





RISK MANAGEMENT

IN A CHANGING ENVIRONMENT



1st CAREC Capital Market Regulators' Forum

Derivative Market Development

August 29-30, 2019, Islamabad

Our Distinguished Panel

regionalization

- ➤ Mr. Ejaz Ali Shah: Managing Director, Pakistan **Mercantile Exchange (PMEX)**
- > Topic: Efforts & challenges in developing equity > Topic: The PMEX Experience & Growth of derivatives at the Pakistan Stock Exchange commodity markets and the impact

- Mr. You Hang: Director & China Consortium Representative on the PSX Board & Head of International Business Development at the **China Financial Futures Exchange**
- > Topic: Exchange Traded Derivatives in China

► Mr. Usman Hayat: CEO Audit Oversight Board (AOBP)

- Mr. Amin Dawood Saleh: Head International Bonds & Derivatives Unit, Bank Alfalah, Pakistan
- > Topic: Some considerations to increase the activity and engagement from stakeholders



What Are Derivatives?



Derivation from underlying asset class: As the name implies, these are financial products that are derived from the value of an underlying asset, mainly:

FX Fixed Income Interest Rates
Equities Commodities Credit

- ➤ Type by Platform: Exchange Traded or Over The Counter (OTC)
- ➤ Type by Product: Fundamentally four types: Forwards, Futures*, Options** & Swaps
- ➤ Hedging: They are most commonly used to hedge the value of the underlying liability from rising or of the underlying asset from eroding in volatile markets

- ➤ Yield-Enhancing: Used to create leveraged, yieldenhancing assets to optimize risk/return requirements of various classes of investors
- ➤ Cost Reduction: Used to reduce borrowing costs embedded option structures
- ➤ Wide Range: The derivatives market has grown to encompass pretty much all asset classes in the world
 we even have a vibrant Weather Derivatives Market
- Leverage Effect: The risk is that since derivatives are based on the value of an underlying assets, a significant downward move in asset value can cause a sharper change in the value of the related derivative
- Competent Regulation: Derivative markets must be competently regulated otherwise they can pose significant systemic risks

^{*} Only Exchange Traded

^{**}Also Exchange Traded

The Derivatives Market

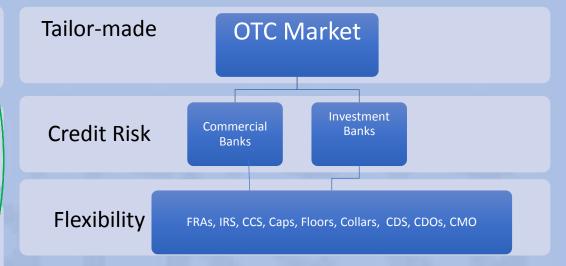


Our Focus

Exchange Traded Derivatives

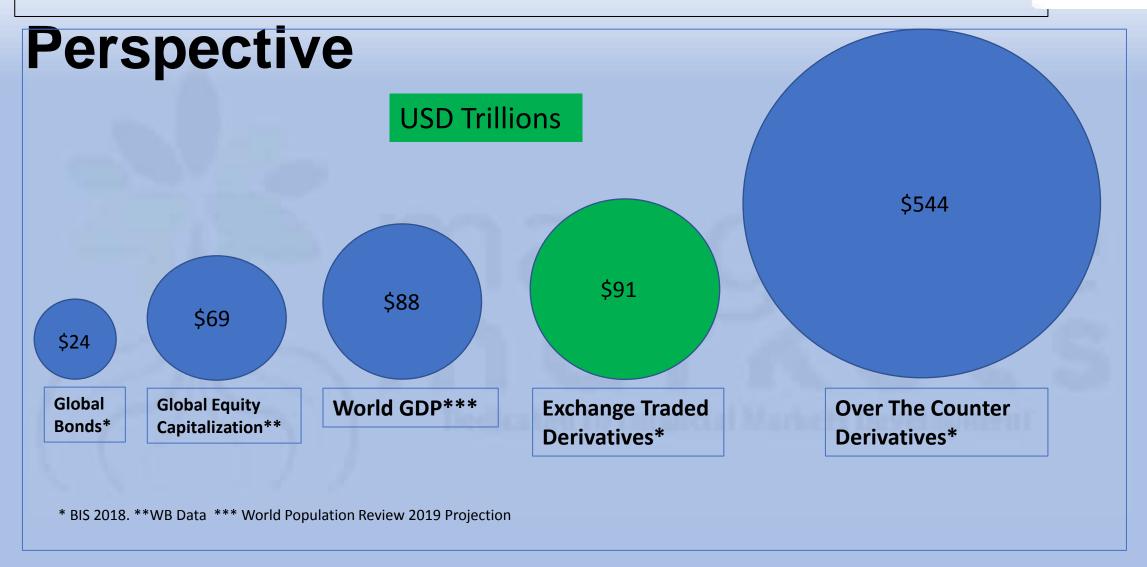
Financial Standard **Exchanges Contracts** Minimal Securities **Futures Exchanges Exchanges** Credit Risk Shares, Liquidity **Futures Options** Warrants, Options

Over The Counter Derivatives





Global Derivatives Market



PSX Experience in Equity Futures Contracts

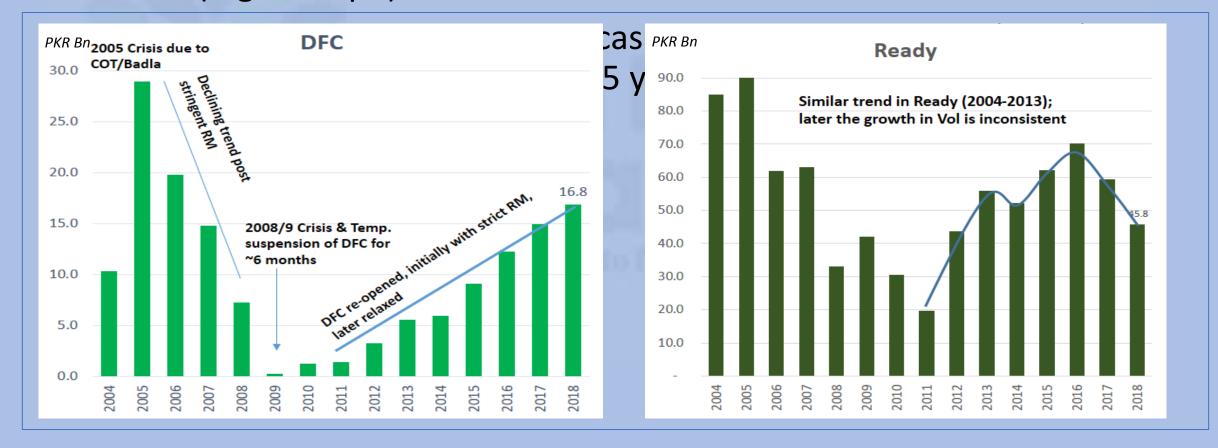


- Currently three type of Futures contracts are available at PSX:
 - I. Deliverable Futures Contracts (DFC) on Single Stocks
 - II. Cash Settled Futures Contracts (CSF) on Single Stocks
 - III. Stock Index Futures Contracts (SIFC)
- ➤ DFCs were launched in 2003, CSF were launched in 2007 and SIFC were launched in 2008
- > The most successful has been the DFC:
 - ➤ A 30 day contract
 - The Opening of the Contract is Monday, preceding the last Friday of the month
 - The Expiration of the DFC is the last Friday of the calendar month
- > DFC contracts are traded for 56 stocks



Historical Trading Volume in DFC vs Cash Market

 DFC volumes (Left Graph) have risen and fallen in line with the cash market (Right Graph)





CAREC Derivative Market

		CAREC Countries										
Category	Sub-category	PRC	PAK	KAZ	GEO	TKM	KRZ	UZB	MON	AFG	AZB	TAJ
Cash Markets	FX Spot	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	X		\checkmark	\checkmark	
	Govt. Securities	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark		\checkmark	\checkmark	
	Corporate debt	\checkmark	\checkmark	\checkmark	\checkmark	Х	Χ	\checkmark		Χ	\checkmark	
	Debt Repo	\checkmark	\checkmark	\checkmark	\checkmark	Х	Χ	X		Χ	\checkmark	
OTC Derivatives	FX Forwards	\checkmark	\checkmark	\checkmark	\checkmark	Х	Χ	X		Χ	\checkmark	
	Cross Country Swaps (CCS)	\checkmark	\checkmark	X	Х	Х	Х	Х		Χ	\checkmark	
	Interest Rate Swaps (IRS)	\checkmark	\checkmark	Х	X	Х	Χ	X		Χ	\checkmark	
	FX Option (FXO)	\checkmark	X	Х	X	Х	Χ	X		Χ	\checkmark	
	Equity Derivatives (EQD)	\checkmark	X	\checkmark	X	Х	Χ	X		X	Х	
Exchange Traded Derivatives (Futures)	Equity	\checkmark	\checkmark	\checkmark	Х	Х	Χ	Х		Х	Х	
	FX	\checkmark	X	\checkmark	Х	Х	Х	Х		Х	Х	
	Interest Rates	\checkmark	X	Х	Х	Х	Х	Х		Х	Х	
	Energy Metals	\checkmark	\checkmark	Х	Х	Х	Х	Χ		Х	Х	
	Agri	\checkmark	\checkmark	Х	X	Х	Х	Х		Х	Х	