

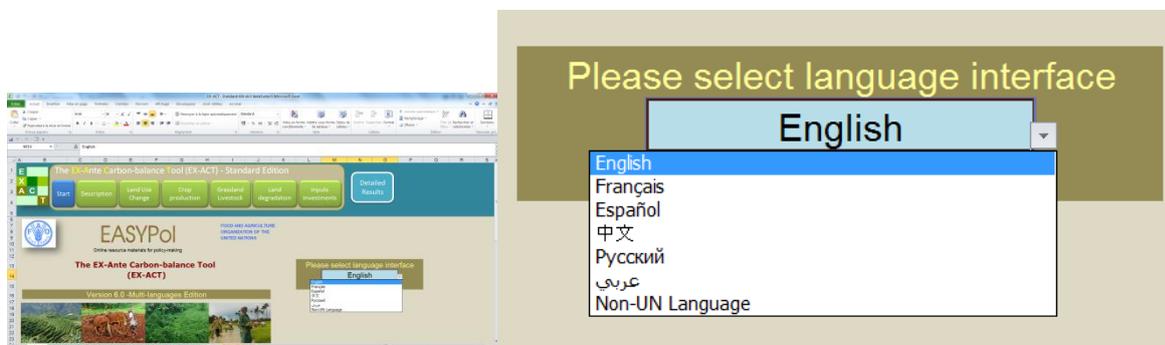


New EX-ACT Version 6 Released

A new version of the EX-Ante Carbon balance Tool (EX-ACT) is launched at the occasion of the Third Global Science Conference on Climate Smart Agriculture, taking place on 16-18 March 2015. Several aspects were changed or added in this new version of EX-ACT, and are detailed below:

Multilingual Interface

As the major update in this version, user can now select their preferred language for the tool interface. As part of the “Start” module of EX-ACT, the user can select in a first list between the official UN languages: English, French, Spanish, Chinese, Russian and Arabic.



Once the preferred language is selected, the tool interface automatically changes and displays all modules in using the preferred language.

The only exception are drop-down lists that remain in English, while translations are available directly next to the data entry field. Below, an illustration of the Chinese EX-ACT version is displayed.

项目名称			
大陆	Asia (Continental)		翻译 亚洲 (大陆)
气候	Warm Temperate Moist	?	气候? 暖温带 湿润
主要区域土壤类型	Sandy Soils	?	土壤? 砂壤
项目期间 (年)	实施阶段	10	
	收效阶段	5	
	核算期间	15	

In addition to the UN-languages, EX-ACT is also available in “Portuguese” and “German”. In case of specific requests, additional languages can be added without high resource or time requirements.

Further Novelties in EX-ACT 6

Uncertainties

Another important change concerns the way uncertainties of the mitigation are estimated and reported. Uncertainty estimates are based on the categorization of the different emission factors and carbon stock change factors reported by IPCC. The specific calculation is carried out by error propagation using the equation as follows:

$$U_{Total} = \sqrt{U_1^2 + U_2^2 + \dots + U_n^2}$$

Tier 2 Functionality for Other Land Use Change

As already implemented within all other modules, also the *Other Land Use Change Module* has now a dedicated Tier 2 functionality. Users can specify here in the case of availability of advanced information which kind of carbon stock changes are taking place with regards to soil carbon and biomass.

2.3. Other Land Use Changes										
Use this part only if you want to refine the analysis with Tier 2 coefficients. All values are in t of carbon per ha (tC/ha) (default values are provided for your information only, while EX-ACT will use Tier 2 values automatically wherever specified)										
Systems	Initial land use	Biomass		Soil carbon		Final land use	Biomass		Soil carbon	
		Default	Tier 2	Default	Tier 2		Default	Tier 2	Default	Tier 2
Agroforestry	Annual Crop	5.0		20.3		Perennial/Tree Crop	1.8	1.3	35.0	27.4
	Select Initial Land Use	0.0		0.0		Select Final Land Use	0.0		0.0	
	Select Initial Land Use	0.0		0.0		Select Final Land Use	0.0		0.0	
	Select Initial Land Use	0.0		0.0		Select Final Land Use	0.0		0.0	
	Select Initial Land Use	0.0		0.0		Select Final Land Use	0.0		0.0	

Refined Tier 2 Functionality for Irrigated Rice and Livestock

The Tier 2 functionalities for irrigated rice and livestock have been revised and refined: With regards to irrigated rice it is now possible to specify the specific methane emission factor from various methane sources, such as from the pre-season, the cropping season, as well as organic amendments. The livestock module now allows for the specification of different emission factors for *with-* and *without-project* situation. This allows e.g. capturing changes in manure management systems, when specific data is available.