AGRODEP Modeling Component



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OVERVIEW

- 5 large family of models actively maintained (multi and single country General Equilibriums and Partial Equilibriums, 2 GAMS and 1Excel and 1 MATLAB) implementable for all countries or group of countries included in the data component (and more).
- 4 extended toolboxes available (e.g. econometrics of trade, scenario builders, microsimulations...)
- Very dynamic process and significant flexibility to try to adapt the supply to the demand



Activity\Period	2013	Q1 2014	Q2 2014	Q3 2014	Q4 2014			
Multi-country, multi-sector CGE model: MIRAGRODEP	*				Updated dataset and baseline			
Spatial Partial Equilibrium Model	*	*			Upload			
Endogenous Saving behavior in CGE	*	*		new documentation under revision	Upload			
A GLOBIOM model for AGRODEP	Activity dropped due to technical and IP challenges. New approach developed and pilot study (toolbox first) in 2014 for allowing AGRODEP members to generate/update spatial data.							
Regional Computable General Equilibrium Model: MIRAGRODEP- RI	*		First implementation of MIRAGRODEP RI	documentation	MIRAGRODE P- RI uploaded			
Macroeconometric model in the context of African economies		*	*	Final review of documentation and code	Upload			
Infra-annual stochastic PE model based on the RECS toolbox		*	*	*	* (will continue in 2015)			
Working paper on single country CGE (uses, implementation)		*			Simultaneous release of <i>French</i> and <i>English</i> versions			

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Activity\Period	2013	Q1 2014	Q2 2014	Q3 2014	Q4 2014		
Econometrics of price transmission	Activity dropped.						
Impact Assessment Tool Box	*		Included in the training activities and materials (june 2014)				
Toolbox on Demand Elasticity Estimation			*	* Uploaded			
Toolbox: SAM manipulation and database management		*	*		*		
Toolbox: consistent policy aggregators & measurements		*	*				
Toolbox on FNS indicators for CGE and PE models		*	Illustration of the toolbox		Upload		
Toolbox on GAMS modeling	New activity, Not initially planned				Upload (French and English)		



CHALLENGES

- Developing, adapting and documenting tools is great → They are ready if the members need them.
- But this year, we have focused on improving the appetite for the tools
 - increasing their visibility / notoriety
 - increasing the capacity of AGRODEP members to use them

• Need to adapt the partially the strategy



INCREASING THE VISIBILITY OF THE AGRODEP TOOLS

• Example 1: Academic recognition, validation.

- The **ERATO** multi country/multi products partial equilibrium model designed to analyze policy distortions along the value chains
- Published on March 15th 2014 in American Journal of Agricultural Economics, top field journal.
- Example 2: MIRAGRODEP global CGE and the nutrition tool box used for the ATOR report (official release next month), in coordination with RESSAKS.
- Example 3: MIRAGRODEP-RI global CGE applied to analyze the cost of Non-Maghreb in North Africa. Results used by the World Bank, presented in a large scale (involving several ministers and the IMF DG)



INCREASING THE CAPACITY OF AGRODEP MEMBERS

- Highest number of model download: models in Excel.
- More advanced models in GAMS (language/software): is it a barrier to entry?
- In addition, need for more documentation in French and English
- Need to do a specific training but very flexible (difficult to gather 10 or 15 people at a given point in time)
- \rightarrow Development of a unique online training in GAMS
 - \rightarrow 10 lessons from the very basic to most advanced functions.
 - \rightarrow Complete set of exercises and examples
 - \rightarrow Random Multiple Choice testing engine
 - \rightarrow Video in French and English
- \rightarrow Full set online by the end of the year