

Primi risultati del modello REWIND

Missione 4

Istruzione e Ricerca

Lavoro presentato all'interno del progetto di ricerca PRIN PRIN 2022 PNRR

"Multi-scale modelization toward Socio-ecological Transition for Water management"

Codice: P2022R8ZTW, cup: B53D23026620001

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Punti di partenza per il modello REWIND

- ❖ Il Modello **IDROREGIO**
Un modello input-output multiregionale esteso alle risorse idriche per studiare le pressioni sulla risorsa acqua in Toscana
- ❖ Il modello **EUROGREEN**
Un modello di system dynamics dell'economia italiana

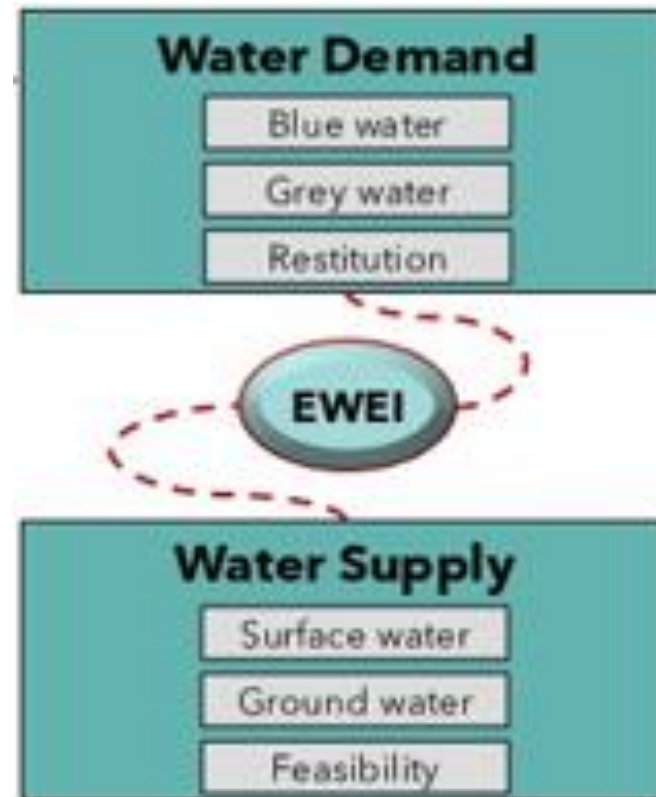
Alcune caratteristiche del modello REWIND



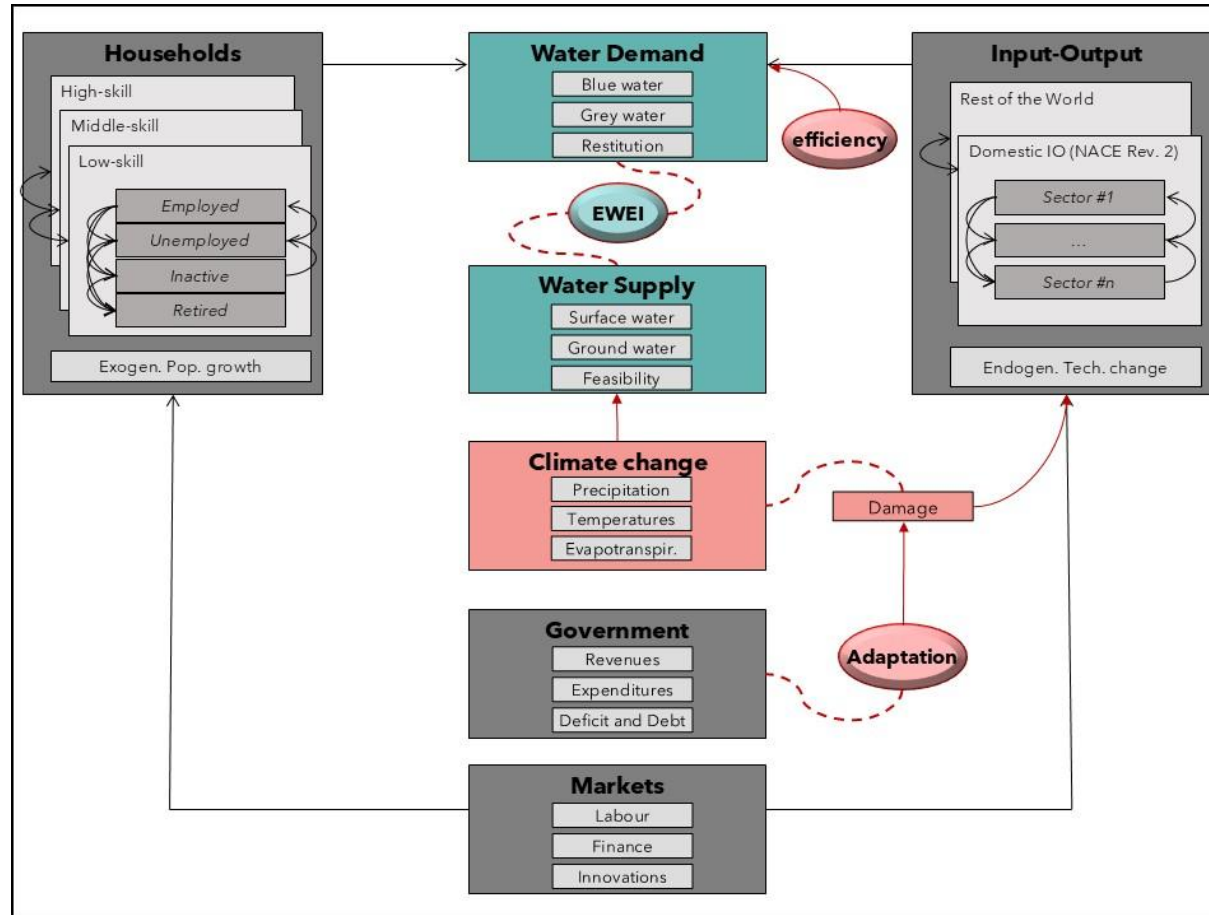
- ❖ Disaggregazione settoriale
- ❖ Struttura multiregionale
- ❖ Dinamica economica endogena al modello
- ❖ Effetti socioeconomici dei percorsi di sviluppo
- ❖ Tecnologia d'uso dell'acqua da parte delle attività produttive
- ❖ Rappresentazione della variabilità naturale dell'offerta di acqua

Focus sulle pressioni ambientali:

Extended Water Exploitation Index



Rewind



Primi risultati: IT – Rewind PIL

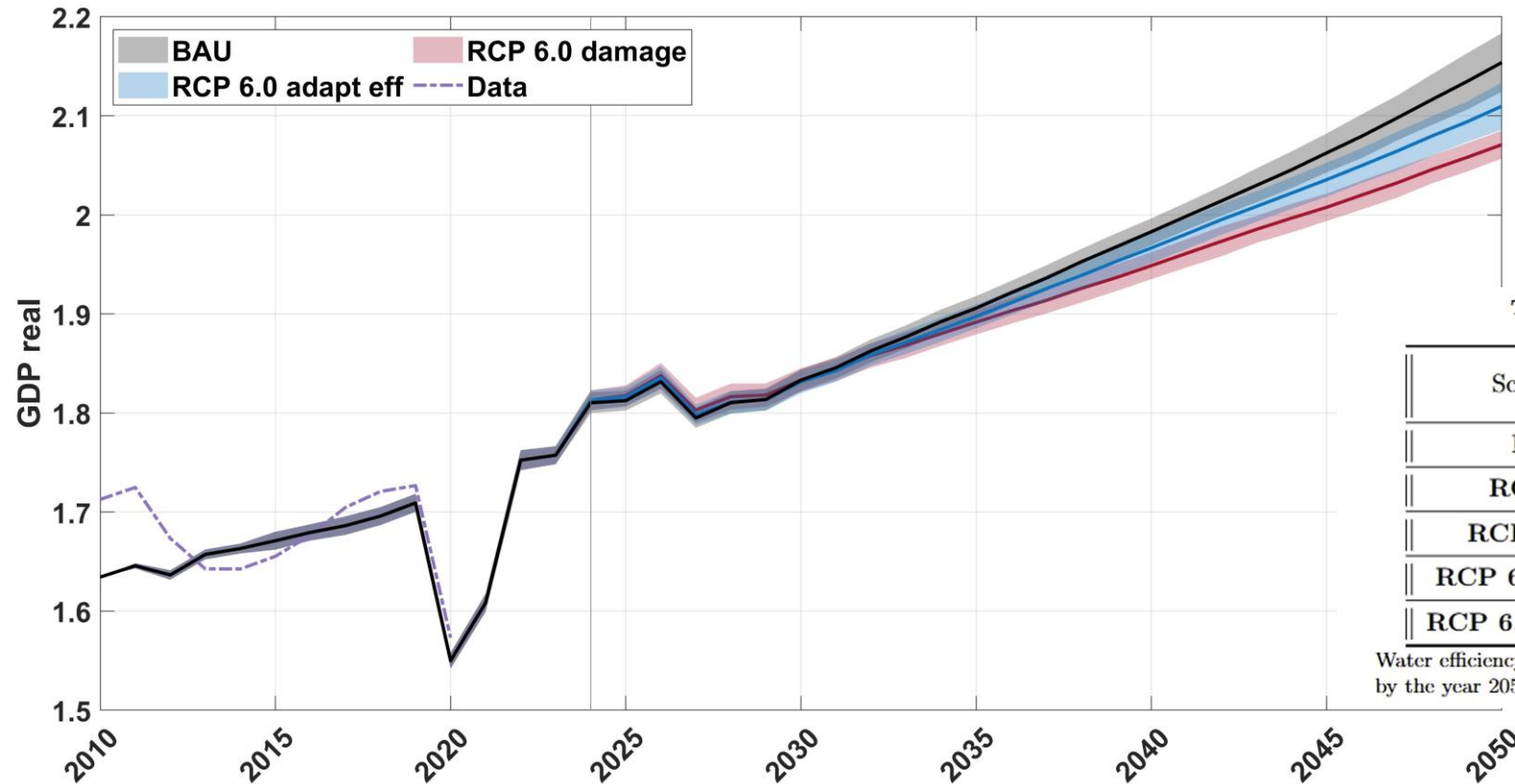


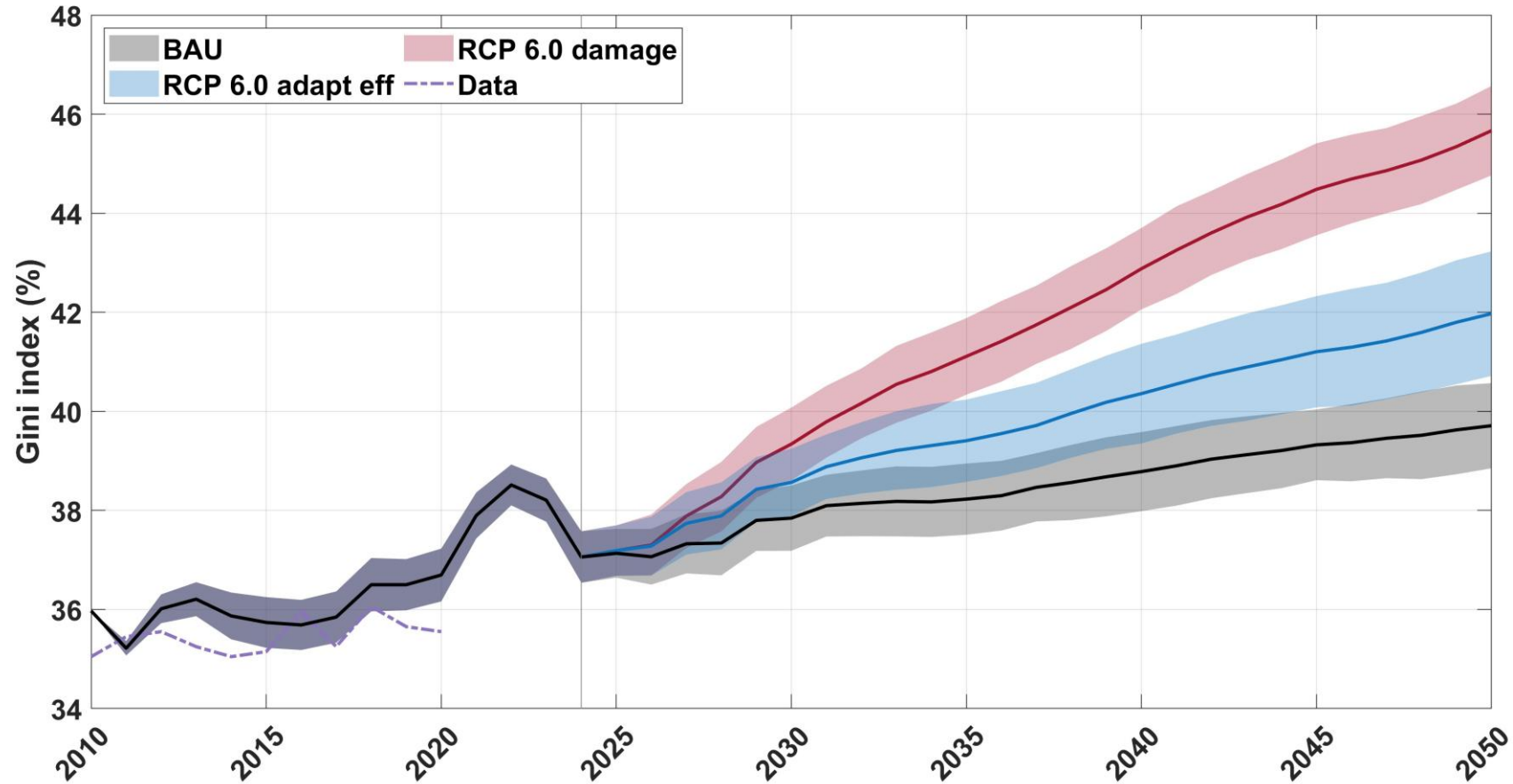
Table 1: Summary of the main assumptions for every scenario.

Scenarios	Climate change	Water efficiency	Economic damage	Adaptation
BAU				
RCP 6.0	✓			
RCP 6.0 eff	✓	✓		
RCP 6.0 damage	✓		✓	
RCP 6.0 adapt eff	✓	✓	✓	✓

Water efficiency is assumed to represent an external enhancement in water efficiency by 20% by the year 2050 (Δ_{ω}^{20}).

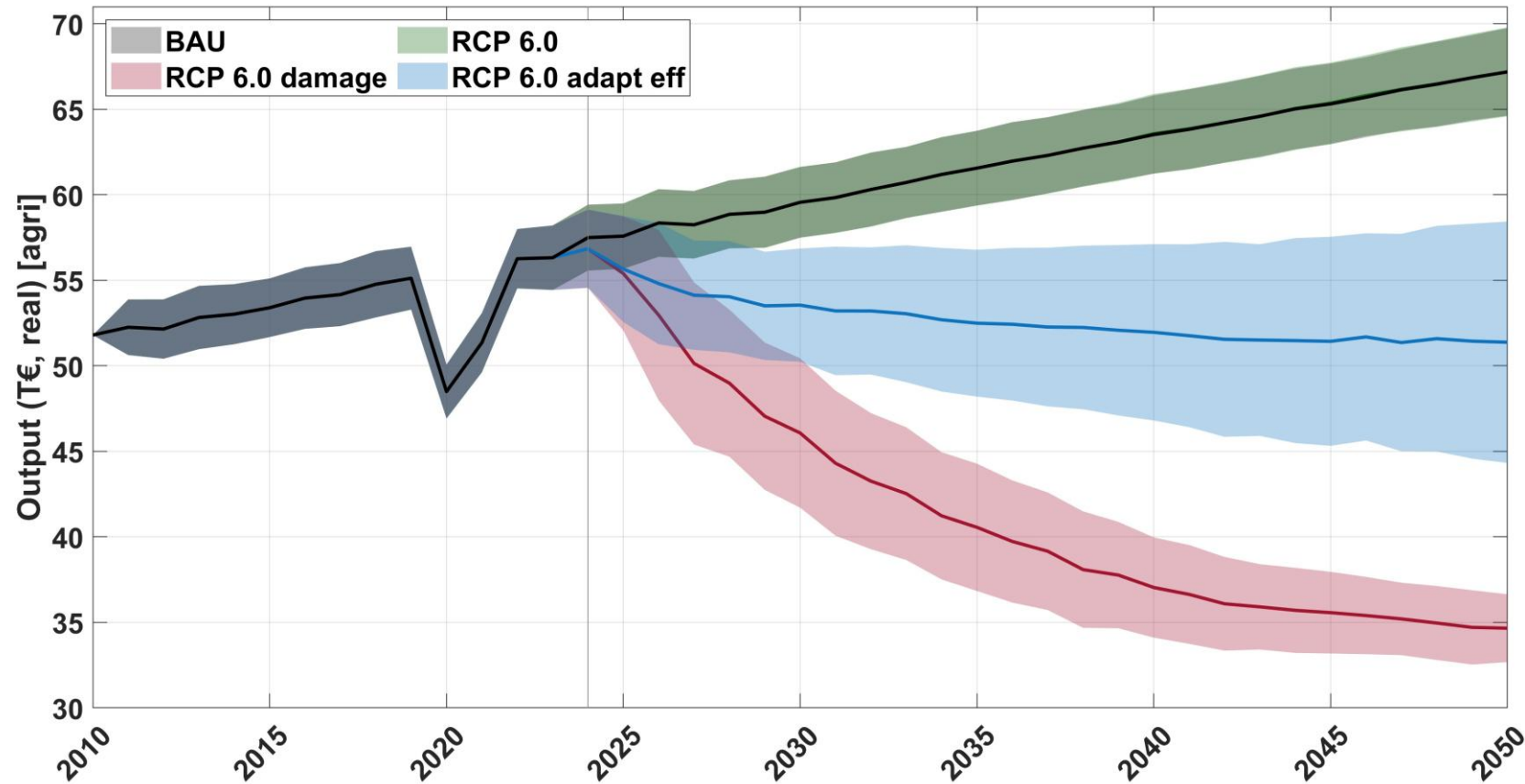
Primi risultati: IT – Rewind

Indice di Gini

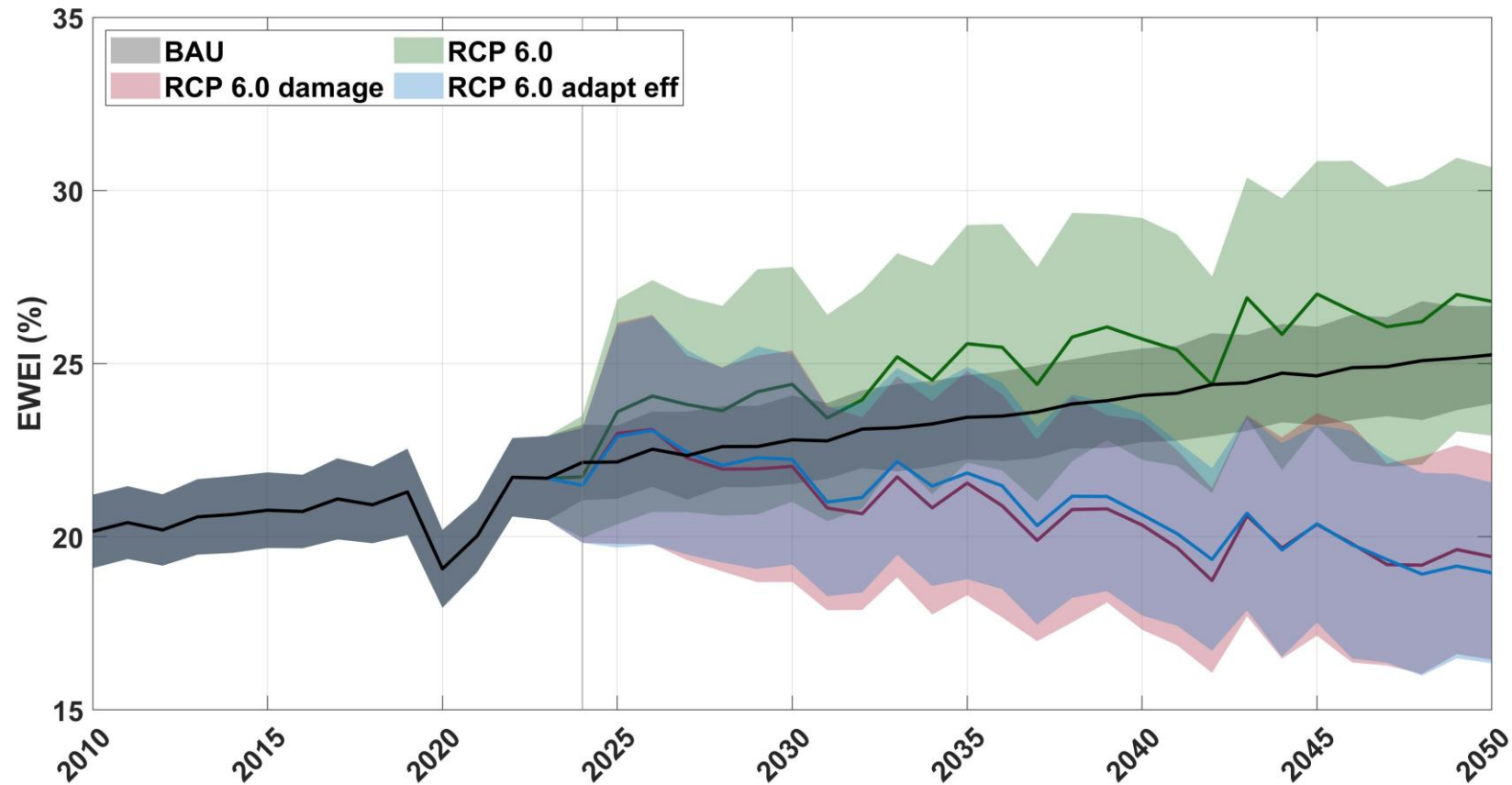


Primi risultati: IT – Rewind

Produzione agricola



Primi risultati: IT – Rewind EWEI



Model simulations - REWIND

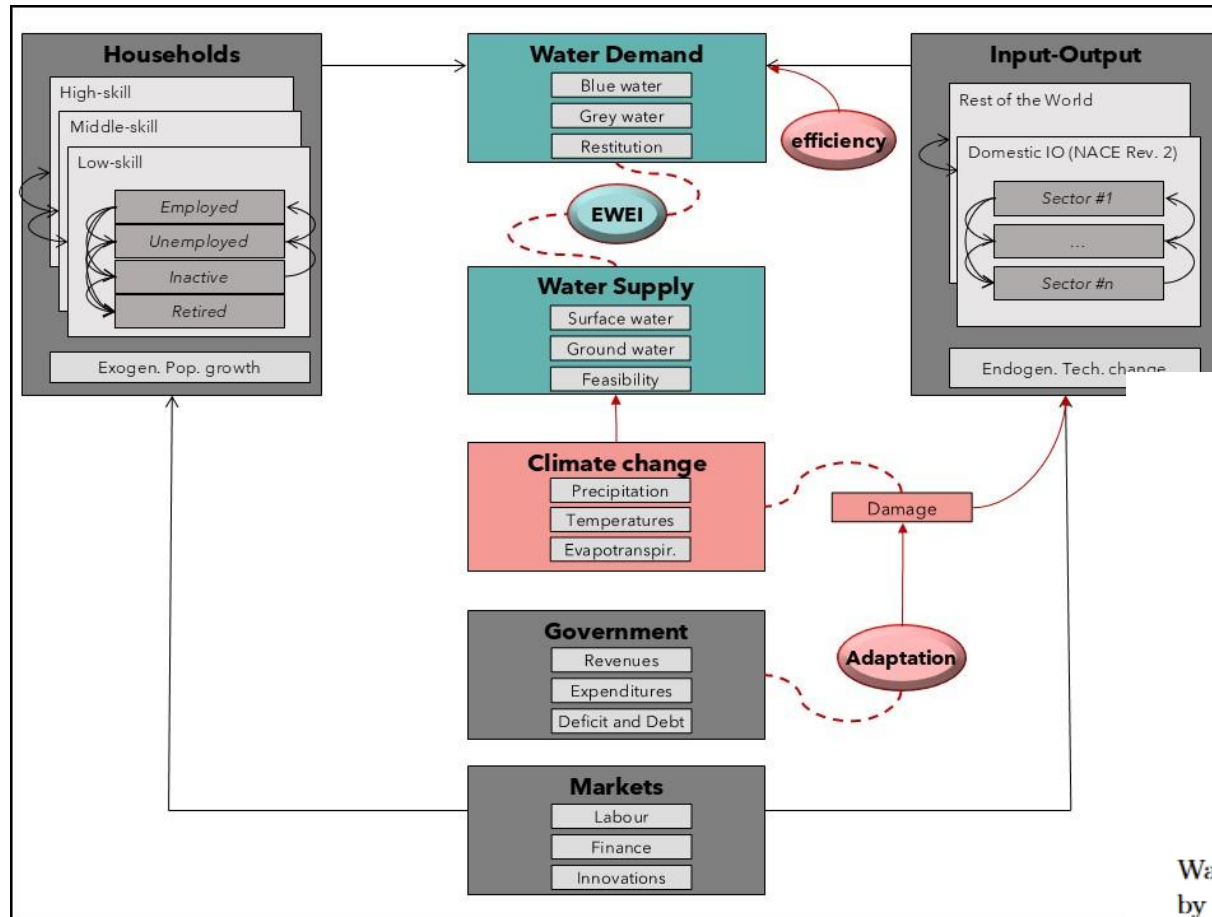


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RCP 6.0 adapt eff	✓	✓	✓	✓

Water efficiency is assumed to represent an external enhancement in water efficiency by 20% by the year 2050 (Δ_{ω}^{20}).



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