fukuoka)
2. Cities with 150,000 people or more
3. Cities with 50,000 people or more
4. Other cities
5. Towns and Villages

③ Based on these two criteria, cities and towns/villages are divided into 43 strata (9 x 5 - 2, note: Hokkaido block does not have Cities with 50,000 people or more and Shikoku block does not have metropolitan cities). Then the sampling points are allocated into these 43 strata in proportion to the 2005 census population estimates, so that the total number of sampling points be equal to 115.

Table: Number of Sampling Points in each Strata

	18 Metro Cities	Cities >= 150th	Cities >= 50th	Other Cities	Towns& Villages	Total
Hokkaido	2	1	1	0	1	5
Tohoku	1	3	2	1	2	9
Kanto	14	13	8	1	4	40
Hokuriku	1	1	1	1	1	5
Tokai	3	3	4	1	2	15
Kinki	6	6	4	1	2	19
Chugoku	1	3	1	1	1	7
Shikoku	0	1	1	1	1	4
Kyushu	2	3	3	2	3	13
Total	30	34	25	9	17	115

2) Sampling

① Census tracts (2005 Census) are used as the primary sampling unit.

Secondary sampling units (individual respondents)

② In a stratum with more than 2 primary sampling points, the census tracts are chosen by the systematic sampling. The sampling interval is determined by the following formula:

sampling interval = (total population in stratum) / (total N of sampling points in stratum)

③ The order of city/district/town/village is based on the 1995 Census City/District/Town/Village Code.

④ As the secondary sampling units, 26 individual respondents are chosen in each designated primary sampling unit by the systematic sampling, with an interval of 21 voters, based on the voter registration list (Senkyonin Meibo) (in some cases based on the residential register, Jyumin Kihon Daicho).

10. Response Rates

			planned size of sample	shortage of alternates	actual size of sample	respondents	response rates	non-respondents
1st wave	CASI		1,840	4	1,836	736	40.1%	1,100
	PAPI		1,840	2	1,838	817	44.5%	1,021
	Total		3,680	6	3,674	1,553	42.3%	2,121
2nd wave	CASI	Total	1,426	16	1,410	780	55.3%	630
		1st wave respondents	736	0	736	516	70.1%	220
		supplements for 2nd wave	690	16	674	264	39.2%	410
	PAPI	Total	1,507	9	1,498	933	62.3%	565
		1st wave respondents	817	0	817	619	75.8%	198
		supplements for 2nd wave	690	9	681	314	46.1%	367
	Total	Total	2,933	25	2,908	1,713	58.9%	1,195
		1st wave respondents	1,553	0	1,553	1,135	73.1%	418
		supplements for 2nd wave	1,380	25	1,355	578	42.7%	777

11. Survey Company:

Nippon Research Center, Ltd.

2-7-1 Nihonbashi-Honcho, Chuo-ku, Tokyo, 103-0023 Japan.

Appendix III (1) : Matrix Questioning Interface

問28(1)

今後の日本の政治を考えたとき、衆議院選挙、参議院選挙、統一地方選挙の選挙結果は、それぞれの程度重要だと思いますか。0が「全く重要でない」、10が「非常に重要である」として、0から10の数字でお答えください。
まず衆議院選挙についてはどうでしょうか。

衆議院選挙	参議院選挙	統一地方選挙
☐ (0) 0 全く重要でない ☐ (1) 1 ☐ (2) 2 ☐ (3) 3 ☐ (4) 4 ☐ (5) 5 中間 ☐ (6) 6 ☐ (7) 7 ☐ (8) 8 ☐ (9) 9 ☐ (10) 10 非常に重要である		

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問28(1)

今後の日本の政治を考えたとき、衆議院選挙、参議院選挙、統一地方選挙の選挙結果は、それぞれの程度重要だと思いますか。0が「全く重要でない」、10が「非常に重要である」として、0から10の数字でお答えください。
まず衆議院選挙についてはどうでしょうか。

衆議院選挙	参議院選挙	統一地方選挙
☐ (0) 0 全く重要でない ☐ (1) 1 ☐ (2) 2 ☐ (3) 3 ☐ (4) 4 ☐ (5) 5 中間 ☒ (7) 7 ☐ (8) 8 ☐ (9) 9 ☐ (10) 10 非常に重要である		

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問28(2)

参議院選挙についてはどうでしょうか。

衆議院選挙	参議院選挙	統一地方選挙
	☐ (0) 0 全く重要でない ☐ (1) 1 ☐ (2) 2 ☐ (3) 3 ☐ (4) 4 中間 ☐ (5) 5 ☐ (6) 6 ☐ (7) 7 ☐ (8) 8 ☐ (9) 9 ☐ (10) 10 非常に重要である	

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問28(2)

参議院選挙についてはどうでしょうか。

衆議院選挙	参議院選挙	統一地方選挙
	☐ (0) 0 全く重要でない ☐ (1) 1 ☐ (2) 2 ☒ (3) 3 ☐ (4) 4 中間 ☐ (5) 5 ☐ (6) 6 ☐ (7) 7 ☐ (8) 8 ☐ (9) 9 ☐ (10) 10 非常に重要である	

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問28(3)

統一地方選挙についてはどうでしょうか。

衆議院選挙	参議院選挙	統一地方選挙
		☐ (0) 0 全く重要でない ☐ (1) 1 ☐ (2) 2 ☐ (3) 3 ☐ (4) 4 中間 ☐ (5) 5 ☐ (6) 6 ☐ (7) 7 ☐ (8) 8 ☐ (9) 9 ☐ (10) 10 非常に重要である

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問28(3)

統一地方選挙についてはどうでしょうか。

衆議院選挙	参議院選挙	統一地方選挙
		☐ (0) 0 全く重要でない ☐ (1) 1 ☐ (2) 2 ☐ (3) 3 ☐ (4) 4 中間 ☒ (5) 5 ☐ (6) 6 ☐ (7) 7 ☐ (8) 8 ☐ (9) 9 ☐ (10) 10 非常に重要である

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Appendix III (2): Dynamic Matrix Questioning Interface

問15(1)

次にあげるようなことを、これまでにしたことがありますか。
また、それらの活動について、今後やってみたいと思いますが、思いませんか。
次にあげる活動について、あてはまるものをお選びください。

まず最初に「選挙に立候補する」についておうかがいします。これまでにしたことがありますか。

選挙に立候補する	これまで...	☐ ① 何度もある	☐ ② 1-2回ある	☒ ③ 一度もない
政治家の後援会員となる	今後は...			
政党の党員となる				
政党の活動を支援する(献金・党の機関誌の購読)				
役所に相談する				
請願書に署名する				
自治会活動に積極的に関わる				

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問15(2)

「選挙に立候補する」についておうかがいします。
この活動について、今後やってみたいと思いますが、思いませんか。

選挙に立候補する	これまで...	☒ ① 機会があれば立候補したい	☐ ② どちらでもない	☐ ③ 関わりたくない
政治家の後援会員となる	今後は...			
政党の党員となる				
政党の活動を支援する(献金・党の機関誌の購読)				
役所に相談する				
請願書に署名する				
自治会活動に積極的に関わる				

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問15(5-1)

「役所に相談する」についておうかがいします。
これまでにしたことがありますか。

役所に相談する	これまで...	☐ ① 何度もある	☐ ② 1-2回ある	☐ ③ 一度もない
政治家の後援会員となる	今後は...			
政党の党員となる				
政党の活動を支援する(献金・党の機関誌の購読)				
選挙に立候補する				
請願書に署名する				
自治会活動に積極的に関わる				

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問15(5-1)

「役所に相談する」についておうかがいします。
これまでにしたことがありますか。

役所に相談する	これまで...	☒ ① 何度もある	☐ ② 1-2回ある	☐ ③ 一度もない
政治家の後援会員となる	今後は...			
政党の党員となる				
政党の活動を支援する(献金・党の機関誌の購読)				
選挙に立候補する				
請願書に署名する				
自治会活動に積極的に関わる				

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問15(5-2)

「役所に相談する」についておうかがいします。
この活動について、今後やってみたいと思いますが、思いませんか。

役所に相談する	これまで...	☐ ① また相談する	☐ ② どちらでもない	☐ ③ 関わりたくない
政治家の後援会員となる	今後は...			
政党の党員となる				
政党の活動を支援する(献金・党の機関誌の購読)				
選挙に立候補する				
請願書に署名する				
自治会活動に積極的に関わる				
「パブリックコメント」で意見を提出する				

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問15(5-2)

「役所に相談する」についておうかがいします。
この活動について、今後やってみたいと思いますが、思いませんか。

役所に相談する	これまで...	☒ ① また相談する	☐ ② どちらでもない	☐ ③ 関わりたくない
政治家の後援会員となる	今後は...			
政党の党員となる				
政党の活動を支援する(献金・党の機関誌の購読)				
選挙に立候補する				
請願書に署名する				
自治会活動に積極的に関わる				
「パブリックコメント」で意見を提出する				

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問15(6-1)

「請願書に署名する」についておうかがいします。

これまで(に)したことがありますか。

政党の党員となる				
政党の活動を支援する(献金・党の機関誌の購読)				
役所に相談する				
請願書に署名する	これまで(に)...	☐ (1) 何回もある	☐ (2) 1~2回ある	☐ (3) 一度もない
	今後は...			
自治会活動に積極的に関わる				
「パブリックコメント」で意見を提出する				
デモや集会に参加する				

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問15(6-1)

「請願書に署名する」についておうかがいします。

これまで(に)したことがありますか。

政党の党員となる				
政党の活動を支援する(献金・党の機関誌の購読)				
役所に相談する				
請願書に署名する	これまで(に)...	☐ (1) 何回もある	☒ (2) 1~2回ある	☐ (3) 一度もない
	今後は...			
自治会活動に積極的に関わる				
「パブリックコメント」で意見を提出する				
デモや集会に参加する				

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Appendix III (3): Interface for Multiple Answer Question

問10

ところで、あなたが絶対に支持したくない政党はありますか。もしあれば、それは何党でしょう。

☒ (1) 共産党

☐ (2) 民主党

☐ (3) 自民党

☐ (4) 公明党

☐ (5) 社民党

☐ (6) その他の政党

☐ (7) そういう政党はない

次のページ

問10-2

他にも、絶対に支持したくない政党はありますか。それとも、もうありませんか。

☐ (1) 共産党

☐ (2) 民主党

☐ (3) 自民党

☐ (4) 公明党

☐ (5) 社民党

☐ (6) その他の政党

☐ (7) もうない

次のページ

問10-2

他にも、絶対に支持したくない政党はありますか。それとも、もうありませんか。

☐ (1) 共産党

☐ (2) 民主党

☒ (3) 自民党

☐ (4) 公明党

☐ (5) 社民党

☐ (6) その他の政党

☐ (7) もうない

次のページ

問10-3

他にも、絶対に支持したくない政党はありますか。それとも、もうありませんか。

☐ (1) 共産党

☐ (2) 民主党

☐ (3) 自民党

☐ (4) 公明党

☐ (5) 社民党

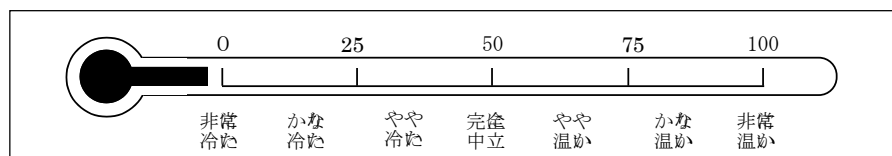
☐ (6) その他の政党

☐ (7) もうない

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APPENDIX VI List of Randomized Questions (Pre-election)

[PRE] Q 5 Please express your feeling (likeness/dislikeness) in terms of temperature. If you think of 100 degrees as the warmest feeling toward a party, 0 degree as the coldest feeling and 50 degrees as neither of the two, what degree(s) do you think captures your feeling for these parties? Please give answers to each party separately.



CASI(736)/PAPI(817)		(a) LDP	(b) DPJ	(c) CGP	(d) JCP	(e) SDP
temperature	CASI	43.9	43.6	31.6	27.7	31.5
(average)	PAPI	42.2	40.4	30.8	26.9	27.8

【DK: 777, NA 888】

[PRE] Q9 Putting elections aside for a moment, what party do you normally support? Choose one from these choices of answers.

CASI(736) /PAPI(817)	CASI		PAPI			CASI		PAPI	
	N	%	N	%		N	%	N	%
1. LDP	263	35.7	287	35.1	7. don't support	213	28.9	276	33.8
2. DPJ	167	22.7	145	17.7	any party				
3. CGP	36	4.9	42	5.1	8. *DK	3	0.4	8	1.0
4. JCP	22	3.0	33	4.0	9. *NA	2	0.3	4	0.5
5. SDP	23	3.1	15	1.8					
6. other party	7	1.0	7	0.9					

→ S Q3

[PRE] Q9-SQ3 (For those who answered 7 in Q9) Even though you do not support a political party, is there one party that you usually like? If there is, please so indicate by choosing one from these choices of answers.

CASI(213) /PAPI(276)	CASI		PAPI			CASI		PAPI	
	N	%	N	%		N	%	N	%
1. LDP	20	9.4	38	13.8	6. other party	4	1.9	2	0.7
2. DPJ	33	15.5	27	9.8	7. don't like any	135	63.4	163	59.1
3. CGP	6	2.8	4	1.4	party				
4. JCP	8	3.8	7	2.5	8. *DK	2	0.9	25	9.1
5. SDP	5	2.3	2	0.7	9. *NA	0	0.0	8	2.9

[PRE] Q10 By the way, are there any parties that you would never want to support? If there are, which parties are they? Please name as many parties as you feel so. (M.A.)

CASI(736) / PAPI(817)	CASI		PAPI			CASI		PAPI	
	N	%	N	%		N	%	N	%
1. LDP	103	14.0	71	8.7	6. other party	49	6.7	25	3.1
2. DPJ	46	6.3	29	3.5	7. none	279	37.9	344	42.1
3. CGP	183	24.9	165	20.2	8. *DK	3	0.4	17	2.1
4. JCP	263	35.7	253	31.0	9. *NA	2	0.3	7	0.9
5. SDP	98	13.3	93	11.4					

[PRE] Q14 On July 22, there will be an election for the House of Councilors. For candidate of which party do you think you will vote in the prefectural district contest? Choose one from the choices of answers.

CASI(736) / PAPI(817)	CASI		PAPI			CASI		PAPI	
	N	%	N	%		N	%	N	%
1. LDP	270	36.7	260	31.8	6. other party	80	10.9	31	3.8
2. DPJ	235	31.9	185	22.6	7. *undecided	35	4.8	195	23.9
3. CGP	44	6.0	44	5.4	8. *DK	14	1.9	37	4.5
4. JCP	25	3.4	28	3.4	9. *NA	7	1.0	19	2.3
5. SDP	26	3.5	18	2.2					

[PRE] Q15 What about in the national “proportional representation” contest? For which party or candidate of which party do you think you will vote? Choose one from the choices of answers.

CASI(736) / PAPI(817)	CASI		PAPI			CASI		PAPI	
	N	%	N	%		N	%	N	%
1. LDP	248	33.7	232	28.4	6. other party	84	11.4	40	4.9
2. DPJ	217	29.5	175	21.4	7. *undecided	30	4.1	192	23.5
3. CGP	66	9.0	56	6.9	8. *DK	19	2.6	42	5.1
4. JCP	32	4.3	35	4.3	9. *NA	7	1.0	18	2.2
5. SDP	33	4.5	27	3.3					

[PRE] Q27-SQ9 Which party do you think is appropriate for a partner of coalition government with the LDP? Please specify all that correspond.

CASI(281) /PAPI(338)	CASI		PAPI			CASI		PAPI	
	N	%	N	%		N	%	N	%
1. DPJ	134	47.7	121	35.8	5. other party	59	21.0	23	6.8
2. CGP	147	52.3	167	49.4	6. *DK	4	1.4	40	11.8
3. SDP	40	14.2	34	10.1	7. *NA	2	0.7	8	2.4
4. JCP	18	6.4	10	3.0					

[PRE] Q27SQ10 Which party do you think is appropriate for a partner of coalition government with the DPJ? Please specify all that correspond.

CASI(172) /PAPI(142)	CASI		PAPI			CASI		PAPI	
	N	%	N	%		N	%	N	%
1. LDP	37	21.5	26	18.3	5. other party	52	30.2	30	21.1
2. CGP	26	15.1	12	8.5	6. *DK	3	1.7	21	14.8
3. SDP	114	66.3	62	43.7	7. *NA	1	0.6	5	3.5
4. JCP	22	12.8	16	11.3					

[PRE] Q29-1 We now ask about policies implemented by government in the following 11 categories. How much are you interested in each of these? Please choose one from these choices of answers.

<i>(※CASI 5,6 =-8)</i>		1		2		3		4		5		6 (-8)	
		interested		somewhat interested		not so interested		not interested		*DK		*NA	
CASI(736)/PAPI(817)		N	%	N	%	N	%	N	%	N	%	N	%
a) defense/ foreign policy	CASI	307	41.7	236	32.1	137	18.6	53	7.2	-	-	3	0.4
	PAPI	307	37.6	284	34.8	144	17.6	64	7.8	17	2.1	1	0.1
b) safety/ public order	CASI	399	54.2	229	31.1	77	10.5	27	3.7	-	-	4	0.5
	PAPI	396	48.5	276	33.8	92	11.3	38	4.7	14	1.7	1	0.1
c) economy	CASI	384	52.2	247	33.6	78	10.6	25	3.4	-	-	2	0.3
	PAPI	413	50.6	264	32.3	97	11.9	30	3.7	12	1.5	1	0.1
d) welfare	CASI	483	65.6	196	26.6	41	5.6	13	1.8	-	-	3	0.4
	PAPI	526	64.4	206	25.2	57	7.0	23	2.8	4	0.5	1	0.1
e) environment	CASI	445	60.5	224	30.4	43	5.8	20	2.7	-	-	4	0.5
	PAPI	439	53.7	277	33.9	76	9.3	18	2.2	5	0.6	2	0.2
f) education	CASI	429	58.3	215	29.2	70	9.5	20	2.7	-	-	2	0.3
	PAPI	464	56.8	221	27.1	80	9.8	45	5.5	5	0.6	2	0.2
g) women's status/ advancement in society	CASI	242	32.9	295	40.1	146	19.8	49	6.7	-	-	4	0.5
	PAPI	234	28.6	329	40.3	198	24.2	41	5.0	12	1.5	3	0.4
h) autonomy of local gov't	CASI	310	42.1	285	38.7	107	14.5	32	4.3	-	-	2	0.3
	PAPI	292	35.7	298	36.5	175	21.4	32	3.9	18	2.2	2	0.2
i) revision of constitution	CASI	296	40.2	247	33.6	143	19.4	46	6.3	-	-	4	0.5
	PAPI	282	34.5	282	34.5	153	18.7	72	8.8	25	3.1	3	0.4
j) reform of bureacrats' "amakudari"	CASI	430	58.4	156	21.2	94	12.8	52	7.1	-	-	4	0.5
	PAPI	435	53.2	192	23.5	111	13.6	61	7.5	16	2.0	2	0.2
k) pension problem	CASI	563	76.5	134	18.2	25	3.4	13	1.8	-	-	1	0.1
	PAPI	657	80.4	115	14.1	26	3.2	12	1.5	4	0.5	3	0.4

[PRE] Q29-2 We asked about your interest before, but let us now ask how important do you think each of these policies is. Choose one from these choices of answers.

(※CASI 5,6 =-8)		1		2		3		4		5		6 (-8)	
		important		somewhat important		not so important		not important		*DK		*NA	
CASI(736)/PAPI(817)		N	%	N	%	N	%	N	%	N	%	N	%
a) defense/ foreign policy	→ CASI	360	48.9	252	34.2	91	12.4	23	3.1	-	-	10	1.4
	→ PAPI	429	52.5	262	32.1	69	8.4	31	3.8	23	2.8	3	0.4
b) safety/ public order	→ CASI	437	59.4	218	29.6	58	7.9	14	1.9	-	-	9	1.2
	→ PAPI	463	56.7	269	32.9	42	5.1	21	2.6	19	2.3	3	0.4
c) economy	→ CASI	438	59.5	235	31.9	42	5.7	13	1.8	-	-	8	1.1
	→ PAPI	506	61.9	241	29.5	40	4.9	11	1.3	16	2.0	3	0.4
d) welfare	→ CASI	524	71.2	174	23.6	21	2.9	13	1.8	-	-	4	0.5
	→ PAPI	549	67.2	217	26.6	30	3.7	9	1.1	9	1.1	3	0.4
e) environment	→ CASI	500	67.9	184	25.0	33	4.5	12	1.6	-	-	7	1.0
	→ PAPI	504	61.7	244	29.9	41	5.0	11	1.3	14	1.7	3	0.4
f) education	→ CASI	483	65.6	191	26.0	42	5.7	14	1.9	-	-	6	0.8
	→ PAPI	500	61.2	222	27.2	58	7.1	21	2.6	13	1.6	3	0.4
g) women's status/ advancement in society	→ CASI	228	31.0	318	43.2	145	19.7	36	4.9	-	-	9	1.2
	→ PAPI	238	29.1	355	43.5	175	21.4	27	3.3	19	2.3	3	0.4
h) autonomy of local gov't	→ CASI	328	44.6	304	41.3	80	10.9	15	2.0	-	-	9	1.2
	→ PAPI	355	43.5	300	36.7	113	13.8	22	2.7	24	2.9	3	0.4
i) revision of constitution	→ CASI	300	40.8	251	34.1	138	18.8	29	3.9	-	-	18	2.4
	→ PAPI	336	41.1	274	33.5	117	14.3	48	5.9	39	4.8	3	0.4
j) reform of bureaucrats' "amakudari"	→ CASI	408	55.4	182	24.7	97	13.2	35	4.8	-	-	14	1.9
	→ PAPI	445	54.5	204	25.0	94	11.5	47	5.8	24	2.9	3	0.4
k) pension problem	→ CASI	587	79.8	115	15.6	20	2.7	10	1.4	-	-	4	0.5
	→ PAPI	681	83.4	103	12.6	18	2.2	5	0.6	7	0.9	3	0.4

[PRE] Q29-3 Do you think, then, that the government has done a good job in each of these polices is. Choose one from these choices of answers.

(※CASI 5,6 =-8)		1		2		3		4		5		6 (-8)	
		has done well		has done pretty well		has not done very well		has not done well at all		*DK		*NA	
CASI(736)/PAPI(817)		N	%	N	%	N	%	N	%	N	%	N	%
a) defense/ foreign policy	CASI	51	6.9	272	37.0	301	40.9	87	11.8	-	-	25	3.4
	PAPI	57	7.0	317	38.8	304	37.2	68	8.3	69	8.4	2	0.2
b) safety/ public order	CASI	54	7.3	264	35.9	318	43.2	83	11.3	-	-	17	2.3
	PAPI	55	6.7	333	40.8	299	36.6	69	8.4	59	7.2	2	0.2
c) economy	CASI	40	5.4	263	35.7	336	45.7	82	11.1	-	-	15	2.0
	PAPI	45	5.5	291	35.6	343	42.0	82	10.0	54	6.6	2	0.2
d) welfare	CASI	57	7.7	233	31.7	314	42.7	119	16.2	-	-	13	1.8
	PAPI	46	5.6	244	29.9	364	44.6	129	15.8	32	3.9	2	0.2
e) environment	CASI	65	8.8	302	41.0	278	37.8	78	10.6	-	-	13	1.8
	PAPI	46	5.6	300	36.7	352	43.1	76	9.3	41	5.0	2	0.2
f) education	CASI	51	6.9	239	32.5	331	45.0	99	13.5	-	-	16	2.2
	PAPI	43	5.3	242	29.6	371	45.4	110	13.5	48	5.9	3	0.4
g) women's status/ advancement in society	CASI	50	6.8	318	43.2	288	39.1	60	8.2	-	-	20	2.7
	PAPI	42	5.1	273	33.4	352	43.1	86	10.5	61	7.5	3	0.4
h) autonomy of local gov't	CASI	45	6.5	275	37.4	326	44.3	73	9.9	-	-	14	1.9
	PAPI	37	4.5	252	30.8	384	47.0	77	9.4	62	7.6	5	0.6
i) revision of constitution	CASI	47	6.4	223	30.3	328	44.6	104	14.1	-	-	34	4.6
	PAPI	52	6.4	234	28.6	340	41.6	104	12.7	82	10.0	5	0.6
j) reform of bureacrats' "amakudari"	CASI	332	4.3	83	11.3	286	38.9	315	42.8	-	-	20	2.7
	PAPI	32	3.9	110	13.5	254	31.1	359	43.9	59	7.2	3	0.4
k) pension problem	CASI	46	6.3	116	15.8	238	32.3	327	44.4	-	-	9	1.2
	PAPI	47	5.8	138	16.9	227	27.8	378	46.3	25	3.1	2	0.2

[PRE] Q33 What do you think about each of the opinions listed here about people, election and politics. Please answer by choosing one.

(※CASI 6,7 =-8)		1		2		3		4		5		6		7 (-8)	
		agree		somewhat agree		in between		somewhat disagree		disagree		*DK		*NA	
CASI(736)/PAPI(817)		N	%	N	%	N	%	N	%	N	%	N	%	N	%
a) it is no use going to vote, when a party or a candidate you support for has no chance to win an election →	CASI	77	10.5	74	10.1	117	15.9	102	13.9	358	48.6	—	—	8	1.1
	PAPI	91	11.1	93	11.4	123	15.1	117	14.3	376	46.0	15	1.8	2	0.2
b) because many people vote in elections, it does not matter if I myself would vote or not →	CASI	45	6.1	79	10.7	109	14.8	80	10.9	419	56.9	—	—	4	0.5
	PAPI	51	6.2	60	7.3	72	8.8	92	11.3	533	65.2	7	0.9	2	0.2
c) it is a duty as an eligible voter to vote →	CASI	553	75.1	106	14.4	42	5.7	7	1.0	25	3.4	—	—	3	0.4
	PAPI	633	77.5	104	12.7	37	4.5	12	1.5	22	2.7	7	0.9	2	0.2
e) I have no power over what the government does →	CASI	261	35.5	184	25.0	135	18.3	75	10.2	76	10.3	—	—	5	0.7
	PAPI	281	34.4	174	21.3	141	17.3	83	10.2	121	14.8	13	1.6	4	0.5
f) there are some occasions where things like politics and government are too complex for me to understand what they are all about →	CASI	221	30.0	228	31.0	142	19.3	72	9.8	70	9.5	—	—	3	0.4
	PAPI	290	35.5	227	27.8	140	17.1	86	10.5	63	7.7	9	1.1	2	0.2
カ) When a bill that is potentially very harmful to you is introduced to the Parliament, you can stop the bill through various campaigns against it, without just being passively letting the Parliament decide it for you →	CASI	105	14.3	149	20.2	242	32.9	100	13.6	131	17.8	—	—	9	1.2
	PAPI	86	10.5	137	16.8	236	28.9	128	15.7	201	24.6	25	3.1	4	0.5

[PRE] Q40 Adding all your incomes, how much was your last year's (2006 Jan.-Dec.) household income? Please answer including bonuses and taxes.

CASI(736)/PAPI(817)	CASI		PAPI			CASI		PAPI	
	N	%	N	%		N	%	N	%
1. less than 2 million	86	11.7	87	10.6	6. 10~12 million	47	6.4	34	4.2
2. 2~4 million	173	23.5	162	19.8	7. 12~14 million	18	2.4	19	2.3
3. 4~6 million	139	18.9	131	16.0	8. more than 14 million	23	3.1	26	3.2
4. 6~8 million	94	12.8	104	12.7	9. *DK	49	6.7	119	14.6
5. 8~10 million	80	10.9	57	7.0	10. *NA	27	3.7	78	9.5

APPENDIX VI (Continued) List of Questions Which Were Randomized (Post-election)

[POST] Q3SQ7 [For those who answered in the previous questions that they voted either for a party or for a candidate from a party in the proportional representation election] Which party or candidate of which party did you vote for? Choose one from these choices of answers.

CASI(642)/PAPI(749)	CASI		PAPI			CASI		PAPI	
	N	%	N	%		N	%	N	%
1. SDP	35	5.7	39	5.2	7. *spoiled ballot in PR	1	0.2	1	0.1
2. CGP	56	9.1	64	8.5	8. *don't want to say	9	1.5	41	5.5
3. JCP	34	5.5	44	5.9	9. *don't remember	1	0.2	9	1.2
4. LDP	182	29.6	215	28.7	10. *DK	1	0.2	1	0.5
5. DPJ	264	42.9	303	40.5	11. *NA	0	0.0	33	0.5
6. other party	32	5.2	28	3.7					

[POST] Q4SQ1 [For those who answered in the previous question that they received phone calls or direct mails requesting for vote during the campaign] For which party or candidate of which party were you requested you to vote for them? Please specify all that correspond (M.A.).

CASI(307)/PAPI(353)	CASI		PAPI			CASI		PAPI	
	N	%	N	%		N	%	N	%
1. LDP	118	38.4	128	36.3	6. other party	18	5.9	10	2.8
2. DPJ	78	25.4	83	23.5	7. *don't want to say	3	1.0	9	2.5
3. CGP	160	52.1	184	52.1	8. *don't remember	1	0.3	5	1.4
4. JCP	29	9.4	36	10.2	9. *DK	5	1.6	1	0.3
5. SDP	11	3.6	20	5.7	10. *NA	3	1.0	0	0.0

[POST] Q5 How much does each of the statements listed here apply to you for the House of Councilors election this time?

Please answer by choosing one.

(※CASI 5,6 =-8)		1		2		3		4		5		6 (-8)	
		applies		Applies somewhat		does not apply so well		does not apply at all		* do not remember /DK		* NA	
CASI(780)/PAPI(933)		N	%	N	%	N	%	N	%	N	%	N	%
(a) I thought my own vote would change the way of politics in Japan →	CASI	155	19.9	256	32.8	234	30.0	128	16.4	—	-	7	0.9
	PAPI	166	17.8	315	33.8	252	27.0	182	19.5	17	1.8	1	0.1
(b) I though my own vote would change the result of election →	CASI	155	19.9	249	31.9	213	27.3	156	20.0	—	-	7	0.9
	PAPI	162	17.4	299	32.0	259	27.8	193	20.7	19	2.0	1	0.1
(c) This was an election whose result would determine the future of Japan →	CASI	223	28.6	308	39.5	164	21.0	74	9.5	—	-	11	1.4
	PAPI	273	29.3	322	34.5	202	21.7	102	10.9	32	3.4	2	0.2
(d) This was an election whose result would determine my own well-being and daily life →	CASI	151	19.4	228	29.2	251	32.2	144	18.5	—	-	6	0.8
	PAPI	119	12.8	263	28.2	297	31.8	220	23.6	33	3.5	1	0.1
(e) It appeared that the party which I had intended to vote for was going to do well in the election →	CASI	191	24.5	248	31.8	174	22.3	161	20.6	—	-	6	0.8
	PAPI	228	24.4	213	22.8	221	23.7	229	24.5	39	4.2	3	0.3
(f) The difference between parties positions was clear →	CASI	241	30.9	267	34.2	188	24.1	74	9.5	—	-	10	1.3
	PAPI	328	35.2	300	32.2	178	19.1	68	7.3	57	6.1	2	0.2
(g) It was clear prior to the election day which candidate was likely to win →	CASI	154	19.7	274	35.1	193	24.7	151	19.4	—	-	8	1.0
	PAPI	186	19.9	254	27.2	221	23.7	193	20.7	77	8.3	2	0.2
(h) There was an important personal matter to take care of on the election day →	CASI	168	21.5	93	11.9	110	14.1	400	51.3	—	-	9	1.2
	PAPI	194	20.8	74	7.9	99	10.6	557	59.7	8	0.9	1	0.1
(i) It occurred to me that going to the poll station was going to be time-costly and cumbersome →	CASI	57	7.3	92	11.8	149	19.1	475	60.9	—	-	7	0.9
	PAPI	40	4.3	67	7.2	113	12.1	701	75.1	10	1.1	2	0.2

[POST] Q8-1 We now ask about policies implemented by government in the following 11 categories. How much are you interested in each of these? Please choose one from these choices of answers.

(※CASI 5,6 =-8)		1		2		3		4		5		6(-8)	
		interested		somewhat interested		not so interested		not interested		*DK		*NA	
CASI(780)/PAPI(933)		N	%	N	%	N	%	N	%	N	%	N	%
a) defense/ foreign policy	CASI	358	45.9	237	30.4	147	18.8	35	4.5	-	-	3	0.4
	PAPI	321	34.4	367	39.3	175	18.8	59	6.3	11	1.2	0	0.0
b) safety/ public order	CASI	418	53.6	248	31.8	85	10.9	23	2.9	-	-	6	0.8
	PAPI	400	42.9	345	37.0	142	15.2	37	4.0	9	1.0	0	0.0
c) economy	CASI	410	52.6	270	34.6	76	9.7	20	2.6	-	-	4	0.5
	PAPI	476	51.0	314	33.7	109	11.7	27	2.9	7	0.8	0	0.0
d) welfare	CASI	489	62.7	206	26.4	65	8.3	16	2.1	-	-	4	0.5
	PAPI	576	61.7	264	28.3	76	8.1	14	1.5	3	0.3	0	0.0
e) environment	CASI	401	51.4	264	33.8	87	11.2	22	2.8	-	-	6	0.8
	PAPI	490	52.5	317	34.0	92	9.9	30	3.2	4	0.4	0	0.0
f) education	CASI	421	54.0	253	32.4	77	9.9	26	3.3	-	-	3	0.4
	PAPI	505	54.1	264	28.3	122	13.1	37	4.0	5	0.5	0	0.0
g) women's status/ advancement in society	CASI	227	29.1	325	41.7	173	22.2	51	6.5	-	-	4	0.5
	PAPI	234	25.1	387	41.5	249	26.7	53	5.7	10	1.1	0	0.0
h) autonomy of local gov't	CASI	332	42.6	314	40.3	104	13.3	26	3.3	-	-	4	0.5
	PAPI	340	36.4	356	38.2	180	19.3	48	5.1	9	1.0	0	0.0
i) revision of constitution	CASI	368	47.2	231	29.6	126	16.2	50	6.4	-	-	5	0.6
	PAPI	299	32.0	299	32.0	235	25.2	73	7.8	27	2.9	0	0.0
j) reform of bureacrats' "amakudari"	CASI	465	59.6	196	25.1	80	10.3	37	4.7	-	-	2	0.3
	PAPI	491	52.6	233	25.0	145	15.5	57	6.1	7	0.8	0	0.0
k) pension problem	CASI	477	61.2	207	26.5	72	9.2	20	2.6	-	-	4	0.5
	PAPI	700	75.0	177	19.0	40	4.3	14	1.5	2	0.2	0	0.0

[POST] Q8-2 We asked about your interest before, but let us now ask how important do you think each of these policies is. Choose one from these choices of answers.

(※CASI 5,6 =-8)		1		2		3		4		5		6 (-8)	
		important		somewhat important		not so important		not important		*DK		*NA	
CASI(780)/PAPI(933)		N	%	N	%	N	%	N	%	N	%	N	%
a) defense/ foreign policy	CASI	383	49.1	262	33.6	101	12.9	26	3.3	-	-	8	1.0
	PAPI	489	52.4	323	34.6	84	9.0	20	2.1	16	1.7	1	0.1
b) safety/ public order	CASI	467	59.9	248	31.8	51	6.5	9	1.2	-	-	5	0.6
	PAPI	520	55.7	321	34.4	65	7.0	13	1.4	14	1.5	0	0.0
c) economy	CASI	477	61.2	239	30.6	52	6.7	8	1.0	-	-	4	0.5
	PAPI	582	62.4	285	30.5	50	5.4	6	0.6	10	1.1	0	0.0
d) welfare	CASI	527	67.6	201	25.8	36	4.6	10	1.3	-	-	6	0.8
	PAPI	645	69.1	227	24.3	47	5.0	9	1.0	5	0.5	0	0.0
e) environment	CASI	446	57.2	251	32.2	67	8.6	9	1.2	-	-	7	0.9
	PAPI	574	61.5	285	30.5	57	6.1	10	1.1	7	0.8	0	0.0
f) education	CASI	487	62.4	235	30.1	40	5.1	13	1.7	-	-	5	0.6
	PAPI	571	61.2	268	28.7	69	7.4	16	1.7	9	1.0	0	0.0
g) women's status/ advancement in society	CASI	231	29.6	336	43.1	171	21.9	36	4.6	-	-	6	0.8
	PAPI	271	29.0	411	44.1	196	21.0	39	4.2	16	1.7	0	0.0
h) autonomy of local gov't	CASI	369	47.3	315	40.4	75	9.6	16	2.1	-	-	5	0.6
	PAPI	423	45.3	353	37.8	118	12.6	23	2.5	16	1.7	0	0.0
i) revision of constitution	CASI	413	52.9	222	28.5	109	14.0	30	3.8	-	-	6	0.8
	PAPI	355	38.0	312	33.4	176	18.9	55	5.9	35	3.8	0	0.0
j) reform of bureacrats' "amakudari"	CASI	448	57.4	199	25.5	98	12.6	28	3.6	-	-	7	0.9
	PAPI	479	51.3	269	28.8	124	13.3	42	4.5	17	1.8	2	0.2
k) pension problem	CASI	537	68.8	179	22.9	43	5.5	15	1.9	-	-	6	0.8
	PAPI	749	80.3	144	15.4	22	2.4	12	1.3	6	0.6	0	0.0

[POST] Q9 Considering the present situation in general in Japan, do you think that the present cabinet has done a good job?
Choose one from the list.

総数 CASI(780)/PAPI(933)	CASI		PAPI			CASI		PAPI	
	N	%	N	%		N	%	N	%
1. has done well	48	6.2	52	5.6	4. has not done well at all	133	17.1	130	13.9
2. has done pretty well	216	27.7	313	33.5	5. *DK	14	1.8	35	3.8
3. has not done very well	368	47.2	401	43.0	6. *NA	1	0.1	2	0.2

[POST] Q10 How do you feel about the following three statements of opinions about politics. Do you agree or disagree? Please answer by choosing one.

(※CASI 5,6 =-8) CASI(780)/PAPI(933)		1		2		3		4		5		6 (-8)	
		agree		somewhat agree		somewhat disagree		disagree		*DK		*NA	
		N	%	N	%	N	%	N	%	N	%	N	%
(a) Peoples' views are reflected in politics because of political parties	→ CASI	193	24.7	392	50.3	150	19.2	29	3.7	-	-	16	2.1
	→ PAPI	248	26.6	444	47.6	156	16.7	31	3.3	54	5.8	0	0.0
(b) Peoples' views are reflected in politics because of elections	→ CASI	381	48.8	329	42.2	44	5.6	17	2.2	-	-	9	1.2
	→ PAPI	469	50.3	361	38.7	69	7.4	11	1.2	23	2.5	0	0.0
(c) Peoples' views are reflected in politics because of parliament	→ CASI	231	29.6	380	48.7	129	16.5	28	3.6	-	-	12	1.5
	→ PAPI	272	29.2	406	43.5	174	18.6	28	3.0	52	5.6	1	0.1

[POST] Q12 Generally speaking, how much do you trust the organizations and groups listed here? For each organization (a) through (g), please answer by choosing one of the numbers on the scale with 10 as the maximum point.

		0	1	2	3	4	5	6	7	8	9	10	11	12	
		do not trust	↘				in between				↗	trust	* DK	* NA	
														(-8)	
		(※CASI 12=-8)													
		CASI(780) / PAPI(933)													
(a) mass media (TV broad- casting, news papers)	→	CASI	N 22	26	49	89	84	274	65	74	59	12	20	-	6
		%	2.8	3.3	6.3	11.4	10.8	35.1	8.3	9.5	7.6	1.5	2.6	-	0.8
		PAPI	N 22	16	49	94	65	322	78	110	107	31	33	6	0
		%	2.4	1.7	5.3	10.1	7.0	34.5	8.4	11.8	11.5	3.3	3.5	0.6	0.0
(b)economic organizations (unions, big business)	→	CASI	N 28	42	54	101	86	320	42	36	35	8	10	-	18
		%	3.6	5.4	6.9	12.9	11.0	41.0	5.4	4.6	4.5	1.0	1.3	-	2.3
		PAPI	N 24	12	50	114	88	357	65	80	48	12	9	73	1
		%	2.6	1.3	5.4	12.2	9.4	38.3	7.0	8.6	5.1	1.3	1.0	7.8	0.1
(c) public organizations (police, hospitals, schools)	→	CASI	N 15	23	37	71	60	227	76	106	94	27	40	-	4
		%	1.9	2.9	4.7	9.1	7.7	29.1	9.7	13.6	12.1	3.5	5.1	-	0.5
		PAPI	N 11	10	28	70	64	318	82	129	121	43	49	8	0
		%	1.2	1.1	3.0	7.5	6.9	34.1	8.8	13.8	13.0	4.6	5.3	0.9	0.0
(d) judicial institutions (courts)	→	CASI	N 10	32	19	62	42	263	61	85	104	42	46	-	14
		%	1.3	4.1	2.4	7.9	5.4	33.7	7.8	10.9	13.3	5.4	5.9	-	1.8
		PAPI	N 9	9	22	44	26	242	77	131	177	67	71	57	1
		%	1.0	1.0	2.4	4.7	2.8	25.9	8.3	14.0	19.0	7.2	7.6	6.1	0.1
(e) political institutions (elections, political parties, parliament)	→	CASI	N 23	35	42	107	86	289	63	52	37	14	18	-	14
		%	2.9	4.5	5.4	13.7	11.0	37.1	8.1	6.7	4.7	1.8	2.3	-	1.8
		PAPI	N 12	11	31	114	85	336	70	108	98	21	23	24	0
		%	1.3	1.2	3.3	12.2	9.1	36.0	7.5	11.6	10.5	2.3	2.5	2.6	0.0
(f) national government/ administration (bureaucracies)	→	CASI	N 30	42	61	93	85	295	52	55	33	10	10	-	14
		%	3.8	5.4	7.8	11.9	10.9	37.8	6.7	7.1	4.2	1.3	1.3	-	1.8
		PAPI	N 26	19	54	123	83	314	69	86	75	17	16	51	0
		%	2.8	2.0	5.8	13.2	8.9	33.7	7.4	9.2	8.0	1.8	1.7	5.5	0.0
(g)local governments/ administrations	→	CASI	N 17	22	24	63	70	282	68	77	79	30	42	-	6
		%	2.2	2.8	3.1	8.1	9.0	36.2	8.7	9.9	10.1	3.8	5.4	-	0.8
		PAPI	N 10	9	22	56	73	330	83	126	134	32	50	7	1
		%	1.1	1.0	2.4	6.0	7.8	35.4	8.9	13.5	14.4	3.4	5.4	0.8	0.1

[POST] Q13 What do you think about the opinions listed here? For each of the opinions (a) through (f), please answer by choosing one.

(※CASI 4,5=-8)

		1		2		3		4		5		6 (-8)	
		agree		somewhat agree		somewhat disagree		disagree		*DK		*NA	
CASI(780)/PAPI(933)		N	%	N	%	N	%	N	%	N	%	N	%
(a) Most people are trustworthy	CASI	49	6.3	366	46.9	286	36.7	74	9.5	-	-	5	0.6
	PAPI	73	7.8	490	52.5	288	30.9	74	7.9	8	0.9	0	0.0
(b) Most people would trust a person who trusts him/her	CASI	179	22.9	451	57.8	122	15.6	22	2.8	-	-	6	0.8
	PAPI	189	20.3	497	53.3	191	20.5	44	4.7	12	1.3	0	0.0
(d) We can never be too careful when dealing with other people	CASI	149	19.1	384	49.2	218	27.9	23	2.9	-	-	6	0.8
	PAPI	231	24.8	417	44.7	233	25.0	39	4.2	12	1.3	1	0.1
(f) In this society, you will be taken advantage of unless you are careful	CASI	236	30.3	367	47.1	153	19.6	18	2.3	-	-	6	0.8
	PAPI	267	28.6	410	43.9	213	22.8	35	3.8	7	0.8	1	0.1
(h) In this world, you will always be rewarded if you are kind to others	CASI	222	28.5	393	50.4	138	17.7	24	3.1	-	-	3	0.4
	PAPI	251	26.9	422	45.2	203	21.8	48	5.1	8	0.9	1	0.1
(j) Most people will reciprocate if you are kind to them	CASI	145	18.6	400	51.3	204	26.2	25	3.2	-	-	6	0.8
	PAPI	167	17.9	443	47.5	257	27.5	56	6.0	10	1.1	0	0.0

[POST-SPLIT SAMPLE A] Q14 Which goal do you think is important for Japan to aim for the next ten years? For each of Group 1 through Group 3, please choose two most important items.

[Group 1] First, among these items, which item is the most important? Which item is the second most important?

CASI(376)/PAPI(472)	Most important ↓				Second most important ↓			
	CASI		PAPI		CASI		PAPI	
	N	%	N	%	N	%	N	%
1. Maintain a high rate of economic growth	96	25.5	214	45.3	107	28.5	105	22.2
2. Make sure that this country has strong defense forces	20	5.3	26	5.5	19	5.1	58	12.3
3. See that the people have more say in how things get decided at work and in their communities	142	37.8	154	32.6	120	31.9	129	27.3
4. Try to make our cities and countryside more beautiful	110	29.3	62	13.1	116	30.9	158	33.5
5. *Do not understand these items	2	0.5	1	0.2	3	0.8	0	0.0
6. *DK	6	1.6	13	2.8	10	2.7	15	3.2
7. *NA	0	0.0	2	0.4	1	0.3	7	1.5

[Group 2] Next, among these items, which item is the most important? Which item is the second most important?

CASI(376)/PAPI(472)	Most important ↓				Second most important ↓			
	CASI		PAPI		CASI		PAPI	
	N	%	N	%	N	%	N	%
1. Maintain order in the nation	98	26.1	140	29.7	122	32.4	129	27.3
2. Give the people more say in important government decisions	132	35.1	136	28.8	120	31.9	131	27.8
3. Keep prices stable	119	31.6	163	34.5	88	23.4	132	28.0
4. Protect freedom of speech	21	5.6	19	4.0	36	9.6	60	12.7
5. *Do not understand these items	2	0.5	1	0.2	2	0.5	2	0.4
6. *DK	3	0.8	10	2.1	7	1.9	9	1.9
7. *NA	1	0.3	3	0.6	1	0.3	9	1.9

[Group 3] Among these items, which item is, then, the most important? Which item is the second most important?

CASI(376)/PAPI(472)	Most important ↓				Second most important ↓			
	CASI		PAPI		CASI		PAPI	
	N	%	N	%	N	%	N	%
1. Maintain a stable economy	127	33.8	202	42.8	105	27.9	121	25.6
2. Progress toward a less impersonal, more humane society	104	27.7	128	27.1	88	23.4	113	23.9
3. Fight against crime	115	30.6	109	23.1	131	34.8	163	34.5
4. Progress toward a society where ideas are more important than money	26	6.9	21	4.4	47	12.5	58	12.3
5. *Do not understand these items	1	0.3	1	0.2	1	0.3	0	0.0
6. *DK	2	0.5	8	1.7	2	0.5	12	2.5
7. *NA	1	0.3	3	0.6	2	0.5	5	1.1

[POST-SPLIT SAMPLE A] Q14-SQ1

Among the 12 goals asked in Group 1 through Group 3, which item is the most important? Which item is the second most important? Lastly, which item is the least important?

(※CASI 13~15=-8)

CASI(376)/PAPI(472)	Most important ↓				Second most important ↓				Least important ↓			
	CASI		PAPI		CASI		PAPI		CASI		PAPI	
	N	%	N	%	N	%	N	%	N	%	N	%
1. Maintain a high rate of economic growth	44	11.7	112	23.7	30	8.0	39	8.3	29	7.7	19	4.0
2. Make sure that this country has strong defense forces	10	2.7	12	2.5	13	3.5	25	5.3	132	35.1	109	23.1
3. See that the people have more say in how things get decided at work and in their communities	28	7.4	40	8.5	30	8.0	39	8.3	17	4.5	14	3.0
4. Try to make our cities and countryside more beautiful	38	10.1	26	5.5	20	5.3	22	4.7	20	5.3	32	6.8
5. Maintain order in the nation	25	6.6	33	7.0	29	7.7	51	10.8	6	1.6	6	1.3
6. Give the people more say in important government decisions	39	10.4	35	7.4	32	8.5	25	5.3	13	3.5	13	2.8
7. Keep prices stable	31	8.2	44	9.3	44	11.7	72	15.3	5	1.3	10	2.1
8. Protect freedom of speech	9	2.4	4	0.8	6	1.6	20	4.2	42	11.2	41	8.7
9. Maintain a stable economy	45	12.0	51	10.8	48	12.8	51	10.8	3	0.8	3	0.6
10. Progress toward a less impersonal, more humane society	48	12.8	50	10.6	42	11.2	44	9.3	8	2.1	5	1.1
11. Fight against crime	45	12.0	46	9.7	60	16.0	58	12.3	4	1.1	1	0.2
12. Progress toward a society where ideas are more important than money	11	2.9	9	1.9	18	4.8	13	2.8	69	18.4	107	22.7
13. *Do not understand these items	-	-	1	0.2	-	-	0	0.0	-	-	1	0.2
14. *DK	-	-	8	1.7	-	-	10	2.1	-	-	86	18.2
15. *NA (-8)	3	0.8	1	0.2	4	1.1	3	0.6	28	7.4	25	5.3

[POST] Q15 Have you ever done any of these activities in the list? And, do you think you would like to do these activities in the future? First of all, what about "to vote at an election"? Please answer by choosing either "several times", "once or twice" or "never." And, do you think you would like to vote at an election in the future? Please answer by choosing "would like to," "indifferent," or "would not like to." Next, what about "to run for an election" "to be actively involved in jichikai activities"

(1) Have you ever done any of these activities in the list?

(※CASI 4,5=-8)

CASI(780)/PAPI(933)		1		2		3		4		5 (-8)	
		a number of times		once or twice		never		*DK		*NA	
		N	%	N	%	N	%	N	%	N	%
(a) to vote at an election	CASI	534	68.5	180	23.1	63	8.1	-	-	3	0.4
	PAPI	891	95.5	29	3.1	12	1.3	0	0.0	1	0.1
(b) to run for an election	CASI	8	1.0	7	0.9	759	97.3	-	-	6	0.8
	PAPI	4	0.4	5	0.5	918	98.4	4	0.4	2	0.2
(c) to help election campaigning	CASI	154	19.7	116	14.9	506	64.9	-	-	4	0.5
	PAPI	138	14.8	128	13.7	665	71.3	2	0.2	0	0.0
(e) to ask friends to vote for a candidate/party	CASI	123	15.8	92	11.8	559	71.7	-	-	6	0.8
	PAPI	137	14.7	87	9.3	706	75.7	3	0.3	0	0.0
(g) to become a member of koenkai	CASI	129	16.5	93	11.9	553	70.9	-	-	5	0.6
	PAPI	146	15.6	90	9.6	694	74.4	3	0.3	0	0.0
(i) to become a member of a political party	CASI	67	8.6	34	4.4	673	86.3	-	-	6	0.8
	PAPI	36	3.9	39	4.2	852	91.3	6	0.6	0	0.0
(g) to support a party (by way of donations/subscription to party's periodical publications)	CASI	86	11.0	59	7.6	628	80.5	-	-	7	0.9
	PAPI	69	7.4	54	5.8	808	86.6	2	0.2	0	0.0
(h) to attend political assemblies organized by party/politician	CASI	168	21.5	159	20.4	449	57.6	-	-	4	0.5
	PAPI	179	19.2	163	17.5	588	63.0	2	0.2	1	0.1
(i) to write to or call a national/local representative	CASI	43	5.5	33	4.2	698	89.5	-	-	6	0.8
	PAPI	42	4.5	18	1.9	870	93.2	3	0.3	0	0.0
(k) to consult a city hall	CASI	127	16.3	136	17.4	512	65.6	-	-	5	0.6
	PAPI	84	9.0	96	10.3	749	80.3	4	0.4	0	0.0
(m) to sign a petition	CASI	268	34.4	171	21.9	333	42.7	-	-	8	1.0
	PAPI	242	25.9	196	21.0	491	52.6	3	0.3	1	0.1
(o) to take part in demonstrations/rallies	CASI	94	12.1	61	7.8	619	79.4	-	-	6	0.8
	PAPI	70	7.5	73	7.8	786	84.2	3	0.3	1	0.1
(q) to vote in a referendum	CASI	121	15.5	68	8.7	572	73.3	-	-	19	2.4
	PAPI	83	8.9	65	7.0	745	79.8	37	4.0	3	0.3
(s) to take part in volunteer activity/neighborhood activism in the area	CASI	268	34.4	181	23.2	325	41.7	-	-	6	0.8
	PAPI	285	30.5	162	17.4	483	51.8	3	0.3	0	0.0
(u) to be actively involved in jichikai activities	CASI	262	33.6	193	24.7	319	40.9	-	-	6	0.8
	PAPI	306	32.8	191	20.5	434	46.5	2	0.2	0	0.0
(w) to submit an opinion to a public comment system	CASI	33	4.2	38	4.9	674	86.4	-	-	35	4.5
	PAPI	30	3.2	55	5.9	730	78.2	115	12.3	3	0.3

(2) How about in the future?

(※CASI 4,5=-8)

		1		2		3		4		5 (-8)	
		Would like to (will)		indifferent		Would not like to (won't)		*DK		*NA	
CASI(780)/PAPI(933)		N	%	N	%	N	%	N	%	N	%
(a) to vote at an election	→ CASI	629	80.6	82	10.5	65	8.3	-	-	4	0.5
	PAPI	858	92.0	58	6.2	13	1.4	2	0.2	2	0.2
(b) to run for an election	→ CASI	16	2.1	124	15.9	631	80.9	-	-	9	1.2
	PAPI	5	0.5	33	3.5	885	94.9	5	0.5	5	0.5
(c) to help election campaigning	→ CASI	89	11.4	244	31.3	441	56.5	-	-	6	0.8
	PAPI	79	8.5	175	18.8	667	71.5	9	1.0	3	0.3
(d) to ask friends to vote for a candidate/party	→ CASI	89	11.4	193	24.7	494	63.3	-	-	4	0.5
	PAPI	82	8.8	130	13.9	712	76.3	7	0.8	2	0.2
(e) to become a member of koenkai	→ CASI	59	7.6	222	28.5	493	63.2	-	-	6	0.8
	PAPI	74	7.9	143	15.3	706	75.7	7	0.8	3	0.3
(f) to become a member of a political party	→ CASI	38	4.9	183	23.5	552	70.8	-	-	7	0.9
	PAPI	19	2.0	71	7.6	834	89.4	7	0.8	2	0.2
(g) to support a party (by way of donations/subscription to party's periodical publications)	→ CASI	66	8.5	203	26.0	504	64.6	-	-	7	0.9
	PAPI	38	4.1	106	11.4	778	83.4	8	0.9	3	0.3
(h) to attend political assemblies organized by party/politician	→ CASI	145	18.6	258	33.1	372	47.7	-	-	5	0.6
	PAPI	115	12.3	209	22.4	601	64.4	5	0.5	3	0.3
(i) to write to or call a national/local representative	→ CASI	83	10.6	243	31.2	449	57.6	-	-	5	0.6
	PAPI	33	3.5	116	12.4	776	83.2	6	0.6	2	0.2
(j) to consult a city hall	→ CASI	355	45.5	216	27.7	204	26.2	-	-	5	0.6
	PAPI	111	11.9	236	25.3	575	61.6	9	1.0	2	0.2
(k) to sign a petition	→ CASI	247	31.7	296	37.9	229	29.4	-	-	8	1.0
	PAPI	198	21.2	284	30.4	439	47.1	10	1.1	2	0.2
(l) to take part in demonstrations/rallies	→ CASI	61	7.8	190	24.4	523	67.1	-	-	6	0.8
	PAPI	39	4.2	132	14.1	754	80.8	5	0.5	3	0.3
(m) to vote in a referendum	→ CASI	310	39.7	236	30.3	217	27.8	-	-	17	2.2
	PAPI	175	18.8	229	24.5	481	51.6	43	4.6	5	0.5
(n) to take part in volunteer activity/neighborhood activism in the area	→ CASI	360	46.2	266	34.1	147	18.8	-	-	7	0.9
	PAPI	309	33.1	257	27.5	353	37.8	13	1.4	1	0.1
(o) to be actively involved in jichikai activities	→ CASI	251	32.2	300	38.5	222	28.5	-	-	7	0.9
	PAPI	254	27.2	306	32.8	365	39.1	7	0.8	1	0.1
(q) to submit an opinion to a public comment system	→ CASI	100	12.8	268	34.4	381	48.8	-	-	31	4.0
	PAPI	44	4.7	191	20.5	597	64.0	96	10.3	5	0.5

[POST] Q16 By the way, is there any political party which you usually think of yourself as close to?

CASI(780)/PAPI(933)	CASI		PAPI		
	N	%	N	%	
1. yes	257	32.9	367	39.3	→ S Q 1
2. no	517	66.3	557	59.7	→ S Q 4
3. *DK	4	0.5	5	0.5	
4. *NA	2	0.3	4	0.4	

[POST] Q16SQ1 [For those who answered “Yes” to Q 16] Which parties are they? Please specify all that correspond (M.A.).

CASI(257)/PAPI(367)	CASI		PAPI			CASI		PAPI	
	N	%	N	%		N	%	N	%
1. LDP	132	51.4	189	51.5	5. SDP	22	8.6	19	5.2
2. DPJ	121	47.1	135	36.8	6. other party	12	4.7	8	2.2
3. CGP	48	18.7	54	14.7	7. *DK	2	0.8	0	0.0
4. JCP	31	12.1	35	9.5	8. *NA	1	0.4	11	3.0

[POST] Q16SQ2 [For those who specified more than one parties in Q16-SQ1] Which party do you feel closest to? Please choose one from following choices of answers.

CASI(82)/PAPI(71)	CASI		PAPI			CASI		PAPI	
	N	%	N	%		N	%	N	%
1. LDP	31	37.8	32	45.1	5. SDP	5	6.1	3	4.2
2. DPJ	31	37.8	14	19.7	6. other party	1	1.2	2	2.8
3. CGP	8	9.8	12	16.9	7. *DK	0	0.0	1	1.4
4. JCP	5	6.1	6	8.5	8. *NA	1	1.2	1	1.4

[POST] Q16SQ4 Is there, then, any party which you feel yourself a little closer to than others

CASI(517)/PAPI(557)	CASI		PAPI		
	N	%	N	%	
1. yes	137	26.5	187	33.6	→ S Q 5
2. no	378	73.1	360	64.6	
3. *DK	2	0.4	5	0.9	
4. *NA	0	0.0	5	0.9	

[POST] Q16SQ5 [For those who answered “Yes” to Q 16] Which parties are they? Please specify all that correspond (M.A.)

CASI(137)/ PAPI(187)	CASI		PAPI			CASI		PAPI	
	N	%	N	%		N	%	N	%
1. LDP	65	47.4	82	43.9	5. SDP	15	10.9	15	8.0
2. DPJ	78	56.9	84	44.9	6. other party	9	6.6	6	3.2
3. CGP	15	10.9	18	9.6	7. *DK	0	0.0	1	0.5
4. JCP	21	15.3	15	8.0	8. *NA	0	0.0	1	0.5

[POST] Q16SQ6 [For those who specified more than one parties in Q16-SQ5] Which party do you feel closest to? Please choose one from following choices of answers.

CASI(56)/ PAPI(31)	CASI		PAPI			CASI		PAPI	
	N	%	N	%		N	%	N	%
1. LDP	17	30.4	21	67.7	5. SDP	4	7.1	2	6.5
2. DPJ	26	46.4	7	22.6	6. other party	1	1.8	0	0.0
3. CGP	1	1.8	0	0.0	7. *DK	3	5.4	1	3.2
4. JCP	4	7.1	0	0.0	8. *NA	0	0.0	0	0.0

[POST] Q28 Adding all your incomes, how much was your last year's (2006 Jan.-Dec.) household income? Please answer including bonuses and taxes.

CASI(780)/PAPI(933)	CASI		PAPI			CASI		PAPI	
	N	%	N	%		N	%	N	%
1. less than 2 million	95	12.2	81	8.7	6. 10~12 million	45	5.8	41	4.4
2. 2~4 million	197	25.3	185	19.8	7. 12~14 million	13	1.7	10	1.1
3. 4~6 million	141	18.1	152	16.3	8. more than 14	28	3.6	36	3.9
4. 6~8 million	116	14.9	116	12.4	9. *DK	48	6.2	159	17.0
5. 8~10 million	67	8.6	68	7.3	10. *NA	30	3.8	85	9.1