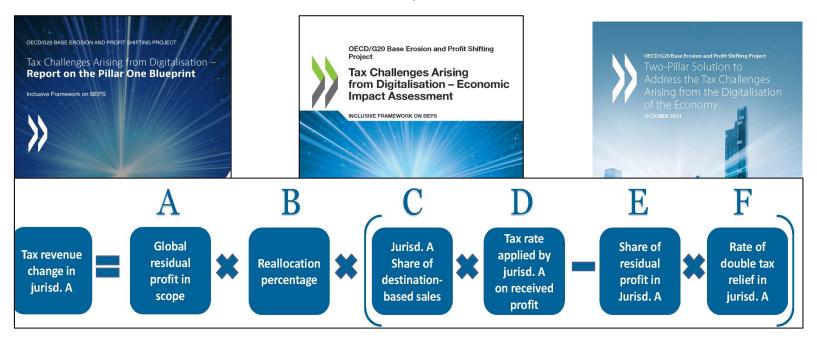
AMOUNT A: MEASUREMENT AND TAX IMPACTS Lorraine Eden

Professor Emerita of Management and Research Professor of Law Texas A&M University, College Station, TX

"The Realignment of Taxing Rights in the Digital Economy: Impacts and Challenges" American Bar Association Tax Section Transfer Pricing Committee Oct 19, 2021



THE AMOUNT A JOURNEY: OCT 2020 to OCT 2021....

OECD RELEASES BLUEPRINTS OCT 12, 2020



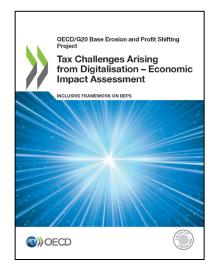
Research Questions Economic Impact Assessment (EIA) of Pillar One Amount A





- 1. Assess the estimates of Amount A in the EIA
- Dissect the "simple analytics" of the Amount A formula
- 3. Provide finer grained estimates of winners and losers from Amount A than in the EIA
- Explore the types and probabilities of "tax games" that Governments and MNEs could use to affect Amount A

Amount A through the Lens of the EIA....One Year Later



1. Eden, Lorraine. 2020. Leap of Faith: The Economic Impact Assessment of the Pillar One and Pillar Two Blueprints. *Tax Management International Journal*, 49 (Dec. 11). <u>https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3743054</u>

2. Eden, Lorraine. 2020. **Winners and Losers**: The OECD's Economic Impact Assessment of Pillar One. *Tax Management International Journal*, 49 (Dec. 11). <u>https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3743059</u>

3. Eden, Lorraine. 2021. Pillar One Tax Games. *Tax Management International Journal*, 50 (Jan 4). <u>https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3758671</u>

4. Eden, Lorraine. 2021. **Canada and the United States: Winners or Losers** from Pillar One Amount A? *Tax Management International Journal*, 50.3 (March): 143-147. <u>https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3800026</u>

5. Eden, Lorraine. 2021. The **Simple Analytics** of Pillar One Amount A. *Tax Management International Journal*, 50.3 (March): 137-143. <u>https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3800017</u>

6. Eden, Lorraine. 2021. Winners and Losers: U.S. Country and Industry Estimates of Pillar One Amount A. *Tax Management International Journal*, 50.5 (May): 222-243. <u>https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3841813</u>

7. Eden, Lorraine. 2021. **Taxing the Top 100**: U.S. Estimates of Winners and Losers from Pillar One Amount A. *Tax Management International Journal*, 50.6 (June): 301-317. <u>https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3862062</u>

Research Questions Economic Impact Assessment (EIA) of Pillar One Amount A



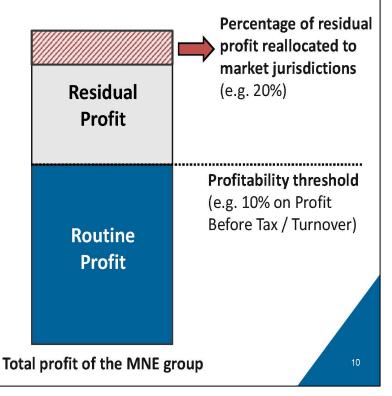


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Research Question 1 How Did the EIA Estimate Amount A?

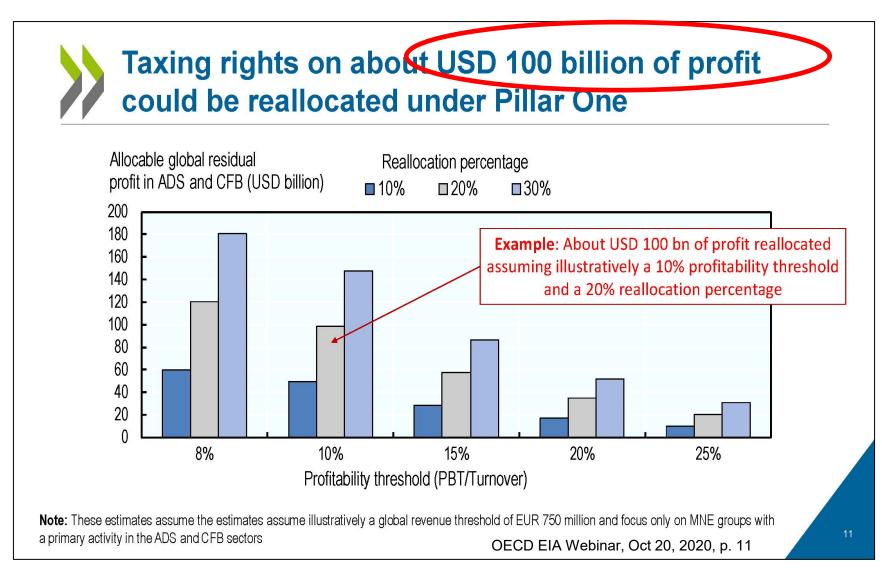
Pillar One would reallocate a percentage of residual profit to market jurisdictions

- Amount A would involve significant changes to current tax rules (e.g. going beyond physical presence)
- Amount A could lead to a substantial reallocation of taxing rights across jurisdictions (e.g. taxing rights on about USD 100 billion of profit could be reallocated)
- Only Amount A was modelled. The effect of Amount B and the Tax certainty component of Pillar One is expected to be small at the global level, but it could be significant in some jurisdictions



Source: OECD EIA Webinar (Oct 20, 2020) p. 10

EIA Estimate of Global Tax Base Reallocated by Amount A



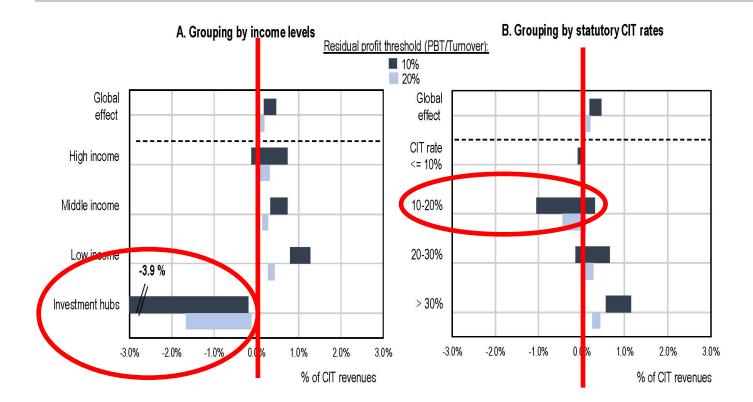
OECD Summary of Pillar One Amount A

Combined revenue effects of Pillar One and Pillar Two at the global level

Estimated glob	al tax revenue gains	In % of global CIT revenues	In USD billion				
Pil	lar One	0.2%-0.5%	5-12				
	Direct revenue gains	0.9%-1.7%	23-42				
Pillar Two	Additional gains from reduced profit shifting	0.8%-1.1%	19-28				
	Total Pillar Two	1.7%-2.8%	42-70				
Total Pillar O	ne and Pillar Two	1.9%-3.2%	47-81				
US GI	LTI regime	0.4%-0.8%	9-21				
Total, in	cluding GILTI	2.3%-4.0%	56-102				
te: The estimates in this table are based on illustrative assumptions on the design and parameters of Pillar One and Pillar Two.							

Source: OECD EIA Webinar (Oct 20, 2020) p. 8

Pillar One estimated revenue effects By jurisdiction groups



Note: These estimates assume illustratively a EUR 750 million global revenue threshold, a profitability threshold (based on PBT to turnover) of 10% or 20%, a reallocation of 20% of residual profit to market jurisdictions, a EUR 1 million nexus revenue threshold for ADS and a EUR 3 million nexus revenue threshold for CFB. Groups of jurisdictions (high, middle and low income) are based on the World Bank classification. Investment hubs are defined as jurisdictions with a total inward FDI position above 150% of GDP.

Source: OECD EIA Webinar (Oct 20, 2020) p. 12

Economic Impact Assessment: A Leap of Faith

• **Herculean Task**: High-quality econometric analysis built on available data, guesstimates and extrapolations for missing observations and policies.

Data problems

- Estimates use one year 2016 (pre-TCJA)
- Data available for subset used to estimate all jurisdictions (e.g., CFB data for 16 used to estimate 222)
- All jurisdictions assumed to have minimum number MNEs so GIDS (component C in formula) is positive
- Outliers excluded from some GIDS calculations (e.g., Hong Kong, India)
- Amount B left out of Amount A estimates.

Assumptions

- Excessively Optimistic re Amount A and Pessimistic re Alternative
- All Market jurisdictions receive 100% tax relief on their share of Amount A
- 100% compliance by all jurisdictions (no defections, no tax games)
- No strategic responses by MNEs
- Counterfactual is "worst case" scenario of proliferation of DSTs & international tax war

Economic Impact Assessment: A Leap of Faith (cont'd)

- "[T]here was "no consensus over whether or not jurisdiction-specific estimates should be publicly released" (EIA, p. 19) so only aggregated results for 222 jurisdictions (HI, MI & LI Countries and Investment Hubs) were published. Nor were estimates published for firms or industries.
- Tax authorities that requested access to the figures were provided on a "confidential and bilateral basis" (i.e., OECD to tax authority) with *the country's own* results, *not* all the data or empirical work or results. "Revenue estimation tools" where a tax authority could vary the percentages and "estimate the impact on tax revenues in their jurisdiction" were also provided (EIA, p. 21).
- Conclusion: Blueprints introduce huge change to international tax rules without a full impact analysis - either by jurisdiction or by industry – being released to policymakers. How can policymakers engage in successful evidence-based policymaking without the evidence?
- Conclusion: The EIA estimates, especially for Amount A, require a leap of faith.
- Question: Might there be a way to provide more fine-grained estimates?

Research Questions Economic Impact Assessment (EIA) of Pillar One Amount A





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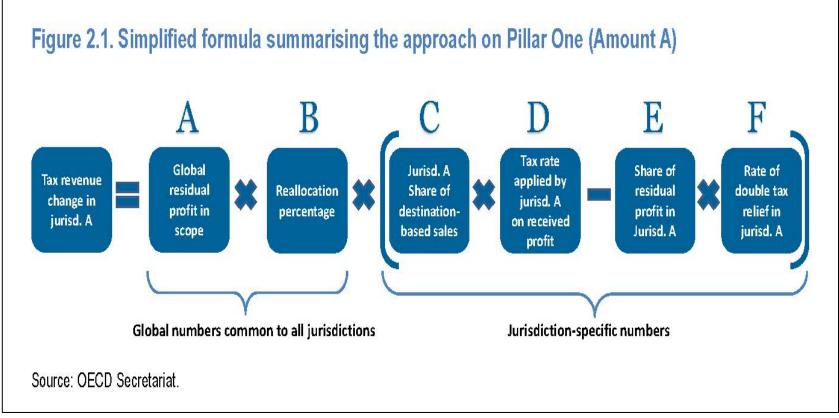
Research Question 2: How Does the Amount A Formula Work?

1. Pillar One Tax Games.

https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3758671

- 2. The **Simple Analytics** of Pillar One Amount A. <u>https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3800017</u>
- Winners and Losers: U.S. Country and Industry Estimates of Pillar One Amount A. <u>https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3841813</u>
- 4. Taxing the Top 100: U.S. Estimates of Winners and Losers from Pillar One Amount A. See the Appendix, pp. 17-18. <u>https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3862062</u>

Formula used by EIA to Estimate Amount A at Jurisdiction Level (Winners & Losers)

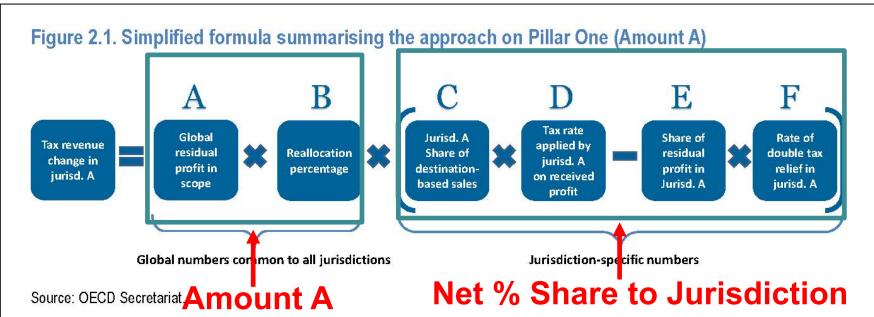


Source: EIA Oct. 12, 2020, page 29) and OECD EIA Webinar (Oct 20, 2020, p.35).

Pillar One Amount A Formula

Jurisdiction J's Net Tax Revenue Gain/Loss =

(A * B) * [(C * D) – (E * F)]

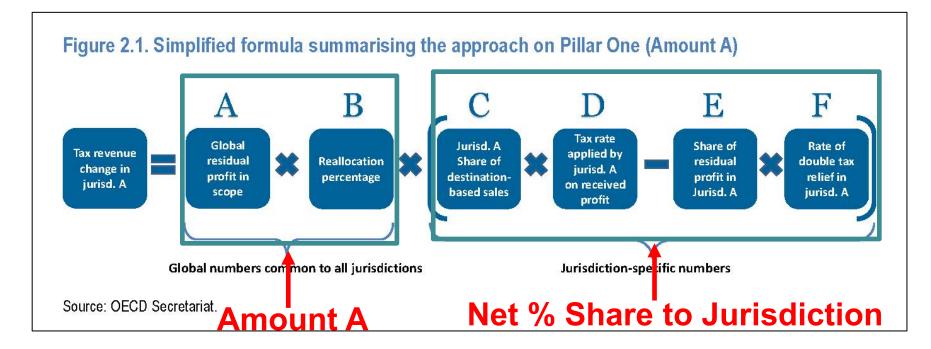


Components **A** and **B** in the formula are **global numbers** that are identical for all tax jurisdictions. Components **C**, **D**, **E**, and **F** are jurisdiction-specific variables that vary for each jurisdiction depending on its roles as a Market jurisdiction (C **x D**) and as a Residence and/or Source jurisdiction (E x F).

(1)

Insight #1: Raising/Lowering A or B Raises/Lowers Amount A

J's Net Tax Revenue Gain/Loss = (A*B) * [(C*D) – (E*F)]



In-Scope? Global Profit? Residual Profit Threshold? Allocation Percent?

Source: OECD *Economic Impact Assessment* (Oct. 12, 2020, page 29).

Calculating Amount A = Component A * Component B

- A = Global Residual In-scope Profit (GRIP) of the MNE group
- B = Reallocation Percentage

Amount A



Amount A = A * B = $[\Sigma P * (1 - RPT)] * B$ where ΣP = Global In-Scope Profit

B (Reallocation Percentage, sets % of GRIP shifted to Market Jurisdictions, 10% or 20%, now 25%)

A (Global Residual In-Scope Profit, GRIP)

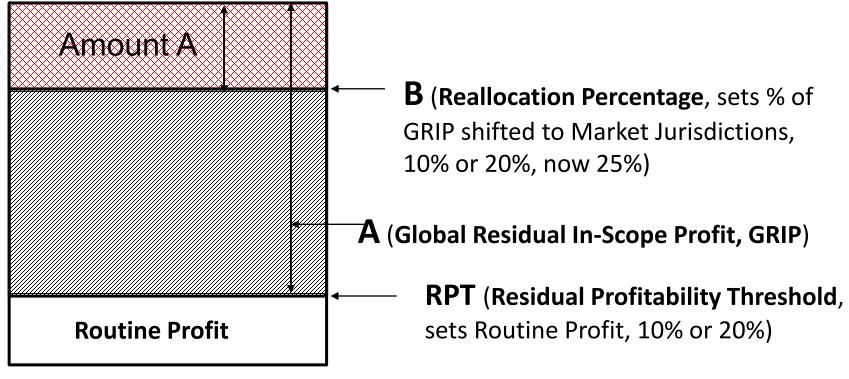
RPT (Residual Profitability Threshold, sets Routine Profit, 10% or 20%)

Global In-Scope Profit of the MNE Group

Routine Profit

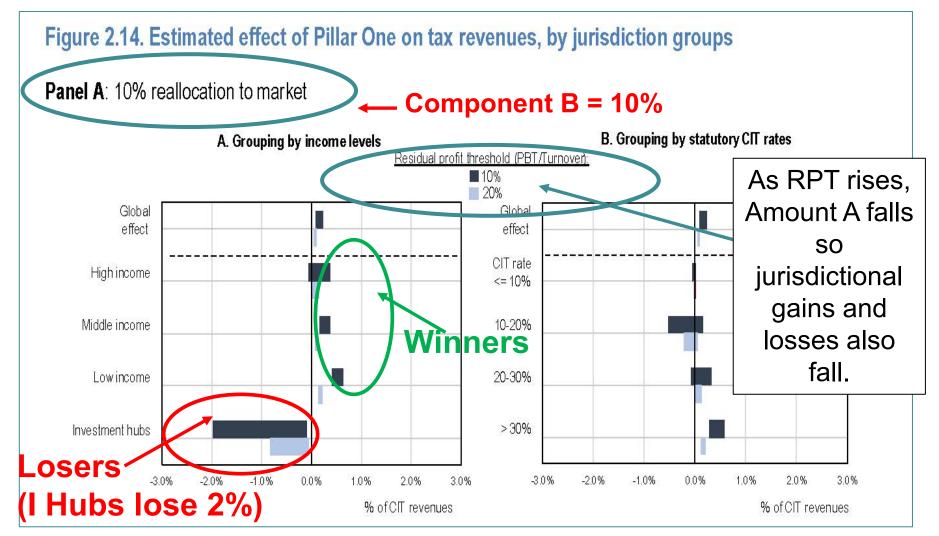
Ways to Raise/Lower Amount A (the "New Taxing Right")

- Definition of in-Scope? Definition of Global Profit?
- Raise/Lower Residual Profitability Threshold ?
- Raise/Lower Reallocation Percent?



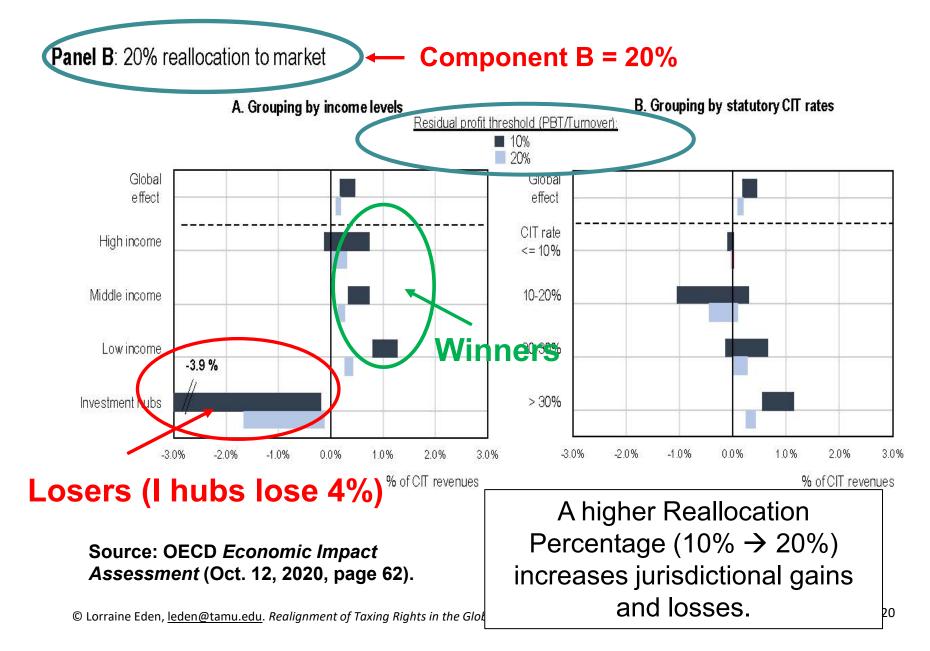
Global In-Scope Profit of the MNE Group

Changing RPT with Reallocation Percentage = 10%



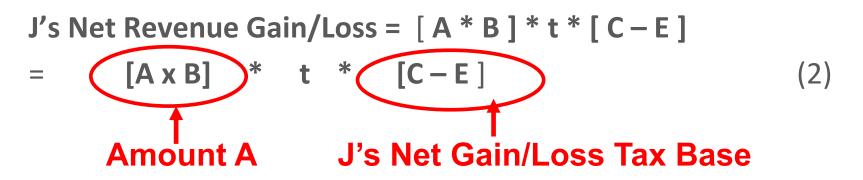
Source: OECD *Economic Impact Assessment* (Oct. 12, 2020, page 61).

Changing RPT with Reallocation Percentage = 20%



Insight #2: The C- E Gap Matters Most for Jurisdictions

Assume J's CIT rate (component D) on "received" tax base is the same rate (component F) that J provides on "relieved" tax base so D = F = t, equation (1) becomes:



Whether J gains or loses from Amount A depends on its C-E gap; that is, its share of GIDS relative to its share of GRIP. To determine who wins/loses from Amount A, look at the sign and size of the jurisdiction's C – E gap.

Insight #3: Pillar One Tax Games Are Likely

J's Tax Base Change = [A * B] * [(C*D) - (E*F)]Assuming D = F = t then

➢ J gains tax base if C > E (tax base receiving)
→ J's Goal: maximize its tax base gains from Amount A

➢ J loses tax base if C < E (tax base relieving)
➔ J's Goal: minimize its tax base losses from Amount A

Insight #4: Amount A = Sales-Based Global Formulary Apportionment (GFA)

To estimate the dollar value of the gain or loss in each jurisdiction's corporate income tax (CIT) base under Amount A, I rewrite Component C as "S/ Σ S" where " Σ S" is GIDS, and Component E as "P/ Σ P" where " Σ P" is GRIP. Amount A now is:

- Net gain/loss in J's CIT revenues = t * [B * S * (∑P/∑S P/S)]
- The greater the **deviation of J's ROS from the world average ROS**, the larger (in absolute value terms) is J's tax base gain or loss.
- Winners: stagnant economies (low P/S) are tax base receiving.
- Losers: dynamic jurisdictions (high P/S) are tax base relieving.
- Large winners are countries where S is large but no nexus (no PE) so profits are recorded elsewhere (e.g., ADS).
- Large losers are jurisdictions with very high profits relative to in-country sales so P/S approaches infinity. Even where S is low, these jurisdictions (e.g., investment hubs) are likely targets to provide tax base relief under Amount A.

Research Questions Economic Impact Assessment (EIA) of Pillar One Amount A





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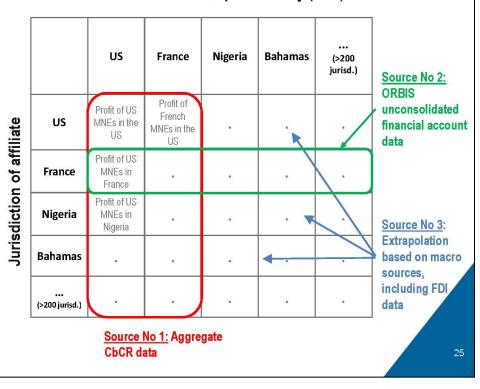
Research Question 3 Who Wins and Loses from Amount A?

- 1. Winners and Losers: The **OECD's Economic Impact Assessment** of Pillar One. <u>https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3743059</u>
- 2. Canada and the United States: Winners or Losers from Pillar One Amount A? <u>https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3800026</u>
- 3. Winners and Losers: **U.S. Country and Industry Estimates** of Pillar One Amount A. <u>https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3841813</u>
- **4. Taxing the Top 100**: U.S. Estimates of Winners and Losers from Pillar One Amount A. <u>https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3862062</u>

EIA Uses Profit and Turnover Matrices for GIDS and GRIP

Data "matrices" to map the economic activity of MNEs underlie the impact assessment

- Data on MNE activity is combined in "matrices" to obtain a global geographic coverage.
- Four matrices have been constructed: profit, turnover, tangible assets, and payroll.
- Different sources have different coverage.
- Extrapolations are used when no hard data is available.
- Extensive benchmarking has been done when multiple sources are available for a cell.



Jurisdiction of ultimate parent entity (UPE)

Source: OECD EIA Webinar (Oct 20, 2020) p. 25

EIA Matrices Available for Income Groups and Regions

| 267

Annex 5.D. Matrices aggregated by broad income groups and regions

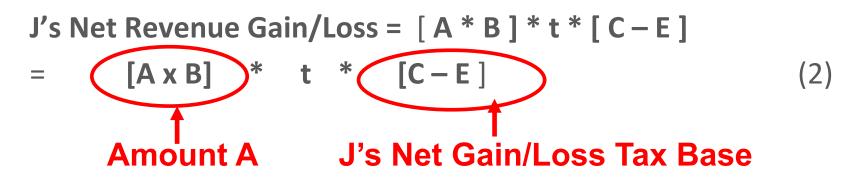
Annex Table 5.D.1. Matrices aggregated by broad income groups and regions Panel A: The profit matrix

In USD billion	A. Americas - High income	B. Europe & Central Asia - High income	C. East Asia & Pacific - High income	D. Middle East & North Africa - High income	E. Latin America & Caribb. - Middle and Iow income	F. Europe & Central Asia - Middle and low income	G. East Asia & Pacific - Middle and low income	H. Middle East & North Africa - Middle and low income	L South Asia - Middle and Iow income	J. Sub- Saharan - High and middle income	K. Sub- Saharan - Low income	L. Americas invest hubs	M. Europe invest. hubs	N. Other invest. hubs	Total
A. Americas - High income	1527	126	53	4	12	1	5	0	3	1	0	5	52	2	1791
B. Europe & Central Asia - High income	158	884	34	5	2	3	4	1	3	1	0	11	74	3	1184
C. East Asia & Pacific - High income	63	28	605	2	1	0	3	0	0	0	0	2	10	4	720
D. Middle East & North Africa - High income	14	7	2	56	0	1	1	1	1	0	0	0	5	1	89
E. Latin America & Caribbean - Middle and low income	49	33	4	0	110	1	1	0	0	0	0	3	18	1	221
F. Europe & Central Asia - Middle and low income	10	27	3	2	1	109	1	0	1	0	0	6	42	1	203
G. East Asia & Pacific - Middle and low income	52	37	89	1	0	2	472	0	2	1	0	49	11	21	736
H. Middle East & North Africa - Middle and low income	5	8	0	2	0	0	0	15	0	0	0	0	1	0	31
I. South Asia - Middle and low income	15	8	3	1	0	0	1	0	80	0	0	0	3	3	114
J. Sub-Saharan - High and middle income	8	10	1	0	0	0	1	0	0	24	0	2	4	1	52
K. Sub-Saharan - Low income	0	0	0	0	0	0	0	0	0	1	2	0	0	0	4
L. Americas Investment hubs	115	11	2	0	5	1	0	0	1	0	0	31	19	10	196
M. European Investment hubs	265	115	14	4	3	6	2	0	1	1	0	4	136	7	558
N. Other Investment hubs	78	28	18	2	5	3	39	0	2	1	0	34	16	56	281
Total	2358	1322	829	78	140	128	529	17	94	30	2	150	391	112	6181

TAX CHALLENGES ARISING FROM DIGITALISATION – ECONOMIC IMPACT ASSESSMENT © OECD 2020

Calculating the C- E Gap at the Jurisdictional Level

Assume J's CIT rate (component D) on "received" tax base is the same rate (component F) that J provides on "relieved" tax base so D = F = t, equation (1) becomes:



Whether J gains or loses from Amount A depends on its C-E gap; that is, its share of GIDS relative to its share of GRIP. To determine who wins/loses from Amount A, look at the sign and size of the jurisdiction's C – E gap.

My First Estimate of Amount A Winners and Losers (USD Billion)

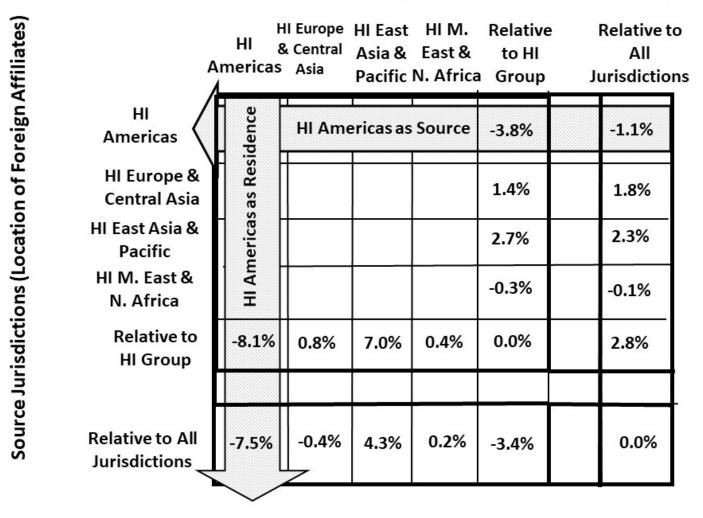
	Jurisdiction Group	Com-	Component E	& Thresholds	(C - E) Gap & Thresholds		
		ponent C	10%	20%	10%	20%	
	High Income (64)	44,875	414	149			
	Middle Income (105)	12,424	34	10			
Juris-	Low Income (29)	80	0	0	NA	NA	
diction	Investment Hubs (24)	5,996	45	15			
of Ultimate	Total (222)	63,375	493	174			
Parent	% share, High Income (64)	70.8%	83.8%	85.7%	-13.0%	-14.8%	
(Res- idence)	% share, Middle Income (105)	19.6%	7.0%	5.5%	12.7%	14.1%	
,	% share, Low Income (29)	0.1%	0.0%	0.0%	0.1%	0.1%	
	% share, Investment Hubs (24)	9.5%	9.2%	8.8%	0.3%	0.6%	
	High Income (64)	40,599	288	90			
Juris-	Middle Income (105)	17,580	59	15			
diction	Low Income (29)	130	0	0	NA	NA	
of	Investment Hubs (24)	5,066	146	70			
Foreign	Total (222)	63,375	493	174			
Affiliate	% share, High Income (64)	64.1%	58.4%	51.4%	5.6%	12.7%	
s (Source	% share, Middle Income (105)	27.7%	11.9%	8.5%	15.9%	19.2%	
)	% share, Low Income (29)	0.2%	0.0%	0.0%	0.2%	0.2%	
	% share, Investment Hubs (24)	8.0%	29.7%	40.1%	-21.7%	-32.1%	

Estimates for Investment Hubs (USD Billion)

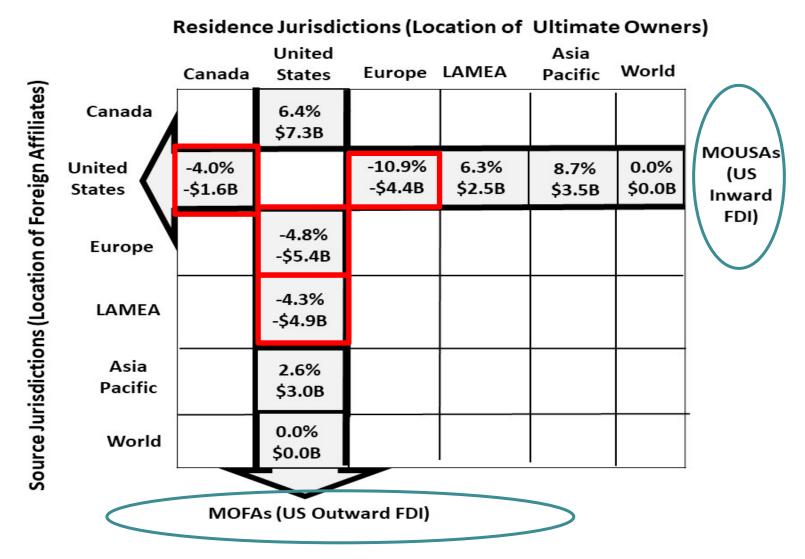
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Foreign Affiliate	Total (222)	63,375 64.1%	493 58.4%	174 51.4%	5.6%	12.7%	
S	% share, High Income (64)	-					
(Source	% share, Middle Income (105)	27.7%	11.9%	8.5%	15.9%	19.2%	
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	% share, Investment Hubs (24)	8.0%	29.7%	40.1%	-21.7%	-32.1%	

Estimates for High-Income (HI) Jurisdictions as Proxy for Canada & USA (Two-Arrow Approach)

Residence Jurisdictions (Location of Ultimate Owners)



US Country Impacts Using BEA Data on MOFAs and MOUSAs (US v ROW), % and USD Billions



US Industry Impacts (US vs ROW), USD Millions

	Sales (\$M)	Profit (\$M)	ROS	С	E	С – Е	Impact (\$M)				
	MOFAs (U.S. Direct Investment Abroad)										
Mining	112,327	57,219	50.9%	3.0%	10.0%	-7.1%	-8,042.3				
MFG	1,530,926	220,919	14.4%	40.7%	38.8%	1.9%	2,175.5				
Wholesale	789,998	67,813	8.6%	21.0%	11.9%	9.1%	10,360.0				
Retail	356,329	18,148	5.1%	9.5%	3.2%	6.3%	7,160.7				
INFO/ADS	164,562	55,354	33.6%	4.4%	9.7%	-5.3%	-6,087.6				
FIN&INS	204,664	102,201	49.9%	5.4%	17.9%	-12.5%	-14,242.6				
Services	230,560	39,433	17.1%	6.1%	6.9%	-0.8%	-904.8				
OTHER	375,602 ³	8,965	2.4%	10.0%	1.6%	8.4%	9,580.9				
ALL IND	3,764,968	570,051	15.1%	100.0%	100.0%	0.0%	0.0				
	MC	USAs (For	eign Dir	ect Invest	ment in t	he United S	States)				
MFG	1,798,267	104,061	5.8%	40.0%	51.8%	-11.8%	-4,742.3				
Wholesale	1,123,180	24,528	2.2%	25.0%	12.2%	12.8%	5,131.5				
Retail	246,545	2,731	1.1%	5.5%	1.4%	4.1%	1,657.0				
INFO/ADS	188,996	3,448	1.8%	4.2%	1.7%	2.5%	999.3				
FIN&INS	485,050	47,805	9.9%	10.8%	23.8%	-13.0%	-5,226.4				
Services	159,036	2,175	1.4%	3.5%	1.1%	2.5%	986.2				
OTHER	455,526	16,225	3.6%	10.1%	8.1%	2.1%	825.7				
ALL IND	4,497,890	200,973	4.5%	100.0%	100.0%	0.0%	0.0				

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- 4. Explore the types and probabilities of "tax games" that Governments and MNEs could use to affect Amount A

Research Question 4

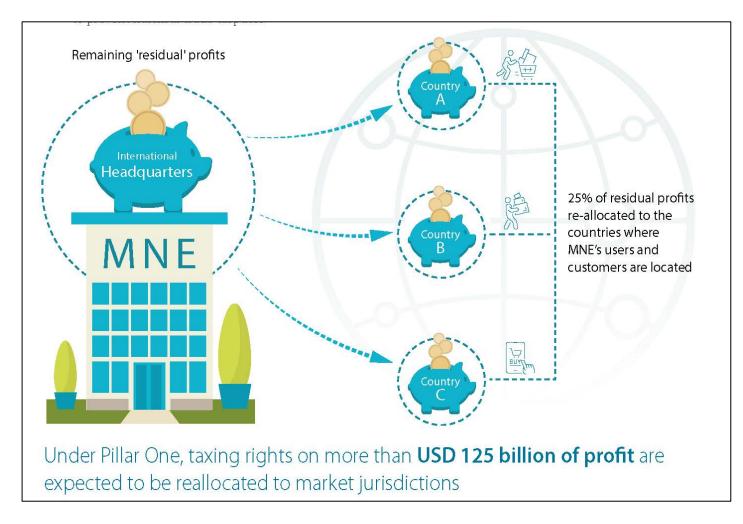
How Can MNEs & Governments Affect Amount A?

1. Pillar One Tax Games.

https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3758671

- 2. Winners and Losers: **U.S. Country and Industry Estimates** of Pillar One Amount A. <u>https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3841813</u>
- **3. Taxing the Top 100**: U.S. Estimates of Winners and Losers from Pillar One Amount A. <u>https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3862062</u>

Tax Base <u>Receiving</u> → Who Provides Tax Base <u>Relief</u>?



OECD. Oct 2021. Two-Pillar Solution to Address the Tax Challenges Arising from the Digitalisation of the Economy, page14.

Who are the "Tax Relieving" Jurisdictions?

Source: OECD Pillar One Blueprint (Oct. 12, 2020, Chapter 7, pp. 139-159 and 227-230).

Four-Step Tax-Relieving Process

- 1. <u>Activities</u> entities performing nonroutine activities that make material and sustained contribution to the group's ability to generate residual profit (i.e., functions/assets/risks & DEMPE).
- 2. <u>Profitability</u> exclude entities that make only routine profits or losses
- **3.** <u>Market Connection Priority</u> activities should be connected to the market jurisdiction
- 4. <u>Back-Stop (Pro-Rata Allocation)</u> Last resort: allocate tax liability among group entities pro-rata until entity earns only routine profits. (waterfall?)
- ➢ Four-step process → Tax Base Relief provided by Residence and Source jurisdictions with MNE Parents, Principals & Full-Fledged Entities. What about investment hubs and tax havens?
- Fuzziness of four-step process encourages Pillar One Tax Games ("Pass the Buck", "I Can't Pay the Rent").
- Decentralized MNEs encourage Tax Games by both MNEs & Governments.

Pillar One Tax Games: Governments

J's Tax Base Change = [A * B] * [(C*D) - (E*F)]Assuming D = F = t then

- J gains tax base if C > E (tax base receiving)
- \rightarrow J's Goal: maximize its tax base gains from Amount A
- → Tax Games by Market jurisdictions designed to <u>increase</u> <u>their tax base gains</u> from Amount A.
- J loses tax base if C < E (tax base relieving)</p>
- \rightarrow J's Goal: minimize its tax base losses from Amount A
- → Tax Games by Residence and Source jurisdictions designed to <u>reduce their tax base losses</u> from Amount A.

Pillar One Tax Games: Governments

J's Tax Base Change = A * B * [C * D - E * F]

J can affect the size of its gain from Amount A by:

- Increasing its share of GIDS (component C)
 - Playing with definitions: G + I + D + S
- Reducing its share of GRIP (component E)
 - Playing with definitions: G + R + I + P
 - No nexus so E = 0 (no Perm Est, Commissionaires, ADS sales)
- Tax rates (components D and F)
 - Setting a higher tax rate on "found" tax base than on "lost" tax base (D > F)
 - Refusal to provide tax relief on its share of GRIP that has been reallocated to Market jurisdictions (sets F = zero)

→ Who provides tax base relief matters!

Tax Base Receiving & Relieving in <u>Centralized</u> MNE

ENTITY	Parent	LRD	LRD	LRD	LRD	MNE Group			
COUNTRY	Н	J1	J2	J3	J4	World			
ALLOCATION OF MNE GROUP TAX BASE UNDER STATUS QUO ALP RULES									
Revenue	15,000	2,000	4,000	3,500	1,250				
Third-party revenue	10,000	2,000	4,000	3,500	1,250	20,750			
Intragroup revenue	5000	0	0	0	0				
Costs (COGS + OE)	10,000	1,940	3,880	3,395	1,212	15,427			
Profit before tax (PBT) (under ALP status quo)	5000	60	120	105	38	5,323			
Profit margin (PBT/Revenue), %	33%	3%	3%	3%	3%	26%			
TAX BASE RE-ALLOCATION UNDER AMOUNT A (BEFORE DOUBLE TAX RELIEF)									
Amount A (before double tax relief)	313	63	125	110	39	650			
PBT under ALP + Amount A (before DT relief)	5,313	123	245	215	77	5,973			
% change in PBT due to Amount A	6.26%	105.00%	104.17%	104.76%	102.63%	12.21%			
Potential double counting	313	0	0	0	0	313			
TAX BASE RE-ALLOCATION UND	ER AMOUN	T A (FULL D	OUBLE TA	K RELIEF BY	JURISDICT	ON H)			
Netting-off of profits under DT relief	-650	0	0	0	0	-650			
PBT under Amount A after DT relief	4,663	123	245	215	77	5,323			
Net Change in PBT due to Amount A (after DT relief)	-337	63	125	110	39	0			
% change in PBT due to Amount A (after DT relief)	-6.74%	105.00%	104.17%	104.76%	102.63%	0.00%			

Source: OECD *Pillar One Blueprint (*Oct. 12, 2020, pp. 227-228) and Eden (2021) adaptation.

Who receives?

Entities with third-party revenues (all 5 entities)

Who pays?

4-step criteria (Parent)

Who doesn't pay?

Entities with routine returns or losses (LRDs)

Who does netting-off?

4-step criteria (Parent)

Winners: LRDs Losers: Parent

NET IMPACT OF AMOUNT A IS ZERO

Tax Base Receiving & Relieving in **Decentralized** MNE

ENTITY	Parent	FFD	LRD	FFD	LRD	MNE Group
COUNTRY	н	J1	J2	J3	J4	World
ALLOCATION OF M	NE TAX BASI	UNDER S	STATUS Q	UO ALP RI	ULES	
Revenue	2,000	4,000	2,000	3,000	3,000	
Third-party revenue	0	4,000	2,000	3,000	3,000	12,000
Intragroup revenue	2,000	0	0	0	0	
Costs (COGS + OE)	1,250	3,250	1,900	2,450	2,700	9,550
Profit before tax (PBT) under ALP status quo	750	750	100	550	300	2,450
Profit margin (PBT/Revenue), %	38%	19%	5%	18%	10%	20%
TAX BASE ALLOCATION						
Amount A before double tax (DT)			CITORE DU			
relief	0	82	42	63	63	250
PBT under ALP + Amount A (before DT relief)	750	832	142	613	363	2,700
% change in PBT due to Amount A	0.00%	10.93%	42.00%	11.45%	21.00%	10.20%
Potential double counting of PBT	0	82	0	63	0	145
SCENARIO #1: TAX BASE REALL	CATION UN	DER AMO	UNT A (A	FTER DOL	JBLE TAX F	RELIEF)
Netting-off of profits under DT relief	-105	-82	0	-63	0	-250
PBT under Amount A after DT relief	645	750	142	550	363	2,450
Net Change in PBT due to Amount A	-105	0	42	0	63	0
% change in PBT due to Amount A	-14.00%	0.00%	42.00%	0.00%	21.00%	0.00%
SCENARIO #2: TAX BASE REALL						
Netting-off of profits under DT relief	-168	-82				–250
PBT under Amount A after DT relief	582	750	142	613	363	2,450
Net Change in PBT due to Amount A	-168	0	42	63	63	2,430
% change in PBT due to Amount A	-22.40%	0.00%	42.00%	11.45%	21.00%	0.00%
A shange in the due to Amount A		2.00,0				0.0070
SUENAKIO #3: TAX BASE KEALL		DER AIVIC		FIER DOL	JBLE TAX P	ELIEF)
Netting-off of profits under DT relief	0	0	0	0	0	0

Netting-off of profits under DT relief	0	0	0	0	0	0
PBT under Amount A after DT relief	750	832	142	613	363	2,700
Net Change in PBT due to Amount A	0	82	42	63	63	250
% change in PBT due to Amount A	0.00%	10.93%	42.00%	11.45%	21.00%	10.20%

Source: OECD *Pillar One Blueprint (*Oct. 12, 2020, pp. 228-230) and Eden (2021) adaptation.

Scenario #2 (J3 - no tax relief)

Who receives? J1, J2, J3, J4 (2 LRDs & 2 FFDs)

Who pays? H (Parent) & J1 (1 FFD)

<u>Who doesn't pay?</u> J2 & J 4 (2 LRDs); J3 (1 FFD, doesn't play by the rules)

Who does netting-off? H (Parent) and J1 (1 FFD)

Winners: J2 & J4 (2 LRDs); J3 (FFD) Losers: H (Parent – backstop role) No Change: J1 (FFD)

NET IMPACT OF AMOUNT A IS ZERO

Tax Base Receiving & Relieving in **Decentralized** MNE

ENTITY	Parent	FFD	LRD	FFD	LRD	MNE Group	
COUNTRY	Н	J1	J2	J3	J4	World	
ALLOCATION OF MNE TAX BASE UNDER STATUS QUO ALP RULES							
Revenue	2,000	4,000	2,000	3,000	3,000		
Third-party revenue	0	4,000	2,000	3,000	3,000	12,000	
Intragroup revenue	2,000	0	0	0	0		
Costs (COGS + OE)	1,250	3,250	1,900	2,450	2,700	9,550	
Profit before tax (PBT) under ALP status quo	750	750	100	550	300	2,450	
Profit margin (PBT/Revenue), %	38%	19%	5%	18%	10%	20%	
	0.000000000						
TAX BASE ALLOCATION UNDER AMOUNT A (BEFORE DOUBLE TAX RELIEF)							
Amount A before double tax (DT) relief	0	82	42	63	63	250	
PBT under ALP + Amount A (before DT relief)	750	832	142	613	363	2,700	
% change in PBT due to Amount A	0.00%	10.93%	42.00%	11.45%	21.00%	10.20%	
Potential double counting of PBT	0	82	0	63	0	145	
SCENARIO #1: TAX BASE REALLO	DCATION UN	DER AMO	OUNT A (A	FTER DOL	BLE TAX F	ELIEF)	
Netting-off of profits under DT relief	-105	-82	0	-63	0	-250	
PBT under Amount A after DT relief	645	750	142	550	363	2,450	
Net Change in PBT due to Amount A	-105	0	42	0	63	0	
% change in PBT due to Amount A	-14.00%	0.00%	42.00%	0.00%	21.00%	0.00%	
SCENARIO #2: TAX BASE REALLO	DCATION UN	IDER AMC	DUNT A (A	FTER DOL	IBLE TAX F	ELIEF)	
Netting-off of profits under DT relief	-168	-82	0	0	0	-250	
PBT under Amount A after DT relief	582	750	142	613	363	2,450	
Net Change in PBT due to Amount A	-168	0	42	63	63	0	
% change in PBT due to Amount A	-22.40%	0.00%	42.00%	11.45%	21.00%	0.00%	
SCENARIO #3: TAX BASE REALLOCATION UNDER AMOUNT A (AFTER DOUBLE TAX RELIEF)							
Netting-off of profits under DT relief	0	0	0	0	0	0	
PBT under Amount A after DT relief	750	832	142	613	363	2,700	
Net Change in PBT due to Amount A	0	82	42	63	63	250	
% change in PBT due to Amount A	0.00%	10.93%	42.00%	11.45%	21.00%	10.20%	

Source: OECD *Pillar One Blueprint (*Oct. 12, 2020, pp. 228-230) and Eden (2021) adaptation.

Scenario #3 (GVT tax games)

Who receives?

J1, J2, J3, J4 (2 LRDs & 2 FFDs)

<u>Who pays?</u>

H, J1 and J3 should pay but choose not to

Who doesn't have to pay?

J2 and J4 (2 LRDS)

Who does netting-off? H, J1 and J3 should but choose not to

Winners: J1-J4 (all gain tax revenue)

Losers: none No Change: H (parent)

NET IMPACT: MNE GLOBAL TAX BASE RISES BY AMOUNT A.

"Who Pays the Rent?" Pillar One Tax Games

- > Amount A ignores Territorial Tax Systems
 - > Residence Jurisdictions exempt Foreign Source Income from outward FDI. ("I already paid the rent!")
 - Source countries receive CIT Base the FSI earned by foreign MNEs abroad (inward FDI).
- Source Jurisdictions with high-profit foreign MNEs (e.g., US MOFAs in Europe) won't give up tax base and want to tax foreign MNEs ("I won't pay the rent!")
- Large players engage in tit-for-tat retaliation. ("If you won't pay the rent, I won't pay the rent!")
- > Prospect Theory → Source countries already taxing foreign MNEs giving up tax base is more costly than receiving ("I can't lose the rent!").
- > **Small jurisdictions get side swiped** ("We never get the rent!").

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Pillar One Tax Games - Multinationals

An MNE can affect its global CIT taxes paid under Amount A, by :

- Being excluded from Pillar One by <u>not being in-scope</u> (finance & insurance, extractive industries, state owned multinationals).
- <u>Reducing the amount of its GRIP</u> (global residual in-scope profit) in Tax Base Relieving Jurisdictions (C < E)
 - Reducing its residual profit by raising its routine profit (affects RPT)
 - Shifting its business lines into out-of-scope activities (definition of "inscope" and activity tests)
 - Change mode of entry if doing so reduces GRIP
- <u>Reducing its share of GIDS</u> (global in-scope destination-based sales) in Tax Base Receiving Jurisdictions (C > E)
 - Change the Mode of Entry (e.g., wholly owned vs franchise) or where sales are booked (e.g., regional marketing hub) if doing so reduces GIDS
 - Shift out of Market jurisdictions where GIDS is low and not likely to grow
- Note: Transfer pricing would still be driven by tax differentials → MNE's goal is to maximize worldwide profits after Pillar One Tax.

Tax Base Receiving & Relieving in Decentralized MNE

ENTITY	Parent	FFD	LRD	FFD	LRD	MNE Group
COUNTRY	Н	J1	J2	J3	J4	World
ALLOCATION OF MN	TAX BAS	UNDERS	TATUS Q	JO ALP RU	JLES	
Revenue	2,000	4,000	2,000	3,000	3,000	
Third-party revenue	0	4,000	2,000	3,000	3,000	12,000
Intragroup revenue	2,000	0	0	0	0	1
Costs (COGS + OE)	1,250	3,250	1,900	2,450	2,700	9,550
Profit before tax (PBT) under ALP status quo	750	750	100	550	300	2,450
Profit margin (PBT/Revenue), %	38%	19%	5%	18%	10%	20%
TAX BASE ALLOCATION U	IDER AM	DUNT A (E	EFORE DO	OUBLE TA	K RELIEF	
Amount A before double tax (DT) relief	0	82	42	63	63	250
PBT under ALP + Amount A (before DT relief)	750	832	142	613	363	2,700
% change in PBT due to Amount A	0.00%	10.93%	42.00%	11.45%	21.00%	10.20%
Potential double counting of PBT	0	82	0	63	0	145
SCENARIO #1: TAX BASE REALLO	ATION UN	IDER AMO	DUNT A (A	FTER DOL	JBLE TA)	RELIEF)
Netting-off of profits under DT relief	-105	-82	0	-63	0	-250
PBT under Amount A after DT relief	645	750	142	550	363	2,450
Net Change in PBT due to Amount A	-105	0	42	0	63	0
% change in PBT due to Amount A	-14.00%	0.00%	42.00%	0.00%	21.00%	0.00%
SCENARIO #2: TAX BASE REALLO	ATION UNDER AMOUNT A (AFTER DOUBLE TA)			RELIEF)		
Netting-off of profits under DT relief	-168	-82	0	0	0	-250
PBT under Amount A after DT relief	582	750	142	613	363	2,450
Net Change in PBT due to Amount A	-168	0	42	63	63	0
% change in PBT due to Amount A	-22.40%	0.00%	42.00%	11.45%	21.00%	0.00%
SCENARIO #3: TAX BASE REALLO <mark>C</mark> ATION UNDER AMOUNT A (AFTER DOUBLE TA) RELIEF)						
Netting-off of profits under DT relief	0	0	0	0	0	0
PBT under Amount A after DT relief	750	832	142	613	363	2,700
Net Change in PBT due to Amount A	0	82	42	63	63	250
% change in PBT due to Amount A	0.00%	10.93%	42.00%	11.45%	21.00%	10.20%

Scenario #4 (MNE tax games)

Who receives? J1, J2, J3, J4 (2 LRDs & 2 FFDs)

Who should pay under 4-step process?

Parent and FFDs should pay

Who doesn't have to pay?

LRDs earn baseline ROS so exempt

How can MNE manipulate Amount A?

- Parent goal: Max GRIP net of Amount A
- Exits jurisdictions with low GIDS and high tax rates
- Uses TP to reduce FFDs to LRDs
- Pays Amount A from FFD in jurisdictions with CIT rates > than market jurisdiction

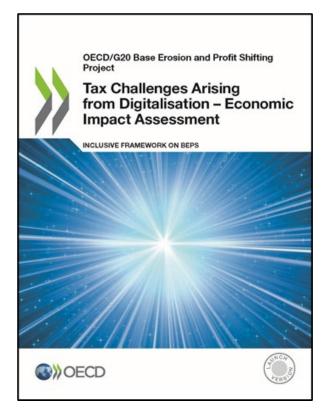
Source: OECD *Pillar One Blueprint (*Oct. 12, 2020, pp. 228-230) and Eden (2021) adaptation.

Updating to October 8, 2021

- 1. In-Scope MNEs = "largest and most profitable" (global turnover = GT > 20 billion euros and PBT/GT > 10%); GT floor falls to 10 billion euros in 7 years)
- 2. Reallocation Percentage increased from 10%-20% to 25%
- **3. Nexus threshold** for claiming Amount A is 1 USD Million revenue (GIDS); GIDS falls to USD 250,000 for countries with GDB below 40 billion euros.
- 4. Where MNE has MKTG or DIST Affiliate in Market Jurisdiction, Safe Harbor caps GRIP allocated to that jurisdiction. (Amount B?)
- 5. Amount A New Taxing Right estimated at **\$125 USD Billion (up 25%)**
- 6. New Multilateral Convention (MLC) to implement Amount A
- 7. In-scope MNEs can manage Amount A through a single entity
- 8. Mandatory binding arbitration; elective option for low-capacity countries
- 9. "Simplified application of arm's length principle in specific circumstances with focus on low-capacity countries for in-country baseline marketing and distribution activities" [Pillar One Amount B?]
- 10. Removal of DSTs and similar measures

Conclusions

- Amount A introduces formulary apportionment of MNE profits at global level.
- New Taxing Right for Market Jurisdictions would create a two-layer system: existing Intl Tax Regime + Pillar One → double taxation.
- Taxing Top 100 MNEs has little to do with taxing the digital economy.
- Both Governments and MNEs will play Pillar One Tax Games; likely outcome is MNEs will "pay the rent" in higher worldwide taxes.
- With FIN/INS, Nat Resources & State-owned MNEs out, majority of Amount A costs fall on US MNEs in the ADS and Manufacturing sectors.
- There are better ways to tax MNEs in the digital economy.



Thank-you! Please share your comments and questions with me at leden@tamu.edu

