

Addressing Economic Distortions in the Indo-Pacific: The Role of Industrial Subsidies and State-owned Enterprises

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Why do we care?

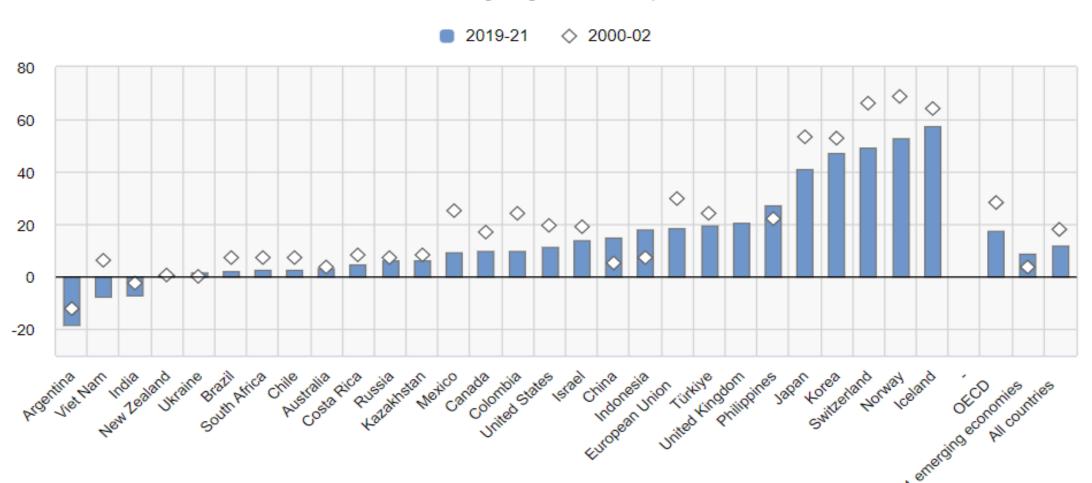
- Level playing field and distortions to competition (beggar-thy-neighbour)
- Encourages investment in capacity that not otherwise built, or keeps uneconomic capacity alive (with effects on prices, jobs)
- Impacts on important social and economic goals (governance, environment)
- Undermines faith in global markets and a fair global economy
- Support is a growth industry.....and is hard to reform



Government support is hard to reform

Producer Support Estimates by country, percentage of gross farm receipts, 2000-02 and 2019-21

Percentage of gross farm receipts





The landscape is changing for government support

Lots of reasons for a bigger role for the state

(i) Significant – essential -- support in COVID-19.

- Design matters how you go in affects how/if you come out
- How you go out also matters loan guarantees, tradable sectors

(ii) Resilient supply chains

- Role of state increasing, especially on essential goods
- Incentives to companies for diversification

(iii) National security/geopolitics

- Tech, dual use and concentration concerns
- Countries with different economic (and political) systems

(iv) Green and digital transformations

- Public investments needed – however, need to target market failures



UNDERSTANDING GOVERNMENT SUPPORT



Government support takes many forms

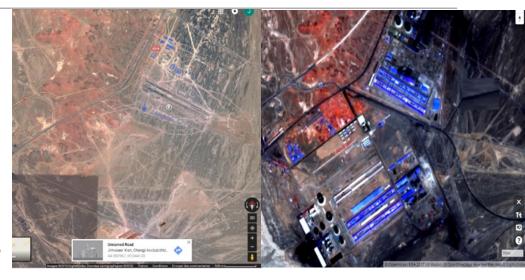
		Statutory or Formal Incidence (to whom and what a transfer is first given)						
		A: Output	B: Enterprise					
		returns income		intermediate inputs	D: Labour	E: Land and natural resources	F: Capital	G: Knowledge
Transfer Mechanism (how a transfer is created)	1: Direct transfer of funds	Output bounty or deficiency payment	Operating grant	Input-price subsidy	Ç ,	Capital grant linked to acquisition of land	Grant tied to the acquisition of assets	Government R&D
	2: Tax revenue foregone	Production tax credit	Reduced rate of income tax	Reduction in excise tax on input	social charges	Property-tax reduction or exemption		Tax credit for private R&D
	3: Other government revenue foregone		Waiving of administrative fees or charges	Under-pricing of a government good or service		access to	Debt forgiveness or restructuring; soft loan from the government	transfer of
	4: Transfer of risk to government	Government buffer stock	Third-party liability limit for producers		occupational	Credit guarantee linked to acquisition of land	Loan guarantee; non-market debt- equity swaps and equity injections	
	5: Induced transfers	Import tariff or export subsidy; LCRs	Monopoly concession	Monopsony concession; export restriction	Wage control	Land-use control	` 1 //	Deviations from standard IPR rules



Understanding support in industrial sectors is challenging

Work to date

- Commodity (aluminium)
- High-tech sector (semiconductors)
- Below market finance (horizontal)
- Ongoing work on rolling stock, energy inputs, SOEs

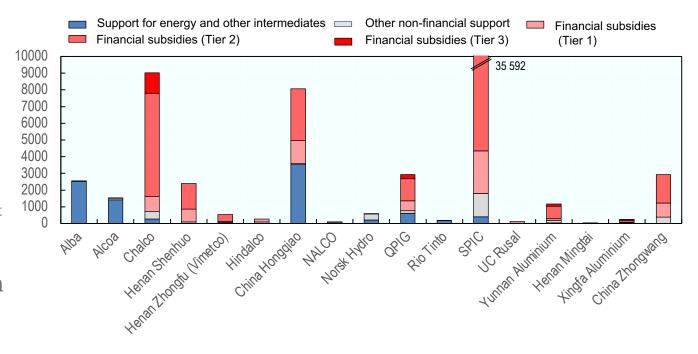


- To assess government support in industrial sectors, we looked at individual firms:
 - Necessary given lack of policy transparency
 - Enables greater granularity (e.g., of subnational measures)
 - Enables identification of support beyond traditional forms (e.g., below market finance)



What did we learn? Aluminium

- Support upstream can have sizable effects downstream.
 - Need to take a value chain approach
- Support mostly takes the form of energy subsidies and below-market financing.
 - Below-market financing is hard to measure but even conservative estimates suggest it is significant. (USD 7-56 billion)
 - Aluminium multinationals obtain support in the different countries in which they operate, but large SOEs get most support from their home countries.
- There is **strong involvement of the state** in the aluminium value chain, and SOEs are both recipients and providers of support:
 - > SOEs account for almost half of all smelting capacity
 - Cheap finance (debt) is often delivered through stateowned financial institutions
 - > Issues for transparency

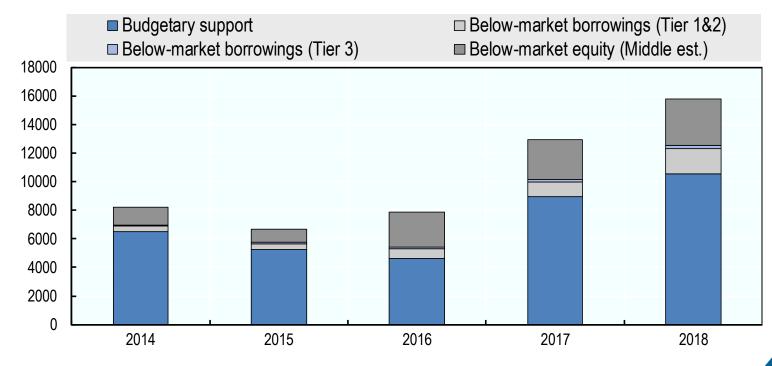




What did we learn? Semiconductors

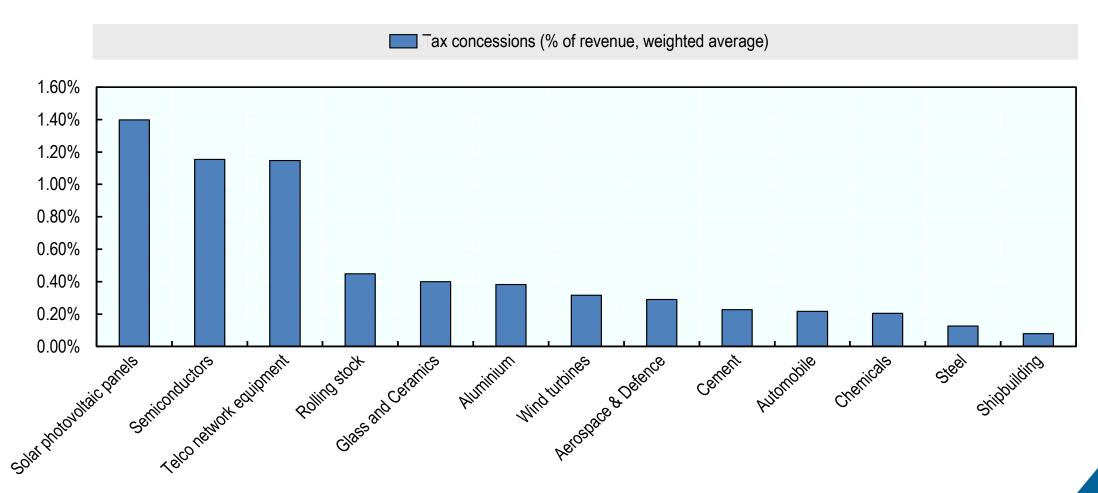
- R&D subsidies are significant
 - But do they work in hightech sectors?
- Below market finance significant: loans (debt), but also equity
 - Hard to measure equity
 - Not just one off benefit
- How to treat government ownership in firms?
 - SOEs vs government invested firms

21 Semiconductor Firms received USD 50B over 2014-18





Tax concessions are relatively larger in tech-oriented sectors and solar panels



Note: Data are expressed relative to the sales revenue of the firms covered in the study over the period 2005-19.

Source: OECD

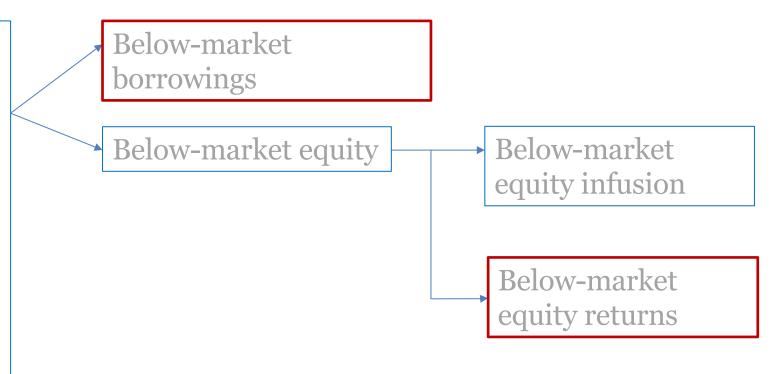


What did we learn? Below market finance

Support measures:

- Below-market finance
- Grants
- Tax concessions
- Below-market inputs
- Below-market energy

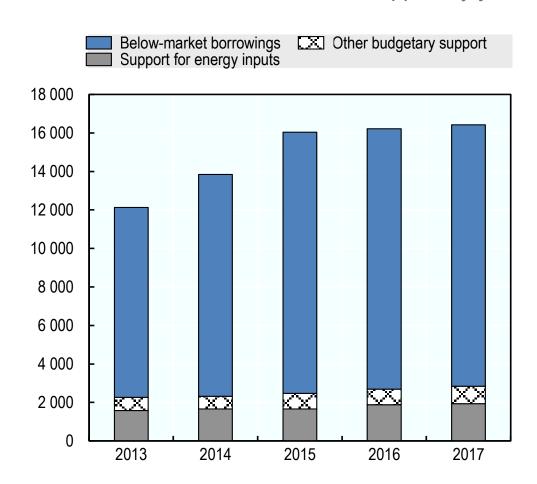
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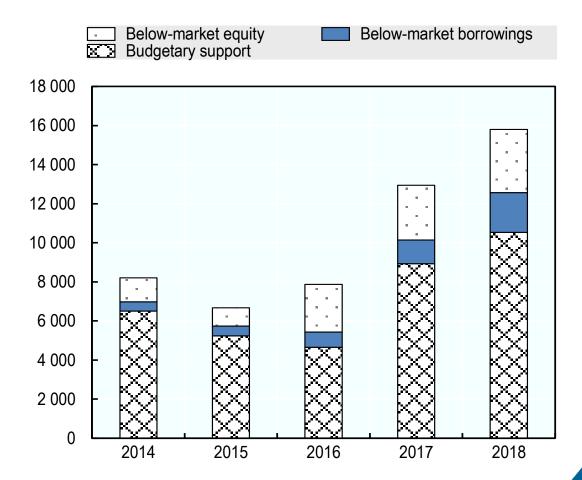




Below-market finance is a large source of support in aluminium (left) and semiconductors (right)

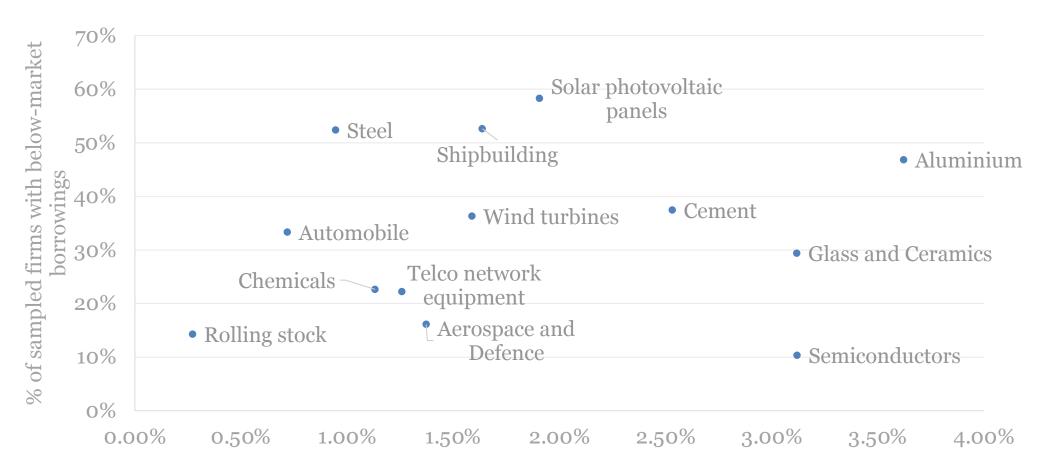
Government support by year and type of support, USD millions, current







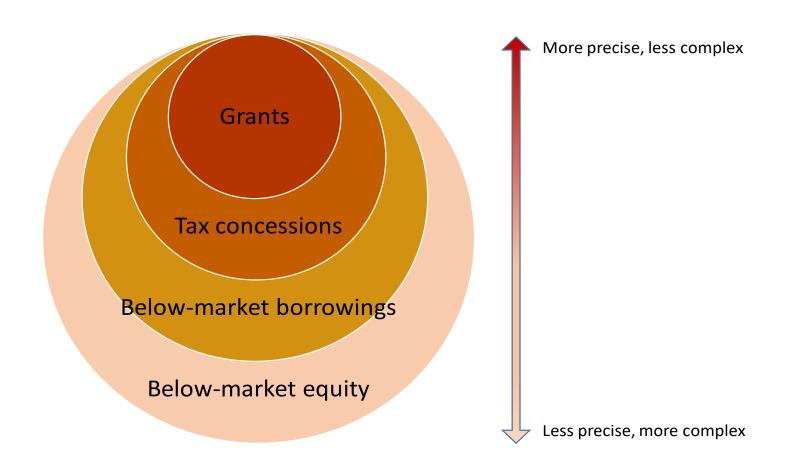
Below-market borrowings appear especially marked in industries with excess capacity



Below-market borrowings in % of revenue, sectoral average of benefitting firms only



Support estimates differ in precision and complexity





Understanding impacts is a further challenge

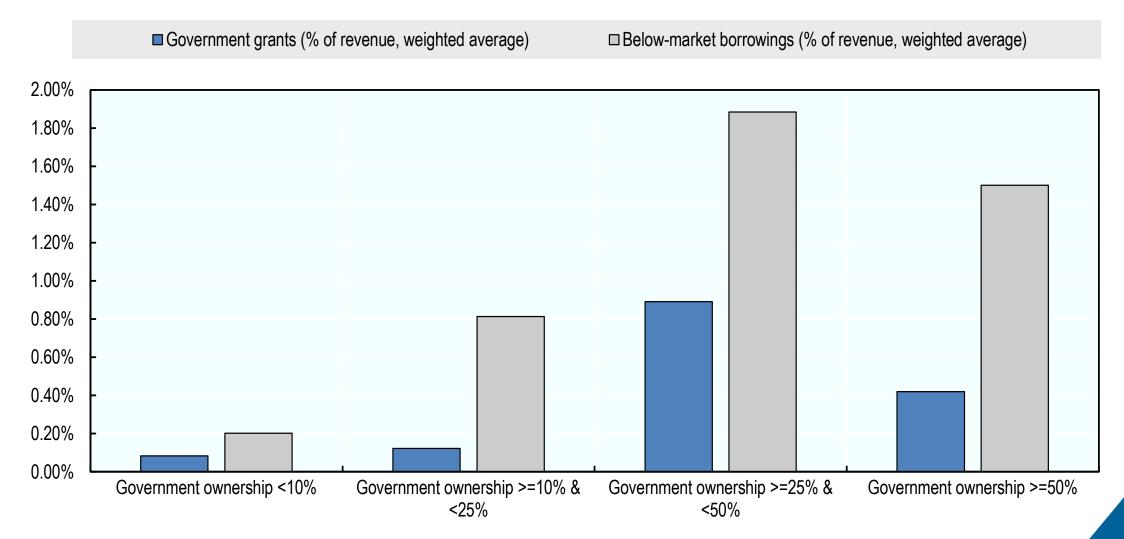
- Support builds along value chains
 - Attribution of benefit (downstream and upstream)
- Interacts with other government policies
 - E.g., export restrictions lower input costs
- Interactions among different forms of government support
 - Cheap inputs enhances profitability, masks below market equity or loans
- Technically challenging
 - Market benchmarks
 - Causality vs correlation



THE ROLE OF THE STATE: SOE AND SE



Government-invested firms tend to benefit more from support





Governments own a large share of assets in certain sectors

Sector	Total book value of assets in 2018 (USDmn)	Percentage of assets held by governments
Aerospace and Defence AERO	860,335	28.9%
Aluminium ALUM	446,126	55.5%
Automobile AUTO	3,234,765	13.4%
Cement CEMT	393,035	15.2%
Chemicals CHEM	1,354,185	19.9%
Glass and Ceramics GLAS	140,675	0.4%
Rolling stock TRAN	140,527	20.4%
Semiconductors SEMI	961,208	7.0%
Shipbuilding SHIP	208,166	67.4%
Solar photovoltaic panels SOLA	44,225	5.5%
Steel STEE	823,348	44.0%
Telecommunications network equipment TELC	374,598	4.1%
Wind turbines WIND	82,376	6.1%



State ownership per se is not necessarily a problem

- Transparency is key, but also oversight
 - Parliamentary oversight
 - Public accountability, checks & balances

- And adherence to **good governance practices**
 - Regulatory requirement for competitive neutrality
 - Disclosure and auditing rules
 - Clear separation when involved in commercial activities
 - State support is different from public service obligations



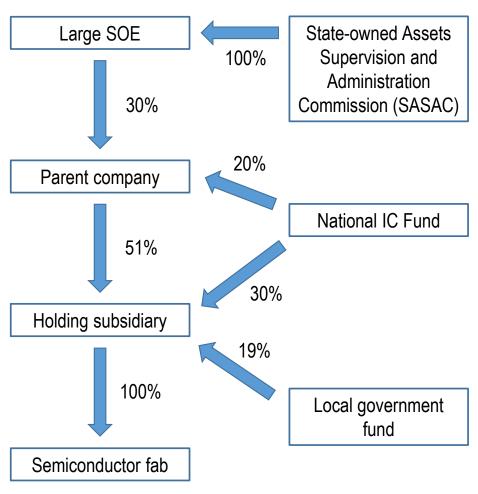
But state ownership can be the channels for support

- Government invested firms are both important recipients and providers of support
- In both cases, starts below the "majority ownership" concept of an SOE
- Different definitions of SOEs at national level
 - Often 50% or majority ownership, but also other factors
 - Size, but also golden shares, Board appointees
 - But also more difficult aspects to capture like influence
- We use the concept of "state enterprise"

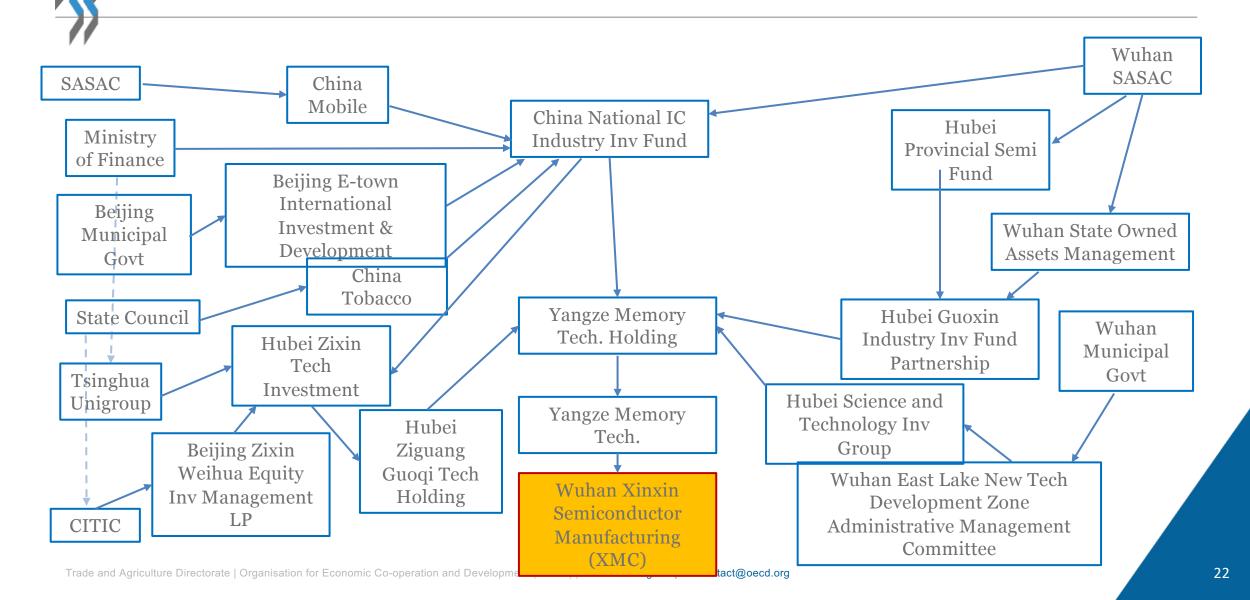


An important challenge is knowing where the state is

Stylised ownership structure of new semiconductor fabs in China, % of shares



OECD An important challenge is knowing where the state is





Why do we need to know where the state is?

- Lack of transparency masks government support by giving appearance of regular commercial transactions
- State investment is the plumbing through which a range of support can flow
 - Grants, loans, equity
 - But also less direct benefits (information, competitors self-censor)
- Other reasons, e.g.,
 - National security FDI screening, M&A
 - Market distortions (e.g., under-pricing in internationally competitive tenders, M&A bids)
 - Economic coercion (unwritten instructions)
 - Forced tech transfer



WHAT CAN WE DO ABOUT GOVERNMENT SUPPORT?

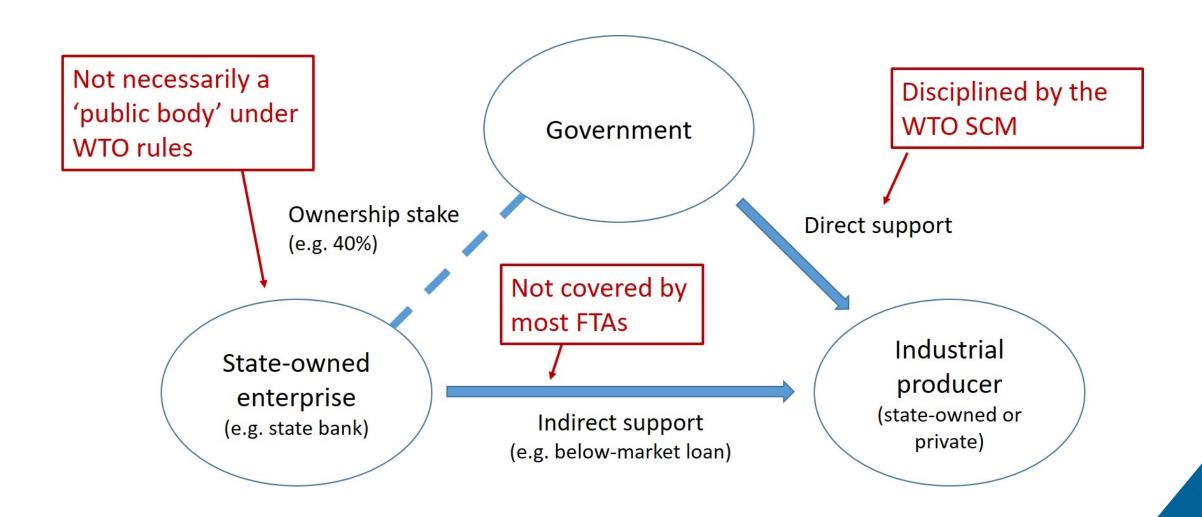


Government support is best addressed multilaterally

- Reform of government support requires 4 interconnected things
 - -Transparency (what's going on)
 - Predictability (lock in, baseline)
 - Reduction (starting with the most egregious)
 - Prevention (tomorrow's subsidisers in tomorrow's sectors)



WTO: fix the gaps in the rules...and make them usable





Transparency is the key first step

- WTO notifications how to improve?
 - Link to wider transparency discussions
 - Role for WTO Secretariat? Other IOs?

Mind the gaps

- Government ownership of companies: need more information on where the state is
- Below market finance agreement, benchmarks

Leverage non-government sources of information

- Accounting standards
- Company disclosure for listing or procurement bids



All multilateralism is local

- Need to make the domestic case for global policy reform
- Government support can be self-defeating
 - International competition
 - Subnational competition
 - Impacts on productivity
 - Negative correlation to cheap loans
- Is support achieving its claimed objectives and at what cost?
 - Who pays, who benefits?
- Opportunity costs for scarce public resources
 - Investments in the public interest (education, infrastructure including digital, health systems)



Thank you – and contact us

We look forward to hearing from you!



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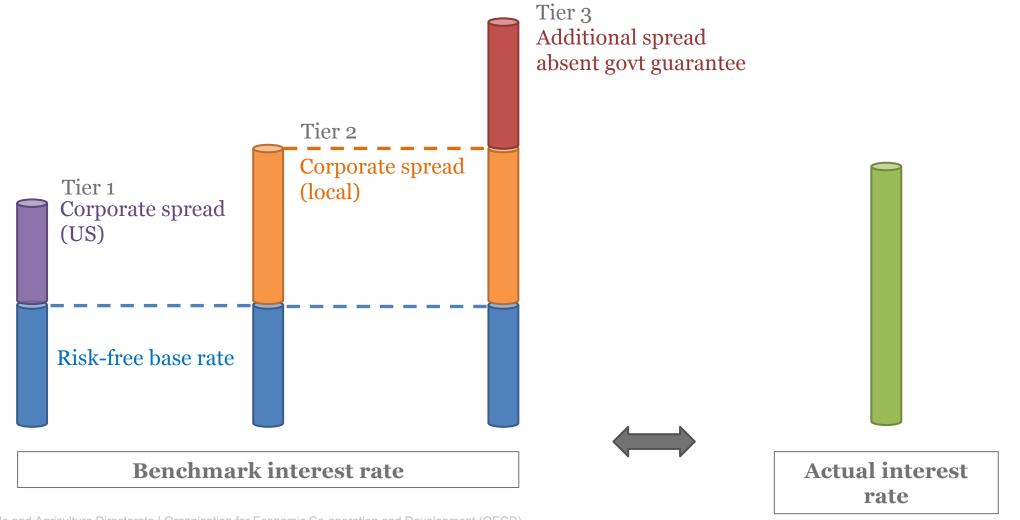
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Estimating below-market borrowings





Estimating below-market equity returns

