Comparative Study of Electoral Systems (CSES)
Module 5: Design Report (Sample Design and Data Collection Report)
September 14, 2016

Country: Taiwan, R. O.C.
Date of Election: January 16, 2016

Prepared by:
Date of Preparation:

NOTES TO COLLABORATORS:
- Where brackets [ ] appear, answer by placing an “X” within the appropriate bracket or brackets.
- If more space is needed to answer any question, please lengthen the document as necessary.

Collaborator(s):
Collaborators are the contact persons for election studies that appear in the CSES dataset - they are not necessarily the parties who collected the data. These collaborators and their contact information will be listed on the CSES website.

<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Organization</th>
</tr>
</thead>
<tbody>
<tr>
<td>Huang, Chi</td>
<td>University Chair Professor, Professor of Department of Political Science and Reacher Fellow of Election Study Center, National Chengchi University (NCCU), Taiwan, R.O.C.</td>
<td>Taiwan’s Election and Democratization Study Organization:</td>
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<td>Address: No. 64, Sec. 2, ZhiNan Rd., Taipei City 116, Taiwan (R.O.C.)</td>
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<td>Telephone: +886 2 29393091 #50500</td>
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<td></td>
<td>Fax: +886 2 29384094</td>
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<tr>
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<td></td>
<td>E-Mail: <a href="mailto:chihuang@nccu.edu.tw">chihuang@nccu.edu.tw</a></td>
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<td>Website: <a href="https://esc.nccu.edu.tw/members/bio.php?PID=6">https://esc.nccu.edu.tw/members/bio.php?PID=6</a></td>
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<td>Website:</td>
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</table>
**Data Collection Organization:**

Organization that conducted the survey field work/data collection:

<table>
<thead>
<tr>
<th>Organization:</th>
<th>Election Study Center, National Chengchi University</th>
</tr>
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<td>Address:</td>
<td>No. 64, Sec. 2, ZhiNan Rd., Taipei City 116, Taiwan (R.O.C.)</td>
</tr>
</tbody>
</table>

Telephone: +886 2 29393091 #50500  
Fax: +886 2 29384094  
E-Mail: teds.org@gmail.com  
Website: http://teds.nccu.edu.tw

**Funding Organization(s):**

Organization(s) that funded the data collection:

<table>
<thead>
<tr>
<th>Organization:</th>
<th>Ministry of Science and Technology (MOST)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Address:</td>
<td>106, Sec. 2, Heping E. Rd., Taipei 10622, Taiwan (R.O.C.)</td>
</tr>
</tbody>
</table>

Telephone: +86-2-2737-7992  
Fax:  
E-Mail: misservice@most.gov.tw  
Website: https://www.most.gov.tw/?l=en
Archiving Organization

If appropriate, please indicate the primary location where the full, original election study dataset (not just the CSES portion) will be archived:

Organization: Election Study Center, National Chengchi University  
Address: No. 64, Sec. 2, ZhiNan Rd., Taipei City 116, Taiwan (R.O.C.)

Telephone: +886 2 29393091 #50500  
Fax: +886 2 29384094  
E-Mail: teds.org@gmail.com  
Website: http://teds.nccu.edu.tw

Please indicate the date when the study is expected to be available at this archive:

Study Design

1. Timing of the study that the CSES Module was included in:
   [V] Post-Election Study (with interviewing starting within 6 months after the election)  
   [ ] Post-Election Study (with interviewing starting more than 6 months after the election)  
   [ ] Pre-Election/Post-Election Panel Study  
   [ ] Between Rounds

2a. Date Post-Election Interviewing Began:
   January 17, 2016

2b. Date Post-Election Interviewing Ended:
   April 28, 2016
3a. Mode of interviewing for the post-election survey in which the CSES Module appeared: (If multiple modes were used, please mark all that apply.)
   [ ] In person, face-to-face - using a questionnaire on paper
   [V] In person, face-to-face - using an electronic/computerized questionnaire
   [ ] Telephone
   [ ] Mail or self-completion supplement
   [ ] Internet

3b. Was there a mode change within interviews (e.g., selected self-completion elements within the questionnaire)?
   [V] No
   [ ] Yes; please provide details:

4a. Was the survey part of a panel study?
   [V] Yes
   [ ] No

4b. If the survey was part of a panel study, please describe the design of the panel study, including the date at which interviewing for each prior wave began and ended:

   The panel survey conducted a group interview of 2,292 successful samples from TEDS2013 and successfully completed 1,241 samples. 2016 panel survey began in January 17, 2016, and ended in April 28, 2016.

4c. If the survey was entirely or partly conducted via the Internet, please indicate whether it was based on an access panel (i.e. respondents were selected from a group of pre-screened panelists):
   [ ] Yes
   [V] No

4d. If the survey was based on an Internet access panel, please describe the access panel (company, population [does it include persons without initial access to the Internet and how are they interviewed], method of recruiting members, total size of access panel, method of selecting survey respondents from the panel):
   [ ] Yes
   [V] No
Translation
Please provide copies of questionnaires in all languages used as part of the election study deposit. For questionnaires in a language other than English, please also provide a version of each translated back into English. Note: Questions are based on those developed for the ISSP.

5. Was the questionnaire translated?
   [ ] Yes, translated by member(s) of research team
   [ ] Yes, by translation bureau
   [ ] Yes, by specially trained translator(s)
   [V] No, not translated

6. Please list all languages used for the fielded module:
   Chinese

7a. If the questionnaire was translated, was the translated questionnaire assessed/checked or evaluated?
   [ ] Yes, by group discussion
   [ ] Yes, an expert checked it
   [ ] Yes, by back translation
   [ ] Other; please specify: __________
   [ ] No
   [V] Not applicable

7b. If the questionnaire was translated, was the questionnaire pre-tested?
   [V] Yes
   [ ] No
   [ ] Not applicable

7c. If the questionnaire was translated, were there any questions which caused problems when translating?
   [ ] Yes
   [V] No
   [ ] Not applicable

7d. If the questionnaire was translated, please provide a list of all questions which caused problems when translating. For each question listed, describe what problems were encountered and how they were solved:
Sample Design and Sampling Procedures

8. Please describe the population that your sample is meant to be representative of:

The sample is meant to be representative of all qualified voters in Taiwan.

Eligibility Requirements

9a. Must a person be a certain age to be interviewed?
   [V] Yes
   [] No

   If yes, what ages could be interviewed?
   Above 20

9b. Must a person be a citizen to be interviewed?
   [V] Yes
   [] No

9c. Must a person be registered to vote to be interviewed?
   [] Yes
   [V] No

9d. Please list any other interviewing requirements or filters used:
Sample Frame

10a. Were any regions of the country excluded from the sample frame?

[V] Yes

If yes, what percent of the total eligible population did this exclude from the sample frame? _______ %

If yes, please explain:

10b. Were institutionalized persons excluded from the sample?

[V] Yes

If yes, what percent of the total eligible population did this exclude from the sample frame? 0.018 %

If yes, please explain:

Criminals who have been deprived of civil rights are not eligible to vote. In addition, citizens who have moved their household registration in the four months prior to the election are unable to vote in the constituency legislative election, although they can still vote in the presidential and at-large legislative election.

10c. Were military personnel excluded from the sample?

[V] Yes

If yes, what percent of the total eligible population did this exclude from the sample frame? _______ %

If yes, please explain:

10d. If interviews were conducted by telephone, what is the estimated percentage of households without a phone? _______ %

[V] Not applicable (We didn’t conduct interviews by telephone)

Please explain:
10e. If interviews were conducted by telephone, were unlisted telephone numbers included in the population sampled?

[ ] Yes
[ ] No
[V] Not applicable (We didn’t conduct interviews by telephone)

If no, what percent of the total eligible population did this exclude from the sample frame? ______ %

10f. If interviews were conducted via the Internet, what is the estimated percentage of households without access to the Internet? ______ %

[ ] Yes
[ ] No
[V] Not applicable (We didn’t conduct interviews via the Internet)

10g. If interviews were conducted via the Internet, were provisions taken to include members of the population without access to the Internet? And if so, which?

[ ] Yes
[ ] No
[V] Not applicable (We didn’t conduct interviews via the Internet)

If “Yes”, please explain:

If “No”, what percent of the total eligible population did this exclude from the sample frame? ______ %

10h. Were other persons excluded from the sample frame?

[ ] Yes
[V] No

If yes, what percent of the total eligible population did this exclude from the sample frame? ______ %

If yes, please explain:

10i. Please estimate the total percentage of the eligible population excluded from the sample frame: ___0__ %
Sample Selection Procedures

11. Please describe, in your own words, how the sample for the study was selected. If the survey is part of a panel study and/or based on an Internet access panel, please also describe the original sample, from the beginning of the study.

The survey uses probability proportional to size (PPS) three-stage systematic sampling. In the first stage, legislative constituencies are sampled according to major geographic regions. In the second stage, urban villages (li) or rural villages (cun) are selected as sampling units. In the third stage, samples are selected from household registration data provided by the Ministry of the Interior.

12a. What were the primary sampling units?

urban villages (li) or rural villages (cun)

12b. How were the primary sampling units selected?

We use probability proportional to size (PPS) sampling

12c. Were the primary sampling units randomly selected?

[ ] Yes

[V] No

Please explain how the units were randomly selected. If the units were not randomly selected, please provide a justification for why the units were not randomly selected.

We use probability proportional to size (PPS) sampling

13. Were there further stages of selection?

[ ] Yes

[V] No

13a. If there were further stages of selection, what were the sampling units at each of the additional stages?

No

13b. If there were further stages of selection, how were the sampling units selected at each of the additional stages?

No
13c. If there were further stages of selection, were units at each of these stages randomly selected?
   [ ] Yes
   [V] No
   
   Please explain how the units were randomly selected. If the units were not randomly selected, please provide a justification for why the units were not randomly selected.

14a. How were individual respondents identified and selected in the final stage?

We selected each individual respondent from household registration data provided by the Ministry of the Interior.

14b. Could more than one respondent be interviewed from a single household?
   [V] Yes
   [ ] No
   
   If yes, please explain:

   If we sampled two or more persons in a household from the household registration data

15. Did the sample design include clustering at any stage?
   [ ] Yes
   [V] No
   
   If yes, please describe:

16. Did the sample design include stratification?
   Definition: Stratification involves the division of the population of interest according to certain characteristics (for instance: geographic, political, or demographic). Random selection then occurs within each of the groups that result.
   [V] Yes
   [ ] No
   
   If yes, please describe (please include the list of characteristics used for stratification, and in the case of multi-stage selection processes the stage[s] at which stratification occurred):

   We sampled first according to 6 major geographic regions

17. Was quota sampling used at any stage of selection?
   [ ] Yes
   [V] No
   
   If yes, please describe:
18. Was substitution of individuals permitted at any stage of the selection process or during fieldwork?

[V] Yes
[ ] No

If yes, please describe:

We selected ten to eighteen respondents as a primary set of samples list, and selected nineteen sets of reserve samples for each village. When the main set failed to produce ten successful samples, the reserve sets were used in turn until at least ten successful samples were achieved. Once used, a reserve set is always completed, even if ten successful samples have already been achieved. In addition, due to the differences between areas, the size of reserve sample sets varied. In urban areas, from the fourth reserve sample set, the size of each set was reduced by half (meaning only five samples). However, in rural areas, the size of the reserve sample set was reduced by half from the second sample set onwards.

19. Under what circumstances was a household designated non-sample? Please check all that apply:

[ ] Non-residential sample point
[ ] All members of household are ineligible
[ ] Housing unit is vacant
[ ] No answer at housing unit after ______ callbacks
[V] Other (Please explain): Not applicable, since we sample individuals rather than households.

20. Were non-sample replacement methods used?

[V] Yes
[ ] No

Please describe:

Please see above.

21a. For surveys conducted by telephone, was the sample a random digit dial (RDD) sample?

[ ] Yes
[V] No

21b. For surveys conducted by telephone, was the sample a listed sample?

[ ] Yes
[V] No

21c. For surveys conducted by telephone, was the sample a dual frame sample?

[ ] Yes
[V] No

If yes, what % list frame ________ and what % RDD ________
22. For surveys conducted by mail, was the sample a listed sample?
   [ ] Yes
   [V] No

   Please describe:

23. For surveys conducted on the Internet, did respondents self-select into the survey, at any stage?
   [ ] Yes
   [V] No

   Please explain:

Incentives

24a. Prior to the study, was a letter sent to the respondent?
   [V] Yes
   [ ] No

   (If yes, please provide a copy of the letter.)
   Please see the attached file named “a notification letter for interview (in Chinese)”

24b. Prior to the study, was a payment sent to the respondent?
   [ ] Yes
   [V] No

   If yes, please describe (including amount of payment):

24c. Prior to the study, was a token gift sent to the respondent?
   [ ] Yes
   [V] No

   If yes, please describe:

24d. Did respondent receive an additional payment after their participation? (Do not include any payment made prior to the study.)
   [ ] Yes
   [V] No

   If yes, please describe (including amount of payment):

24e. Were any other incentives used?
   [V] Yes
   [ ] No

   If yes, please describe:

   Respondents would receive a gift when the interview finished
Interviewers

25. Please describe the interviewers (e.g., age, level of education, years of experience):

They were mainly college or graduate students from the universities in Taiwan. Most of them were around 20 to 25.

26. Please provide a description of interviewer training. If possible please differentiate between general interviewer training and study-specific components:

Please see the attached file named “interviewer manual (in Chinese)”.

26a. Please provide a description of the content, structure and time used for general training of interviewers:

Every interviewer received 12 hours training for containing explanation of the questionnaires, standard procedure of interview, interview simulation, the use of CAPI and data uploading.

26b. Please provided a description of the content, structure and time used for training interviewers in the specifics of the study within which CSES was run:

We used about 40 minutes to introduce the standardized face-to-face survey procedure and about 2.5 hours explaining the TEDS2016 questionnaire, and then about 3 hours training on how to use the CAPI system on tablet PC.

Contacts

27a. What was the average number of contact attempts made per household, for the entire sample?

1.76

27b. For households where contact was made, what was the average number of contact attempts prior to first contact?

None

27c. During the field period, how many contacts were made with the household before declaring it a non-sample?

3

28d. During the field period, how many contacts were made with the household before declaring it a non-interview?

1
28e. During the field period, what were the maximum number of days over which a household was contacted?

28 days

28f. During the field period, did interviewers vary the time of day at which they re-contacted the household?

[V] Yes  
[ ] No

If yes, please describe:

If the interviewer quit, we replaced he or she with a new interviewer

Refusal Conversion

29a. Were efforts made to persuade respondents who were reluctant to be interviewed?

[V] Yes  
[ ] No

Please describe:

We asked interviewer to explain this interview is purely for academic use, and every sample is unreplaceable. Finally, interviewer may emphasize it is a hard job to find a respondent.

29b. Were respondents who were reluctant to be interviewed sent a letter persuading them to take part?

[ ] Yes  
[V] No

(If yes, please provide a copy of the letter or letters.)

If yes, please describe:

29c. Was payment offered to respondents who were reluctant to take part?

[ ] Yes  
[V] No

If yes, how much?

29d. Were respondents who were reluctant to take part turned over to a more experienced interviewer?

[V] Yes  
[ ] No
29e. What was the maximum number of re-contacts used to persuade respondents to be interviewed?

2

29f. Were any other methods used to persuade respondents reluctant to be interviewed to take part?

[ ] Yes
[V] No

If yes, please describe:

**Interview/Survey Verification**

Definition: Interview/survey verification is the process of verifying that an interview was conducted and that the survey was administered to the correct respondent, for quality control purposes.

30. Was interview/survey verification used?

[V] Yes
[ ] No

If yes, please describe the method(s) used:

All successful interview samples were verified by phone or interview

If yes, please indicate the percent of completed surveys that were verified: _100_ %

**Response Rate**

Note: If multiple modes of interviewing were used for the post-election survey in which the CSES Module appeared, please repeat the following questions as appropriate for each of the modes used.

31. What was the response rate of the survey that the CSES Module appeared in? Please show your calculations. (If the CSES Module appeared in a panel study, please report the response rate of the first wave of the study, even if the CSES Module did not appear in that wave.)

1,690/7,601*100=22.23%

32. Please provide the following statistics for the survey that the CSES Module appeared in. (If the CSES Module appeared in a panel study, please report the statistics for the first wave of the study, even if the CSES Module did not appear in that wave.)

A. Total number of households in sample:  

B. Number of valid households:  

C. Number of invalid (non-sample) households:  

D. Number of households of unknown validity:  

N/A
Comparative Study of Electoral Systems  
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E. Number of completed interviews: 1,690
F. Number of partial interviews: 24
G. Number of refusals and break-offs: 1,982
H. Number non-contact (never contacted): 959
I. Other non-response: 0

The sum of B+C+D should equal the value of A. If not, please describe why:

If statistic D (number of households of unknown validity) has a value greater than zero (0), please estimate the proportion of households of unknown validity that are valid:

The sum of E+F+G+H+I should equal the value of B. If not, please describe why:

If statistic I has a value greater that zero (0), please describe what cases fall into this category:

33. If the CSES Module appeared in a panel study, how many waves were conducted prior to the wave that included the CSES Module?

[V] Not applicable

34. If the CSES Module appeared in a panel study, what was the total panel attrition between the first wave of the study and the wave that included the CSES Module? Please show your calculations.

[V] Not applicable

35. If the CSES Module appeared in a panel study, please provide the number of completed interviews for the wave that included the CSES Module:

[V] Not applicable

36. If the CSES Module appeared in a panel study, please provide the following statistics for panel attrition by age and education. In each cell, indicate the percent of all completed interviews in each category for the indicated wave.

[V] Not applicable

<table>
<thead>
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<th>Age</th>
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<th>Wave that included CSES</th>
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<tr>
<td>18-25</td>
<td>0%</td>
<td>0%</td>
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<tr>
<td>26-40</td>
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<td>0%</td>
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<tr>
<td>41-64</td>
<td>0%</td>
<td>0%</td>
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<tr>
<td>65 and over</td>
<td>0%</td>
<td>0%</td>
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</table>
**Post-Survey Adjustment Weights**

37. Are weights necessary to make the sample representative of the populated being studied?

[V] Yes  
[ ] No

If yes, please explain:

The survey data are weighted by raking with gender, age (5 groups), education (5 groups), and area (6 regions), so we can generalize our samples to eligible voters in 2016 presidential and legislative election. The demographic characteristics are based on “2015 Taiwan-Fuchien Demographic Fact Book Republic of China”, published by the Ministry of Interior Republic of China.

38. Are weights included in the data file?

[V] Yes  
[ ] No

39. If weights are included in the data file, please describe in detail how the weights were constructed:

See above q37

40a. If weights are included in the data file, are the weights designed to compensate for disproportionate probability of selection?

[ ] Yes  
[V] No

If yes, please describe:

40b. If weights are included in the data file, are the weights designed to match known demographic characteristics of the population?

[ ] Yes  
[V] No

If yes, please describe:
40c. If weights are included in the data file, are the weights designed to correct for non-response?

- [ ] Yes
- [V] No

If yes, please describe:

40d. If weights are included in the data file, are the weights designed to correct to the official election results?

- [ ] Yes
- [V] No

If yes, please describe:

### 41. Comparison of Completed Interviews to Population (please provide as percentages of the total):

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Population Estimates</th>
<th>Completed Interviews</th>
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<tbody>
<tr>
<td></td>
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<td>Unweighted Distribution</td>
<td>Weighted Distribution</td>
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<tr>
<td>Age</td>
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<tr>
<td>20-25</td>
<td>10.3%</td>
<td>9.5%</td>
<td>10.4%</td>
</tr>
<tr>
<td>26-40</td>
<td>29.5%</td>
<td>24.6%</td>
<td>29.3%</td>
</tr>
<tr>
<td>41-64</td>
<td>44.6%</td>
<td>46.3%</td>
<td>44.5%</td>
</tr>
<tr>
<td>65 and over</td>
<td>15.6%</td>
<td>19.6%</td>
<td>15.8%</td>
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<tr>
<td>Education</td>
<td></td>
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<tr>
<td>None</td>
<td>1.8%</td>
<td>3.5%</td>
<td>2.7%</td>
</tr>
<tr>
<td>Incomplete Primary</td>
<td>1.6%</td>
<td>3.5%</td>
<td>2.7%</td>
</tr>
<tr>
<td>Primary Completed</td>
<td>11.5%</td>
<td>12.2%</td>
<td>9.4%</td>
</tr>
<tr>
<td>Incomplete Secondary</td>
<td>1.2%</td>
<td>1.1%</td>
<td>1.4%</td>
</tr>
<tr>
<td>Secondary Completed</td>
<td>11.7%</td>
<td>8.5%</td>
<td>11.4%</td>
</tr>
<tr>
<td>Post-Secondary Trade/Vocational</td>
<td>40.4%</td>
<td>26.7%</td>
<td>28.1%</td>
</tr>
<tr>
<td>University Incomplete</td>
<td>5.2%</td>
<td>5.1%</td>
<td>5.2%</td>
</tr>
<tr>
<td>University Degree</td>
<td>26.7%</td>
<td>39.5%</td>
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<tr>
<td>Gender</td>
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<tr>
<td>Male</td>
<td>49.3%</td>
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</tr>
<tr>
<td>Female</td>
<td>50.7%</td>
<td>48.6%</td>
<td>50.7%</td>
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Notes:
1. Age: In Taiwan, only citizens 20 years old and older are eligible to vote. TEDS2016 initially divides age into five groups (20-29, 30-39, 40-49, 50-59, 60 and older) for weighting.

2. Education: TEDS2016 initially divides education into five groups (primary school or less, junior high school, high school, vocational college, university and above).

42. Please indicate the source of the population estimates in the prior question. English language sources are especially helpful. Include website links or contact information if applicable.

“2015 Taiwan-Fuchien Demographic Fact Book, Republic of China”
Website: https://www.ris.gov.tw/app/en/3910