

# Pakistan's first Multi-Assets' Custodian Company for the Servicing of the Digitized Financial & Real Assets



#SecuringYourAssets

#FundsTrusteeServices #SecuritiesCustodyServices  
#REITTrusteeServices #DigitalCustodianServices  
#IndependentEscrowServices #SourcecodeEscrowServices  
#DeedsDepositoryServices #ShareRegistrarServices  
#StocksPledgingServices #e-VotingServices

#UnitizeYourPortfolio #DigitizeYourAssets  
#CollateralizeYourHoldings #DigitizeYourPropertyTitles  
#MonetizeYourInvestments

#MultiAssetsCustodianCompany #SecuritiesServicesCompany  
#AssetsTrusteeCompany #dSharesRegistry



# DCCL's Unique Attributes

**“To become a ‘portfolio unitization platform’ for the servicing of the digitized financial & real assets.”**

- DCCL is Pakistan's first Multi-Assets' Custodian Company for the servicing of the digitized financial & real assets.
- DCCL has obtained multiple licenses and approvals from the SECP & SBP, enabling it to operate as under:

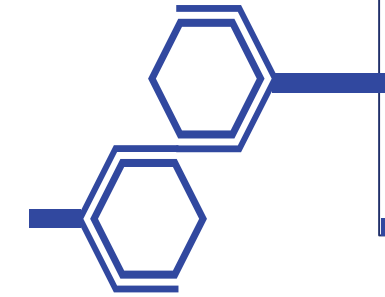
**Founded**  
by MCB Bank under the name of **MCB Financial Services Limited**

**Regrouped**  
under the **LSE Group** (the associated companies of the erstwhile Lahore Stock Exchange)



**Renamed**  
as **Digital Custodian Company Limited (DCCL)**, after the exit of MCB Bank in 2021

**Repositioned**  
as **Multi-Assets' Custodian Company** after obtaining multiple SECP licenses & SBP approvals, **for the servicing of assets defined in NBFC Rules**



**LSE Ventures & ISE RMC** are the successors of the erstwhile Lahore & Islamabad Stock Exchanges, which have also been the co-founders of many other capital market infrastructure institutions in Pakistan:

- Pakistan Credit Rating Agency (PACRA)
- National Clearing Company (NCCPL)
- Central Depository Company (CDC)
- Pakistan Mercantile Exchange (PMEX)
- LSE Prop-Tech Limited (LPL)
- VIS Credit Rating Company
- Pakistan Institute of Corporate Governance (PICG)
- Pakistan General Insurance (PGI)

- SECP Licenses**
- APPROVED **Custodian / Trustee for Fund Industry** **SECP**
  - APPROVED **Trustee for Debt Securities** **SECP**
  - APPROVED **Share Registrar Services** **SECP**
  - APPROVED **Authorized Intermediary Services** **SECP**
- SBP Approval**
- APPROVED **RTGS Membership as Direct Participant** **SBP**



The only **stand-alone trustee company** of the country

The only company with multiple trustee licenses for **collective investment schemes & debt securities**

The only trustee company also having **corporate share registrar** license

The only NBFC having **SBP's approval for direct participant in PRISM/RTGS** system

# Group Positioning



**VENTURES**

(formerly Lahore Stock Exchange)



## Assets Servicing Companies

## Capital Market Companies

Pakistan's First **Credit Rating Agency**

Pakistan's First **Multi Assets Custodian Company**

Automated Clearing & Settlement of Funds

Scripless Depository Services

Under transformation to Digital Insurance

Online Commodities Exchange



**36%**



**60%**

(ongoing)



**24%**



**10%**



**10%**



**8%**

# DCCL'S Transformations

**Objective:**  
"To become a 'portfolio unitization platform' for the servicing of the digitized financial & real assets"

Legacy

Transformation

Additional Services

Under the MCB's management, the Company had been providing **basic trustee & custodian services to a handful of AMCs**, representing a market share of 4% only.

DCCL obtained **multiple licenses for offering unitized fund administration services (from a single platform) to serve the markets comprising collective investment schemes, corporate debt securities, companies ownership markets, and other financial consumers.**

The **unitized management of the completely digitized and collateralized assets**, is not only aimed at fulfilling the needs of individual consumers for the safe-keeping of their assets, but to also serve such financial institutions who would want to outsource the management & digitization of their Credit Administration Departments.



**Trustee & Custodian Services**



**Multi-Assets' Custodian System (MACS)**



**Unitized Funds' Administration Services**



**d-Shares Registry for Corporates**



**Registry for Assets' Digitization & Collateralization**



**Technology Services**

DCCL developed its state-of-the-art, **MACS**, to provide a **digitally integrated ecosystem for servicing different asset classes**. MACS is a blockchain-enabled system offering improved risk oversight and trackable transaction recordings for more efficient and reliable administration of funds.

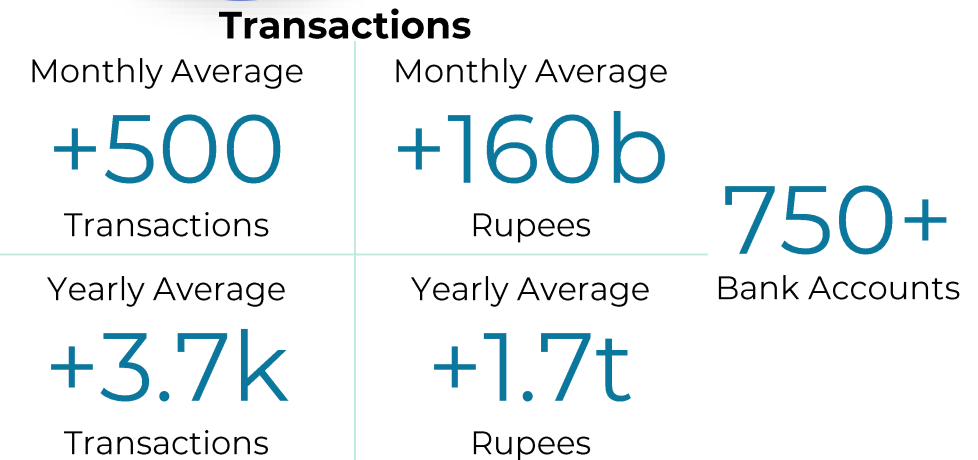
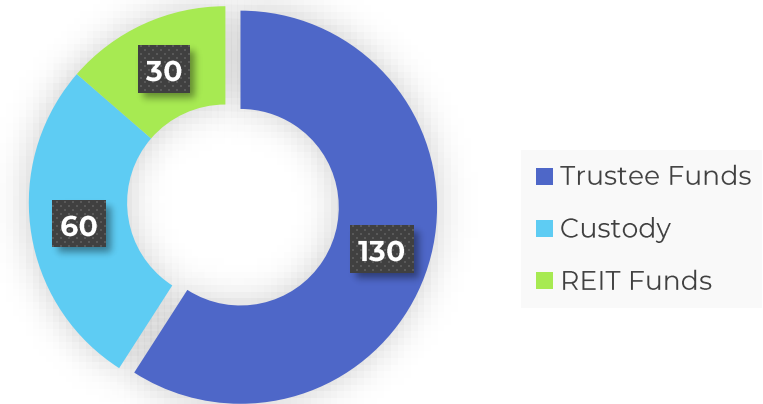
DCCL has **completely modernized the shares' data management** of listed and unlisted companies with its entry into the **Corporate Shares Registrar market**. DCCL's clients can also benefit from the management of virtual general body meetings and e-voting services for the election of directors and special resolutions.

DCCL is working to offer **managed technology services on SaaS model** to the AMC industry. This solution would enable AMCs to focus on their core function and assign the back & middle office management functions to DCCL.

# Functional Highlights

SEGMENT	COMPANIES	SECURITIES	INVESTORS
<b>Mutual Funds</b> Trustee	<b>8</b> AMCs	<b>30</b> Funds	<b>33k</b> Unitholders
<b>Special Accounts</b> Custodian	<b>6</b> AMCs	<b>53</b> SMAs	<b>53</b> Investors
<b>Private Equity</b> Trustee	<b>2</b> PE Firms	<b>3</b> Funds	<b>3k</b> Unitholders
<b>REIT Schemes</b> Trustee	<b>3</b> RMCs	<b>3</b> Schemes	<b>5k</b> Investors
<b>Debt/Escrow</b> Trustee & Custodian	<b>3</b> Entities	<b>5</b> Instruments	<b>10</b> Parties
<b>Registrar / TA</b> Corporate Share Registrar	<b>21</b> Companies	<b>21</b> Securities	<b>32k</b> Shareholders

## Assets Under Administration Rupees in Billion



# Core Business Services

## Trustee / Custodian for Specialized Funds (Mutual & REIT Funds) & Debt Securities\*

### Trustee Services

- Specialized Trusts (Mutual & REIT Funds)
- Voluntary Pension Schemes (VPSs)
- Debt Securities
- Special Purpose Acquisition Companies (SPACs)

### Custodial Services

- Discretionary Portfolios of Investment Advisors
- Occupational Funds (Pension / Provident / Gratuity Funds Schemes & Employee Stock Option Schemes)
- Private Equity & Venture Capital Funds
- Specially Managed Accounts (SMAs)

### Escrow Services

- Fractionalized/Tokenized Assets
- Independent Escrow Services
- Stocks Pledging & Blocking Services
- Sourcecode Escrow Services

## For Charities / Contracts / Endowments / Foundations / Not-for-Profits / Societies \*

- Services as a Custodian / Trustee / Administrator/ Assignee / Escrow / Executor / Guarantor / Guardian / Liquidator / Nominee / Process Agent / Receiver / Surety, etc.
- Fund Management Compliance Services
- KYC / EDD Management

## Corporate Ownerships Registrar

- Corporate Share Registrar (for listed companies)
- d-Shares Registry (for unlisted companies)
- e-dividends, e-voting, virtual management of general body meetings & scrutinizers for special resolutions
- Digital Management of Employees Stock Option Schemes (ESOS) and Retirement Funds\*

\* Annuity/Employment Continuity /Gratuity / Provident / Retirement / Superannuation Funds etc.

## For Real Estate Holders & Developers / Managers

- Real-estate Titles Registry / (with Property Information Reports & Geo-Tagging)
- Digitized Lease Management System
- RE Listings Platform
- e-Valuations / Appraisals
- Virtual/Smart Transfers / Succession Management

## For Investors / Consumers

- Eligible Pledgee Services
- Custodian / Escrow / Guardian / Trustee Services for the Administration of Assets
- Unitized Portfolio Account Services

# Technology Services

DCCL  
TECHNOLOGIES



Unitized Assets' Portfolio  
App for Investors

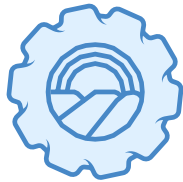


d-shares  
REGISTRY

Life-Cycle Management of  
Digitized Shares



Digitized Fund Management  
(DFM) System for AMCs

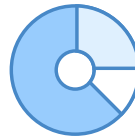


Assets' Digitization &  
Collateralization (ADC)  
System



MACS  
CORE

Multi-Assets Custodian  
System (MACS)



Smart Stocks

Equity Registry and Order  
Management system



Digitized Employee Stock  
Option Platform (DESOP) for  
automated management of  
ESOS



#SecuringYourAssets

## Marketplace Platforms or Smart Contract Solutions \*

- Asset Fractionalization Platform Operator
- \*Book-building, Crowd Funding, e-IPO Platform
- \*Collateral Management Services Platform
- LANDPRISE Marketplace
- \* to be rolled out after requisite regulatory approvals

### RTGS

- Bulk Fund Transfers
- Macro Payments

### Raast

- e-Dividend Disbursements
- Micro Payments

All systems are integrated with Digital Payment Gateways

## Modular Solutions

- Outright Sale License Model
- Rights-of-use Rental Lease Model
- SaaS Model on Monthly Subscription

# Certifications & Validations



**ISO-27001**  
Information Security Management System

✓ Certified



**ISO-9001**  
Quality Management System

✓ Certified



**ISO-22301**  
Business Continuity Management System

✓ Certified



**VAPT**  
Vulnerability and Penetration Testing

✓ Verified



**Valuation**  
Valuation of MACS Core Platform

✓ Completed



**Copyrights**  
Rights of intellectual properties reserved

✓ Completed



**Penetration Testing**  
3<sup>rd</sup> Party Functionality/ Penetration/Vulnerability Testing

✓ Completed



**MACS Testing**  
3<sup>rd</sup> Party Functionality/ Penetration Testing

➔ In Process



**ECAC Accreditation**  
for Cryptographic Services

➔ In Process



## Communication Security



### Cryptography

Encrypting data to unrecognizable format at one end. Decrypting back to the original format for only the privileged recipient.

## Data Storage Security



### Hash Functions

It's one-way encryption. The fixed length **Hash** of each block is saved in the next block to interlink them. Unauthorized change breaks the link and invalidates the node

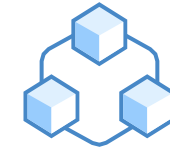
## Participant Identity Authentication



### Digital Signatures

The Certification Authority (CA) authenticates each participant by the Private/Public key infrastructure.

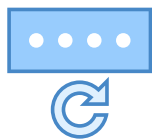
## Live DR Site Replication



### Distributed

All nodes agree to the validity of the transactions through the consensus algorithm. Hence, the data is replicated at multiple nodes, preventing data loss or data tempering.

## User Activity Validation



### One-Time Password

Transactional and authentication OTPs sent at the official emails or registered mobile numbers to validate the intended user.

## Data Authenticity & Immutability



### Time-stamped

All data is locked using the timestamps in the blocks. No data can be changed or removed from the chain.

## Data Access Security



### Smart Contracts

Unlike traditional databases, data can not be accessed directly. Data can be managed only through programmable Smart Contracts

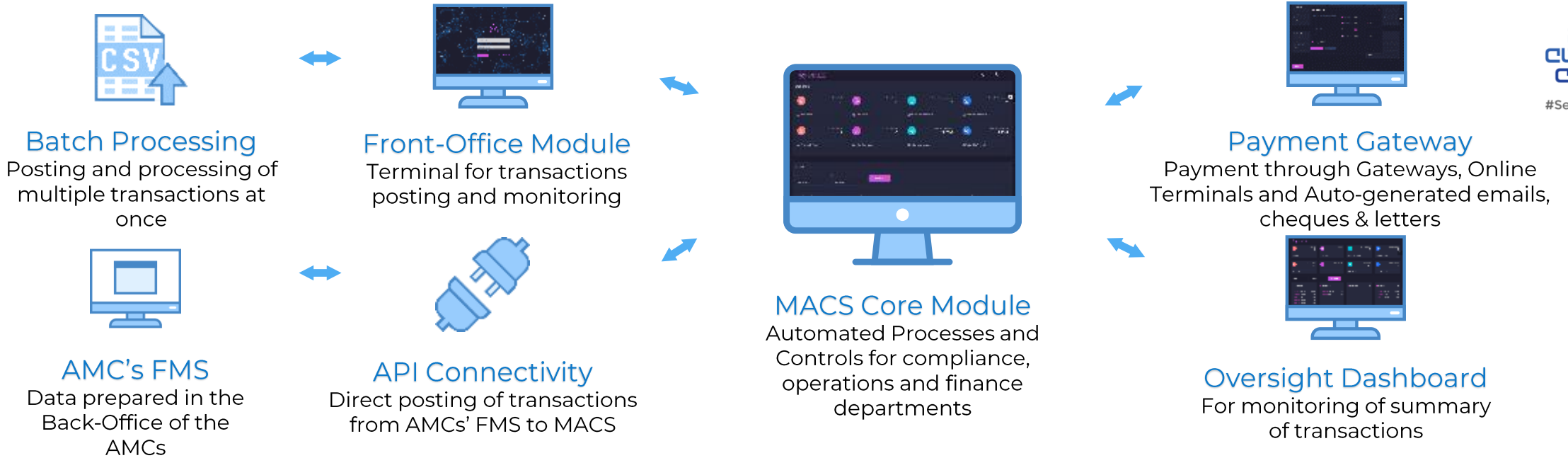
## Processing Security



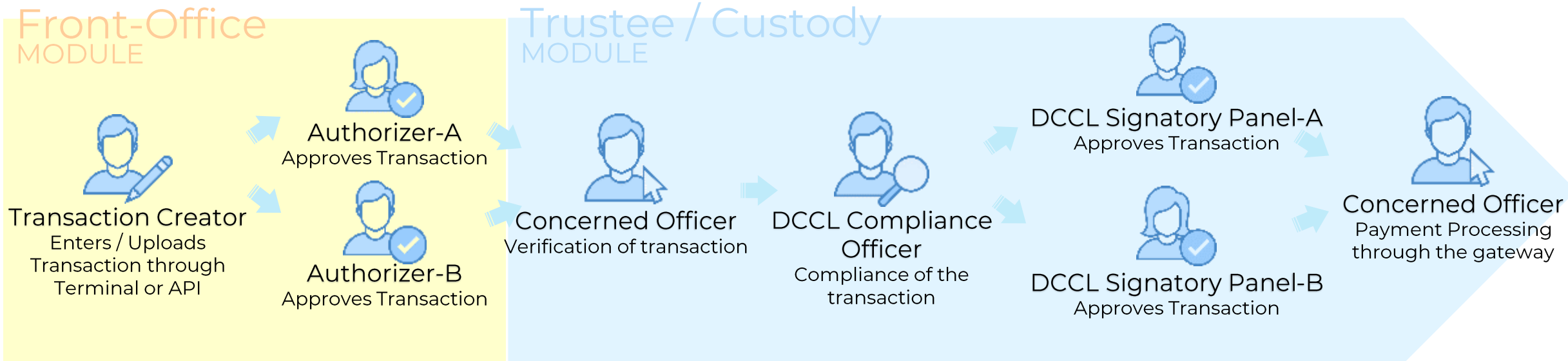
### Four-eye Principle

Transactions take effect only after the due approvals defined in the digital processes. A single person can not complete financial transactions.

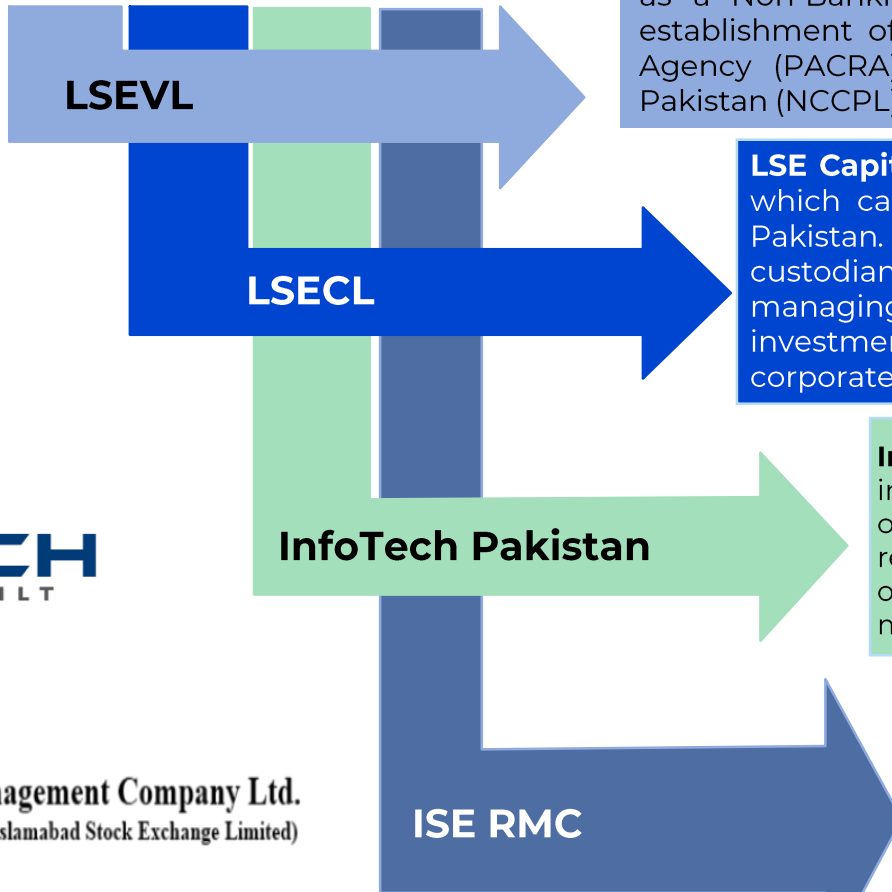
Integrated System



Transaction Process



# Sponsors/Promoters



**LSE Ventures Limited (LSEVL)**, was originally incorporated as a stock exchange in 1970. In 2016, the Company's stock exchange operations were merged with the other two stock exchanges to form Pakistan Stock Exchange (PSX). The successor company is now licensed as a Non-Banking Finance Company (NBFC). LSEVL has been a co-founder for the establishment of all major capital market institutions, including, Pakistan Credit Rating Agency (PACRA), Central Depository Company (CDC), National Clearing Company of Pakistan (NCCPL) etc.

**LSE Capital Limited (LSECL)**, is a uniquely regulated Islamic Financial Institution, which carries multiple licenses from the Securities & Exchange Commission of Pakistan. It is not only operating the country's only stand-alone multi-assets custodian/trustee company (Digital Custodian Company Limited), but is also managing the PSX-listed Modaraba Al-Mali, which focuses on Islamic VC/PE investments. Besides this, the company is also involved in many innovative corporate restructuring/revival/rehabilitation transactions.

**InfoTech Pakistan** has been operating since the past three decades, offering innovative technology solutions in the domestic and foreign markets. It is the only IT company in Pakistan, which provides the trading, clearing, & depository related technological solutions to several foreign capital market entities, besides offering IT/core banking solutions to the banking industry. The company has multiple offices around the globe.

**ISE RMC** was licensed as a stock exchange in 1989. Its stock exchanges operations were merged with the other exchanges to form PSX in 2016. The successor company is now licensed as a Real Estate Investment Trust (REIT) Management Company. The Company's major investments include Pakistan Mercantile Exchange (PMEX) and National Clearing Company of Pakistan Limited (NCCPL).

# Management Team



Mr. Aftab Ahmad Chaudhry  
Chief Executive Officer (CEO)



Mr. Siddique-ur-Rahman Khurram  
Chief Technology Officer (CTO)



Mr. Naeem-ur-Rahman  
Chief Business Officer (CBO)



Mr. Faisal Amin  
Chief Operating Officer (COO)



Mr. Adeel Aslam  
Chief Financial Officer (CFO) /  
Company Secretary (CS)

# Key Contacts

Scan QR codes to save contacts



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