



LEARNING
by **DOING**

Mexico Team

@LBD_Project

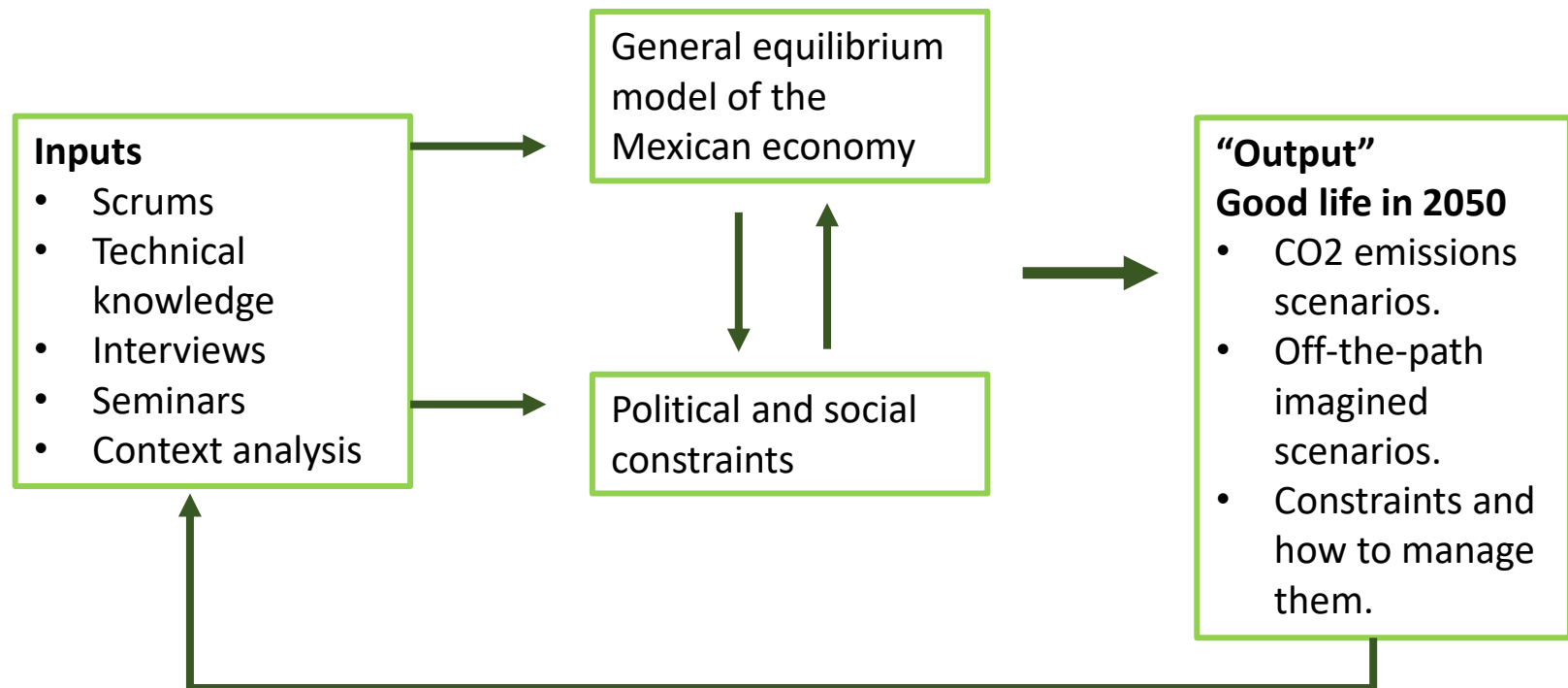
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Mexico Team

ITAM: Political-economy

ICM: Baseline technical
knowledge

Elizondo, Ibararán and Boyd:
General equilibrium model



Topics

Approach: We (mostly) know what to do technically, but we do not do it; why?

1. Sectorial analysis (energy and transportation)

- Develops a Good Life narrative. Thinking not only on sticks, but on a specific type of carrot: hope for a better life.
- Sets a baseline and, based on a general equilibrium model, it sets trajectories that are consistent with a low-emissions future (1.5^o-2^o C).
- Political-economy: emphasis on the social and political feasibility of the trajectories and the set of actions to be implemented.

2. Societal demand for better environment

- Analysis on the conditions under which citizens would effectively organize for demanding better environmental conditions as a necessary condition for sustained change.

Societal demand for a better environment

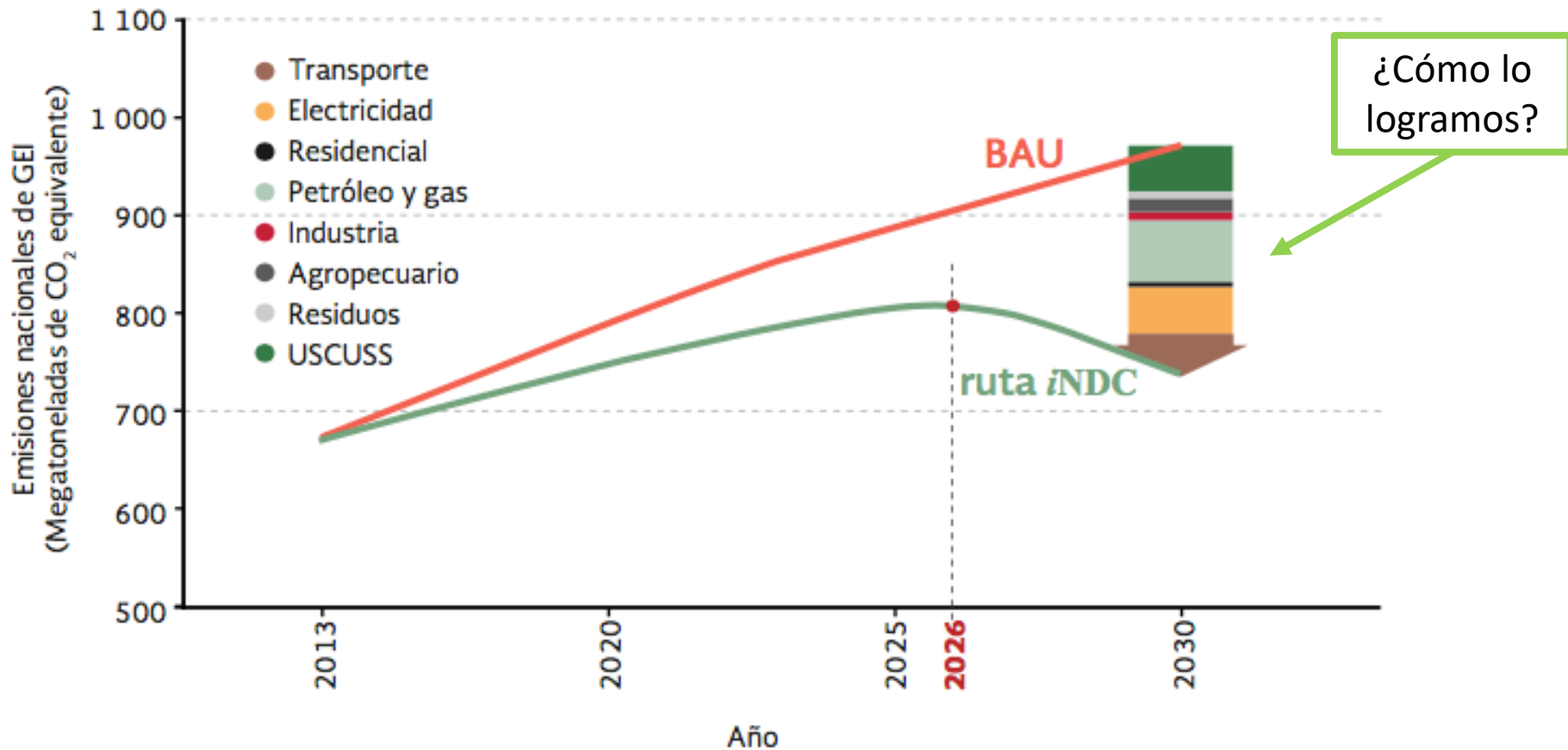
Societal demand as a necessary condition for change

- Mexicans consider climate change as one of the most important problems and we have sufficient technical solutions, why are these not implemented?
 - Collective action problems
 - Transaction costs
 - High discount rate by politicians
- Bottom-up solution.
 - Local governments
 - Communities
 - Endogenous solutions
- How can societal demand be created and sustained?
 - Sticks: Coercive regulation and taxes
 - Carrots: Compensations
 - **Hope: Eutopia/Better future/Good life**

Sectorial analysis: Energy

Emissions Scenarios

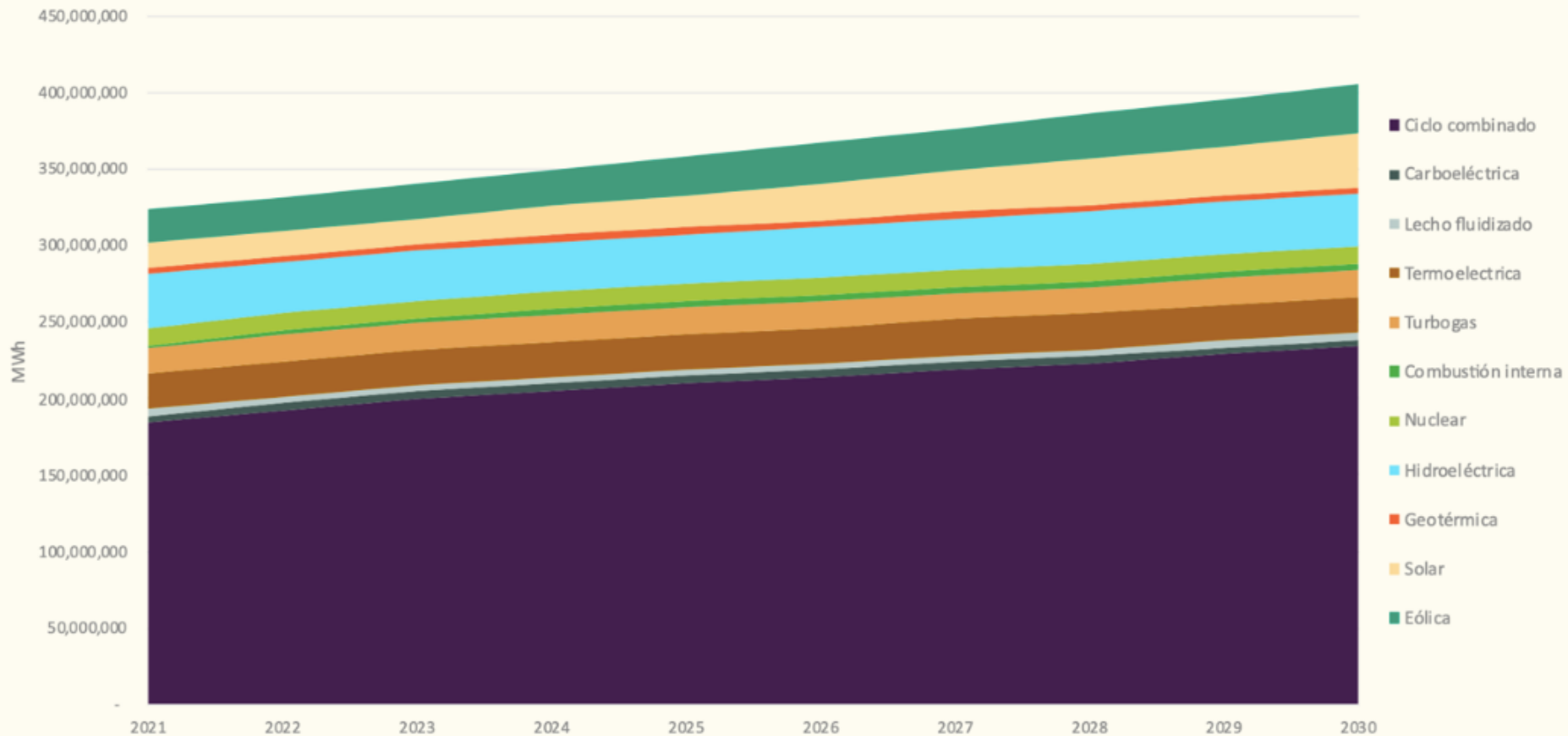
Figura 4. Emisiones nacionales de **GEI** según el escenario tendencial (BAU) y las metas de reducción INDC comprometidas de manera no condicionada, 2013-2030.



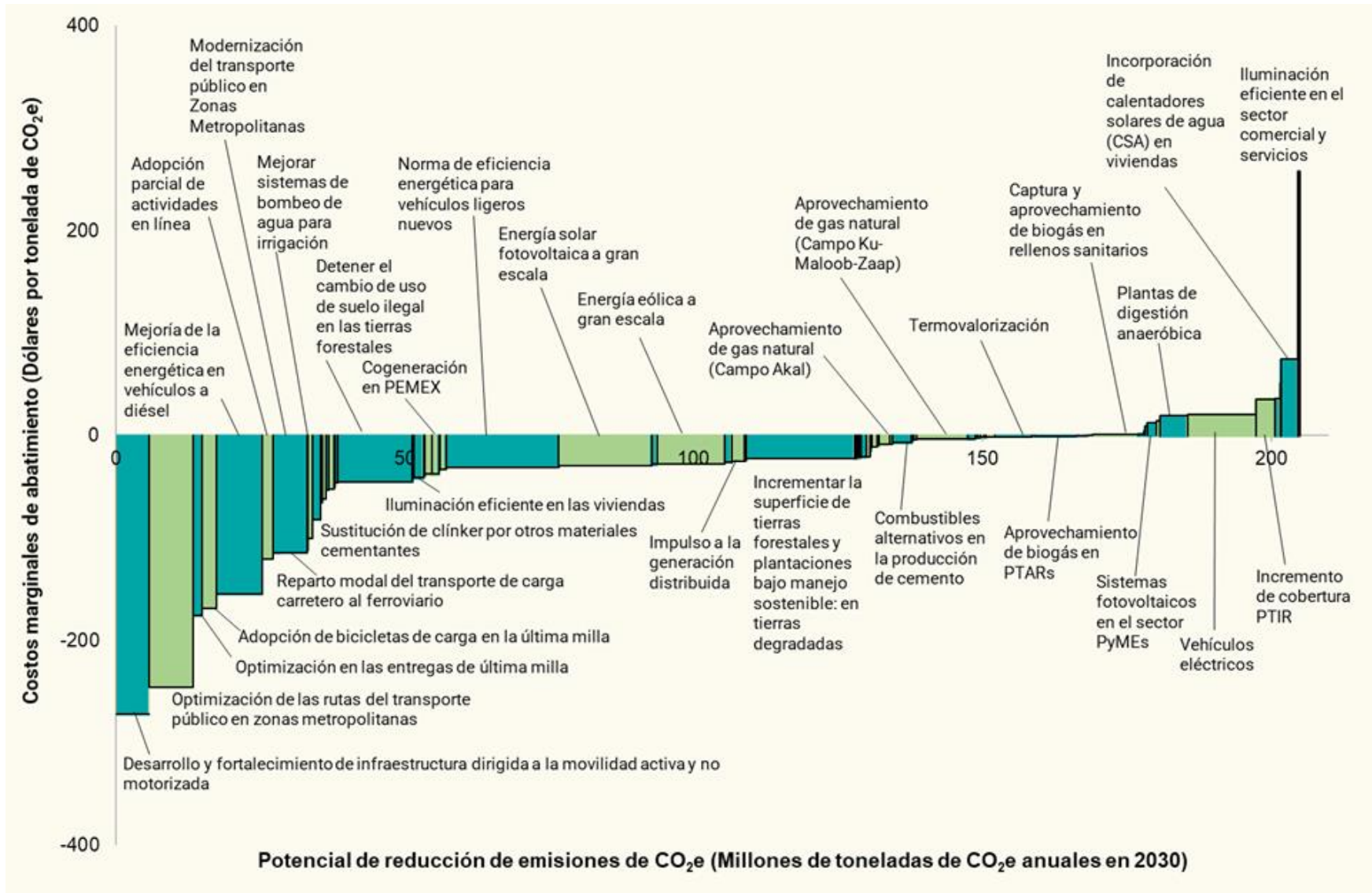
Baseline scenario 2030

Electricity generation by source (MWh)

Generación por tecnología en Escenario línea base



Mitigation marginal costs



Sectorial analysis: Energy

(Some) Mitigation measures on electricity (but...):

- Energy efficiency.
 - **But** governments (national and subnational) do not have sufficient resources for investing and private investment is discouraged.
- Incentives for clean energy generation.
 - **But** CFE is not willing (and lacks resources) to massively change from non-clean sources and competition is discouraged.
- Efficiency measures by sector (industry, commerce, agriculture, residential, government...).
 - **But** access to self-generation and independent electricity producers is limited by legislation, administrative practices and executive orders.

Sectorial analysis: Energy

How do we solve it?

- **Carrots:** CFE and PEMEX.
 - How to change them, but keep them in the game?
- **Sticks:** Exogenous pressure.
 - Other countries, international organizations.
 - Foreign investment (business).
- Creation of strong and long-term veto players
- **Societal demand**
 - How do we incentivize people to care and act upon it?
 - **Vision 2050:** less polluted environment, more sustainable ways of life, community life, more democratic governments.
 - Not only the end point (2050) is better, but also the trajectory is better.

Conclusions and Next Steps

- Following economically-socially and environmentally desirable trajectories to a decarbonized economy with good life for everybody will not be possible unless they have explicit popular support and the concerns of socio-economic actors that can block them have been addressed.
- Surveys and interviews (willingness to pay)
- Compensation measures