GUI TIDY

Thai Interindustry Dynamic Model for Government Budget Evaluation

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1

Motivation and Objective

- TIDY (Thai INTERDYME) is used for policy analysis.
- Many non-technical clients have limited ability in programming.
- Consequently, we have developed an outer 'dress' for TIDY.
- We call it:

GUI TIDY

(Graphic-User-Interface TIDY)

What can GUI TIDY do?

It gives a visual display of the TIDY.

 It was designed for policymakers who main interests are the policy analyses. Thus, the program allow users to perform policy simulation very easily.

Forecasts and reports can be exported to spreadsheet.

Outline of the Presentation

1. Revisit Thai Interindustry Dynamic Model (TIDY)

3. The Building of Graphic-User-Interface TIDY

5. The look of GUI TIDY

I. Revisit TIDY Thai Interindustry Dynamic Model

- Built based on the Interdyme framework, with optimization feature that helps improving fits and revealing optimal path of policy variable.
- Real side, Price-income side, and the Accountant
- The input-output tables of Thailand
- 26 producing sectors
- Data sources: the National Economic and Social Development Board (NESDB) and the Bank of Thailand (BOT)

The structure of TIDY – How does it work?



TIDY reads configuration files.
Access data banks for the required initial values, then run simulation, and finally store the forecasts into these data banks.

The structure of TIDY – Problems with clients



II. The Building of Graphic-User-Interface TIDY







2. Calling the main program of TIDY (dyme.exe)



3. Data handling – forecasts are exported to the standard text files for GUI.



4. Reports and graphical display of the simulation.



Capabilities of GUI TIDY

 Create base forecast and scenario forecast.

Simulation results can be displayed in graph, tables, and reports.

 Easy for end-user's additional calculation, and flexible development for specific-proposed application.

III. The Look of TIDY Outer Dress

 A Thai Interindustry Dynamic Model for Government Budget Evaluation: Application from GUI-TIDY

- Please contact me at somprawin.m@chula.ac.th for more information about this program. I would be happy to get feedback from you.
- I hope I will be able to generalize the program so that it could be applied to any INTERDYME model by next conference.

Ways to go...

- Better data handling directly connected to vam and time-series bank files.
- Optimization feature
- Better reports

Any other things?