



Attività 2.1: Sviluppo nuovo modello

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The first part of this task will perform a general review of the Eurogreen model developed in D'Alessandro et al. 2020. It has two main objectives:



Compare the model with the main contemporary ecological macroeconomic models and incorporate insights that will further improve Eurogreen's accuracy.



Build an extensive database of economic and environmental data and collect estimated parameters in the literature that will enable a fast conversion of the model to other countries and/or continents.

Model	I-O	p	Lab.	I	C	Fin	Tech	Energy
E3ME								
EURACE								
S&B								
Engage								
Naqvi								
Low-grow								
EIRIN								
MEDEAS								
FIDELIO								

Table: Reference models for Eurogreen's review In order, the column titles stand for input-output, prices, labour, investments, consumption, finance, technology and energy

Module	Reviewer	Data
Input-Output	Nicola	WIOD/NA
Prices	Marco	
Labour		KLEMS
Investments	Andre	KLEMS
Consumption	Till	COICOP
Finance		
Technology	Simone	
Energy	Tiziano	PEFA/Energy balance
Government		NA
Pop. & time use		IIASA/ETUS
Policies	Pietro	

Table: Review plan by module

The second part of this task will adapt and incorporate the results from activities 1.1, 1.2 and 1.3 into the simulation model. These new features will:

- ✿ Improve and the interconnections between environmental policies and income, gender and time-use inequalities.
- ✿ Develop measures that indicate the level of social unrest / social cohesion that follow different policies.
- ✿ Identify and simulate policy-mix scenarios to *i.* assess the distributional and social consequences of the current Italian policies (PNIEC, Recovery fund, EU green deal) and *ii.* understand whether there are more desirable policy combinations that improve social cohesion while reducing climate impacts.