
The MacMap-HS6 Database

CEPII Working Paper 2004-22

<http://www.cepii.fr/anglaisgraph/workpap/summaries/2004/wp04-22.htm>

A consistent picture of applied protection across the world

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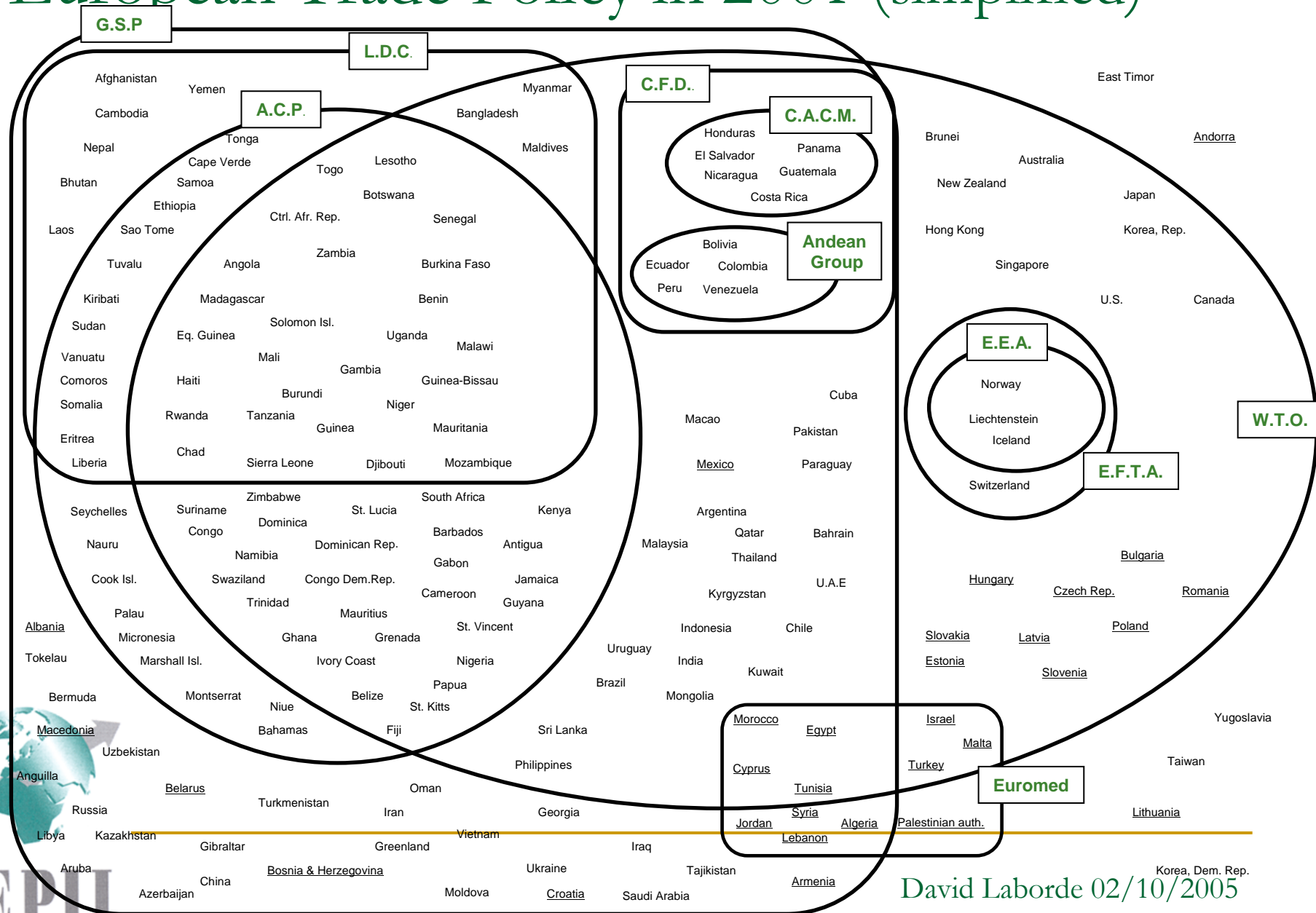


Scope of the Database

- Main Source of the raw data: ITC (Geneva).
- An exhaustive coverage
 - 163 reporting countries (importers)
 - 208 partners
 - 5111 produits HS6
- Trade policies are complex
 - Increasing number of preferential agreements
 - Different tools
 - Ad valorem Tariffs
 - Specific Tariffs
 - Mixed and Compound tariffs



European Trade Policy in 2001 (simplified)



Note: An underlined country's name signals a bilateral agreement with the EU.

Conversion issues

- HS6 Nomenclature : Rev 1. HS1996.
- Physical units using BACI physical coefficients

>>> At the HS6 level, basically, for every product, we have one ad-valorem component and one specific component (USD per Ton)

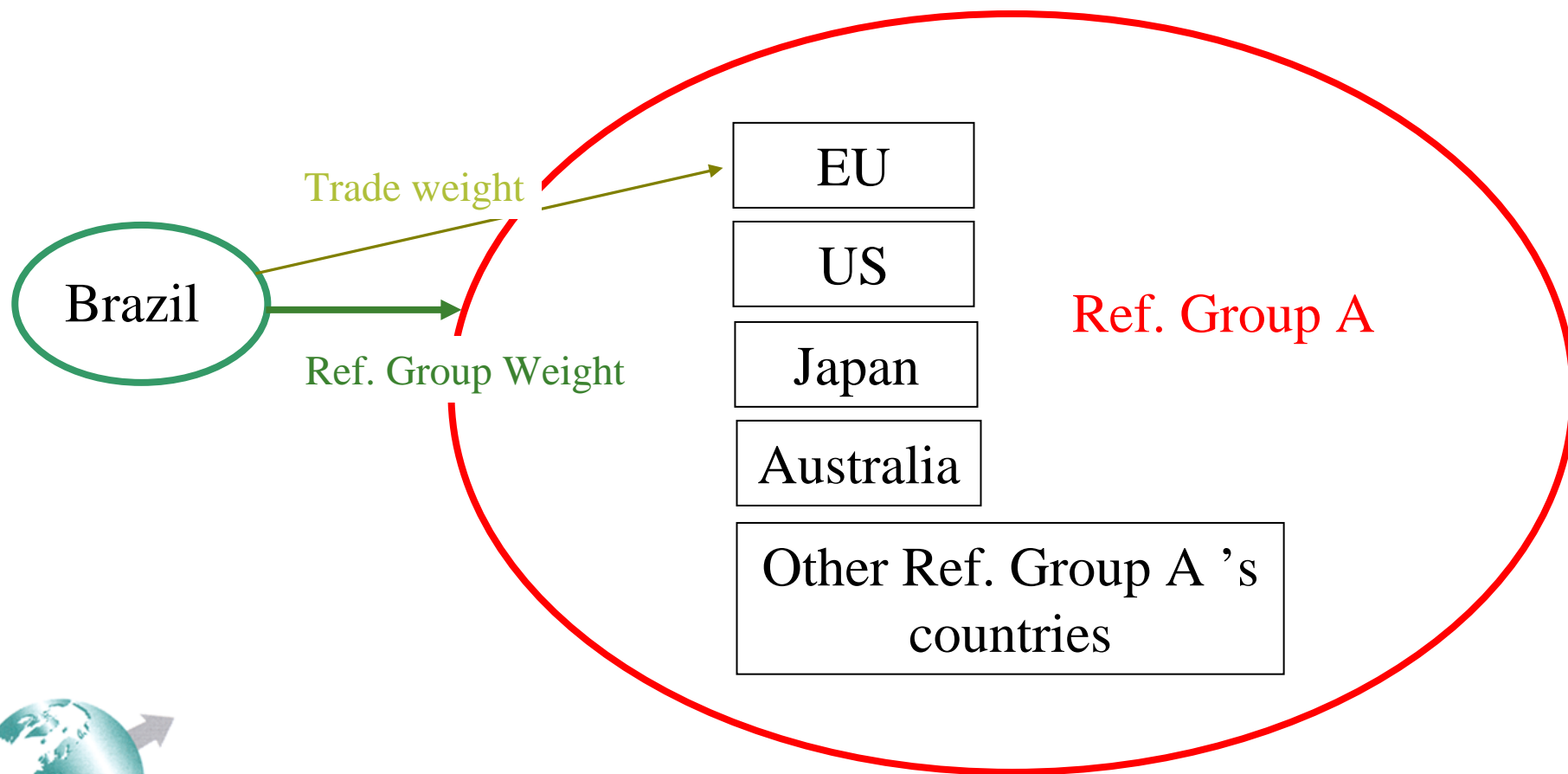


MAcMap Methodology : The Reference Group

- Clustering on countries (real gdp per capita, trade openness) : 5 reference groups
- Group of exporters : Computation of Unit values, ERGUV.
 - To limit the noise in unit value data
 - To keep economic relevant of ad-valorem equivalent of specific tariffs
- Group of importers : weights for the MAcMap methodology of aggregation (against the endogeneity problem).



How to weight a HS6 product tariffs ?



TRQ in MacMap

- Source : AMAD and WTO notifications + National sources
- In quota / Out Quota rate ?
 - Three regimes are defined based on the filling rate of the quota
- When not available, quota allocation based on trade

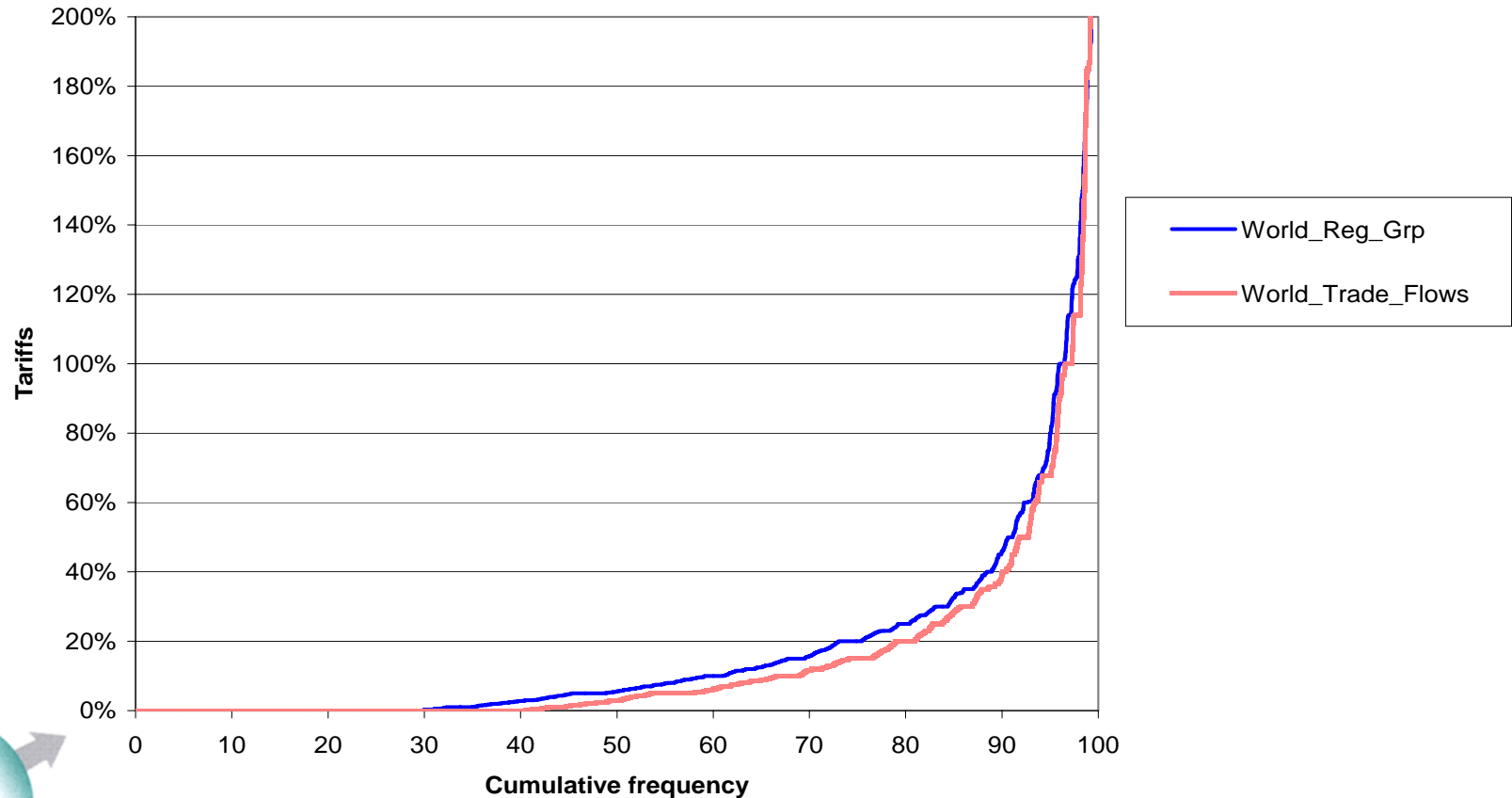
Robustness of the methodology to the aggregation procedure



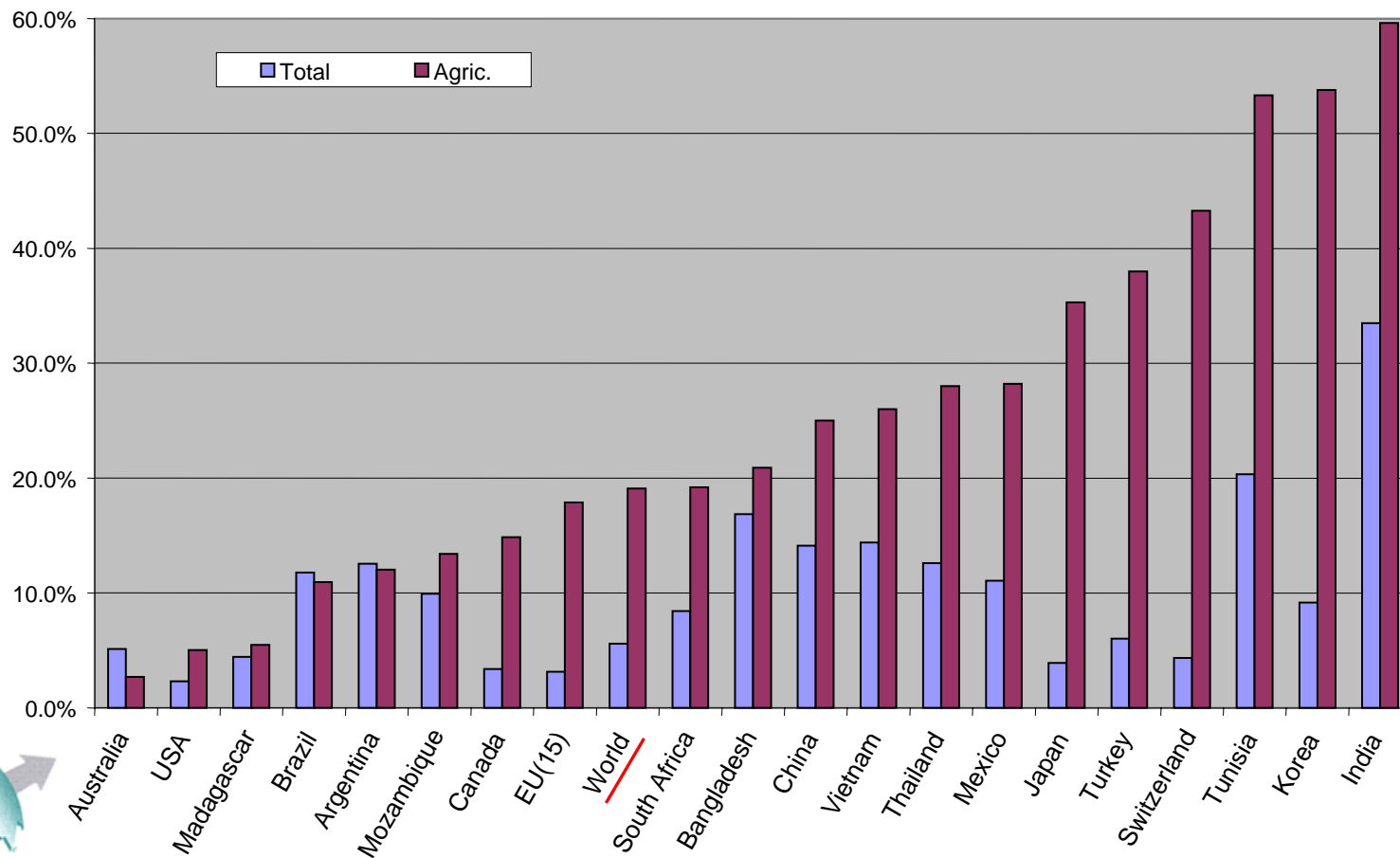
Illustrations



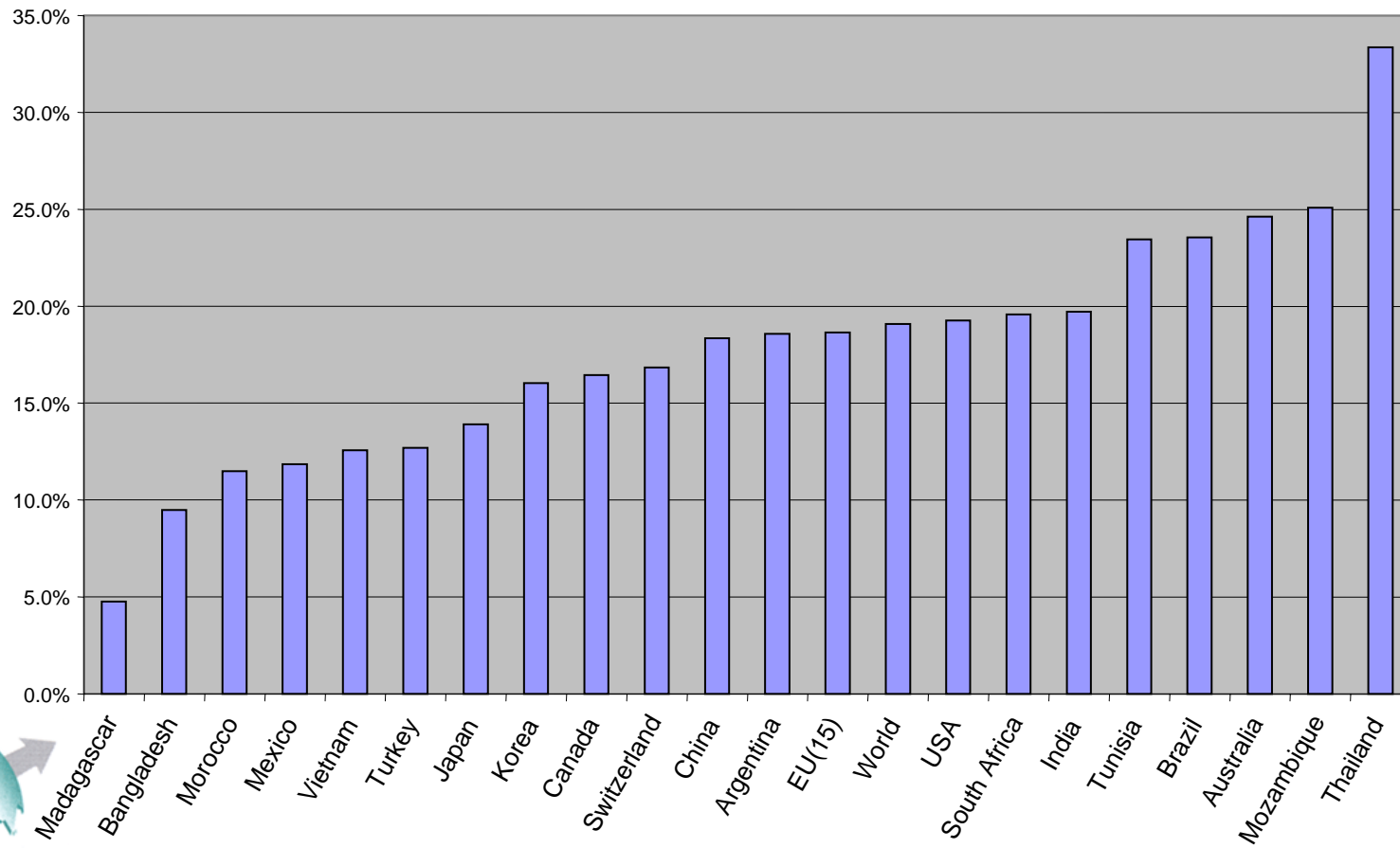
Agricultural tariffs : World distribution



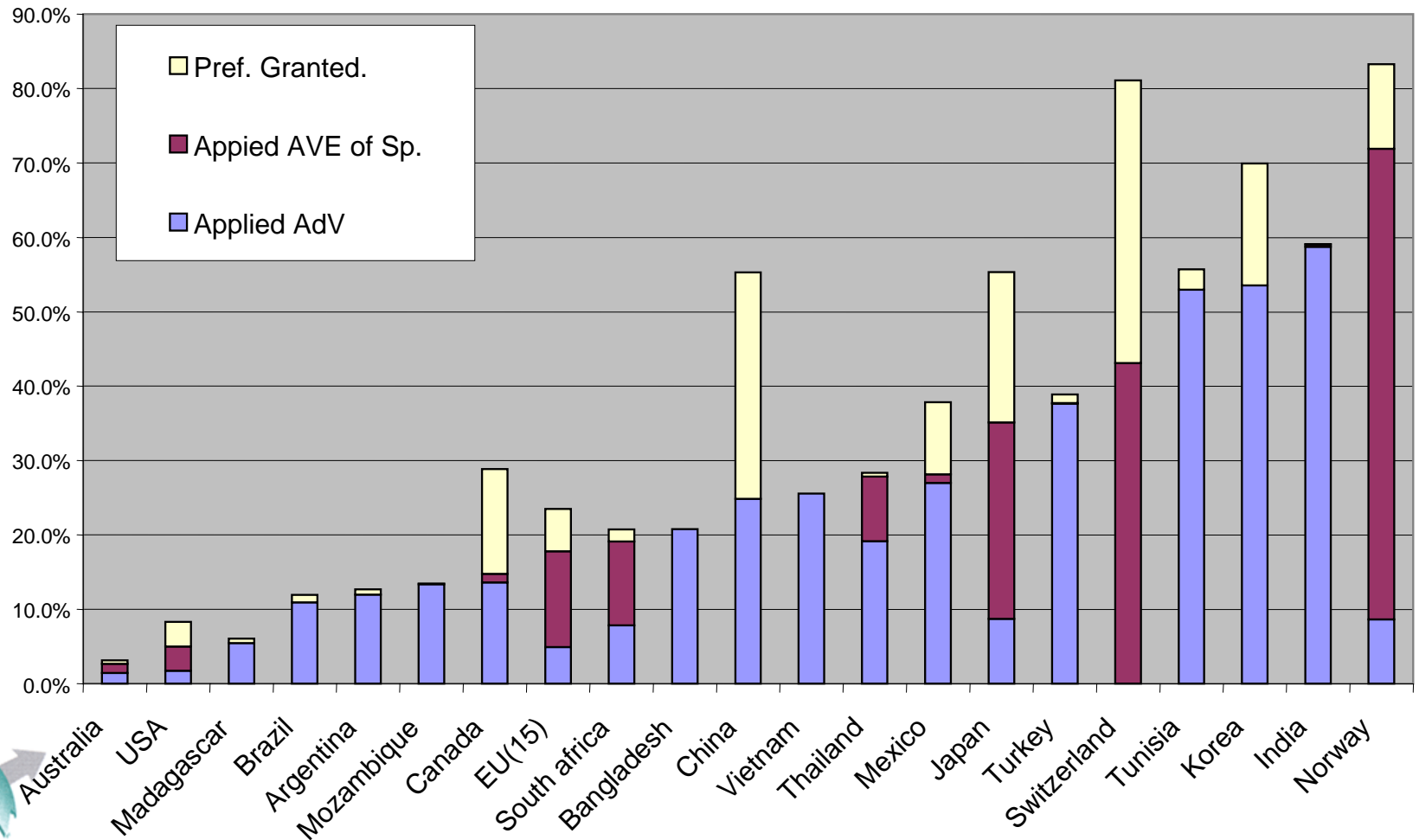
Applied Protection in 2001



Protection faced in 2001

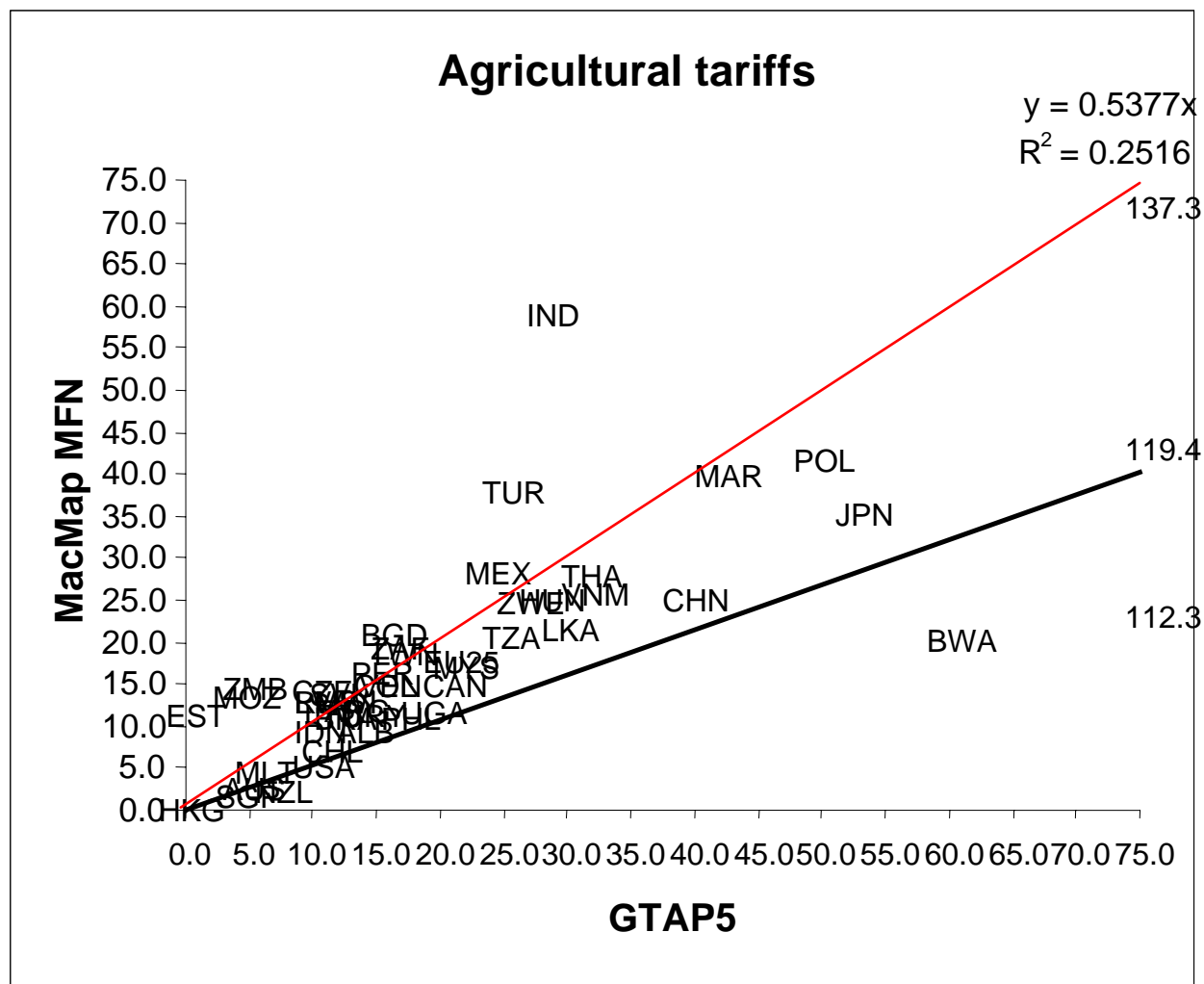


Structure of Protection

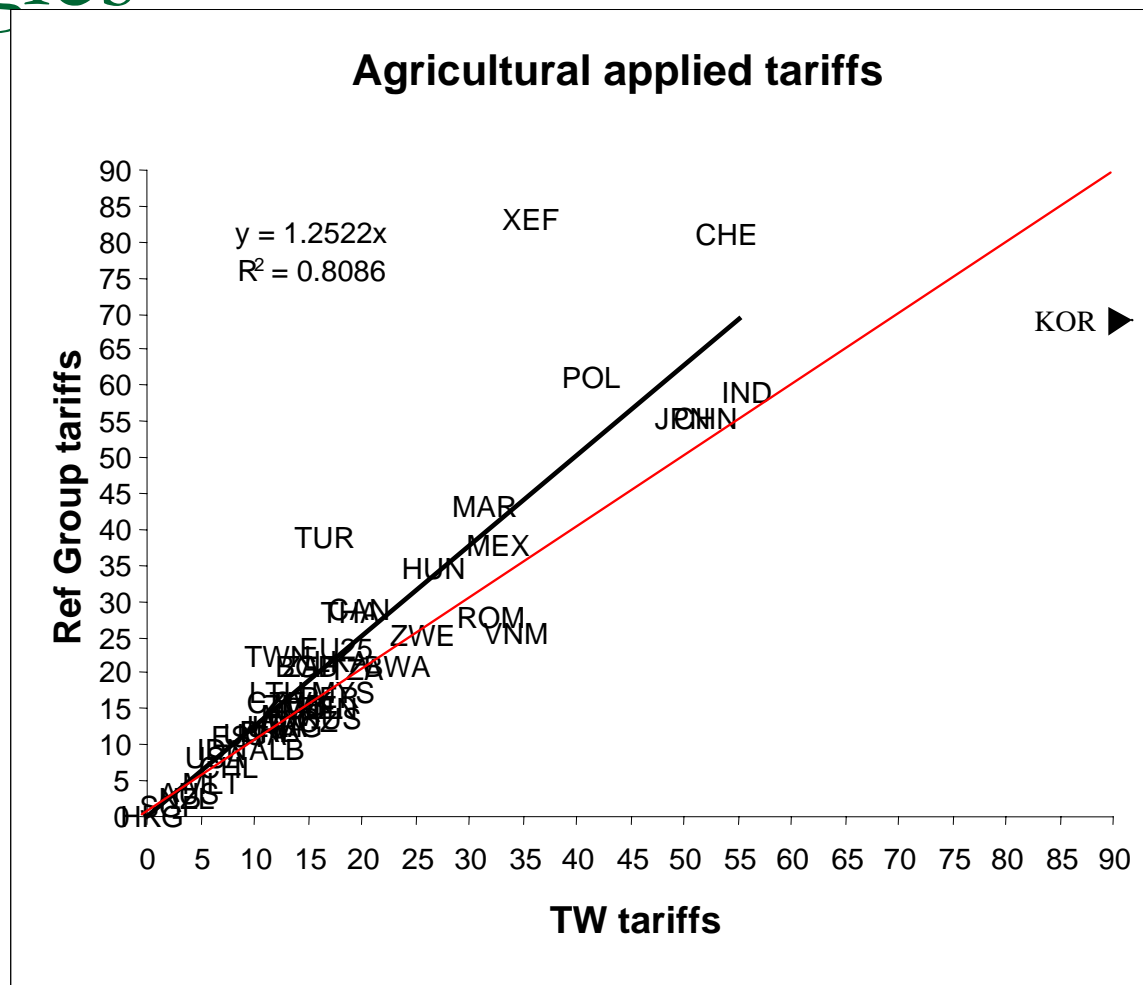


MFN MacMap tariffs vs GTAP5

Tariffs



Comparison of the aggregation Methodologies



Applications



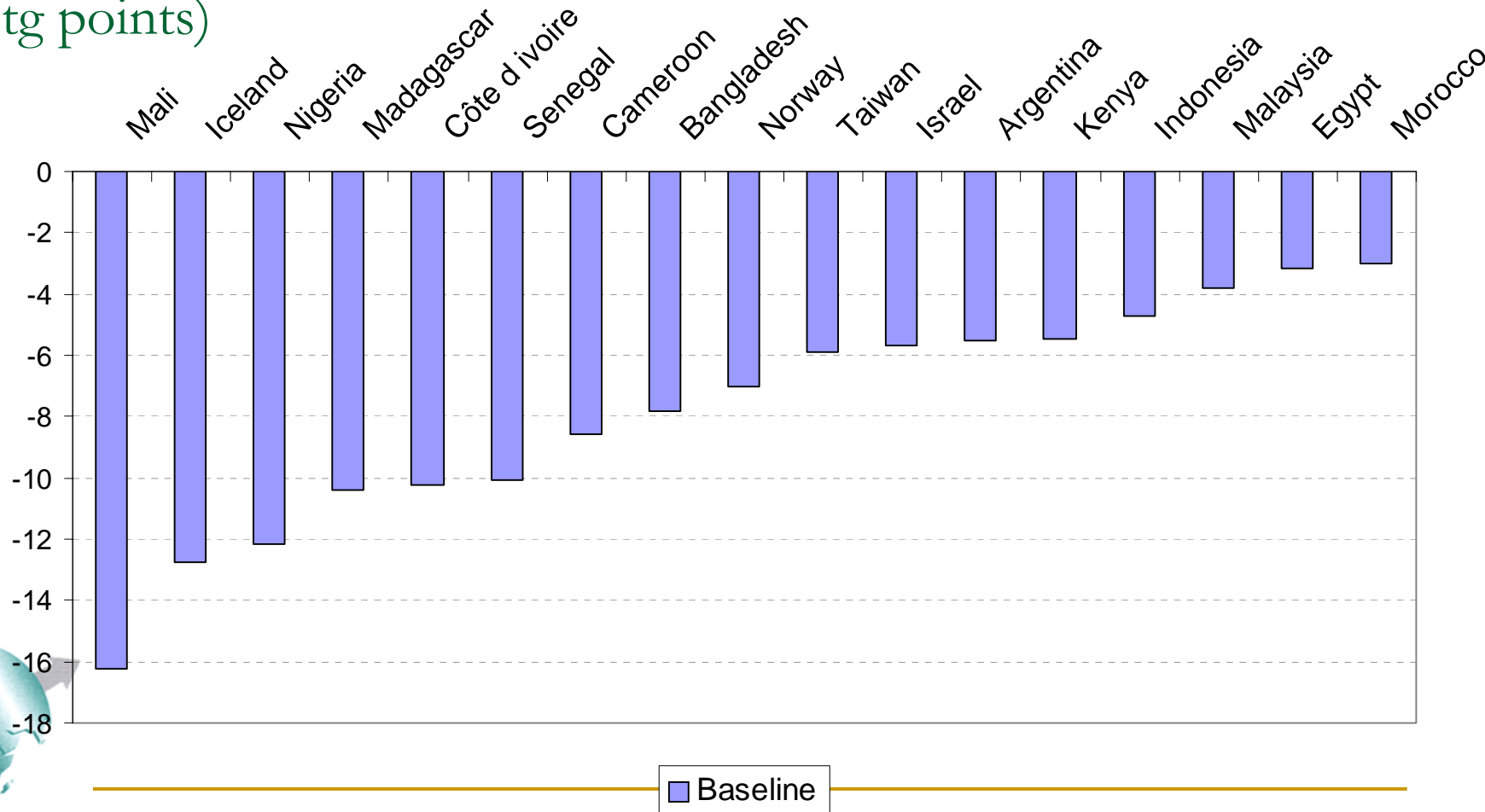
Average agricultural protection in selected rich countries, by partner (AVE, %)

Partner:	Rich	Dvg	LDC	All
Importer:				
Australia	2.3	1.3	0.4	2.0
Canada	23.9	5.9	0.4	18.5
Chile	7.0	6.9	7.0	7.0
EU-15	22.0	12.7	2.7	16.8
Japan	30.6	27.0	12.0	29.4
Korea	57.4	63.0	42.5	58.6
New Zealand	2.6	1.0	2.4	2.1
Switzerland	49.9	27.0	4.1	43.1
United States	5.1	4.3	5.5	4.9



"Apparent" preference margin

Average protection faced, difference to world average (excluding "small" countries, weighted by world exports of the exporter, pctg points)

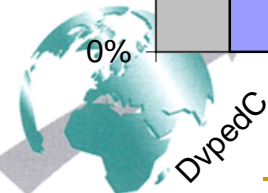
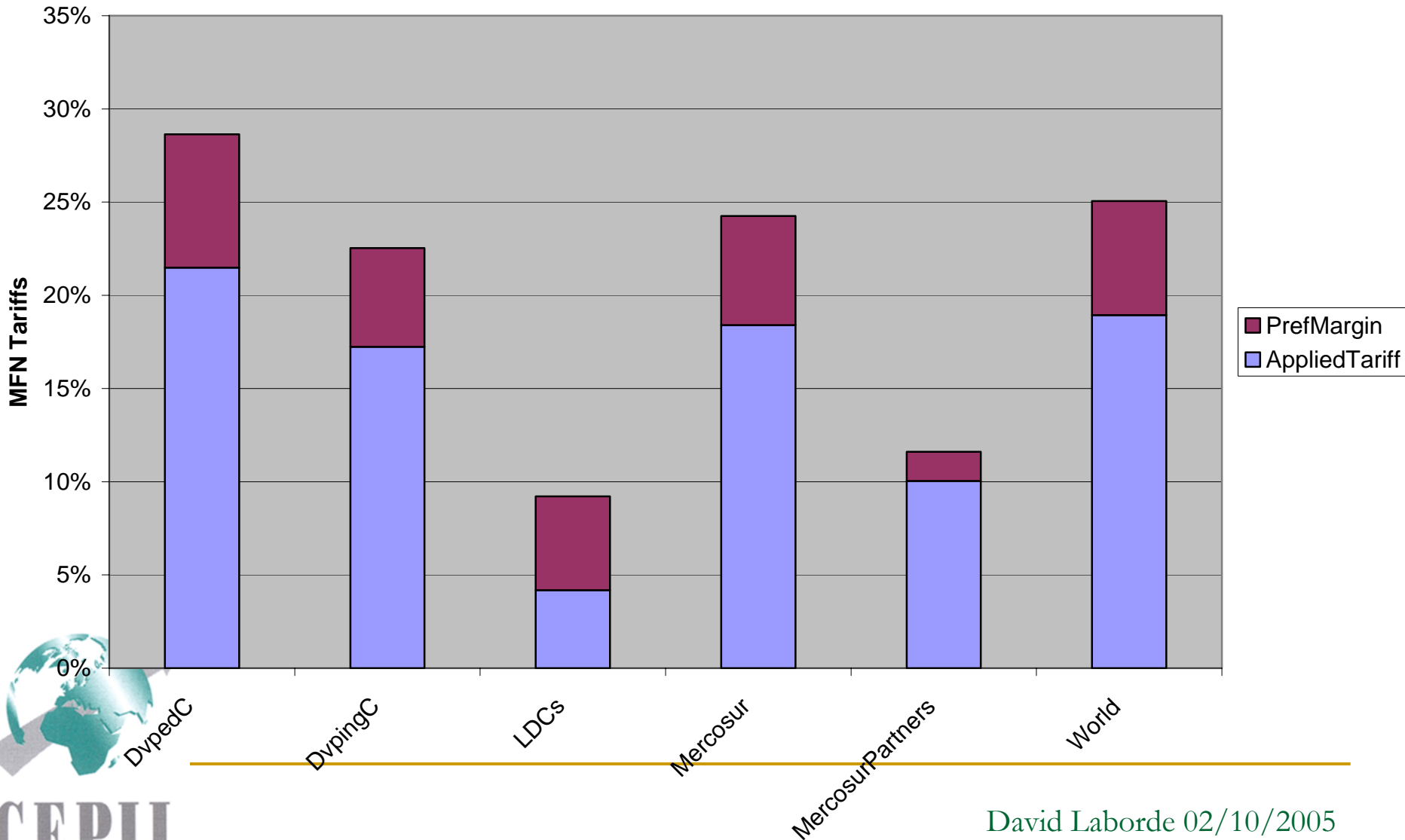


"True" average preference margin

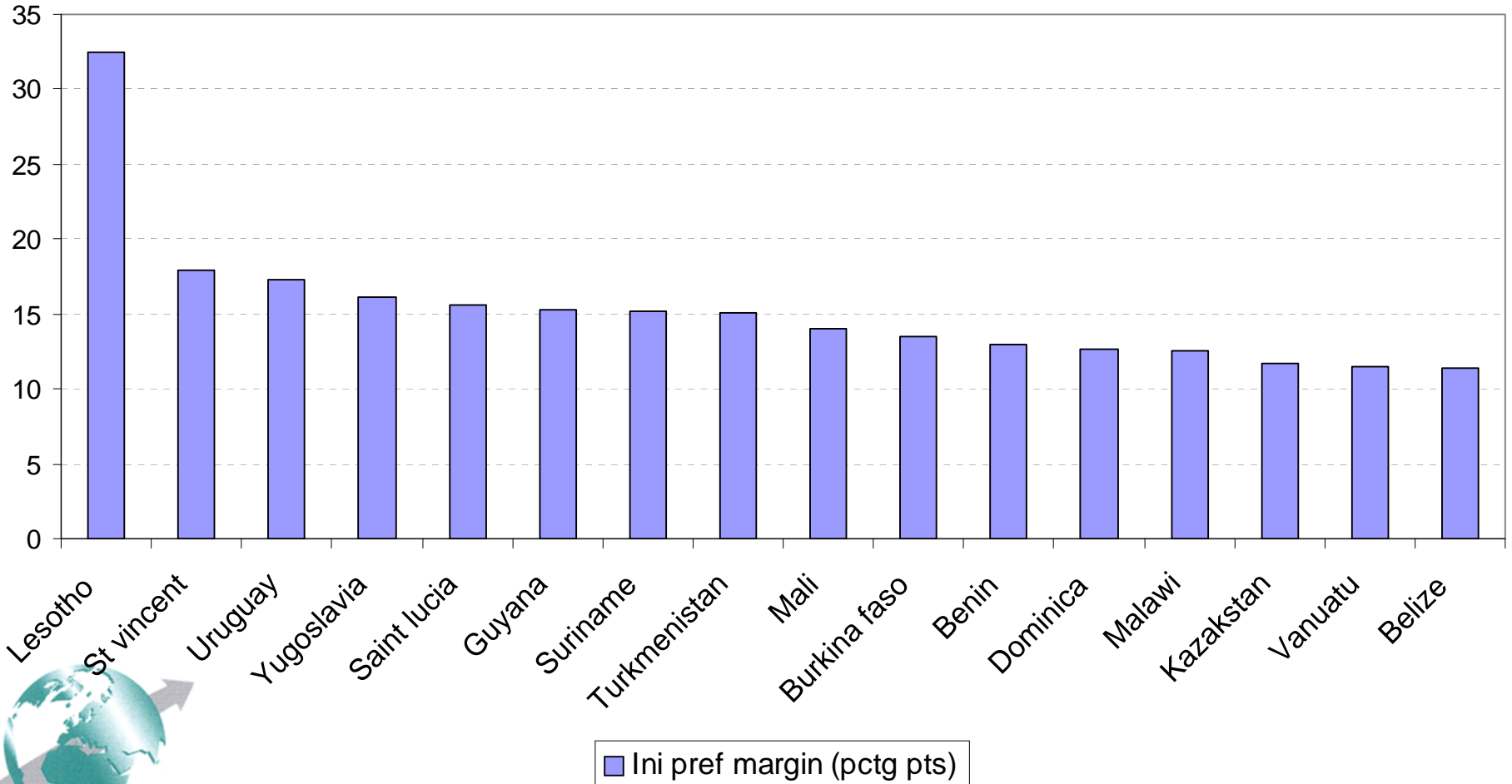
- Not the difference in average protection faced: this would largely reflect product specialisation
- Preference margin (MFN - applied) calculated at the HS6 product level
- Then aggregation of this product-by-product preference margin, using MAcMap methodology (reference group weighting scheme)



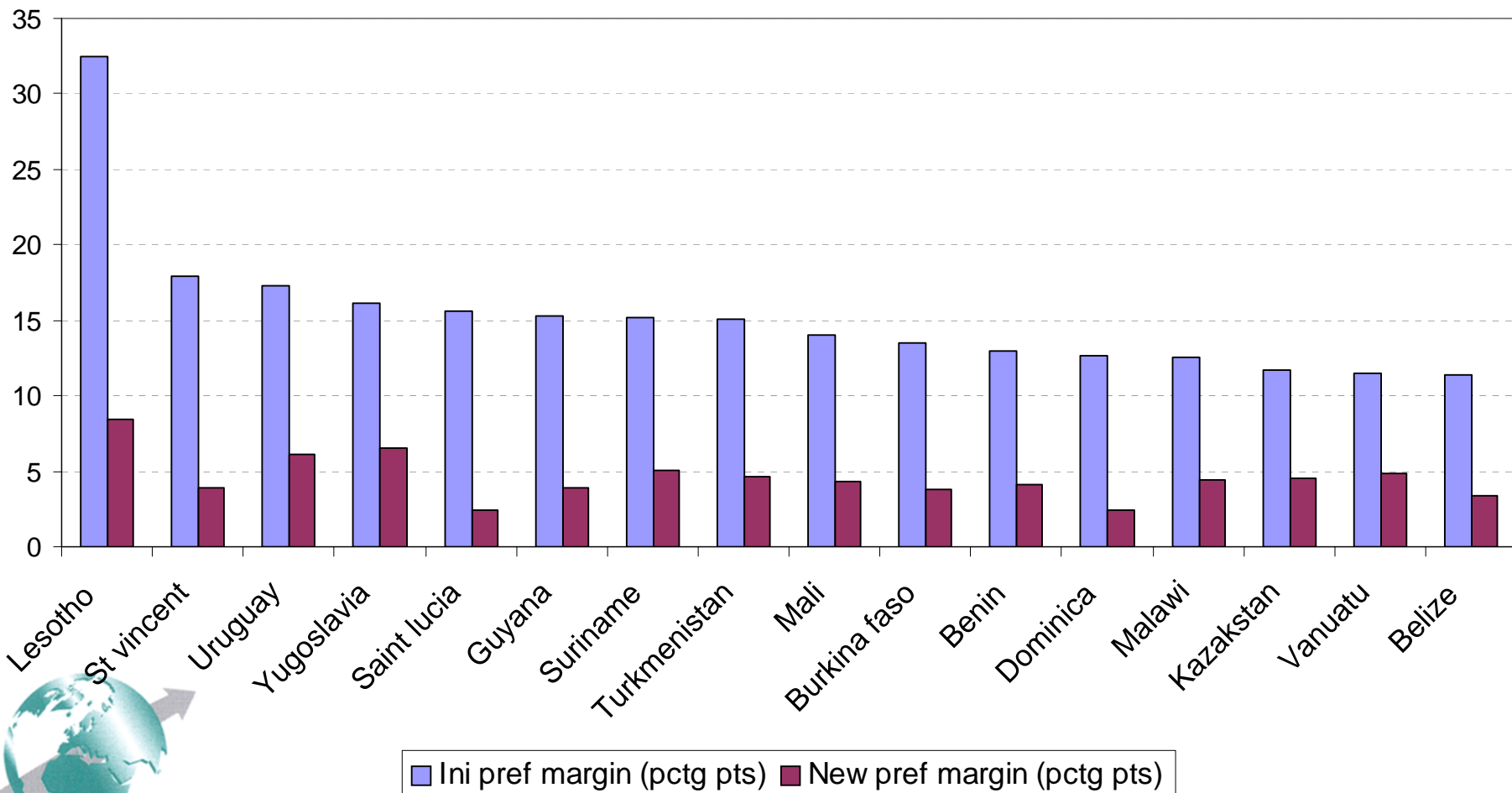
Preferential margins granted by EU



Average true preferential margin, agriculture baseline (pctg points)



Average true preferential margin, agriculture, before and after application of a tiered formula



TRQ Rents from MacMaps by importer - blns USD

