

CAREC REGIONAL INTEGRATION INDEX:

MEASURING EXTENT OF REGIONAL COOPERATION

Dr. Saeed Qadir Senior Research Officer, CAREC Institute September 7, 2017 Urumqi, People's Republic of China

Disclaimer

The views expressed in this publication are those of the authors and do not necessarily reflect the views and policies of the Asian Development Bank (ADB) or its Board of Governors or the governments they represent. ADB does not guarantee the accuracy of the data included in this publication and accepts no responsibility for any consequence of their use. The mention of specific companies or products of manufacturers does not imply that they are endorsed or recommended by ADB in preference to others of a similar nature that are not mentioned. By making any designation of or reference to a particular territory or geographic area, or by using the term "country" in this document, ADB does not intend to make any judgments as to the legal or other status of any territory or area.

SCHEME OF THE PRESENTATION

- CAREC PROGRAM AND SECOND THINK TANK FORUM
- STOCKTAKING:
 - STATE AND EXTENT OF REGIONAL COOPERATION
 - Some Comparisons Asean @ 50
 - CAREC & WTO TRADE FACILITATION AGREEMENT
- MEASURING THE EXTENT OF REGIONAL INTEGRATION
 - ASIA PACIFIC REGIONAL INTEGRATION INDEX (AP RII)
- CUSTOMIZING THE REGIONAL INTEGRATION INDEX FOR CAREC
 - SIX DIMENSIONS OF CRII
 - STEPS IN CONSTRUCTING CRII
- POLICY TAKEAWAYS: CRII- Adding Value to Policy Analysis
- WAY FORWARD AND RECOMMENDATION

CAREC PROGRAM: STOCKTAKING

- CAREC Program, now in its 16th year of operation, aims to strengthen the regional connectivity and cooperation based upon the strategic objectives of trade expansion and improved competitiveness
- The proposed Draft Strategy Paper* on CAREC 2030 envisages CAREC as

"A REGIONAL PLATFORM TO CONNECT PEOPLE, POLICIES AND PROJECTS FOR SHARED AND SUSTAINABLE DEVELOPMENT"

- CAREC 2030 entails **FIVE OPERATIONAL CLUSTERS** with emphasis on Sustainable Development Goals and Climate Change
 - Economic and Financial Stability
 - Trade, Tourism and Economic Corridors
 - Infrastructure and Economic Connectivity
 - Agriculture and Water
 - Human Development

Draft Strategy Paper "CAREC 2030:Connecting People, Policies and Projects for Shared and Sustainable Development"

CAREC TRADE AND INVESTMENT: STOCKTAKING

- Intra-CAREC regional trade is less than 2.87% (\$112 billion only out of 3.9 trillions)
- Intra-CAREC exports and imports constitute \$61.65 bn. (2.81%) and \$50.2 bn. 2.95%
- "Factory Asia" still helps explain GVC-FDI in Asia and the Pacific. Empirical findings suggest product specialization near the final stage of production processes helps attract GVC-FDI in the region.
- Intra sub-regional trade shares remain the highest in East Asia and Southeast Asia
- Global FDI Inflows to Central Asia is lowest @ 3% vis-à-vis Asia's other Sub-regions (East Asia = 59.9% and Southeast Asia = 23.8 in year 2015)*
- Share of investments (FDI) in the global value chain in the CAREC region is lowest in the Asia (excluding PRC). More than 50% of FDI is in the natural resources sector. There is little evidence of investment projects linking into regional or global value chains*.

STOCKTAKING: WHERE ARE WE?* QUALITY OF TRADE POLICY: INTERNATIONAL RANKINGS

	Overall I	Ranking	Trade Fac	eilitation ^{1/}	Trade Policy ^{2/}		
	Level in 2016	Change since 2011	Level in 2016	Change since 2011	Level in 2016	Change since 2011	
China, PRC	28	-2	55	1	78	-15	
Azerbaijan	37	18	85	20	71	57	
Kazakhstan	53	19	59	43	67	45	
Georgia	59	29	12	15	14	23	
Tajikistan	77	28	64	35	96	26	
Mongolia	102	-6	98	24	93	-1	
Kyrgyz Rep.	111	15	93	41	107	23	
Pakistan	122	-4	113	-15	112	3	
CAREC Ave	73.63	12.13	72.38	20.5	79.75	20.13	
CAREC Ave Excl PRC	80.14	14.14	74.86	23.29	80.00	25.14	

No rankings available for AFG, TKM, and UZB, Lower rank signifies better trade enabling environment. 1/ Refers to burden of customs procedures. 2016 rank out of 140 economies. 2/ Refers to prevalence of non-tariff trade barriers.

Source: Author's calculations based on data from Trade Policy Strategic Action Plan Where Are We? CAREC Trade Policy Coordinating Committee Tbilisi, Georgia, 19 June 2017 @http://www.carecprogram.org/uploads/events/2017/24-TPCC-Jun/Presentations/Session2A_Achievements_TPSAP2013-2017.pdf and http://www3.weforum.org/docs/GCR2016-2017/05FullReport/TheGlobalCompetitivenessReport2016-2017_FINAL.pdf

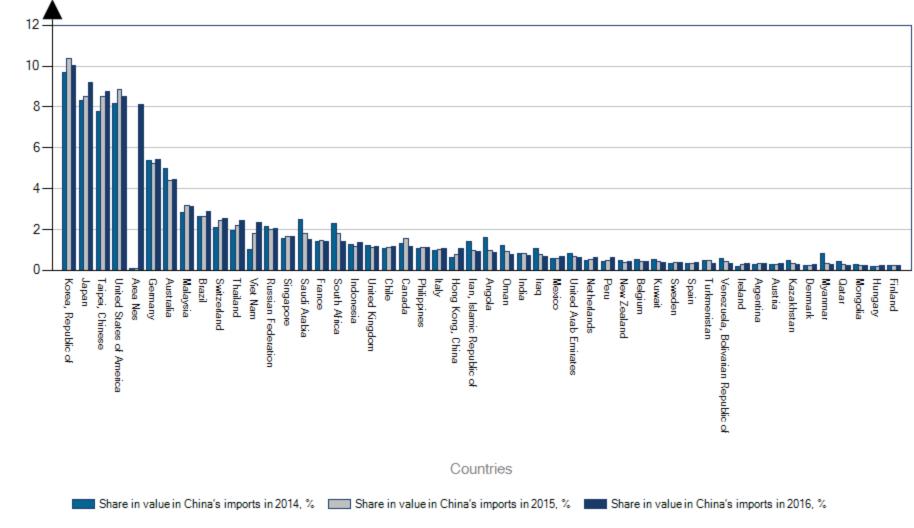
STOCKTAKING: WHERE ARE WE?* TRADE AND FACILITATION : CAREC MEMBER RANKINGS

	Trade Tariffs (% duty) Rank		Value Chain Breadth	Infrastructure	Burden of Customs Procedures
GEO	4	14	75	65	12
TJK	77	28	64	35	96
CHN	118	78	29	42	55
AZE	89	71	56	55	85
KAZ	75	67	114	63	59
MNG	59	93	123	110	98
KGZ	72	107	126	113	93
PAK	134	112	77	116	113
CAREC Ave	78.5	71.25	83	74.875	76.375
CAREC Ave Excl PRC	89.14	79.43	84.14	76.29	85.57

Source: Global Competitiveness Rankings 2016 @ https://www.weforum.org/reports/the-global-competitiveness-report-2016-2017-1

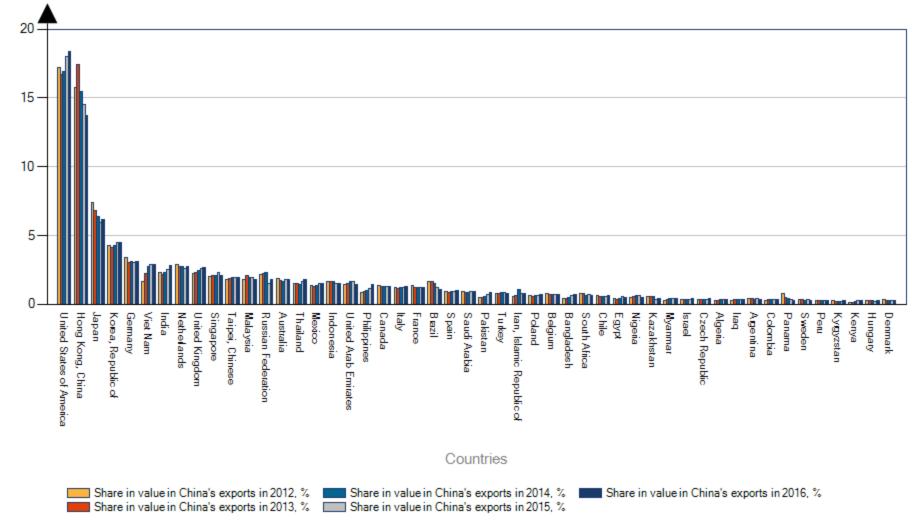
No rankings available for AFG, TKM, and UZB, Lower rank signifies better trade enabling environment.

List of supplying markets for a product imported by China Product: TOTAL All products



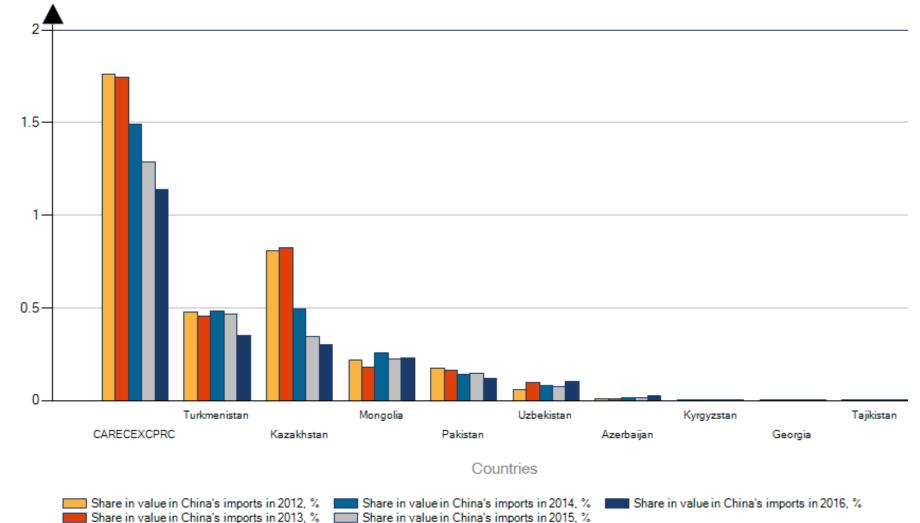
CAREC countries share in PRC imports is less than 1.7% and less than 1% in top 50 import partners Sources: ITC calculations based on <u>UN COMTRADE</u> statistics.

List of importing markets for a product exported by China Product: TOTAL All products



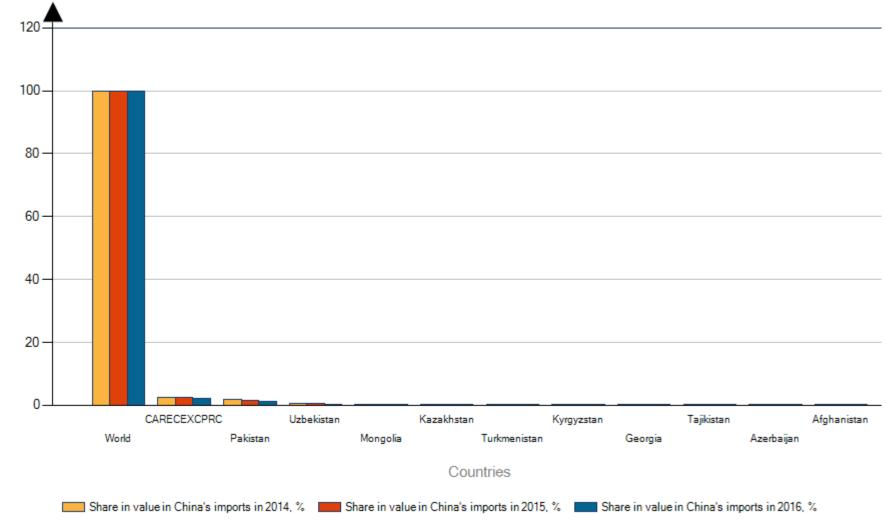
CAREC countries share in PRC Exports is less than 2% and less than 1.5% in top 50 export partners Sources: ITC calculations based on <u>UN COMTRADE</u> statistics.

List of supplying markets from CARECEXCPRC for a product imported by China Product: TOTAL All products



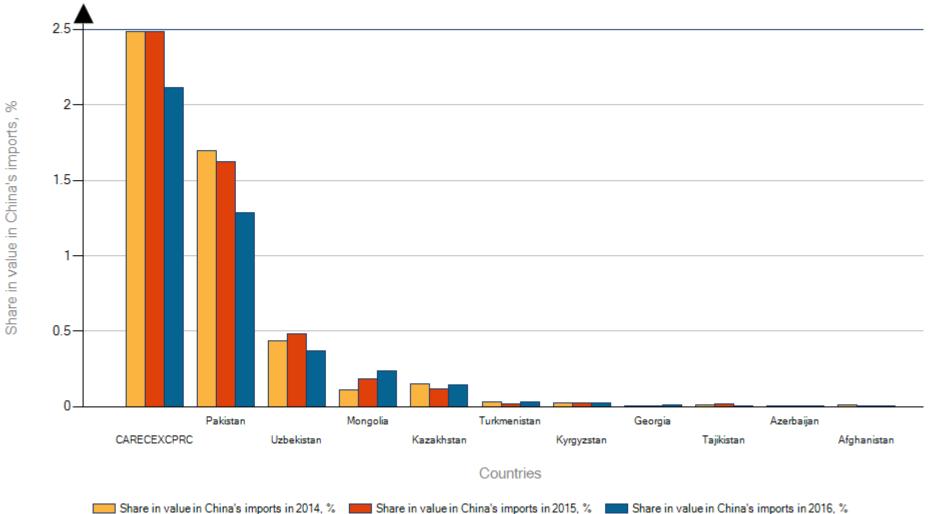
CAREC countries share in PRC imports is less than 1.7% Sources: ITC calculations based on <u>UN COMTRADE</u> statistics.

List of supplying markets from CARECEXCPRC for a product group imported by China Product group: Agriculture



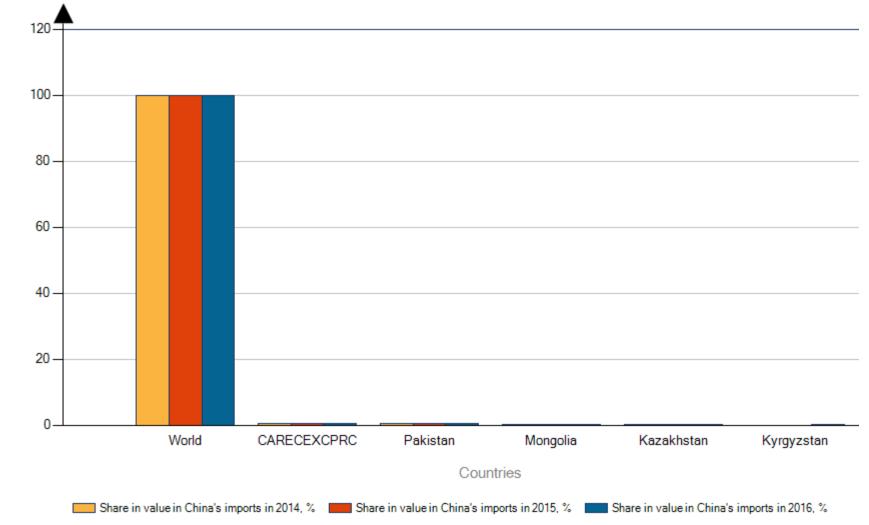
PRC Imports US\$ 117 billion Agricultural products from World. Share of CAREC is less than US\$ 2.5 b (less than 3% market share in PRC Agriculture import market share) ITC calculations based on <u>UN</u> COMTRADE statistics.

List of supplying markets from CARECEXCPRC for a product group imported by China Product group: Agriculture



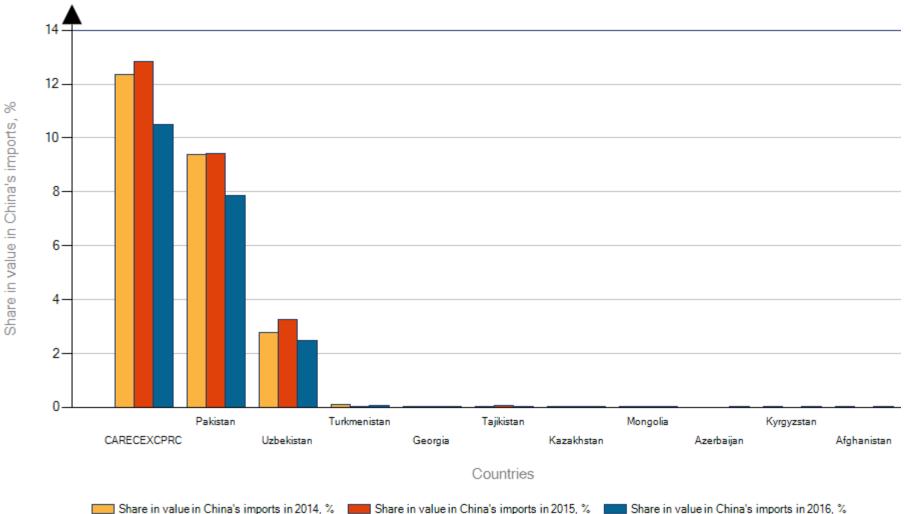
PRC Imports US\$ 117 billion Agricultural products from World. Share of CAREC is less than US\$ 2.5 b (less than 3% market share in PRC Agriculture import market share) ITC calculations based on <u>UN COMTRADE</u> statistics.

List of supplying markets from CARECEXCPRC for a product group imported by China Product group: Meat and Its processed products



PRC Imports US\$ 14.5 billion meat and its processed products from World. Share of CAREC is less than US\$ 70 million (less than 0.5 % market share in PRC meat and its processed products) ITC calculations based on <u>UN COMTRADE</u> statistics.

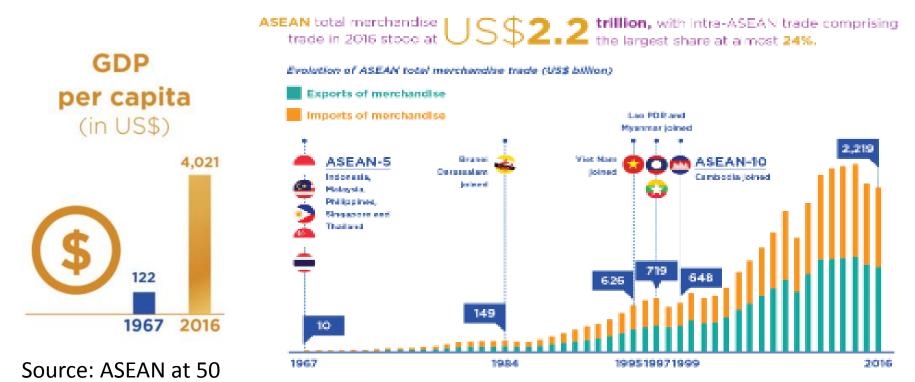
List of supplying markets from CARECEXCPRC for a product group imported by China Product group: Home textile & Clothing



PRC Imports US\$ 14.14 billion Home Textile and Clothing products from World. Share of CAREC is less than US\$ 1.48 b (less than 10.5 % market share in PRC) ITC calculations based on <u>UN COMTRADE</u> statistics.

CAREC COMPARISON VIS-VIS ASEAN @ 50 : STORY OF PROGRESS

- ASEAN exports and imports valuing over US\$1 trillion each in 2016 and US\$ 96 billion of FDI
- ASEAN now represents almost 7% of total world trade, and is collectively the world's 4th largest trade powerhouse after the major world economies of the European Union, the USA and China.



CAREC PROGRAM: LOW EXTENT OF COOPERATION SOME THOUGHTS AND ANALYSIS

	Movement in Trade and Investment				Movement	t in Capital People Movement					ent			
	Trade	e (%)	FDI	(%)		juity ings (%)		ond ings (%)	Migra (%		Tour (%		Remitta (%)	
	20	15	201	15	2	015	2	015	20	5	201	4	201	5
Within Subregions														
ASEAN+3 (including HKG) ¹	47.1		48.4	•	14.6	•	12.1	•	40.0		72.2	•	33.7	
Central Asia	8.9		3.8		0.0	•	-		9.3	•	36.3	▼	7.2	
East Asia	36.8		47.1	•	11.7	•	8.3	•	34.6	•	60.5	•	35.5	•
South Asia	5.5		0.6	•	0.9		2.1	A	26.2	•	12.2		15.2	
Southeast Asia	23.7	•	17.6	•	7.2	•	8.9	•	34.1		68.2	•	14.7	
The Pacific and Oceania	6.7	•	17.7		5.3	A	1.0	•	56.3		19.7		30.4	•

• Central Asia as a Sub-Regional Group fare lowest amongst all the regional trading blocs in terms of Intra-Regional Movement in Trade & Finance; Capital, And People vis-à-vis other Trading Blocs in Asia Except South Asia.

Source: Asian Economic Integration Report 2016 (page 180)

HIGHER COST OF DOING BUSINESS -LOGISTIC PERFORMANCE INDEX RANKINGS

- CAR region takes 203 days to export in 2016 and LPI score of 66, on average
- The time costs are highest from any standard and needs immediate attention 0 to bring down the time to export the goods from Central Asian Republics

	Time to	Export	Time to Impo		
	2015	2016	2015	2016	
Central Asia	209	203	80	77	
-					
Azerbaijan	69	62	73	68	
			-	1.1	
Kazakhstan	265	261	8	8	
Kyrgyz Republic	51	41	73	73	
Tajikistan	141	141	234	234	
Turkmenistan	-	-	-	-	
Uzbekistan	286	286	285	285	

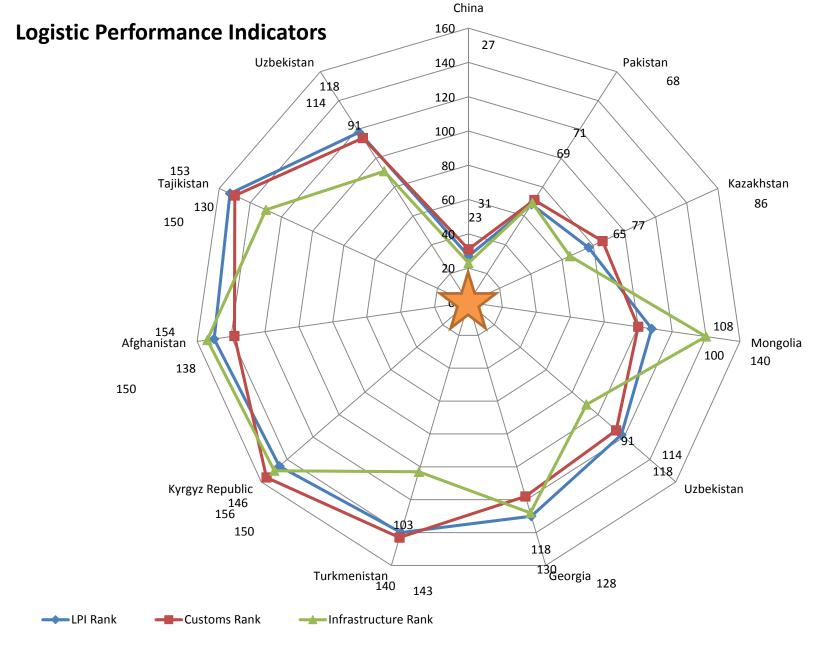
Time to Export or Import—Asia (hours)

Table

				_
Time to Export		Time to	Import	
2015	2016	2015	2016	
200	202	00	77	Central Asia

	2012	2014	2016
Central Asia	68.5	68.3	66.4
		-	
Azerbaijan	65.2	65.3	63.3
Kazakhstan	70.8	70.9	69.8
Kyrgyz Republic	61.8	61.9	57.1
Tajikistan	60.0	60.1	65.4
Turkmenistan	-	-	59.6
Uzbekistan	64.8	64.9	61.9

Logistics Performance Index (LDI) Scores-



Lower LPI refers to seamless trade infrastructure and facilities. PRC ranks no. 1 in CAREC and 27^{th} Globally

TRADE FACILITATION (LPI) AND TRADE GROWTH-EMPIRICAL EVIDENCE

- The impact of LPI for trade growth analyzed: the "overall trade in the Central Asian countries increases by 44% from improvements in LPI and such increase in intra-Central Asia trade doubles*.
- Trade Facilitation has a positive and significant impact on bilateral trade flows. On the exporter side, infrastructure has the greatest impact on trade flows; and on the importer side, customs efficiency has the greatest impact on trade flows." (Felipe & Kumar, 2010)
- The above analysis reveals that intra-regional trade facilitation and beyond is the key for the Central Asian Economies to develop and sustain economic growth over the long term.

TRADE COSTS MATTER-WTO TRADE FACILITATION AGREEMENT

- Trade costs (like tax) inflate prices and delay the delivery time
- TC adds up to 219% tariff equivalent burden in developing countries*
- Reductions in time and costs to trade can enhance competitiveness and aid in integration with global value chain
- WTO TFA, entered into force on February 22, 2017 contains provisions on transit trade facilitation and expediting the movement, release and clearance of goods
- Full implementation of WTO Agreement on Trade Facilitation (TFA) will reduce trade costs of manufactured goods by 18 per cent and of agricultural goods by 10.4 per cent

CAREC & WTO TRADE FACILITATION AGREEMENT

- 8 out of 11 CAREC member countries are landlocked
- All CAREC WTO Member countries (PRC, Georgia, Kazakhstan, Kyrgyz Republic, Mongolia, Pakistan and Tajikistan except Afghanistan) have notified their Category A Commitments
- CAREC can also help implement TFA commitments
 - Transport and Trade Facilitation Committees
 - Implement Category A designations
 - Assist in preparing Category B and C designations
 - Technical Assistance and Capacity Building Need Assessments requirements and implementation support
 - Special assistance for landlocked least developed countries (Afghanistan and Tajikistan)
 - Digitizing of Customs and soft infrastructure development by upgrading CAREC initiatives like CPMM, TRS, Advance Transit System (CATS); Single Window etc.

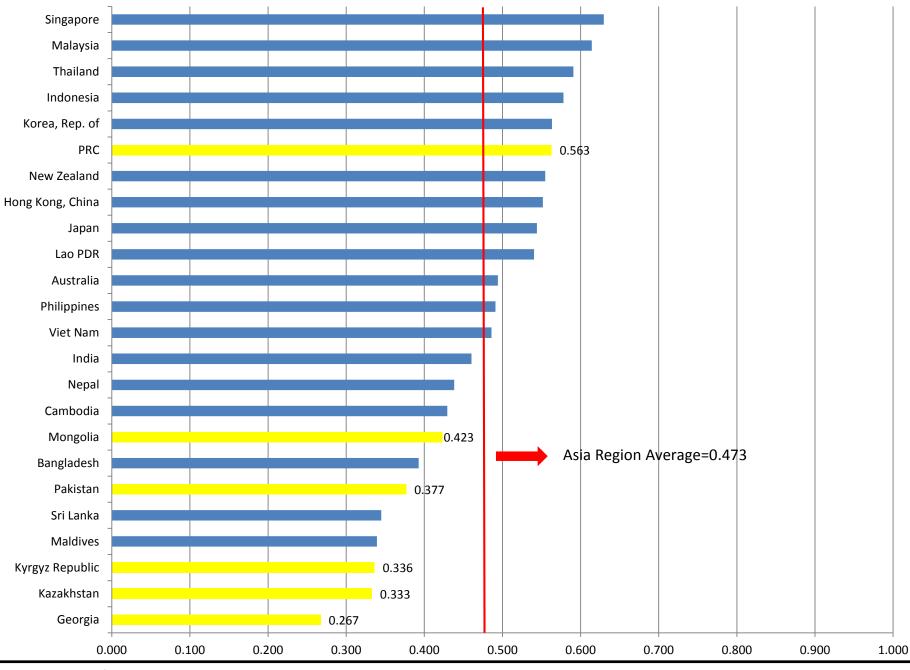
TRADE COMPLEMENTARITIES

- CAREC countries have competitive and locational edge (per unit costs are low, availability of raw-materials, and market access and proximity with global markets)
- East Asia, Southeast Asia and PRC together represents huge trade block for CAREC countries
- China has excess capital and technological advantages
- CAREC integration will spur competitive Complementarities for all members
- CAREC Program as a regional platform (unlike a formal Free Trade Agreement or Customs Union) offers flexibility to member countries to pursue economic integration agenda while safeguarding their national developmental objectives
- Framework for connecting People, Policies and Projects requires minimum cooperation for trade and investment liberalization.

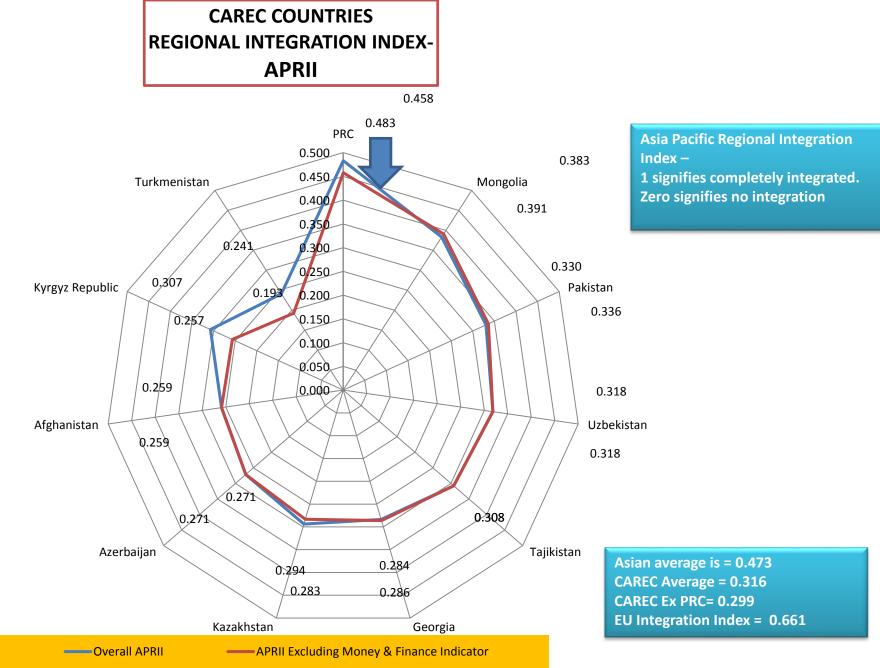
MEASURING THE EXTENT OF CAREC REGIONAL ECONOMIC INTEGRATION

ASIA PACIFIC REGIONAL INTEGRATION INDEX (APRII)

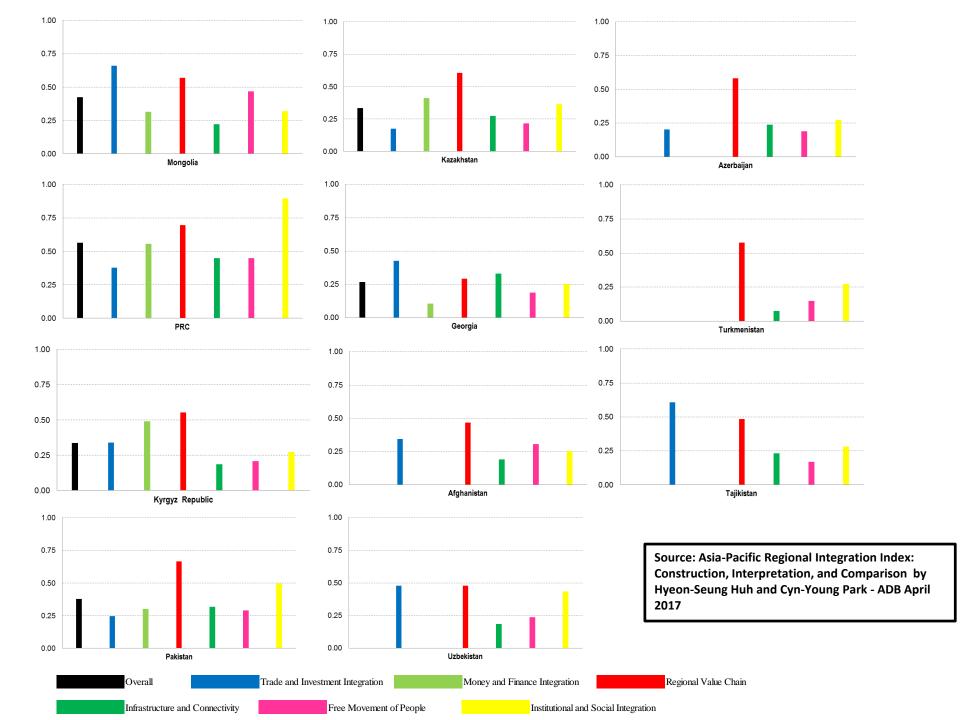
- measure the degree of regional integration in Asia and the Pacific.
- comprises of 26 indicators in six dimensions of regional integration, i.e., trade and investment, money and finance, regional value chains, infrastructure and connectivity, free movement of people, and institutional and social integration
- assess the state of regional integration on diverse socioeconomic dimensions, evaluate progress against goals, identify strengths and weaknesses, and track progress



Source: Asia-Pacific Regional Integration Index: Construction, Interpretation, and Comparison by Hyeon-Seung Huh and Cyn-Young Park - ADB April 2017

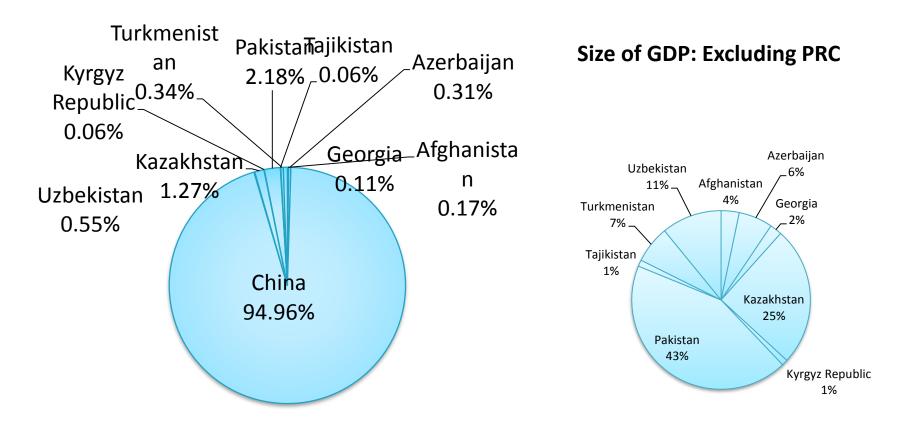


Asia-Pacific Regional Integration Index: Construction, Interpretation, and Comparison by Hyeon-Seung Huh and Cyn-Young Park - ADB April 2017



WHY CAREC REGIONAL INTEGRATION INDEX

- Size Asymmetry: Economic analysis of the CAREC countries as a group poses a special challenge because of the wide range in the sizes of the economies: China accounts for 95% of region's GDP; 94% Foreign Trade as well as 81.7 percent of the region's population in 2006.
- Kyrgyz Rep., Mongolia and Tajikistan each account for about 0.1 percent of the region's GDP. Pakistan, Kazakhstan and Uzbekistan account for about 80 percent of GDP of the CAREC excluding the PRC" subgroup with 47.2 percent, 22.2 percent and 11.1 percent of subgroup's GDP respectively in 2016
- Because of large variation, indicators "CAREC Total" or "CAREC Average" need to be interpreted with care
- CRII will analyze for CAREC, CAREC Excl. PRC



CAREC Countries GDP

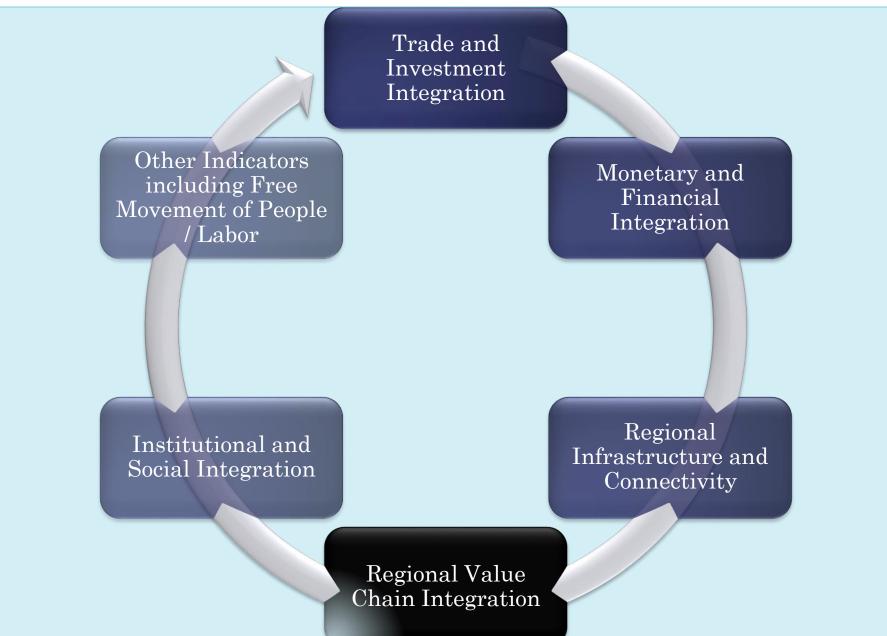
CAREC REGIONAL INTEGRATION INDEX -CRII

- measures the depth and breadth of regional economic cooperation
- a weighted index comprising of <u>six distinct spheres</u> (<u>dimensions</u>)
- On scale of 0 (low) to 1 (Full) Economic Cooperation
- provides a user-friendly tool to assess the state of the integration in each of the dimensions and identify gaps.
- provides a menu of suggestive measures (policy coordination and harmonization) for a targeted strategy and action plan to boast the regional cooperation and economic integration process among the CAREC region and beyond.

STEPS IN CONSTRUCTING CRII

- Calculate all 26 sub-indicators for six dimensions each for CAREC and CAREC Excl. PRC
- Data Normalization is carried-out to express indicators up to the same standards
- Assign weights to each dimension based on Principal Components Analysis (PCA) and Gap Analysis Techniques
- Aggregation of sub-indicators and combing the six dimensional composite index to develop CRII for CAREC member countries
- Gap Analysis and Targeted Policy Measures Matrix to provide policy recommendations

SIX DIMENSIONS OF THE CRII



STEPS IN CONSTRUCTING CRII

Dimension	Indicat	or	Data source
I.	I-a	Proportion of intra-regional goods exports to total goods exports	Direction of Trade, IMF
Trade and	I-b	Proportion of intra-regional goods imports to total goods imports	Direction of Trade, IMF
Investment	I-c	Intra-regional trade intensity index	Direction of Trade, IMF
Integration	I-d	Proportion of intra-regional FDI inflows to total FDI inflows	Greenfield FDI: FDI Markets,
	I-e	Proportion of intra-regional FDI inflows plus outflows to total FDI inflows plus outflows	M&A FDI: Zephyr
II.	II-a	Proportion of intra-regional cross-border equity liabilities to total cross-border equity liabilities	Coordinated Portfolio Investment
Money and	II-b	Proportion of intra-regional cross-border bond liabilities to total cross-border bond liabilities	Survey, IMF
Finance	II-c	Pair-wise dispersion of deposit rates averaged regionally relative to that averaged globally	ADB using various sources
Integration	II-d	Pair-wise correlation of equity returns averaged regionally minus that averaged globally	ADB using various sources
III. Regional Value	III-a	Ratio between the averaged trade complementarity index over regional trading partners and the averaged trade complementarity index over all trading partners	UNCTAD
Chain	III-b	Ratio between the averaged trade concentration index over regional trading partners and the averaged trade concentration index over all trading partners	UNCTAD
	III-c	Proportion of intra-regional intermediate goods exports to total intra-regional goods exports	UNComtrade
	III-d	Proportion of intra-regional intermediate goods imports to total intra-regional goods imports	UNComtrade
IV. Infrastructure	IV-a	Ratio between the averaged trade cost over regional trading partners and the averaged trade cost over all trading partners	World Bank/UNESCAP
and Connectivity	IV-b	Ratio between the averaged liner shipping connectivity index over regional trading partners and the averaged liner shipping connectivity index over all trading partners	UNCTAD
	IV-c	Logistics performance index (overall)	World Bank
	IV-d	Doing Business Index (overall)	World Bank
V.	V-a	Proportion of intra-regional outbound migration to total outbound migration	UN Population Division
Free Movement	V-b	Proportion of intra-regional tourists to total tourists (inbound plus outbound)	WTO
of People	V-c	Proportion of intra-regional remittances to total remittances	World Bank
	V-d	Proportion of other Asian countries that do not require an entry visa	National sources
VI.	VI-a	Proportion of other Asian countries that have signed FTAs with	DESTA
Institutional and	VI-b	Proportion of other Asian countries that have an embassy	Europa World Yearbook
Social	VI-c	Proportion of other Asian countries that have signed business investment treaties with	UNCTAD, DESTA
Integration	VI-d	Proportion of other Asian countries that have signed double taxation treaties with	UNCTAD
	VI-e	Cultural proximity with other Asian countries relative to that with all other countries	CEPII

CRII- Adding Value to Policy Analysis

- The CRI index will filter out the asymmetries that exist in the CAREC member economies' structure, size and scope.
- Weights to each of the six indicators would be assigned using both the Principal Component Analysis (PCA) Technique and gap and situational analysis – it will measure the variance of these indicators vis-a-vis actual level of regional integration.
- Proxy variables for missing data: Data availability constraints especially on CAREC Money & Finance and Infrastructure connectivity Indicators pose a challenge
- Identify policy gaps and provide perspectives and roadmap at national and regional level to attain the higher regional integration milestones as per following **Gap Analysis and Targeted Policy Measures Matrix**

WAY FORWARD AND RECOMMENDATION

- Regional formal arrangements to open up market access opportunities by eliminating tariff, non-tariff and other barriers to trade (behind-the-border and at-the-border)
- Liberalization of Trade in Services (all four modes of Services)
- Harmonization of Regulatory regime
- Lower the Trade Costs to spur economic competitiveness
- Look **East & Focus on Regional Markets -** East Asia, Asian, Eurasian
- Trade Promotion and Trade Finance (Export-Import Bank, Insurance)
- Trade Adjustments Support to vulnerable sectors and address developmental challenges
- Level Playing market rules for domestic Small and Medium entrepreneurs' and industrial sector
- Special and Differential Treatment for all 8 landlocked economies
- Open and inclusive Regionalism non-discriminatory treatment to most competitive products, sectors and partners

thanks and QYA

WTO -TRADE FACILITATION AGREEMENT

Section I

Trade Facilitation and Customs Cooperation,

Art.1 Publication Art.2 Consultation

Art.3 Advance ruling

Art.4 Appeal/Review

Art.5 transparency.

Art.6 Fee and Charges

Art.7 Clearance

Art.8 Border Agency Cooperation

Art.9 Movement of import goods

Art.10 Formalities

Art.11 Transit

Art.12 Customs cooperation

Section II

Special and Differential Treatment for Developing Countries and LDCs

Each developing and LDC country Member will categorize each measure into one of three

Category A: at time Agreement enters into force (one year later for LDCs);

Category B: Entry into force + (X) time to implement

> Category C: After Technical Assistance & Capacity Building

Section III

Institutional arrangements

•Committee on Trade Facilitation

•National Committee on Trade Facilitation