

Assessing the role and impact of a carbon price

PMIF Global Knowledge Forum

21-22 May 2023, Bilbao, Spain









Climate change and carbon pricing

- To avoid the most damaging effects of climate change, global average temperature must be limited to 1.5°C above preindustrial levels.
- A gap remains between current policy ambition and the ambition required to meet the goals of the Paris Agreement.
- While meeting the 1.5°C or net-zero emission targets entails economic costs, the overall costs would be lower than the costs of climate change if those targets are not met
- Carbon pricing is the single most cost-effective policy tool that governments and companies can use as part of their broader climate strategy

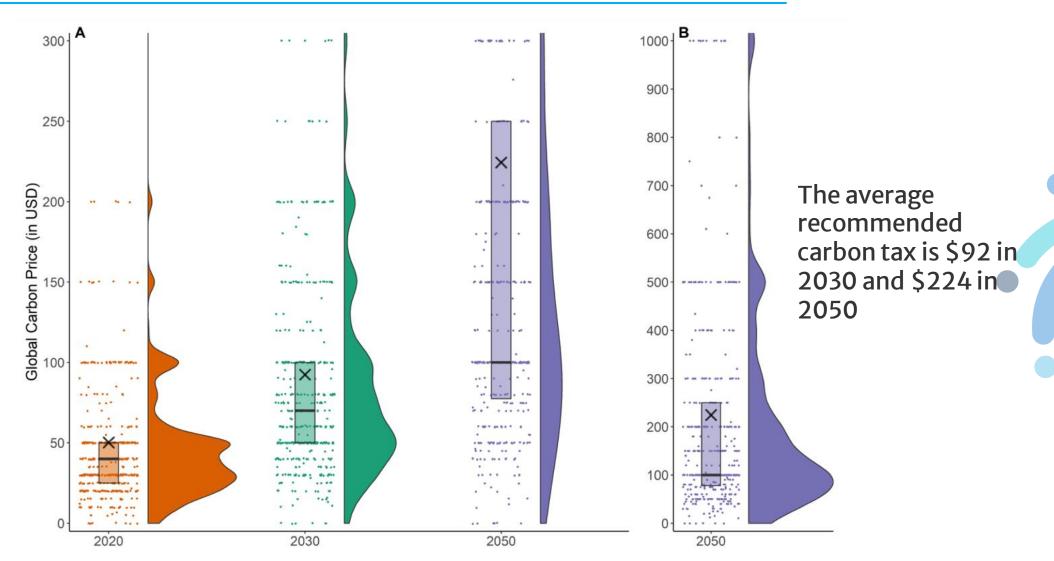






Which carbon price would you recommend to your governments in 2030, 2050?



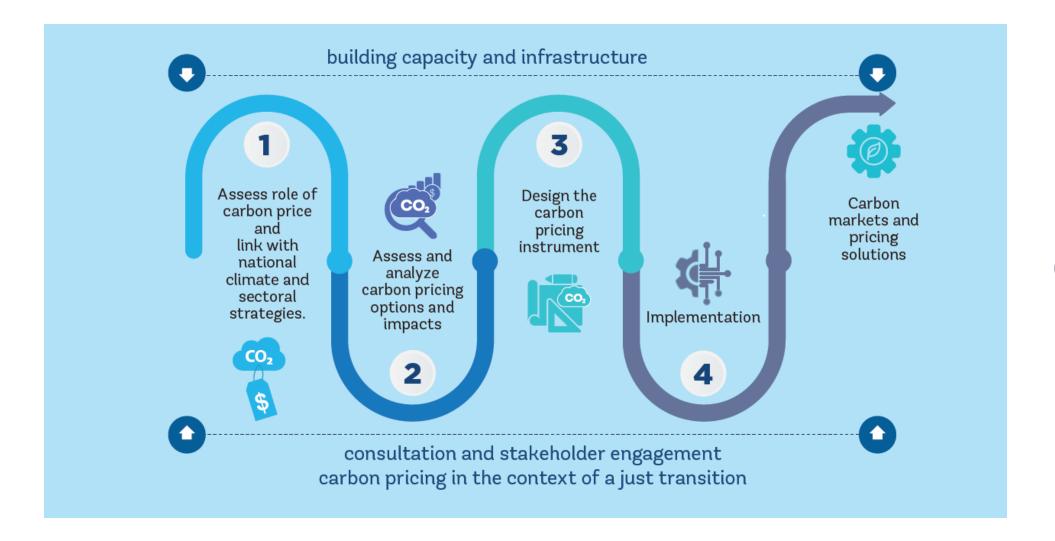








Carbon pricing policy development roadmap

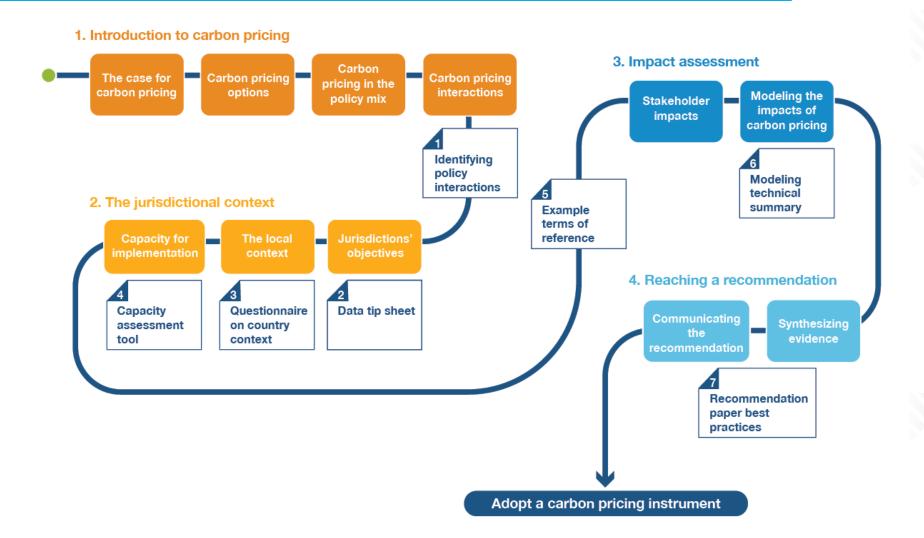








Carbon pricing policy assessment roadmap

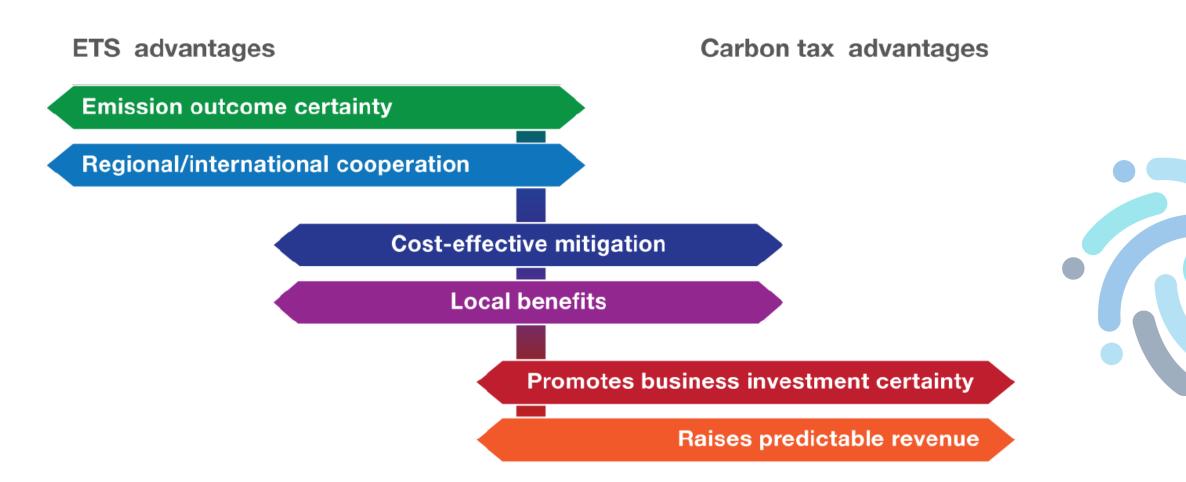








Policy objectives influence instrument choice

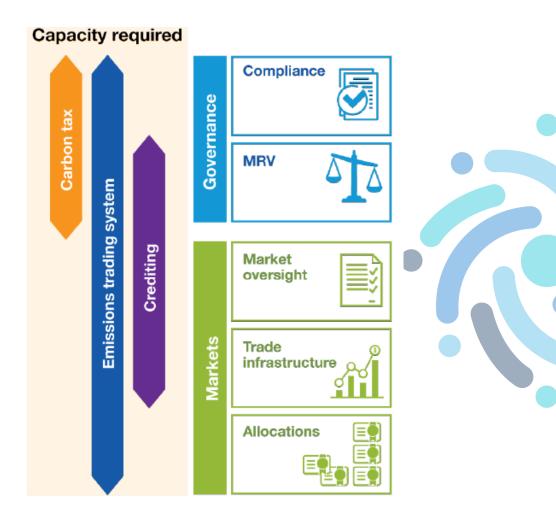






Local context and capacity is important











Interactions with other policies affects how a carbon price functions

Complementary

improve functioning of carbon markets

- energy market reform
 (e.g. facilitating cost pass-through)
- infrastructure upgrades
- energy efficiency labeling
- pollution/emissions measurement

Overlapping

duplicate incentives in carbon markets

- feed in tariffs
- green certificate programs, such as renewable energy targets

Countervailing

oppose incentives in carbon markets

- fossil fuel subsidies
- industry tax breaks and special treatment









Which climate policy instrument is superior...?

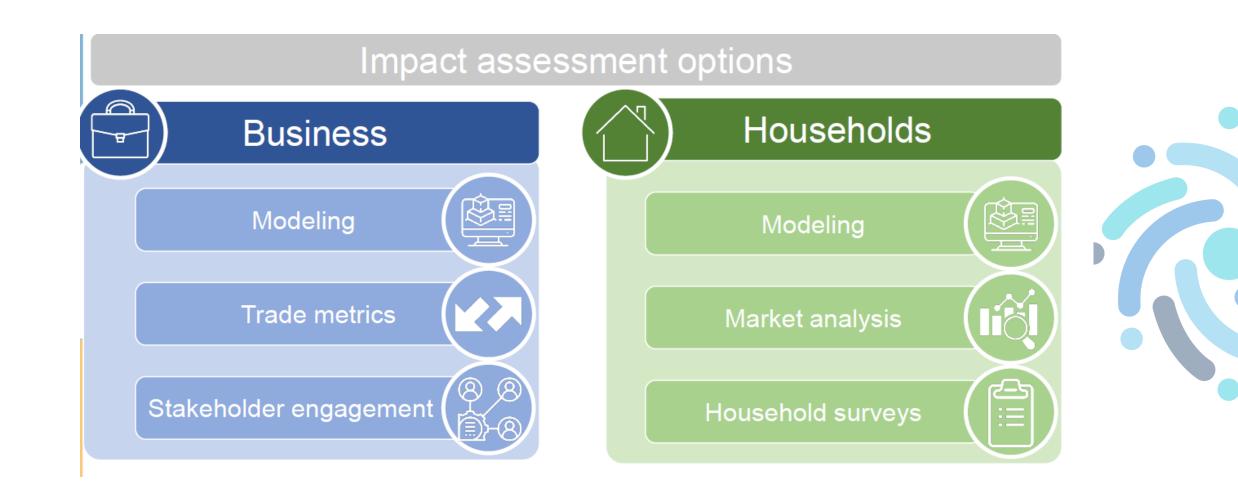
		Assessment criteria						
Policy instrument		Short-term minimisation of abatement costs	Long-term minimisation of abatement costs	Administrative costs	Ability to deal with uncertainty	Reallocation and distributional concerns	Political economy and public acceptability	Fiscal impact: revenues and expenditures
Emission- pricing instruments	Greenhouse gases tax	Highest	High	Moderate to high	High	Moderate	Low	Rev. raising
	Emission trading schemes (ETS)	Highest	High	High	Moderate	Moderate	Low to moderate	Rev. raising (when auctioning permits)
	Non-tradable performance standards	Moderate	Moderate	Low	Low	Low	High	Neutral
Standards and regulations	Subsidies to abatement	High	Moderate	High	High	moderate to High	High	Expenditure
	Feebates (e.g. feebates on vehicles)	Fairly high (often higher than non- tradable performance standards)	Moderate	Low to moderate	High	Low to moderate	Fairly high (higher than performance standards)	Neutral (can be revenue or expenditure)
	Technology standards	Low	Low	Low	Low	High	High	Neutral







Assess impacts using multiple sources

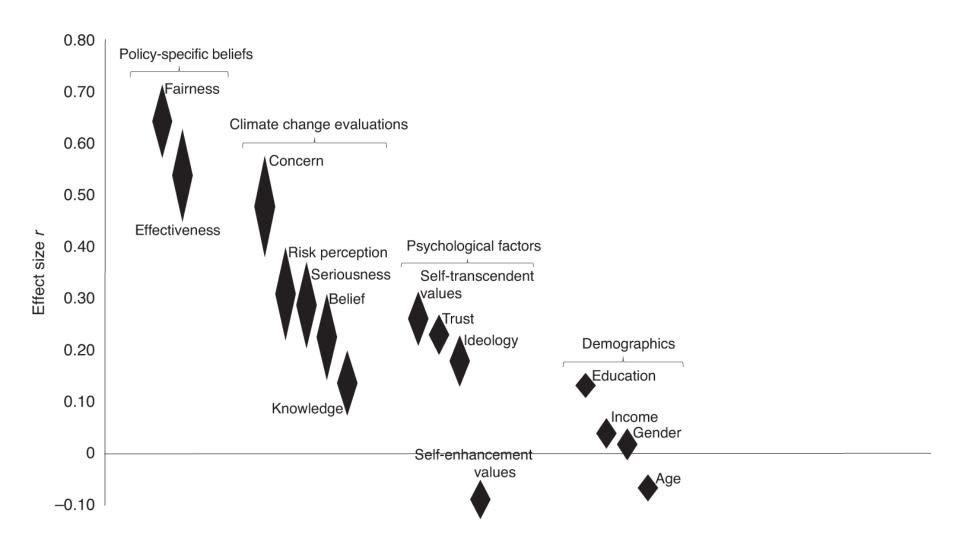






Visual summary of the relationship between determinants and public opinion about climate change taxes and laws





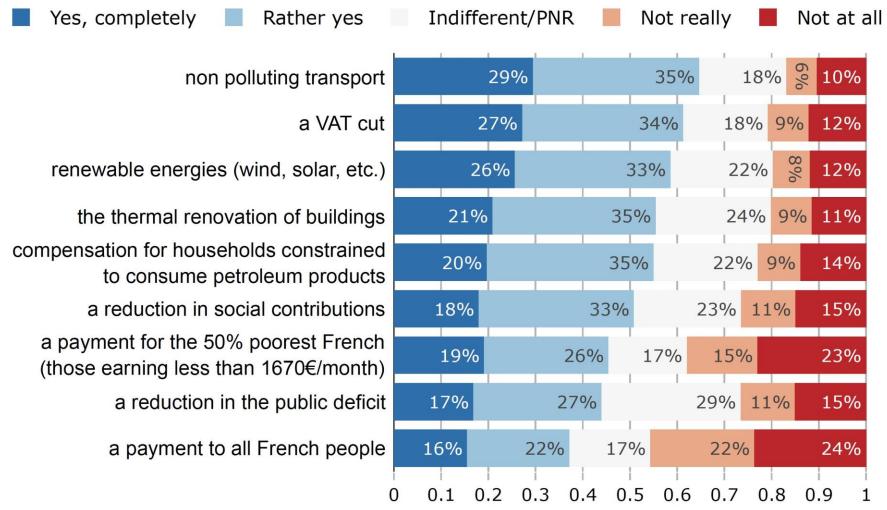






Would you approve of an increase of the carbon tax if the revenues were used to...?













Short time frame for implementation

Limited capabilities & capacity

Market concentration or insufficient liquidity

Institutional or political barriers

Short-term considerations



Price stability

Predictability of revenues

Regional/international cooperation

Temporal flexibility

Certainty of emissions reductions

Long-term objectives



Justify the need for intervention



Respond to stakeholder impacts



Use broad evidence for support







Summary

- Carbon prices are needed to incorporate climate change costs into economic decision making
- Carbon pricing should be included as part of a broader arsenal of tools to achieve domestic climate targets, but it is not a silver bullet
- Choice of carbon pricing instrument depends on the policy objectives and national circumstances
- The most successful instrument will be the one that can be enduring.
- Countries are increasingly adopting carbon pricing, but current levels remain inconsistent with national and international climate objectives
- Successful carbon pricing reforms require integrating many stakeholders' considerations and increasing the capacity of governments and domestic businesses







Tools and guidance available



- 1. Policy interaction attachment
- 2. Jurisdiction context questionnaire
- 3 Data tip sheet
- 4. Capacity assessment tool
- 5. Modeling technical summary
- 6. Example terms of reference
- 7. Recommendation paper structure



- Climate policies assessment tool (CPAT)
- MAAP-CPI tool





Thank you