# How to use ADePT Social Protection

December 4th, 2013

Select ADePT Module

ADePT

Education
Food Security
Gender
Health
ILO Labour Market Indicators
Labor
Poverty (legacy)
Poverty and Inequality
Social protection

☐ Don't show this window at startup

VERSION 5.5

WORLD BANK | DECRG

Social
Protection & Labor
THE WORLD BANK
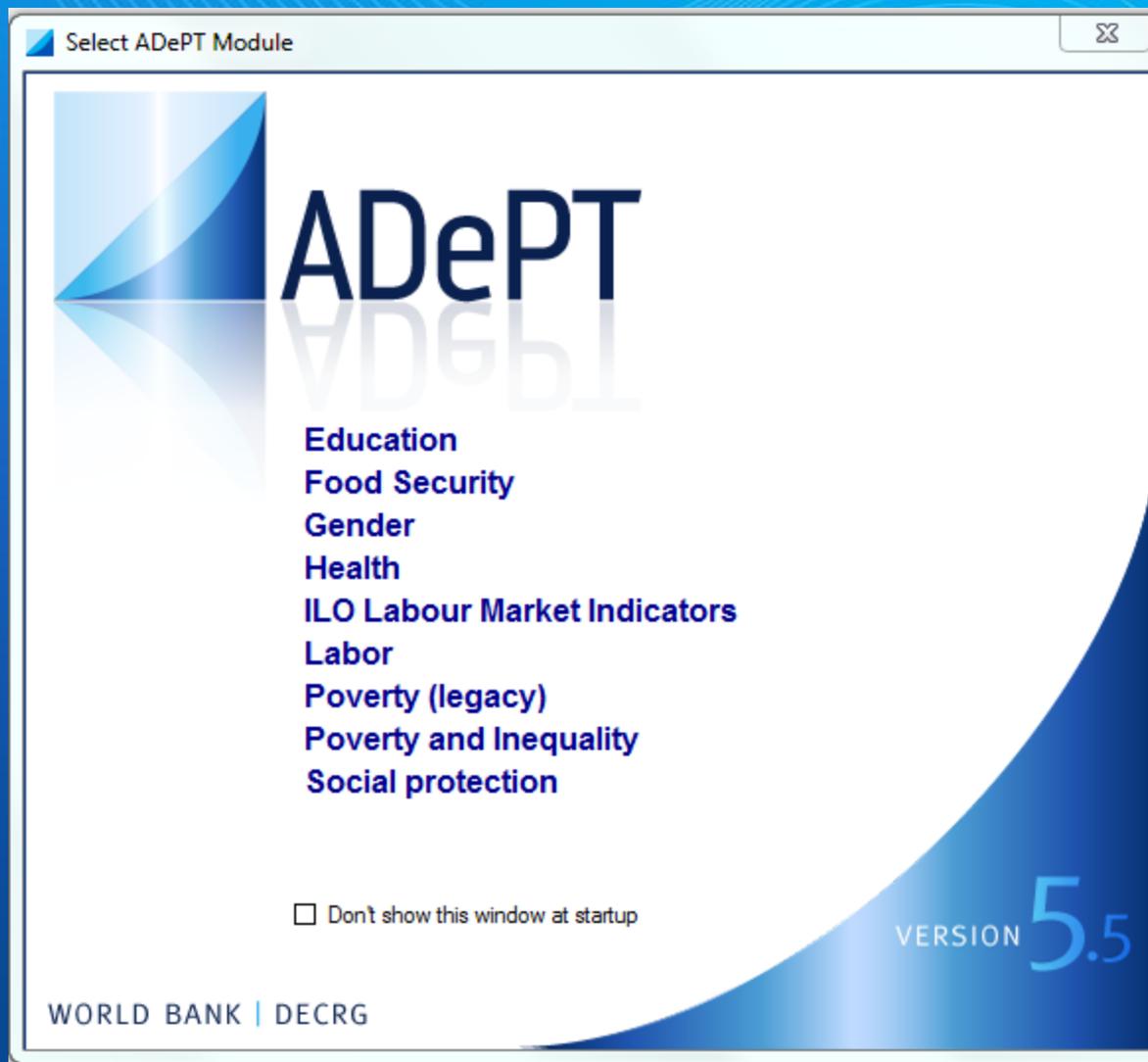
# What is ADePT?

- ADePT is a software Platform for Automated Economic Analysis.

- ADePT uses micro-level data from various types of household surveys, such as Household Budget Surveys, Demographic and Health Surveys and Labor Force surveys

- **User requires knowledge of statistical packages -e.g. Stata and SPSS – to prepare the dataset.  Construction of key variables is not trivial but a statistician can do it.**

# Why ADePT?

- **ADePT** ensures **comparability** of results across countries/years, in a standardized format.

- **ADePT saves time** because users do not need to write commands and code to produce the tables and charts. It is automated!

- **ADePT** it is **easy** to learn and use. It minimizes human errors in programming!

  Download from **www.worldbank.org/adept**

## INPUTS

## ADePT

## OUTPUTS

### Household Survey Data

Dataset prepared in STATA or SPSS

Variables needed (mandatory):

- Household ID
- Location (urban and rural)
- Household weights
- Welfare aggregate (total household consumption or income)
- Poverty line
- Social Protection programs
    - Social Insurance
    - Social Assistance
    - Labor Market Programs

### Excel Tables with indicators

- Average per capita transfer
- Coverage
- Distribution of beneficiaries
- Distribution of benefits
- Relative incidence
- Generosity
- Undercoverage and leakage
- Impact of programs on poverty and inequality
- Coady-Grosh-Hoddinott indicator
- Program duplication and overlap
- Cost-Benefit ratio

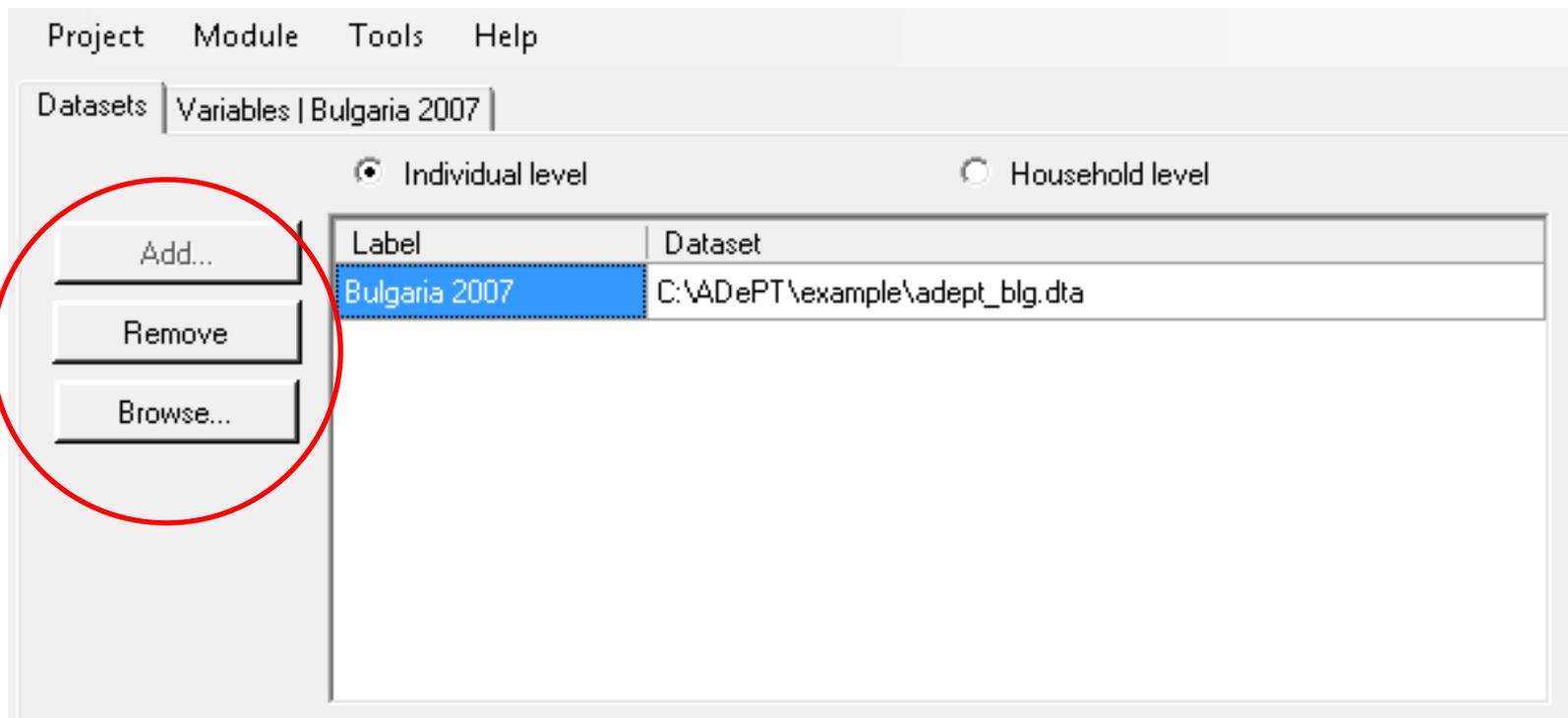Plus: statistics, profiles, demographics, charts

# ADePT-SP Interface

# ADePT-SP Steps

## 1. Upload your data

- Click on the Add button to open and upload the data you want to use

- Label the dataset. The label will be used in the tables and graphs to distinguish the statistics that comes from different datasets

- You can add or remove multiple datasets

# ADePT-SP Steps

## 1. Upload your data

- Specify if dataset is at the individual or household level
- Dataset can be opened by clicking on the browse button

# ADePT-SP Steps

## 1. Individual level data

| Household Identification | Individual Identification | STRATA | PSU | Urban location =1; Rural location=2 | Household expansion factor | Household Size | Adult equivalent scale | Head of the household | Age of the household member | Total household income | Poverty line | Amount received from old age pensions | Participation in scholarship programs | Amount received by the household from Oportunidades | Amount received by the household from Pro-Campo |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| id_hh | id_ind | strata | psu | urban | hhweight | hhsize | adul_eq | head | age | hh_income | pob_line | apes | becas_ | toport | tprocam |
| 20060150282 | 1 | 1 | 2 | 2 | 305 | 3 | 2 | 1 | 18 | 2459.34 | 938.61 | | 0 | 180.49 | |
| 20060150282 | 2 | 1 | 2 | 2 | 305 | 3 | 2 | 0 | 18 | 2459.34 | 938.61 | | 0 | 180.49 | |
| 20060150282 | 3 | 1 | 2 | 2 | 305 | 3 | 2 | 0 | 1 | 2459.34 | 938.61 | | 0 | 180.49 | |
| 20060150280 | 1 | 1 | 2 | 2 | 305 | 7 | 6 | 1 | 56 | 9094.69 | 938.61 | | 0 | | 334.24 |
| 20060150280 | 2 | 1 | 2 | 2 | 305 | 7 | 6 | 0 | 53 | 9094.69 | 938.61 | | 0 | | 334.24 |
| 20060150280 | 3 | 1 | 2 | 2 | 305 | 7 | 6 | 0 | 29 | 9094.69 | 938.61 | | 0 | | 334.24 |
| 20060150280 | 4 | 1 | 2 | 2 | 305 | 7 | 6 | 0 | 26 | 9094.69 | 938.61 | | 0 | | 334.24 |
| 20060150280 | 5 | 1 | 2 | 2 | 305 | 7 | 6 | 0 | 15 | 9094.69 | 938.61 | | 0 | | 334.24 |
| 20060150280 | 6 | 1 | 2 | 2 | 305 | 7 | 6 | 0 | 13 | 9094.69 | 938.61 | | 0 | | 334.24 |
| 20060150280 | 7 | 1 | 2 | 2 | 305 | 7 | 6 | 0 | 7 | 9094.69 | 938.61 | | 1 | | 334.24 |
| 20060150030 | 1 | 1 | 1 | 1 | 777 | 4 | 3 | 1 | 77 | 18183.37 | 938.61 | 1403.81 | 0 | | |
| 20060150030 | 2 | 1 | 1 | 1 | 777 | 4 | 3 | 0 | 51 | 18183.37 | 938.61 | | 0 | | |
| 20060150030 | 3 | 1 | 1 | 1 | 777 | 4 | 3 | 0 | 43 | 18183.37 | 938.61 | | 0 | | |
| 20060150030 | 4 | 1 | 1 | 1 | 777 | 4 | 3 | 0 | 9 | 18183.37 | 938.61 | | 0 | | |
| 20060150040 | 1 | 1 | 1 | 1 | 777 | 1 | 1 | 1 | 92 | 4458.78 | 938.61 | 1604.35 | 0 | | |
| 20060150050 | 1 | 1 | 1 | 1 | 777 | 2 | 2 | 1 | 83 | 6397.05 | 938.61 | 1640.45 | 0 | | |
| 20060150050 | 2 | 1 | 1 | 1 | 777 | 2 | 2 | 0 | 39 | 6397.05 | 938.61 | | 0 | | |
| 20060150060 | 1 | 1 | 1 | 1 | 859 | 5 | 2 | 1 | 41 | 12988.27 | 938.61 | | 0 | | |
| 20060150060 | 2 | 1 | 1 | 1 | 859 | 5 | 2 | 0 | 32 | 12988.27 | 938.61 | | 0 | | |
| 20060150060 | 3 | 1 | 1 | 1 | 859 | 5 | 2 | 0 | 11 | 12988.27 | 938.61 | | 0 | | |
| 20060140410 | 1 | 1 | 7 | 1 | 638 | 10 | 6 | 1 | 56 | 10730.62 | 938.61 | | 0 | | 514.18 |
| 20060140410 | 2 | 1 | 7 | 1 | 638 | 10 | 6 | 0 | 58 | 10730.62 | 938.61 | | 0 | | 514.18 |
| 20060140410 | 3 | 1 | 7 | 1 | 638 | 10 | 6 | 0 | 86 | 10730.62 | 938.61 | 1411.48 | 0 | | 514.18 |
| 20060140410 | 4 | 1 | 7 | 1 | 638 | 10 | 6 | 0 | 30 | 10730.62 | 938.61 | | 0 | | 514.18 |
| 20060140410 | 5 | 1 | 7 | 1 | 638 | 10 | 6 | 0 | 29 | 10730.62 | 938.61 | | 0 | | 514.18 |
| 20060140410 | 6 | 1 | 7 | 1 | 638 | 10 | 6 | 0 | 10 | 10730.62 | 938.61 | | 0 | | 514.18 |
| 20060140410 | 7 | 1 | 7 | 1 | 638 | 10 | 6 | 0 | 9 | 10730.62 | 938.61 | | 0 | | 514.18 |
| 20060140410 | 8 | 1 | 7 | 1 | 638 | 10 | 6 | 0 | 4 | 10730.62 | 938.61 | | 0 | | 514.18 |

# ADePT-SP Steps

## 1. Household level data

| Household Identification | Individual Identification | STRATA | PSU | Urban location =1; Rural location=2 | Household expansion factor | Household Size | Adult equivalent scale | Head of the household | Age of the household member | Total household income | Poverty line | Amount received from old age pensions | Participation in scholarship programs | Amount received by the household from Oportunidades | Amount received by the household from Pro-Campo |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| id_hh | id_ind | strata | psu | urban | hhweight | hhsize | adul_eq | head | age | hh_income | pob_ing | apos | becas_ | toport | tprocam |
| 20060150282 | 1 | 1 | 2 | 2 | 305 | 3 | 2 | 1 | 18 | 2459.34 | 938.61 | | 0 | 180.49 | |
| 20060150280 | 1 | 1 | 2 | 2 | 305 | 7 | 6 | 1 | 56 | 9094.69 | 938.61 | | 1 | | 334.24 |
| 20060150030 | 1 | 1 | 1 | 1 | 777 | 4 | 3 | 1 | 77 | 18183.37 | 938.61 | 1403.81 | 0 | | |
| 20060150040 | 1 | 1 | 1 | 1 | 777 | 1 | 1 | 1 | 92 | 4458.78 | 938.61 | 1604.35 | 0 | | |
| 20060150050 | 1 | 1 | 1 | 1 | 777 | 2 | 2 | 1 | 83 | 6397.05 | 938.61 | 1640.45 | 0 | | |
| 20060150060 | 1 | 1 | 1 | 1 | 859 | 5 | 2 | 1 | 41 | 12988.27 | 938.61 | | 0 | | |
| 20060140410 | 1 | 1 | 7 | 1 | 638 | 10 | 6 | 1 | 56 | 10730.62 | 938.61 | 1411.48 | 0 | 514.18 | |

# ADePT-SP Steps

## 2. Specify variables

- Once data has been uploaded, the variables names and labels are shown in the second tab of the first window to the left.

- The bottom window to the left has three tabs to specify main, program and consumption variables

# ADePT-SP Steps

## 2. Specify variables

### Tab 1. Main variables

- Some main variables such as Household ID, urban, household weights, and household size, are mandatory to generate ADePT tables

- If the dataset is at the individual level, variables of individual characteristics can be specified

- Variables can be selected by dragging them from the upper window or by using the dropdown menu in the variable field



Household level variables

Individual level variables

# ADePT-SP Steps

## 2. Specify variables

### Tab 2. Program variables

- These are the programs which impact you are trying to measure
- Each program variable needs to be classified under a Social Protection Program Type: Social Insurance, Labor Market, Social Assistant or Remittances
- In addition the level of the variable (individual or household) needs to be specified
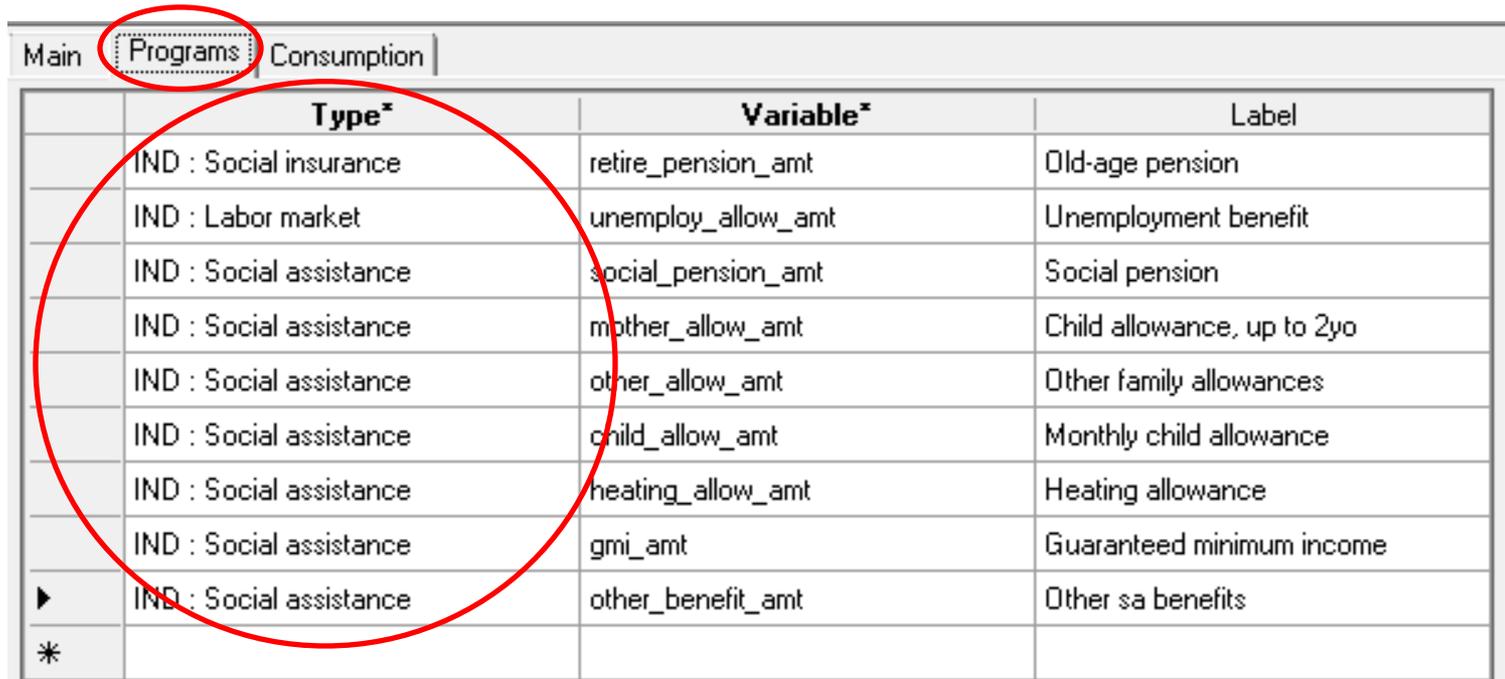


| | Type* | Variable* | Label |
|---|---|---|---|
| | IND : Social insurance | retire_pension_amt | Old-age pension |
| | IND : Labor market | unemploy_allow_amt | Unemployment benefit |
| | IND : Social assistance | social_pension_amt | Social pension |
| | IND : Social assistance | mother_allow_amt | Child allowance, up to 2yo |
| | IND : Social assistance | other_allow_amt | Other family allowances |
| | IND : Social assistance | child_allow_amt | Monthly child allowance |
| | IND : Social assistance | heating_allow_amt | Heating allowance |
| | IND : Social assistance | gmi_amt | Guaranteed minimum income |
| ▶ | IND : Social assistance | other_benefit_amt | Other sa benefits |
| * | | | |

Main   Programs   Consumption

# ADePT-SP Steps
## Types of Social Protection Programs

| Category I | Category II | Type of program |
|---|---|---|
| Pensions and other social insurance | Old age | Old age pension |
| | | Old age civil servant pension |
| | | Veteran's old age pension |
| | | Early retirement pension |
| | Survivors | Survivors pension |
| | | Survivors civil servant pension |
| | Occupational injury/sickness benefits | Occupational injury benefits/ pension |
| | | Paid sick leave |
| | Disability | Disability pension |
| Labor market programs | Unemployment | Unemployment compensation |
| | | Severance pay |
| | | Early retirement for labor market reasons |
| | Active labor market programs | Labor market training |
| | | Youth measures |
| | | Subsided employment |
| | | Employment measures for disabled |
| | | Employment service and administration |
| Social safety net programs | Cash or near-cash transfers | Low income/ Last-resort program |
| | | Non-contributory/ Social pension |
| | | Family allowances* |
| | | Disability benefits |
| | | Housing allowances |
| | | Food stamps/ Vouchers |
| | Conditional cash transfers | Conditional cash transfers |
| | In-kind food transfers | Food rations |
| | | Supplementary feeding |
| | | School feeding |
| | | Energency food distribution |
| | Fee waivers and scholarships | Fee waivers, education |
| | | Scholarships |
| | | Fee waivers, health |
| | General subsidies | Food price subsidies |
| | | Public distribution systems |
| | | Energy and utility subsidies |
| | Public works | Public works |

# ADePT-SP Steps

## 2. Specify variables

### Tab 3. Consumption variables

- In this tab you can rank into poor or nor poor, quintiles or decile groups by using either a monetary or non-monetary welfare aggregate.

- If monetary value is chosen, in the "total consumption" field a variable containing total consumption, total expenditures or total income can be selected

# ADePT-SP Steps

## 2. Specify variables

### Tab 3. Consumption variables

- The type of adjustment to the welfare aggregate or counterfactual welfare indicator should be selected in this tab. ADePT SP can rank the households using three simplified counterfactuals 4:

  - o No adjustments (post transfer or observed income or consumption) (V0)

  - o Net of all Social Protection Transfers (V1)

  - o Net of each Social Protection Transfers (V2)

  - o Net of all Social Assistance Transfers (V3)

# ADePT-SP Steps

## 3. Select tables and charts

- A total of 51 tables can be generated by ADePT, depending on the level of the dataset. You can select the tables and charts relevant to your analysis.
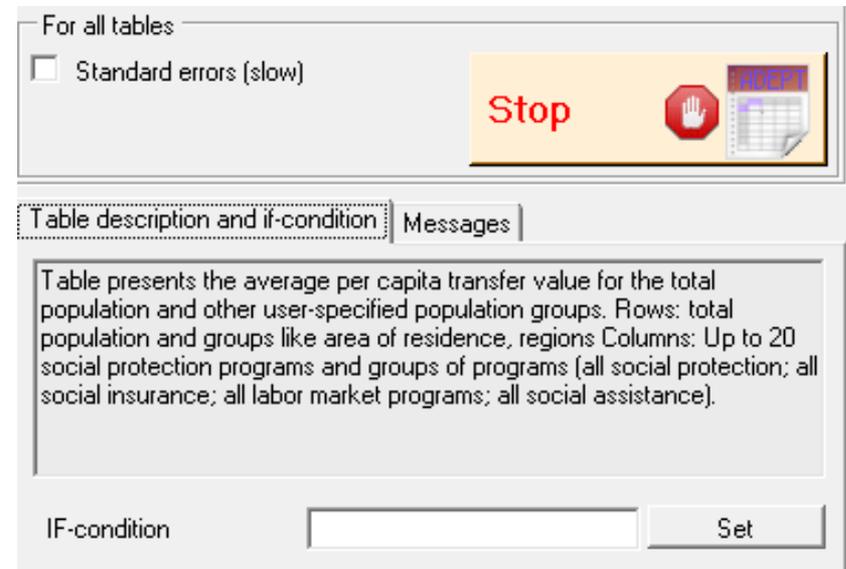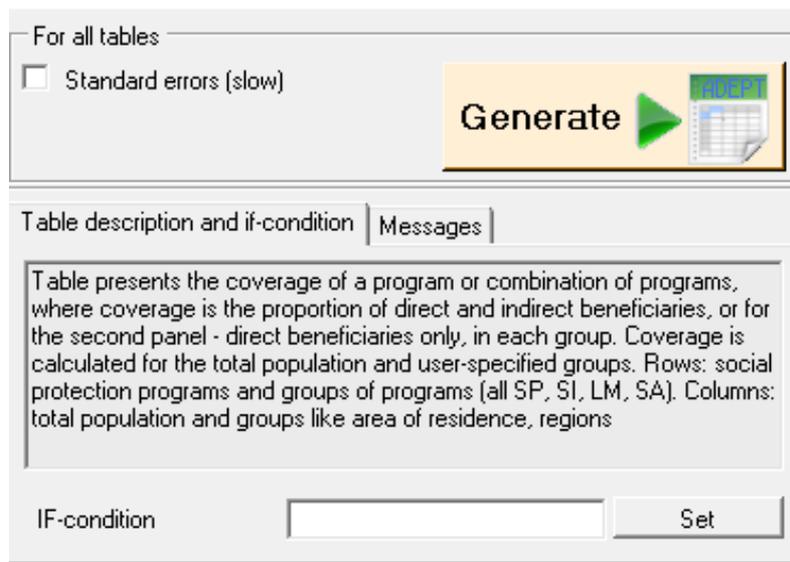
# ADePT-SP Steps

## 4. Generate Excel output tables

- The lower window to the right displays the "Generate" botton, which actives once the tables have been selected

- Conditions can be specified to generate the tables (eg. If gender ==1, etc)

- The table description window displays the definition of the tables being generated

- Errors or other messages are displayed in the second tab



For all tables
☐ Standard errors (slow)

**Generate** ▶

Table description and if-condition | Messages

Table presents the coverage of a program or combination of programs, where coverage is the proportion of direct and indirect beneficiaries, or for the second panel - direct beneficiaries only, in each group. Coverage is calculated for the total population and user-specified groups. Rows: social protection programs and groups of programs (all SP, SI, LM, SA). Columns: total population and groups like area of residence, regions

IF-condition [                    ] Set



For all tables
☐ Standard errors (slow)

**Stop**

Table description and if-condition | Messages

Table presents the average per capita transfer value for the total population and other user-specified population groups. Rows: total population and groups like area of residence, regions Columns: Up to 20 social protection programs and groups of programs (all social protection; all social insurance; all labor market programs; all social assistance).

IF-condition [                    ] Set

# ADePT-SP Tables

ADePT generates an Excel file with the tables and charts displayed in individual tabs.

Copy of sp_out.xls [Compatibility Mode]

| | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | Table 3_3 : Average Transfer Value, Per Capita | | | | | | |
| 2 | *All households* | | | | | | |
| 3 | | **Total** | **Q1** | **Q2** | **Q3** | **Q4** | **Q5** |
| 4 | All social protection | 48.3 | 67.7 | 61.9 | 50.3 | 37.4 | 24.1 |
| 5 | All social insurance | 43.4 | 59.7 | 56.6 | 46.8 | 33.1 | 20.8 |
| 6 | Old age pension | 37.4 | 52.0 | 49.1 | 40.2 | 28.6 | 17.2 |
| 7 | Disability pension/allowance | 4.7 | 6.0 | 5.9 | 5.3 | 3.6 | 2.7 |
| 8 | Survivorship pension | 1.3 | 1.7 | 1.6 | 1.3 | 0.8 | 0.8 |
| 9 | All labor market programs | 0.4 | 0.5 | 0.6 | 0.4 | 0.4 | 0.3 |
| 10 | Unemployment benefit | 0.4 | 0.5 | 0.6 | 0.4 | 0.4 | 0.3 |
| 11 | All social assistance | 4.5 | 7.6 | 4.7 | 3.2 | 3.9 | 3.0 |
| 12 | Social assistance | 0.2 | 0.5 | 0.1 | 0.0 | 0.1 | 0.1 |
| 13 | Child allowance, up to 2 yo | 1.6 | 1.9 | 1.7 | 1.2 | 1.9 | 1.4 |
| 14 | Other family allowances | 0.2 | 0.2 | 0.2 | 0.3 | 0.2 | 0.2 |
| 15 | Monthly child allowance | 1.3 | 1.6 | 1.2 | 1.2 | 1.4 | 1.1 |
| 16 | Heating allowance | 0.3 | 1.1 | 0.2 | 0.1 | 0.0 | 0.0 |
| 17 | Guaranteed minimum income | 0.7 | 2.1 | 0.7 | 0.3 | 0.0 | 0.2 |
| 18 | Other sa benefits | 0.3 | 0.3 | 0.6 | 0.2 | 0.2 | 0.0 |
| 19 | All remittances | 6.1 | 2.2 | 4.8 | 3.8 | 4.0 | 15.8 |
| 20 | Remittances | 6.1 | 2.2 | 4.8 | 3.8 | 4.0 | 15.8 |
| 22 | Notes: | | | | | | |
| 23 | Table entries are the average per capita transfer received by all households in a group. It does include households that did not receive the transfer. | | | | | | |
| 24 | Averages are calculated setting as expansion factor the household expansion factor multiplied by the household size. | | | | | | |
| 25 | Averages in LCU. | | | | | | |

# Download ADePT for free
## www.worldbank.org/adept
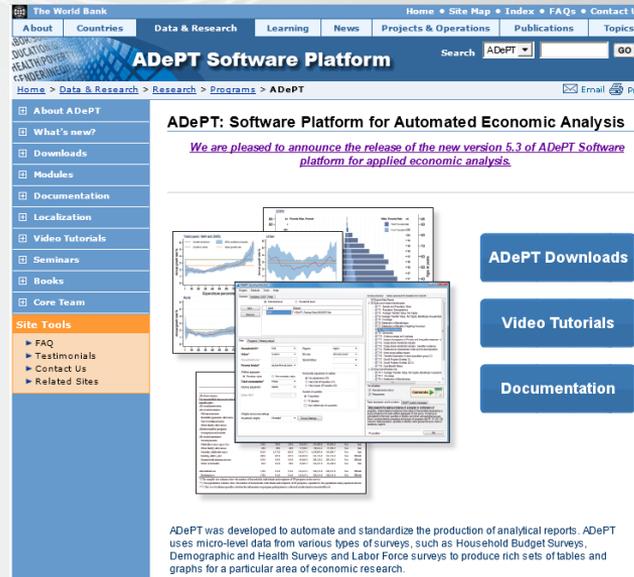


For more information about how to use the program please contact:

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Brooks Evans            bevans2@worldbank.org