

The G7's "Climate Club", Border Carbon Adjustments, and Australia

Professor Peter Draper Jean Monnet Chair in Trade and the Environment





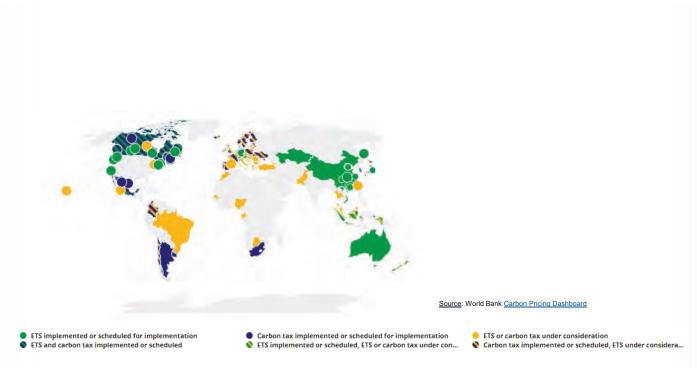
Overview

The EU as driver The G7's Climate Club framework A climate club pilot? The EU-US Global Sustainable Steel and Aluminium deal Political economy considerations Issues for Australian policy makers

Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or the European Education and Culture Executive Agency (EACEA). Neither the European Union nor EACEA can be held responsible for them



The EU as driver



The share of GHG emissions covered by emissions trading systems has increased significantly



Share of GHG emissions with a positive carbon price, in %, 2018-2021 evolution by instrument for 71 countries

Percentages are rounded to the first decimal place.

Source: OECD (2022), Pricing Greenhouse Gas Emissions: Turning olimate targets into climate action + Created with Datawrappe

The Climate Club is Driven by EU concerns

The EU sees itself as a global climate mitigation leader

Its carbon price was the 5th highest in early 2023

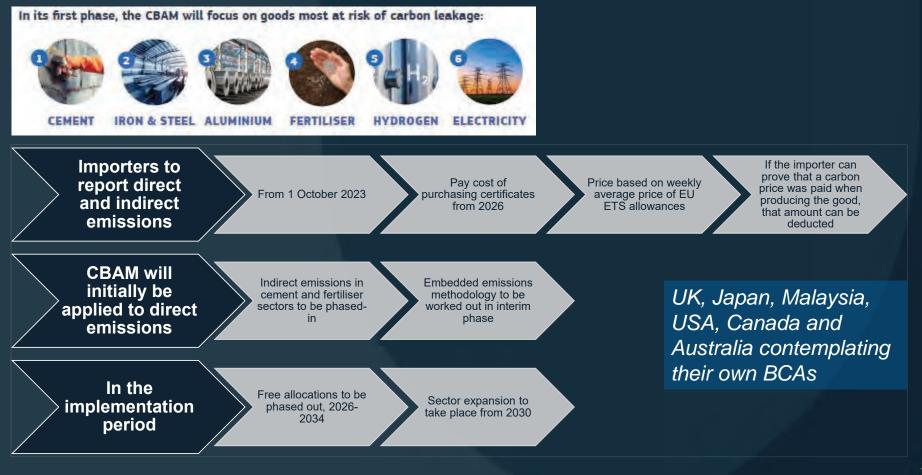
- After Uruguay, Switzerland, Liechtenstein, and Sweden
- The US does not have a carbon price although some states do
- China and Japan very low
- India does not have one either

Prompting 'carbon leakage' concerns

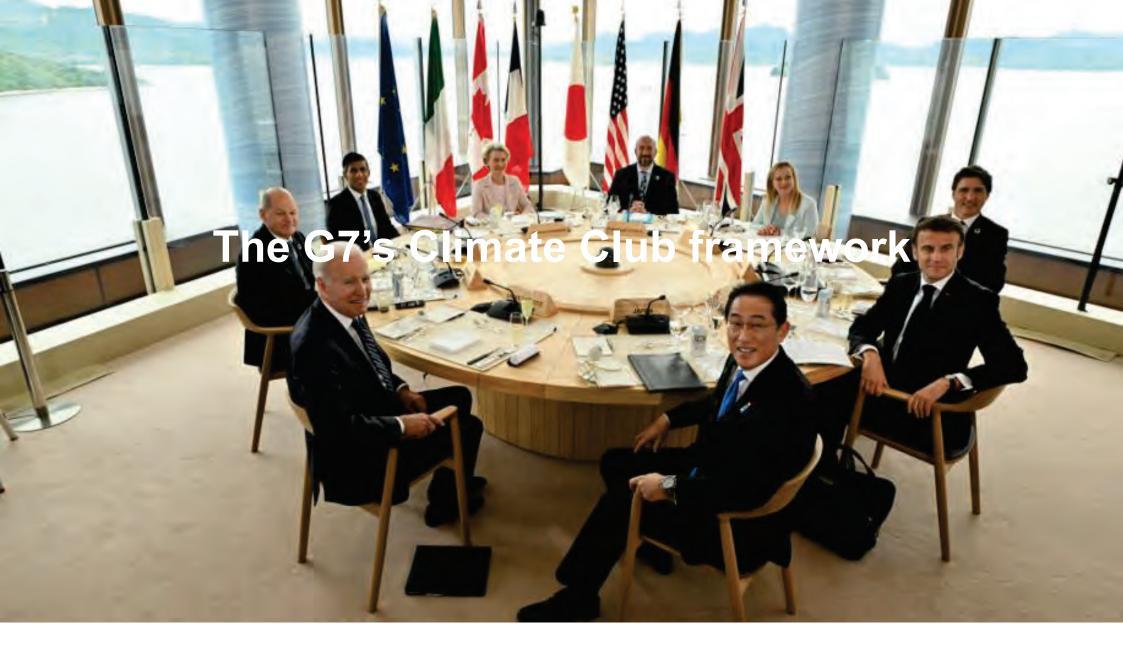
And a corresponding desire to externalise its regulatory preferences (the "Brussels Effect")



The EU's CBAM







The G7's Climate Club (1)

Sponsored by Germany & launched December 2022

- Based on "Club theory" (Buchanan, 1965) applied to environment (Nordhaus, 2015)
- · Purpose is to overcome free-riding problem vis a vis collective action
 - Interpretation: The Paris Agreement is not delivering sufficient, and sufficiently balanced, ambition
- By developing a global carbon-pricing framework (at least that is the EU's objective)

Structure

- Pillar 1: Advance GHG mitigation policies (carbon leakage focus; joint measurement approaches)
- Pillar 2: Decarbonise hard to abate industries (initially iron and steel; cement)
- Pillar 3: Boost international climate cooperation and partnership
- Interim Secretariat in the OECD and IEA



The G7's Climate Club (2)



Clean Energy Economy Action Plan (Hiroshima May 20 2023)

- Transparency and coordination of policies to maximize incentives' impact
- Emissions reductions through trade policies (embedded emissions accounting; carbon leakage)
- Promote resilient global supply chains (clean energy manufacturing; reduce strategic vulnerabilities including in critical minerals; embed due diligence; finance mobilisation)
- Promote clean energy technologies
- Promote trade and investment in clean energy goods and services
- Support global partners
- Full launch by COP28 (November 2023)



A climate club pilot?

WHAT THE

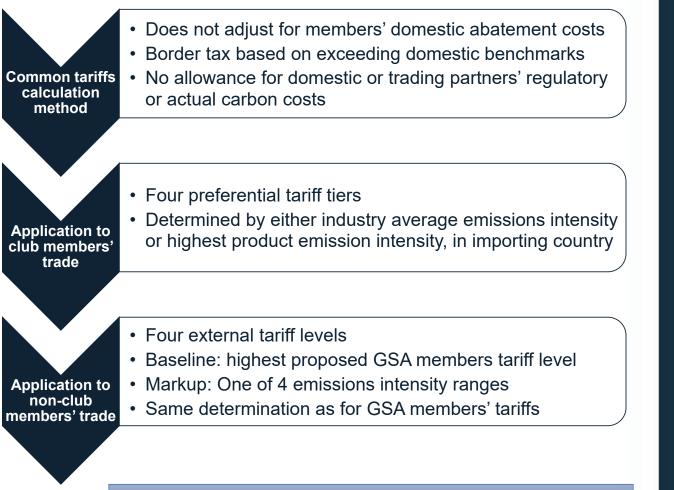
HE THE

2002 HILLIN HILL

The EU-US Global Sustainable Steel and Aluminium deal

1000

A Climate Club Pilot?



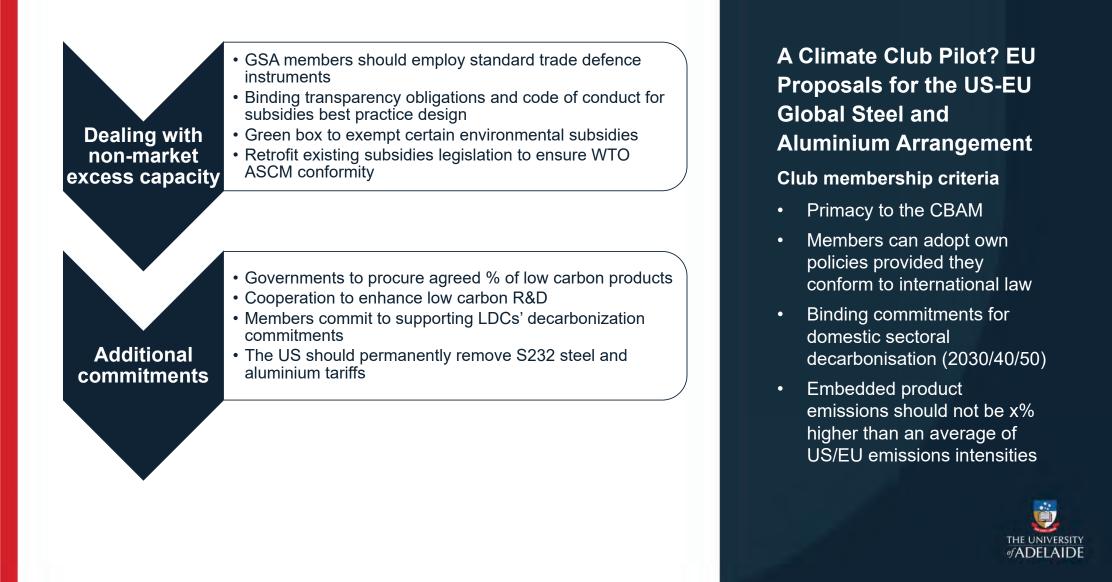
US Proposals for the US-EU Global Arrangement on Sustainable Steel and Aluminium

Club membership criteria

- Average embedded product emissions
- Contribution to "nonmarket excess capacity" (China...)
- Minimum procurement of low emissions steel and aluminium



Not a carbon adjustment mechanism per se



Political economy considerations

Some systemic challenges



Measurement problem

- Absence of common embedded emissions accounting standards means application of dubious "default intensities"
- Developing countries' capacities to properly measure GHG emissions at the levels required



Equivalence problem

- Exemptions for "equivalent contributions"?
- The Paris Agreement specifically allows for non-price measures



Level playing field problem

- While taxing imports the EU and US are massively subsidising domestic producers
- While the EU club may be more like an "alliance", the US proposal is highly discriminatory and exclusive

Some systemic challenges

L
•
•
•

_egal problems?

- WTO jurisprudence suggests potential for challenges, e.g "production process methods"
- Places the already stressed WTO dispute settlement system under more strain
- Carbon leakage elevated to level of a principle, application of which violates the Paris Agreement's NDCs anchoring



Geo-economics problem

- Effectively negates the principle of "Common but Differentiated Responsibilities - and Respective Capabilities" at the heart of the UNFCCC process
- By compelling developing countries to adopt G7 norms, e.g. carbon pricing in the EU's CBAM
- And invites "copy-cat" responses thereby undermining the Paris Agreement as well as the WTO's DSM

"Club" or "Alliance"? 3 Typologies (Falkner et. al, 2021)

Normative: Shared, generally high ambition, goals and open-membership

Bargaining: Outcomes focused but only the most significant players

Transformational: Shared ambition and norms; aim to change others' incentive structures (Nordhaus model)





Australian policy makers have a lot to consider as they design our BCA

Systemic issues loom large

- Are we undermining the Paris Agreement?
- If so, with what implications for our regional partnerships, especially the "Pacific family"
- Will it be WTO compatible?
 - If not, will our standing as guardian of the "rules-based order" suffer?
- Offset by "rather in the tent than outside"?

The technical design is challenging

- Particularly embedded emissions measurement and/or application of default intensities in relation to imports
- · Accommodating developing country concerns (or not)
- · Ensuring it doesn't become protectionism by the back door





A "Climate Alliance" rather (E3G, 2022)?

Converge	Establish	Promote	Incorporate	Adopt
On average emissions intensity milestones for industrial sectors • Ultimate adoption of common minimum CO2 performance requirements	 Industrial decarbonization "fair play" principles For, inter alia, carbon leakage measures, green subsidies, and market access Common definitions of near zero and low-carbon materials & embedded carbon reporting standards 	Adoption of low- carbon deployment national policies • Including in industrialized developing economies • Clean technology deployment by creating "clean product buyer" alliances or projects	Ambitious developing countries' perspectives • Across all activities • Pragmatic and proven capacity building activities to accelerate industrial decarbonization	Complementary rather than duplicative governance structure • Across the existing landscape of industrial initiatives
Pillar	1 Pillar	2 Pillar	γ 3	THE UNIV ØADEL

A Climate Alliance implementation agenda (E3G)

Breakthrough Agenda (supported by IEA
Overarchina

Cliniate amarice
Ambitious implementation and participation in initiatives through national policies
Identify and initiate missing gaps in collaborative agenda

Pillar 1 Converging on ambition and defining fair play	Pillar 2 Sectoral coordination: making scalable green markets	Pillar 3 Building capacity and investments in developing countries
Ambition convergence	Demand side	Lead: new forum to be set up
Lead: governments in the alliance Related processes: UNFCCC (NDC cycle & Mitigation Work Programme); Responsible	Lead: IDDI & FMC Related processes: SteelZero; GSA; new clean product buyers' alliances	(possibly UNIDO-led) Funding: alliance members + future public–private buyers alliances
Steel; LeadIT; CEM; G7/20	Supply side	Related process: LeadIT, CEM,
Trade and fair play	Lead: MI	International Climate Finance
Lead: new dialogue to be set up Related processes: WTO; Coalition of Trade Ministers on Climate; OECD; GSA; G7/20	Related processes: new clean product buyers' alliances	Institutions; Article 6 of the PA



Cooperation or discord in global climate policy (Keohane and Victor, 2016)?

Deep mitigation: Multilateral (Kyoto) Shallow mitigation: "Clubs"

Table 1 | Prospects for coordination and cooperation under four different conditions.

Potential joint gains are high	Potential joint gains are low
Possible cooperation with high rewards, but with dangers of defection that rise with the depth of cooperation.	Little incentive to seek to cooperate, although shallowness of cooperation limits dangers of defection.
Likely coordination, with limited but realizable gains, often leaving potential gains 'on the table'.	Easy coordination, limited by the low level of potential gains.
	Possible cooperation with high rewards, but with dangers of defection that rise with the depth of cooperation. Likely coordination, with limited but realizable gains,

Deep mitigation: subgroups (technologies)



Domestic politics remains crucial

But how to 'surface' those to form credible commitments (preferences)?

Combination of approaches, or 'polycentric' 'regime complexes' likely to evolve



Reflecting National Interests via the Paris Agreement: Nationally Determined Contributions (Keohane and Victor, 2016)

Created the global public good of reduced climate change

Governments create local or national public goods that also address climate change

Generated competitive economic benefits, e.g., creation of new industries

Generated side-payments, e.g., Disaster and Recovery Fund

Created reputational benefits for some – appeal to ESG "consensus"

Now complemented by privately-led initiatives (ESG)

And basic but indispensable technical work, e.g., emissions accounting and reporting



make history.





Co-funded by the European Union

Hydrogen in Australia's Future and the Implications for our **International Relations**

AIIA Conference on National Hydrogen Strategies

26th June 2023, Adelaide

Professor Peter Draper, Jean Monnet Chair of Trade and Environment and Executive Director, Institute for International Trade

Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or the European Education and Culture Executive Agency (EACEA). Neither the European Union nor EACEA can be held responsible for them.

We acknowledge and pay our respects to the Kaurna people, the traditional custodians whose ancestral lands we gather on.

We acknowledge the deep feelings of attachment and relationship of the Kaurna people to country and we respect and value their past, present and ongoing connection to the land and cultural beliefs.

Overview

Hydrogen in the global energy transition Trade-related implications Australia's hydrogen trade future Broader implications for our international (trade) relations



Hydrogen in the global energy transition

Trade-related implications

Australia's hydrogen trade future

Broader implications for our international (trade) relations



Global demand is growing but supply is met by unabated fossil fuels

Global demand is mostly in industrial and refining applications

New growth in direct iron reduction, shipping, and power (off a small base)

This will be substantially short of 2030 requirements to meet 2050 net zero targets

Low emissions production pipeline (electrolysis; CCUS) increasing rapidly off very low base

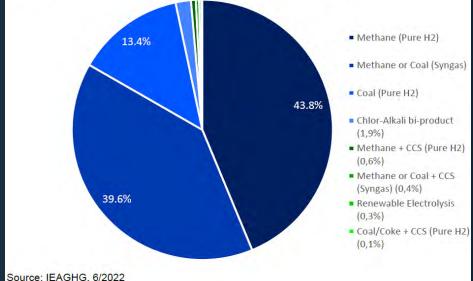
Still far short of path consistent with 2050 net zero targets

Currently competitive with unabated fossil fuels production in many regions

Particularly in countries/regions with good renewable resources (e.g., Australia)

If electrolyser production scales up and costs are driven down - a virtuous cycle could be established











Which means trade opportunities will grow

The major potential demandeurs are heavy industry, heavy duty road transport, and shipping

Securing customers is a key challenge for suppliers

Trade impediments also block progress (more on this below)

To remove them requires international cooperation







Geopolitics are providing significant tailwinds

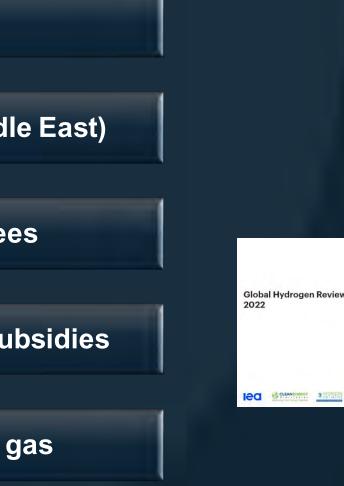
Russia's invasion of Ukraine and impacts on European energy supplies

China's western search for energy security (Central Asia and the Middle East)

Japan's dependence on Russian gas and search for energy guarantees

U.S. desire to re-industrialise to compete with China, and derivative subsidies

European responses to US subsidies, and rush to diversify from Russian gas







Trade-related implications

Australia's hydrogen trade future

NE C

Broader implications for our international (trade) relations



Plans for low emissions hydrogen are ambitious, but demand is lagging Global Hydrogen Review 2022

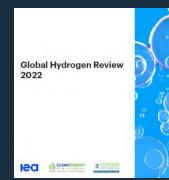
A "nascent, but rapidly growing landscape for hydrogen trade" (IEA, 2022, 162)

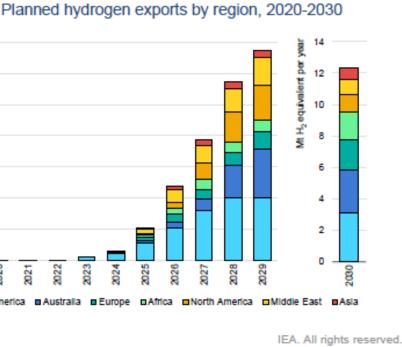
Derived from electrolytic production and carried in ammonia

Planned supply currently substantially exceeds confirmed import agreements

But Asian, and especially European, governments are developing import plans

Target-setting beyond 2030 remains a constraint on projects needing longer time-horizons





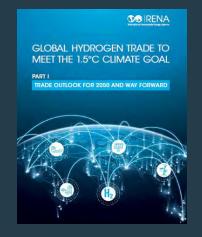
Source: IRENA Global Hydrogen Trade Report, 2022



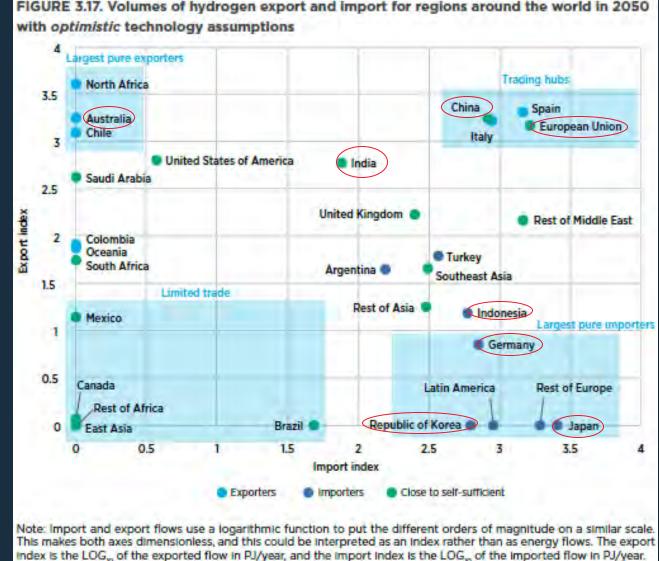


Major industrial relocations could be in the cards

Some countries will be large net importers Particularly Europe - the largest hydrogen import target driving investment decisions Some current fossil-fuel exporters could benefit, including Australia **Competition is escalating rapidly** Each country and firm faces trade-offs between domestic production and imports







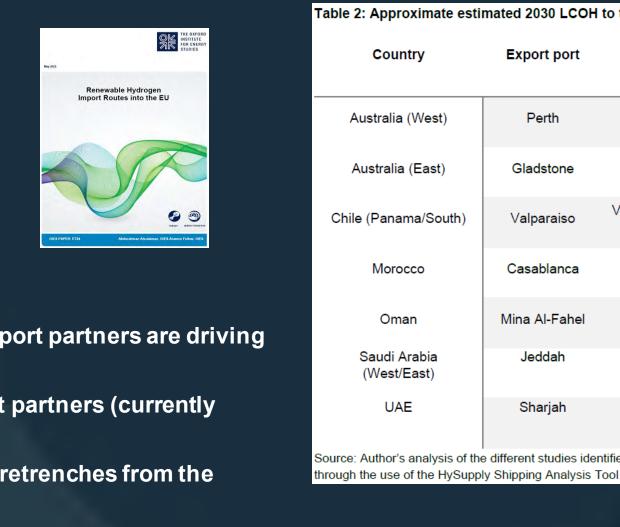
Source: IRENA Global Hydrogen Trade Report, 2022



Consider the EU market opportunity for Australia

Figure 14: Countries within the regions indicated by the EU for potential future Hydrogen supplies by 2030¹⁶





Geopolitics and the need for the EU to secure trusted import partners are driving import demands

North African and Gulf States constitute 4 of the 6 import partners (currently announced export intentions)

The Middle East's geopolitical future is in flux as the US retrenches from the region and China moves in

This mean that Australia has a real opportunity as a trusted supplier

But the economics of transportation are challenging

Also, the infrastructure conversion and/or establishment requirements

ated 2030 LCOH to the Port of Rotterdam ^{23,24}			
Export port	Route	Estimated LCOH by 2030 (USD/kgH2)	Proportion of shipping cost to total LCOH)
Perth	Via Suez Canal	2.49	24%
Gladstone	Via Suez Canal	2.69	30%
Valparaiso	Via Panama Canal	2.06	23%
Casablanca	-	2.19	6%
Mina Al-Fahel	Via Suez Canal	2.28	17%
Jeddah	Via Suez Canal	2.32	14%
Sharjah	Via Suez Canal	2.39	16%

Source: Author's analysis of the different studies identified for hydrogen production in the specified geography and through the use of the HySupply Shipping Analysis Tool.



Australia's hydrogen trace future

Broader implications for our international (trade) relations

How is Australia's production capacity positioned?

According to the State of Hydrogen Report (2022, xiii), not well – it is no longer a global leader

This partly explains the latest budget's \$2 billion hydrogen fund

But this is small change compared to US, EU, and **Chinese subsidies**

Moreover, supply chain bottlenecks could emerge as international demand and competition heat up

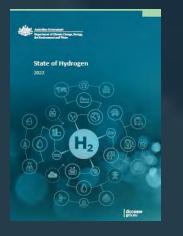
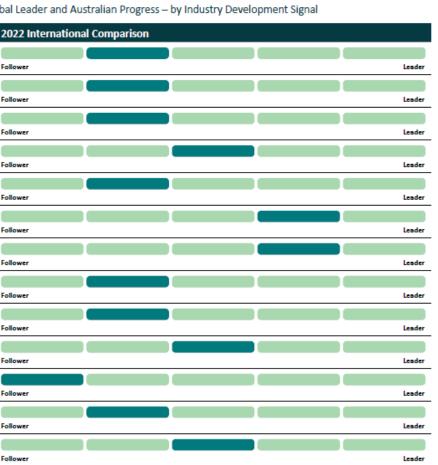


Table 2: Comparison between Glob
Industry Development Signal
Investment
Project Scale
Cost-competitiveness
Australia's exports
Chemical feedstock
Electricity grid support
Mining and off-grid
Heavy transport
Light transport
Gas networks
Electricity generation
Steel and iron making
Industrial heat
(Source: Deloitte, 2022 ²²)





Broader implications for our international (trade) relations

At the global level there is much to do

Develop common global standards, regulations, and certifications

- International methodology for PPM metrics (notably emissions-intensities)
- National standards to translate these into practice
- Mutual recognition of those national standards
- Certifications processes and verification procedures

Develop market models to smooth investment and trade flows

- Contract templates
- Auction procedures
- Spot markets
- Commodity pricing benchmarks linked to emissions-intensities
- In short, there are a variety of "institutional voids" (Khanna and Palepu, 2010)

SG IRENA

GLOBAL HYDROGEN TRADE TO MEET THE 1.5°C CLIMATE GOAL

LOOK FOR 2050 AND WAY FORM





How is Australia positioning in this landscape?

Domestic – **National Hydrogen** Strategy

- Embedded emissions accounting framework
- Hydrogen Guarantee of Origin
- Federal subsidies (etc.)
- States' initiatives
- But: infrastructure and institutional bottlenecks are emerging for renewable energies rollout

Bilateral accords

- Australia-Singapore Green Economy Agreement (GEA)
- Access to US IRA subsidies
- Australia-EU FTA, and bilateral arrangements with Germany
- Sustainability chapters in FTAs

Indo-Pacific Economic Framework

- Pillar 2 (Supply Chain Resilience): Hydrogen roadmap
- Pillar 3 (Clean economy): Details to be seen but likely to build on GEA

Multilateral

- The World Trade Organization's Trade and Environment Structured Discussions
- Interrnational Partnership for Hydrogen and Fuel Cells in the Economy
- IEA, etc.





Questions?



make history.



CRICOS 00123M



Issues and Options for Reforming The World Trade Organization

Presentation to Foreign Trade University, Hanoi 23rd November 2023

Professor Peter Draper Jean Monnet Chair of Trade and Environment Executive Director, Institute for International Trade



Contents



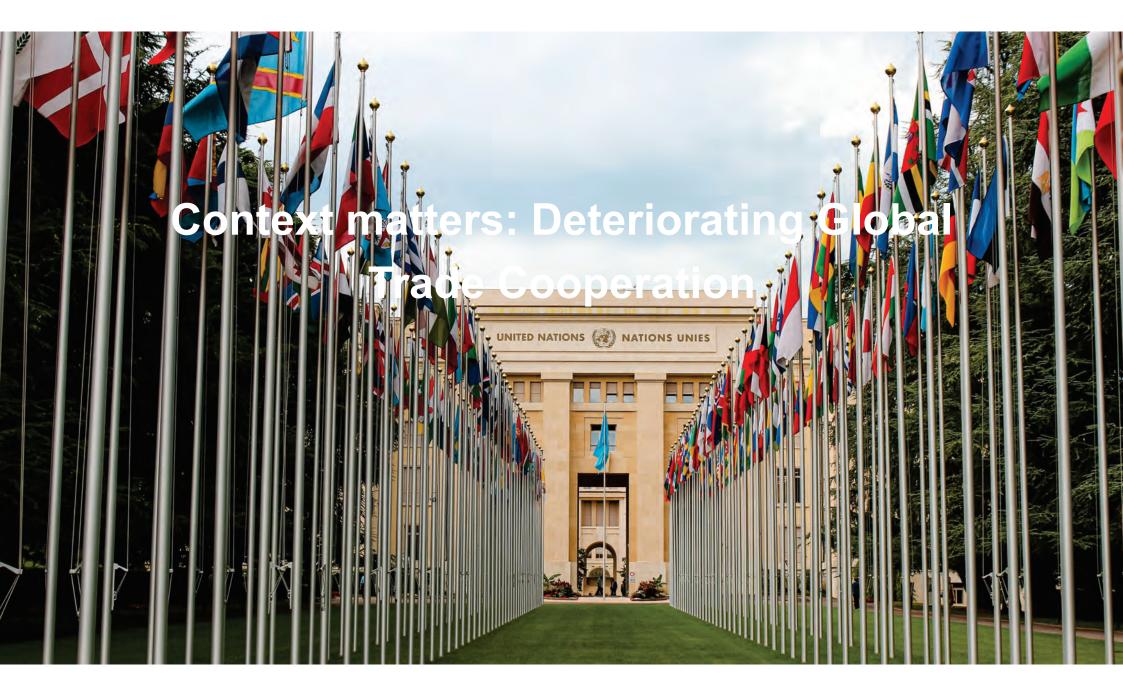
Manifestations in the WTO

Implications for WTO Reforms

The case for plurilaterals

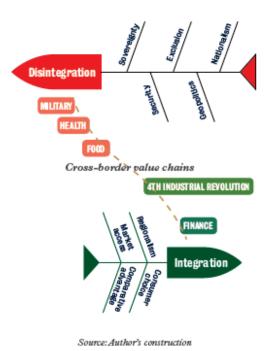
A WTO Reform Agenda

Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or the European Education and Culture THE UNIVERSITY Executive Agency (EACEA). Neither the European Union nor EACEA can be held responsible for them.



Global trade cooperation has been breaking down since 2008

FIGURE 1: CENTRIFUGAL VS CENTRIPETAL FORCES SHAPING GLOBAL TRADE COOPERATION



'The interregnum': Global Financial Crisis and Doha round failure

- Rise of the BRICS, and the rest
- Growth of populism, especially in the West
- Stalling, reversal, of China's economic reforms
- Donald Trump in the US

Era of geopolitical contestation

- 'Trade wars'
- 'Geopolitical' EU Commission
- China-India (et al) tensions and "de-risking"
- Re-emergence of strategic trade and industrial policies



COVID-19 accelerated these trends

The (very) human impulse to protect one's own meant:

Severe international trade disruptions



- Aggravated by export restrictions, partially balanced by some import liberalization
- Offset by growth in IT-enabled services highlighting the importance of data-flow rules
- Enormous financial transfers in G20 countries
- Intensification of geopolitical competition ('vaccine diplomacy')
- Intensification of value chain 'resilience' debate



Then the Russian invasion of Ukraine

In geopolitics, cementing of western alliances to confront 'authoritarian powers'

• Most immediately Russia, but after the G7 and NATO Summits China too

An unprecedented western sanctions campaign against Russia

- And Russian (energy sector) responses
- Adding to the Russian blockade of Ukrainian grain exports and global food inflation

Fuelling worldwide inflation already in train in the aftermath of COVID 19

- Central Banks' responses have raised the prospect of recession, at a time of huge financial imbalances
- · Adding further populist pressures into the policy mix in many countries

These drivers have led to an intensification of negative views towards global value chains

 Critical minerals; 'friend-shoring'; 'open strategic autonomy' as examples of manifestations







Manifestations in the WTO



Case-study 1: Export controls



- The US, China, and developed markets export controls battle
- Other developing countries are playing the game too (agriculture; key resources)
- Generating a self-perpetuating downward disintegration spiral
- Can integration forces contain the slide?
- Difficult when global public discourse about value chains is negative
- What is the WTO's role?



Case-study 2: Digital policy

The digitalisation of international business has opened a big regulatory gap

No country can afford to exclude itself from digital trade flows

But many are imposing barriers, from storing data locally to cloud access

Some want to tax data flows

The negative growth impacts may exceed benefits

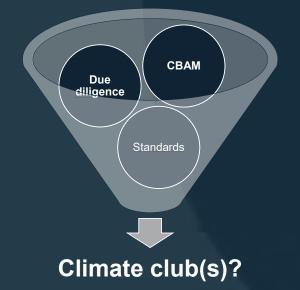
And contribute to global trade fragmentation

'Deepening digital regulatory heterogeneity risks fragmentation of digital markets, to a point of no return'



Case-study 3: Sustainability

A lot is going on outside the WTO



If the WTO (and its members) do not respond its relevance will decline But how to respond?



Implications for WTO Reforms



A reminder: Process matters

Formulate new **Objectives**

rules Promote market access

Single undertaking Approaches (inclusive 'rounds')

Plurilaterals

- Inclusive (MFN; 'critical mass')
- Exclusive (limited to members – eg Government Procurement Agreement)

Consensus Decision-making Allowance for majority voting (rarely invoked)





Coalitions in WTO negotiations

Coalitions amplify states' bargaining power in multi-country negotiations Two types of inter-government coalitions:

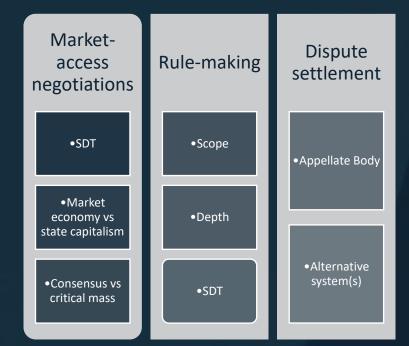
- Issue-specific, eg: Cairns group (agriculture market access); NAMA 11
- Common characteristics, eg: Africa group; G90

Many other actors organize across borders in order to influence governments Bewildering <u>array</u> makes negotiations very complex, and time consuming Partly explaining why some countries look outside the WTO



Before COVID-19 WTO reform was baffling

- Multilateral accords stalled before COVID-19
- Some signs of life, notably the 'Joint Statement Initiatives', especially 'e-commerce'
- Reform debates center on:
 - Special and differential treatment for 'developing' countries (SDT)
 - Accommodating (or not) 'state capitalism', e.g. industrial subsidies
 - Decision-making modalities: multilateral vs plurilateral
- Members are sharply divided; progress is challenging
- Limited progress at the last Ministerial Conference
- Likely even less progress at the next MC





The case for plurilaterals

Why do we need plurilaterals?

Despite MC12's partial fisheries subsidies success WTO negotiations lag real world needs

How else to progress new rules and retain the WTO's relevance?

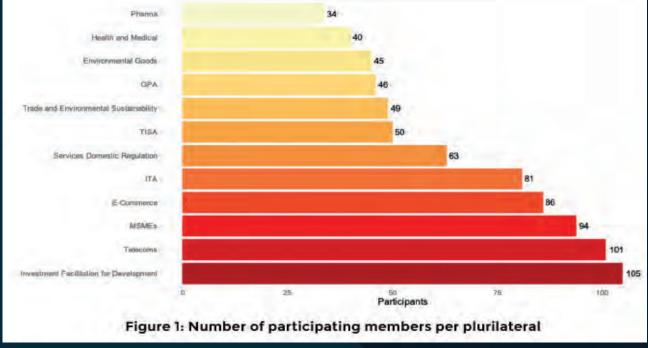
Multilateral rules support domestic reforms and prevent backsliding

Not everyone has to sign up, nor should anyone be excluded - WTO à la carte

The challenge is to meaningfully incorporate as many members as possible without compromising their interests



Which plurilaterals?



Source: Akman et.al, T20 Policy Brief, 2021



Who participates?

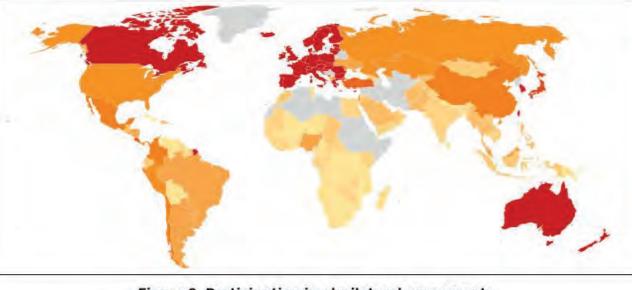


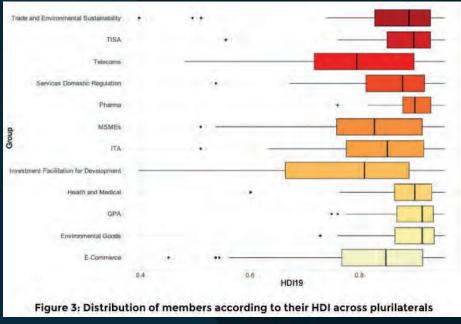
Figure 2: Participation in plurilateral agreements and ongoing negotiations per member

Source: Akman et.al, T20 Policy Brief, 2021

- Primarily OECD economies
- LDCs, Africa, South Asia notably absent



Participation by development status



Source: Akman et.al, T20 Policy Brief, 2021

- Lower income economies primarily interested in Investment Facilitation for Development
- Yet not in related services domestic regulation, health and medical, or MSMEs
- Capacity problem? Suspicion? These JSIs are very much in those countries economic and social interests





Ideally, it would consist of two broad tracks

Plurilateral negotiations to

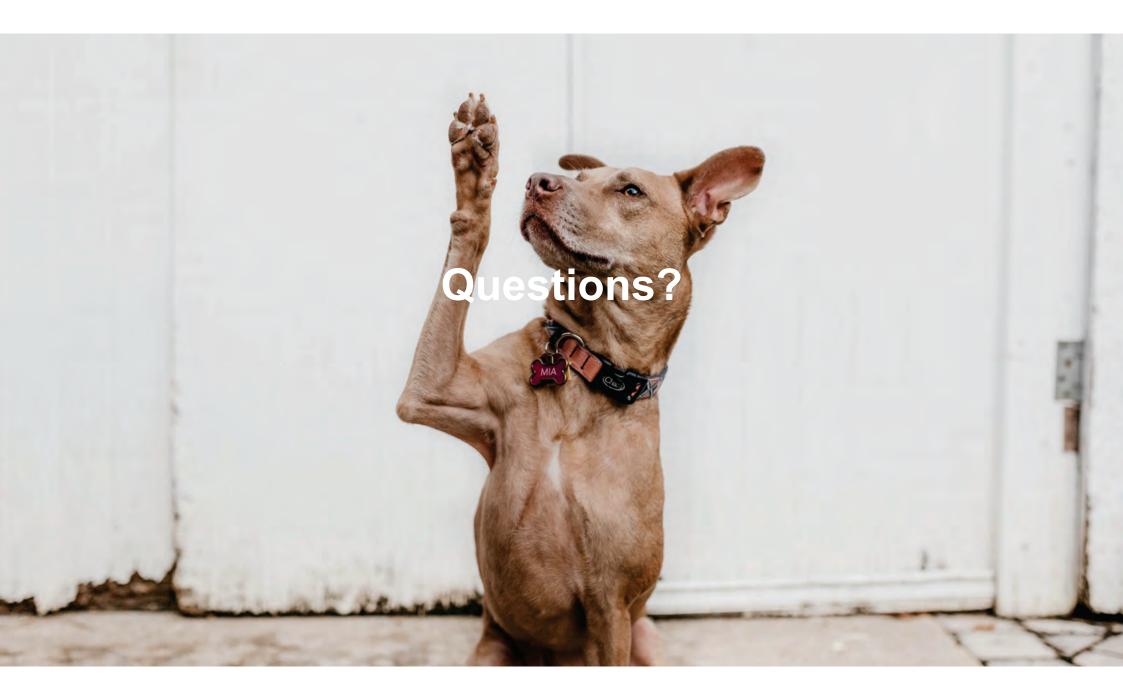
- Reduce and/or eliminate import duties for critical health equipment, pharmaceuticals, and related inputs necessary for these cross-border value chains to function as smoothly as possible during pandemics
- Related clarifications of '**essential**' goods and services and accords to govern their trade during health crises
- Contain, manage, and condition potential harmful impacts of **subsidisation** of domestic firms

Multilateral negotiations to

- Tighten the conditions under which the GATT's **exceptions clauses** could be accessed
 - Export restrictions
 - National security
- Condition access to SDT
 - Transparent and objective graduation criteria
 - Linked to AFT provision, whether embedded in multilateral or plurilateral accords
- Restore the Dispute Settlement Mechanism
 - Procedural reforms
 - A functional second-tier

And strengthening the WTO's role as a deliberative forum through Ministerial Conference reform









The future of EU trade policies and strategies in a militarized environment

Presentation to the Shanghai Institutes of International Affairs 7th November 2023

Professor Peter Draper Jean Monnet Chair of Trade and Environment Executive Director, Institute for International Trade And Rolf Langhammer Formerly Vice-President, the Kiel Institute for the World Economy





Co-funded by the European Union

Overview

Quo Vadis "Open Strategic Autonomy"?

The EU's Trade Policy and Strategies in the "Roaring Twenties Reloaded"

Concluding thoughts and speculations

Implications for Others

Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or the European Education and Culture Executive Agency (EACEA). Neither the European Union nor EACEA can be held responsible for them



KING PAPER 11

The future of EU trade policy and strategies in a militarised environment

Institute for International Trade



Quo Vadis "Open Strategic Autonomy"?

What is Open Strategic Autonomy?

How has it changed since the Russia-Ukraine War?

What is Open Strategic Autonomy?

"Strategic autonomy" originates from the security world

"Openness" relates to trade and promotion of a rules-based system

Clearly there are tensions between the two





Why was it introduced?

Deteriorating geopolitics

- And increasing resort to unilateralism
- As well as US commitment to European security (the Trump factor)

Domestic economic policy imperatives

- Particularly relating to the green and digital transitions
- But also the need to respond to COVID 19 and guard against future pandemics

Emergence of new growth poles

• Some with diverging governance models

To better manage inclusion challenges associated with globalization of value chains

- Meaning the rise of populism within the EU
- And "levelling the playing field"



What does "openness" mean?

Specifically, trade and investment

- Emphasising sustainability and EU leadership thereof (the well-known "Brussels effect")
- Resistance to unfair and coercive trade practices
- Reviewing strategic dependencies in "the most sensitive industrial ecosystems"

And four policy anchors

- WTO reform and support for
- Levelling the playing field
- Adopting an anti-coercion instrument

multilateral sustainability initiatives Rebuilding transatlantic partnership and diversifying dialogue partners



"Cooperating multilaterally where we can, acting autonomously where we must"

In other words, a decisive shift to unilateralism to protect EU values and economic interests

Or, to use a fashionable theoretical construct: Geoeconomics

Which has a long intellectual tradition (Hirschmann, Gilpin, etc.)

And is not new – consider US trade policies towards Japan ("aggressive unilateralism")

The EU is caught between two major economic powers increasingly resorting to unilateralism

And like other states needs to manage its dependencies/vulnerabilities





How has it changed since the Russia-Ukraine War?

Prior to February 2022 China was the focus: "Partner, competitor, strategic rival"

- <u>Partner</u>: Solving common economic problems while buttressing the rules-based system ullet
- Competitor: Curtailing "unfair" competition domestically and abroad through ightarrowleveraging the EU market, investing in strategic technologies, reducing dependencies
- Strategic rival: Values-based competition (Xinjiang; Lithuania; due diligence) and "IndoulletPacific["] strategies

Since February 2022,



The EU's Trade Policy and Strategies in the "Roaring Twenties Reloaded"

The demographics, de-carbonization, and digitalization challenges Implications for the EU's trade policy The EU and WTO reforms



The demographics, de-carbonization, and digitalization challenges





Implications for the EU's trade policy





The EU and WTO reforms



Concluding thoughts and speculations







Implications for Others







make history.



CRICOS 00123M