

B. Collection of Information Employing Statistical Methods

1. Respondent Universe

Surveys will be administered to representatives from the ministries of education of 25 countries. Five selection criteria were used to identify the candidate countries recommended for inclusion in the data collection:

1. Policy Relevant to US policy makers
2. Developed economies or emerging economies with a high-level of national interest in the integration of the ICT in educational systems
3. Demonstrated willingness and capacity to provide ICTEd related information at multiple levels (e.g., ministry, schools, teachers, students) through international collections
4. Availability of existing comparable ICTEd indicator data
5. Participation in international assessments of student achievement

Based on the above, a total of 34 countries were identified as potential candidates for inclusion in the study. Country rankings on productivity and network readiness were compared resulting in the selection of 25 countries for the sample. These countries, with various ranking information, are shown in exhibit 4 below.

Exhibit 4. List of Selected Countries

| Country | 2008 GDP Per person employed (in 1990 US\$) | Productivity Rank | NRI Rank | 2008-2009 Network Readiness | Total Collections (with PISA core plus PISA* ICT Supplement) |
|--|---|-------------------|----------|-----------------------------|--|
| | | Rank | Rank | | |
| Australia | 50,183 | 11 | 14 | 5.292 | 6 |
| Austria | 47,958 | 16 | 16 | 5.225 | 4 |
| Belgium | 55,520 | 6 | 24 | 5.019 | 5 |
| Canada Canada – Alberta Canada – British Columbia Canada – Ontario Canada - Quebec | 48,973 | 13 | 10 | 5.410 | 4 |
| Chile | 30,523 | 38 | 39 | 4.322 | 5 |
| Denmark | 48,048 | 15 | 1 | 5.847 | 5 |
| Estonia | 42,796 | 23 | 18 | 5.187 | |
| Finland | 50,855 | 9 | 6 | 5.529 | 4 |
| France | 54,850 | 7 | 19 | 5.172 | 4 |
| Germany | 42,469 | 24 | 20 | 5.170 | 3 |
| Hong Kong | 59,749 | 2 | 12 | 5.303 | 5 |
| Iceland | 44,599 | 21 | 7 | 5.498 | |
| Ireland | 56,022 | 5 | 23 | 5.028 | |
| Israel | 43,366 | 22 | 25 | 4.977 | 4 |
| Japan | 46,068 | 19 | 17 | 5.187 | 5 |
| Netherlands | 47,106 | 18 | 9 | 5.477 | 5 |
| New Zealand | 35,878 | 30 | 22 | 5.042 | 5 |
| Norway | 52,408 | 8 | 8 | 5.494 | 5 |
| Portugal | 29,889 | 40 | 30 | 4.631 | |
| Singapore | 47,190 | 17 | 4 | 5.671 | 4 |
| South Korea | 41,028 | 26 | 11 | 5.373 | |
| Sweden | 49,435 | 12 | 2 | 5.840 | 5 |
| Switzerland | 42,234 | 25 | 5 | 5.585 | |
| Taiwan | 48,644 | 14 | 13 | 5.295 | |
| United Kingdom United Kingdom – England United Kingdom – Scotland | 50,607 | 10 | 15 | 5.274 | |

2. Data Collection Procedures

A survey of MOE in 25 countries represents the heart of the data collection. In order to reduce burden on respondents and benefit from past collections, the study team reviewed past reports and conducted a web and literature search to identify information sources and international data collections. Ministry of education reports were reviewed for existing indicators related to the study's conceptual framework. Then, potential indicators and survey items were extensively reviewed and discussed. This data will have been consolidated and included in the survey of representatives from ministries of education for their review.

Respondents will be asked to confirm the data collected from prior collections. They will also be asked to provide references/links to updated information and provide additional information regarding key areas of interest. Respondents will not be requested to undertake any data collection for the survey. The surveys will be translated as required and available both electronically (via email) as well as hard copy.

Subsequently, the contractor will conduct supplemental phone surveys with key informants within ministries of education to collect a richer set of information on policies, practices, challenges, and organizational structures than are likely to be reported through the questionnaire alone.

3. Methods to Maximize Response Rate

The survey will have a 2 week deadline, after which, follow up phone calls will be made to verify responses and complete missing information. Additionally, translation services will be available as necessary to help ease the survey completion process.

4. Pilot Testing

A pilot survey of up to 5 representatives from MOE or internet ICTed experts will be conducted to ensure that the questionnaire is within the one hour burden estimate. The survey will be revised based on the feedback that is received.

5. Contact Information

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