

DOUBLE TAXATION AGREEMENT (DTA) FOR DEVELOPING COUNTRIES



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What can be done without DTA

- Unilateral measures by Residence country
 - Double taxation relief
 - Foreign tax credit (FTC) / exemption (territorial)
 - Limitation:
 - High source taxation (not really "double" taxation)
 - Indirect FTC (parent-subsidiary threshold)
- Unilateral measures by Source country
 - Align PE definition to international norm
 - Lower source taxation so that it does not exceed residence country taxation

What requires DTA

- Ensuring consistency between the tax systems
 - Resolving differences in definitions, etc.
 - Transfer pricing (corresponding adjustment)
 - Mutual Agreement Procedures (MAP)
- Adjusting taxing rights
 - Selectively lowering source taxation
 - Adjusting FTC creditability
- Establishing trust in the tax system
 - Stability and predictability
 - Signaling effect
 - Exchange of information (EOI), assistance in collection

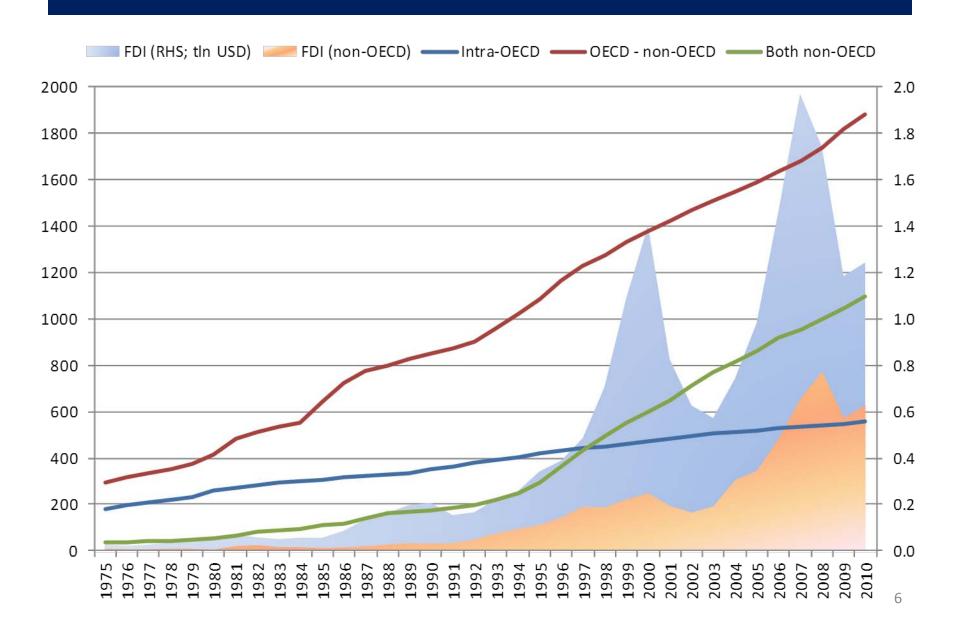
Countries likely to benefit from DTA

- Countries with strong economic ties between them
 - Large FDI flows require DTA; opposite some doubts
- Countries which weigh facilitation of investment flows more than revenue take
- Countries in need of winning trust from foreign investors
 - DTA may help, but it alone cannot address the issue
- Countries seeking appropriate taxation of investment in natural resources

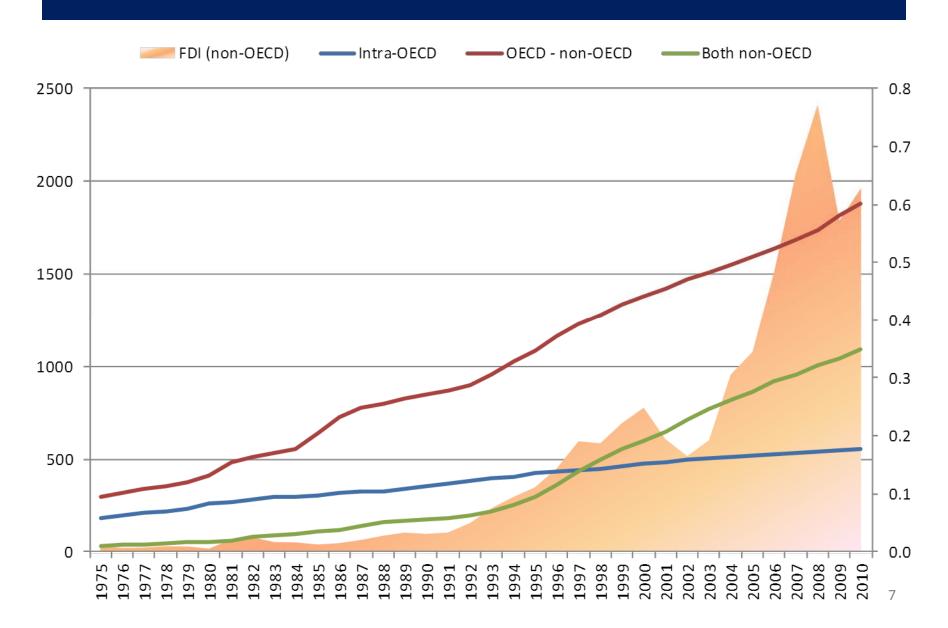
Pitfalls to avoid

- Trying to conclude as many DTAs as possible, hoping that more DTAs will result in more FDI
 - DTAs are like traffic lights: essential infrastructure for safe and smooth flow of traffic, but putting lights in the wilderness would not invite traffic there
- Concluding a very unfavorable DTA with a country, without understanding the cost
 - Damages not limited to that particular DTA
 - The weakest link of DTA network matters

Numbers of DTA and FDI



Numbers of DTA and FDI



All DTAs are different

- DTAs are adopted to specific situations of the two contracting states
- A DTA should not be analyzed in isolation
 - Domestic tax system
 - DTA network
- Too much generalization is misleading
 - Source vs. Residence
 - Territorial vs. Worldwide

Source vs. Residence

- Four possible approaches:
 - Full taxation by Residence Country (Full R)
 - Full taxation by Source Country (Full S)
 - First by Source, then Residence Country (2-step)
 - Apportion (AP)
- No Full R in practice
- 2-step may allocate the same taxing right to Source country as under Full S

Territorial vs. Worldwide

- Trend from worldwide to territorial?
 - From Full R to Full S? (No, as no Full R in practice)
 - Is 2-step so different from Full S?
 - Even under FTC regime, unless profit is actually repatriated, 2-step = Full S
- Active business income = Full S
- Passive income = 2-step
 - Use CFC-type regime as necessary

Implications for Source Country: Passive income

- NB: countries mostly apply FTC to passive income
- **2-step** = **Full S**, if $\tau_S \ge \tau_R$
- What if $\tau_S \ge \tau_R > \tau_{S DTA}$?
 - In effect, DTA converts Full S to 2-step
- Does it matter?
 - Revenue loss: rate reduction = $(\tau_S \tau_{S_DTA})$
 - Increase investment?
 - Investors get $(\tau_S \tau_R)$
 - Country R gets $(\tau_R \tau_{SDTA})$ = transfer tax from S to R
 - Possible increase of investment, to the extent that DTA reduces Country S tax to Country R level

Implications for Source Country: Active business income

- Same arguments as Passive, for FTC regime
- Always Full S, if Country R is territorial regime
- Allocation of benefits

Country R regime: Benefit to	FTC	Territorial			
Country S	- (τ _S - τ _{S_DTA})				
Investors	$\tau_{S} - \tau_{R}$	τ _s - τ _{s_DTA}			
Country R	$ au_{R}$ - $ au_{S_DTA}$	0			

• NB: Capital Export Neutrality (CEN) holds only when (Country R = FTC) and $(\tau_S \le \tau_R)$ and (income is actually repatriated to Country R)

Implication of DTA for Source Country

- Revenue loss: direct
- Impact on investment: indirect, uncertain
- Too low treaty rate may not benefit Country S

Country R regime: Benefit to	FTC Territorial (FTC on passive					
Passive income:						
Country S	- (τ _s -	τ _{s_DTA})				
Investors	τ_{S} - τ_{R}					
Country R	$\tau_R - \tau_{S_DTA}$					
Active income:						
Country S	- (τ _S - τ _{S DTA})					
Investors	$\tau_{\rm S}$ - $\tau_{\rm R}$	$\tau_{\scriptscriptstyle S}$ - $\tau_{\scriptscriptstyle S_DTA}$				
Country R	τ_{R} - τ_{S_DTA}	0				

- Country S tax could easily become higher than Country R tax, because...
- Gross vs. Net
 - Treaty WHT = gross tax
 - 10% WHT = 20% net tax with 50% profit margin
- P-S dividend
 - 20% CIT on dividend paying sub
 - 10% WHT on dividend
 - Aggregate 28% tax

- Highest / lowest specified rates in DTAs
- 4 major income types
 - Portfolio dividend
 - Parent-subsidiary dividend
 - Interest
 - Royalty

Treaty Rates for Developing Countries (OECD and non-OECD partners)

Source	Treaty	Num.	L	Lowest Treaty Rates 3/				Highest Treaty Rates 3/			
Country	Partner	of	Divid	lend	Interest	Royalty	Divid	dend	Interest	Royalty	
		DTAs 2/	Porfolio	P-S 4/			Porfolio	P-S 4/			
All Develo	oping Countries										
All	OECD	1,226	13.3	8.1	7.5	7.7	13.5	8.5	9.6	9.5	
	Non-OECD	1,533	10.8	7.9	9.0	9.8	10.9	8.0	10.0	10.5	

For many countries (regions), rates are higher when contracting with OECD countries...

Treaty Rates for Developing Countries (OECD and non-OECD partners)

Source	Treaty	Num.	I	owest Tr	eaty Rates	3/	Highest Treaty Rates 3/					
Country	Partner	of	Divid	lend	Interest	Royalty	Divid	lend	Interest	Royalty		
		DTAs 2/	Porfolio	P-S 4/			Porfolio	P-S 4/				
SSA	OECD	133	15.0	9.1	9.7	9.4	15.0	9.3	10.4	9.8		
	Non-OECD	149	10.7	7.4	8.9	8.6	10.7	7.4	9.2	9.0		
Dev_	OECD	258	13.3	10.3	10.3	10.0	13.4	11.0	12.2	12.5		
Asia	Non-OECD	352	10.9	9.4	10.8	11.4	11.2	9.6	11.7	12.6		
MENA	OECD	137	12.6	8.1	9.0	9.1	13.0	8.2	10.6	11.0		
	Non-OECD	242	8.3	6.6	7.3	9.4	8.4	6.7	8.9	9.5		

... while others follow patterns similar to those of advanced economies

Source	Treaty	Num. of	I	Lowest Tr	eaty Rates	3/	I	Highest Treaty Rates 3/				
Country	Partner		Divi	Dividend		Royalty	Dividend		Interest	Royalty		
		DTAs 2/	Porfolio	P-S 4/			Porfolio	P-S 4/				
LAC	OECD	164	13.3	7.8	5.8	8.3	13.4	8.2	12.1	11.4		
	Non-OECD	84	11.4	7.5	6.9	10.9	11.7	7.7	12.2	12.6		
CIS	OECD	236	12.8	7.0	5.2	4.7	12.9	7.6	7.1	6.1		
	Non-OECD	307	11.2	8.0	8.3	9.4	11.3	8.2	9.2	9.8		
CEE	OECD	298	13.5	6.7	6.3	6.4	13.6	6.9	7.5	7.8		
	Non-OECD	399	11.4	7.4	9.0	9.2	11.5	7.4	9.4	9.8		
Memo:												
G7	OECD	197	14.6	6.9	3.9	3.4	14.6	7.7	7.3	5.9		
	Non-OECD	413	14.2	9.1	6.8	6.7	14.3	9.3	9.8	9.2		

Source countries' income level (or level of development) actually reflected in higher DTA rates

Treaty Rates for Developing Countries (by income level)

Source	Num.	Num. Lowest Treaty Rates 3/					Highest Treaty Rates 3/					
Country	of DTAs	Divid	Dividend		Royalty	Dividend		Interest	Royalty			
	/2	Porfolio	P-S 4/			Porfolio	P-S 4/					
All Developing Countries												
All	2,739	11.9	8.0	8.3	8.8	12.1	8.2	9.8	10.0			
By income group:												
Low	183	13.4	9.8	9.7	9.7	13.4	10.1	10.8	10.1			
Lower-Middle	798	12.8	9.2	9.1	9.8	13.0	9.6	10.4	11.0			
Upper-Middle	1,395	11.6	7.6	8.0	8.5	11.7	7.8	9.8	10.0			
High	363	10.7	5.9	6.7	7.4	10.8	6.0	7.6	8.0			

DTA rates: Hypothesis

- (1) The higher the income level of the **source** country, the lower the rates
- (2) The higher the income level of the **residence** country, the lower the rates
- (3) If the income level of the residence country is higher than that of source country, the larger the gap, the higher the rates

Treaty rate =
$$\beta_0 + \beta_1$$
 Income^S + β_2 Income^R + β_3 max(Income^R – Income^S, 0) + ϵ

DTA rates: Hypothesis

Results of the Econometric Analyses

Source		Lowest Tr	eaty Rates 3/		Highest Treaty Rates 3/			
Country	Dividend		Interest	Royalty	Div	idend	Interest	Royalty
	Porfolio	P-S 4/			Porfolio	P-S 4/		
Income (source country)	-5.885 ***	-4.912 ***	-1.349	-2.192 ***	-5.857 ***	-4.708 ***	-2.658 ***	-3.070 ***
(),	(0.776)	(0.766)	(0.910)	(0.846)	(0.778)	(0.761)	(0.869)	(0.907)
Income (resident country)	1.027	-6.307 ***	-11.245 ***	-8.138 ***	1.403	-6.972 ***	-5.067 ***	-5.792 ***
,	(1.227)	(1.219)	(1.447)	(1.302)	(1.229)	(1.212)	(1.380)	(1.389)
Income gap	0.826	5.983 ***	9.389 ***	5.675 ***	0.495	7.051 ***	4.131 ***	4.312 ***
	(1.287)	(1.279)	(1.508)	(1.361)	(1.290)	(1.272)	(1.439)	(1.452)
Constant	11.790 ***	9.230 ***	10.122 ***	10.807 ***	11.855 ***	9.350 ***	10.904 ***	11.489 ***
	(0.147)	(0.145)	(0.152)	(0.142)	(0.147)	(0.144)	(0.145)	(0.152)
Adjusted R-squared	0.077	0.066	0.088	0.110	0.077	0.069	0.033	0.052
Number of observations	2,566	2,584	2,507	2,587	2,568	2,585	2,530	2,591

