# **NEXT GENERATION POST TRADE PROGRAMME UPDATE**



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Next Generation Post-Trade Platform

26 Nov 2018 04 Dec 2018

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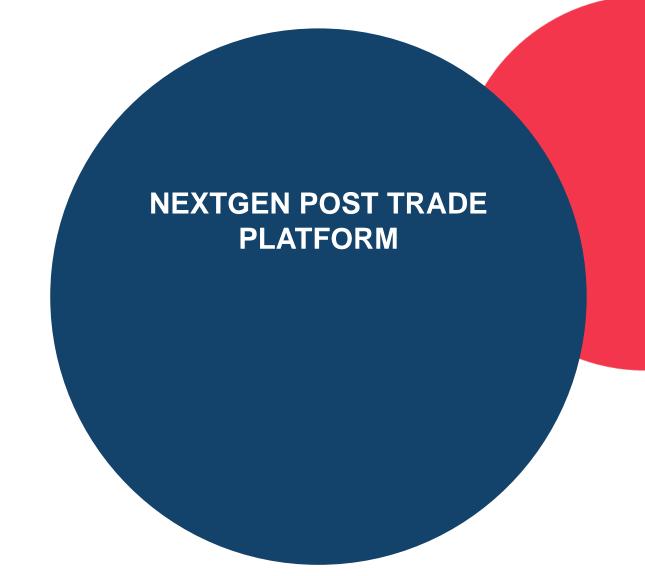
Managing Director

Head of Clearing Risk Management

### **AGENDA**

- NextGen Post Trade Platform
- 2 Client Connect
- 3 Single Risk Engine
- Data Warehouse and Business Intelligence
- 5 System Requirements
- 6 Timeline
- 7 DLT Platform Stock Connect
- 8 Client Engagement

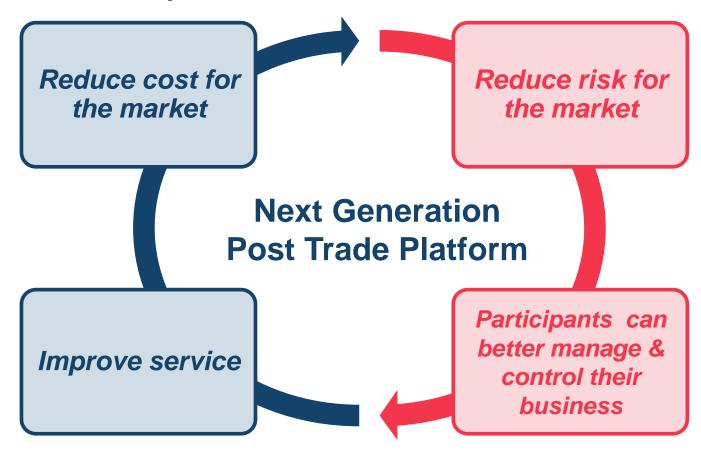






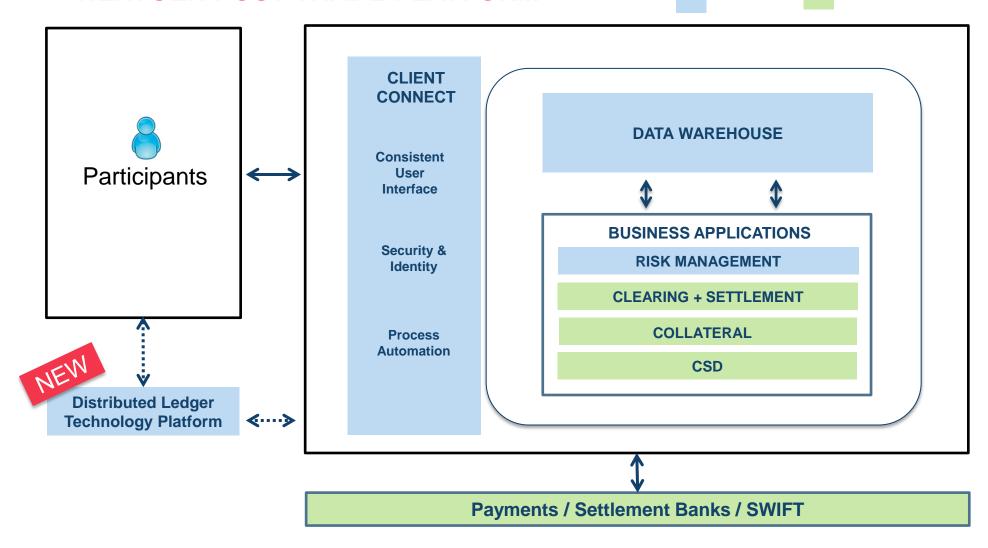
### **NEXTGEN KEY DRIVERS**

## Our drivers are simple:

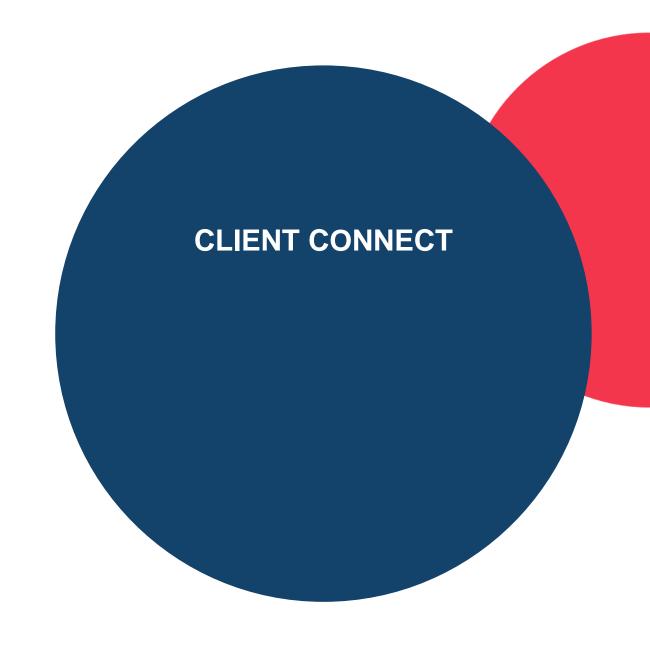




## **NEXTGEN POST TRADE PLATFORM**





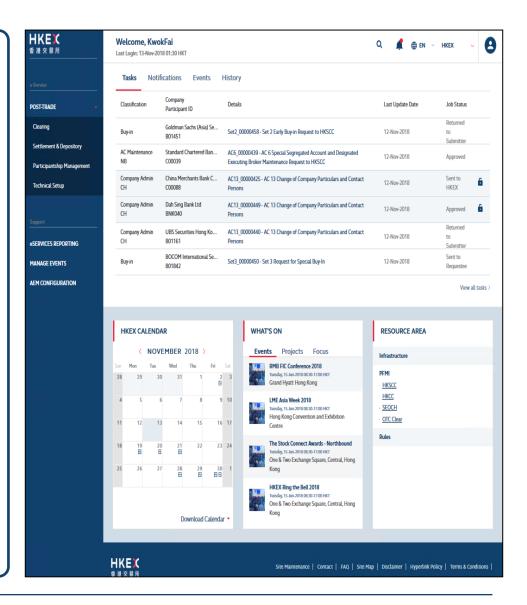




## **CLIENT CONNECT**

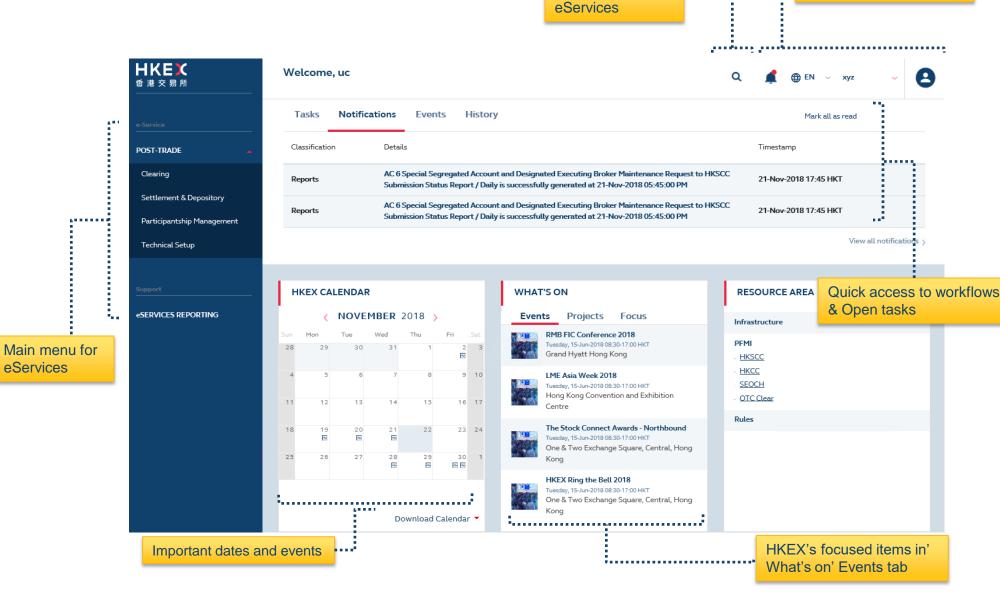
A single web portal to centralize participant access:

- Entry portal for the Clearing house services and NextGen applications
- Digitizing the majority of paperbased services
- 3. Event and information dashboard
- 4. Secure web-based user interface made available via PC, tablet, and mobile.
- 5. Flexible access control and management of roles





## **DASHBOARD**



Quick search on

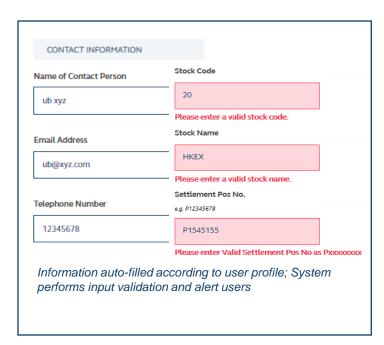


Company profile and

account information

#### **USER EXPERIENCE**

- Built-in intelligence to auto-fill and validate input, reducing duplication and errors
- Segregation of user access by job responsibilities

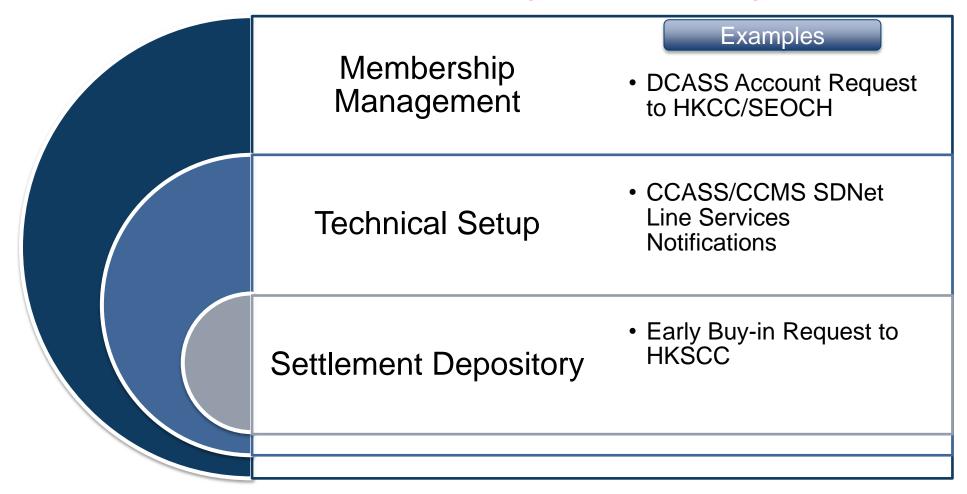




Access to eServices is determined by access rights



# **CLIENT CONNECT eSERVICES (RELEASE ONE)**



Approximately 45 eServices will be introduced in Client Connect by phases consolidating over 60 existing physical forms, significantly improving participant experience

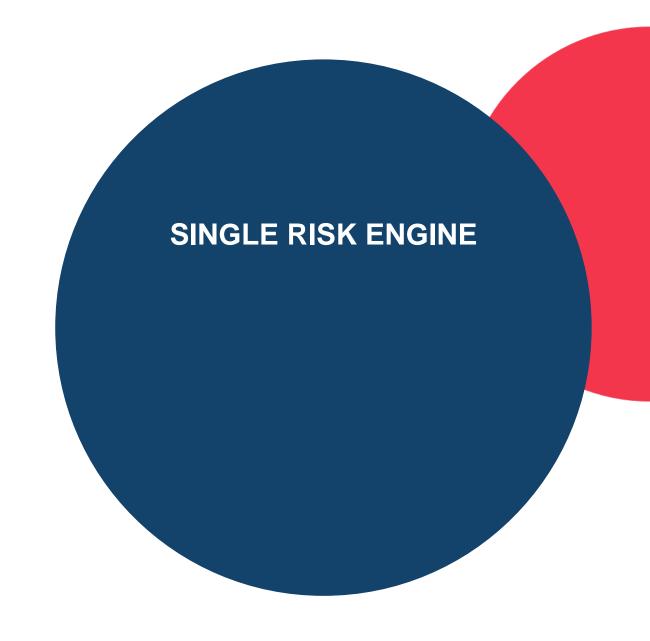


# **CLIENT CONNECT**



First half 2019 focus on Client Engagement







## **MULTI ASSET SINGLE RISK ENGINE**

### Phase I - Cash

- Initial rollout of VaR-based Risk Model
- Improved Risk management
- Continuous monitoring of Risk
- Margin simulator
- New User Interface

### **Phase II - Derivatives**

- VaR model enhanced for derivatives
- Portfolio margining







# Data Warehouse & Business Intelligence

Allows Clients and HKEX to better manage their businesses

- Provides business intelligence and analytics for clients and ourselves to gain insight into our market and performance
- Offers a Dashboard to collate and display data and reports, a full query analytical tool, and powerful reporting capabilities
- Automated, machine readable reports CSV files etc.
- New tools and services to CPs such as interactive queries

Data Warehouse

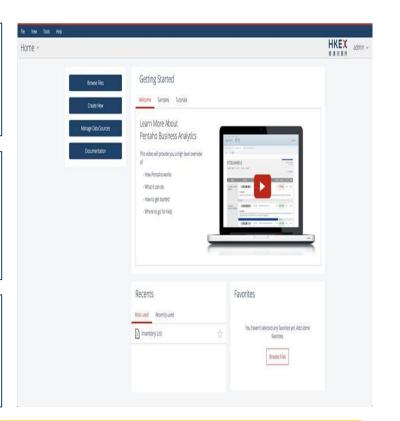
- Centralized data repository
- Interfacing capability with data sources (e.g. Legacy and new post trade systems including market data.

Business Intelligence

- Customizable dashboards
- Interactive queries and analysis tool and associated visualizations in form of reports
- Role based access control to functions and data

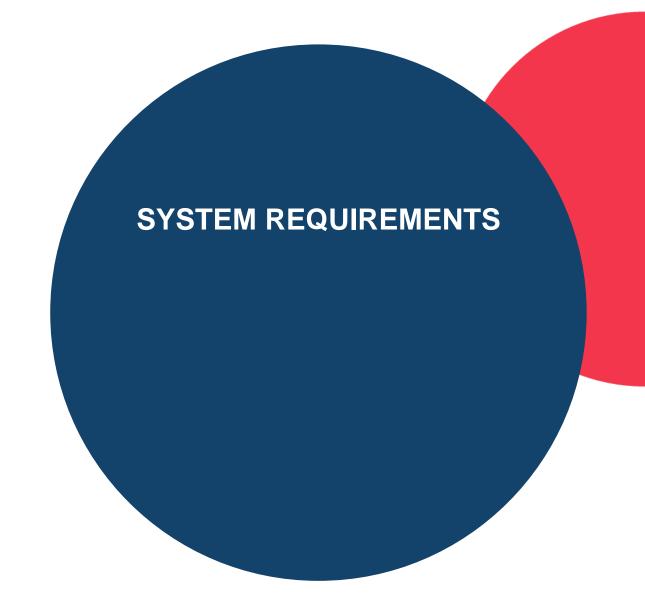
Services

- Data modelling, automated, machine readable reports
- New tools and services to CPs and internal users, such as interactive queries



Phased approach starting with internal deliveries







## FRIENDLY REMINDER: PC UPGRADE FOR CCASS/3 TERMINAL

IT PC Upgrade Roadmap from current to future state

Today Q4 2018 Phase I Release Q1 2020

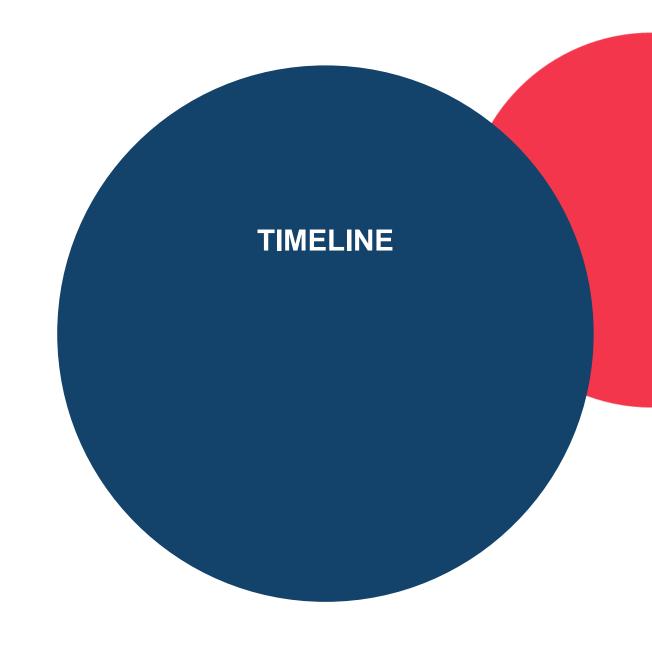
Java Upgrade to v8

Upgrade PC and Network Bandwidth

Upgrade to Windows 10

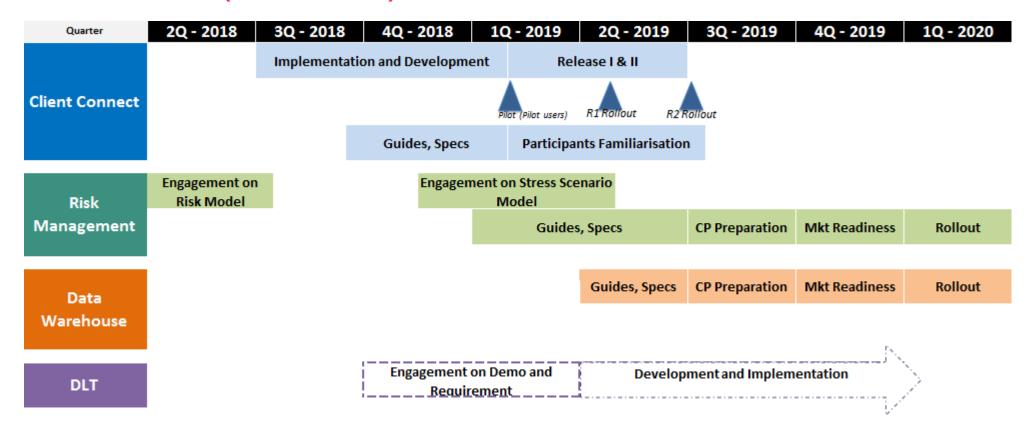
Please refer to C3T and Technology related Circular for details







# **NEXTGEN (PHASE ONE) TIMELINE**





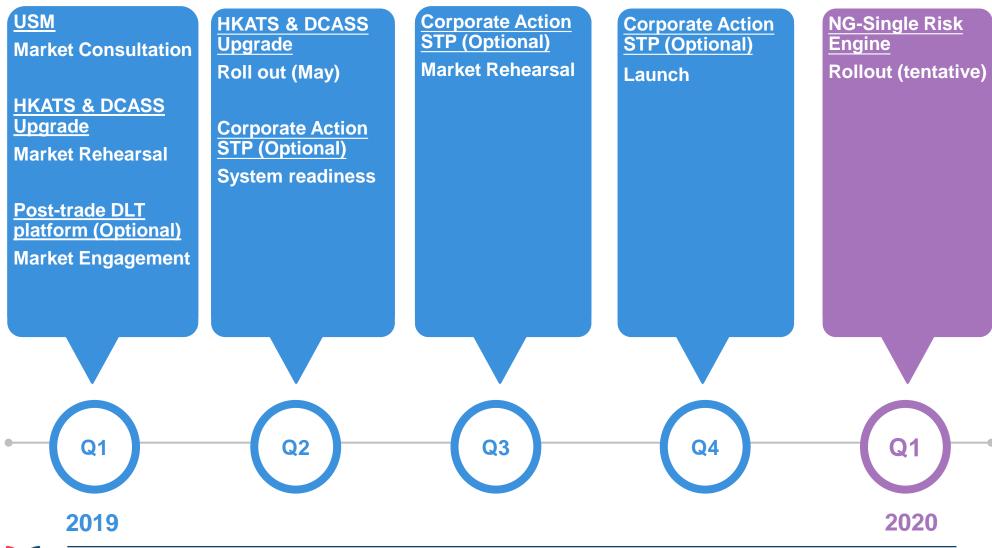
# **NEXTGEN DOCUMENT UPDATES**

2018	2018	2019
Released	Q4	1H
<ul> <li>NextGen Post Trade Programme</li> <li>Townhall Presentation         Material</li> <li>NextGen FAQ</li> <li>Client Connect         <ul> <li>Service Overview/                 eService Coverage</li> </ul> </li> <li>Risk Model         <ul> <li>Seminar Material</li> <li>Deep Dive Workshop Material</li> </ul> </li> <li>FAQ</li> </ul>	<ul> <li>NextGen Post Trade Programme</li> <li>Town hall Presentation update</li> <li>Client Connect</li> <li>Briefing Materials</li> <li>User Onboarding Documents</li> <li>Familiarization Guidelines</li> <li>FAQ and User Manual</li> </ul>	<ul> <li>Risk Model</li> <li>VaR Parameter file and User Guide</li> <li>Default Fund Calculation Model Guide</li> <li>Risk Management User Interface</li> <li>Report Download (User Guide, Admin Guide)</li> <li>SFTP Connectivity Information</li> <li>Data Warehouse</li> <li>Factsheet and Descriptions</li> </ul>

Documents will be made available at following link <a href="https://www.hkex.com.hk/Services/Next-Generation-Post-Trade-Programme/Overview?sc\_lang=en">https://www.hkex.com.hk/Services/Next-Generation-Post-Trade-Programme/Overview?sc\_lang=en</a> and will be announced to all subscribers as notification alert



### CLEARING KEY PROJECTS AND INITIATIVES ROADMAP 2019/2020 Q1



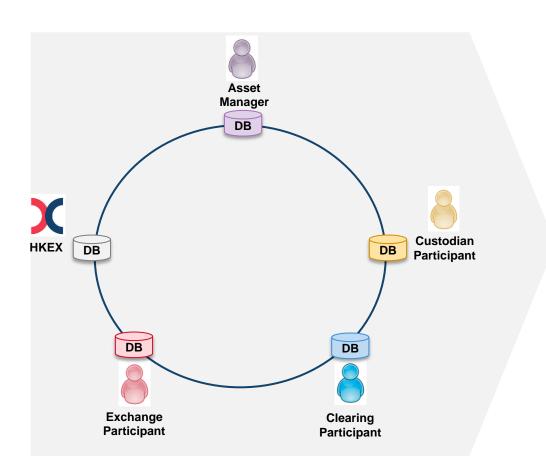






# **DLT PLATFORM (OPTIONAL SERVICE) - OUR OBJECTIVES**

## **Leverage Distributed Ledger Technology (DLT)**



- Facilitate Stock Connect Northbound short settlement cycle with an innovative technology
- To better support increasing turnover and Asset Managers interests
- Collaboration with a key group of market participants
- Optional value added services for interested Participants

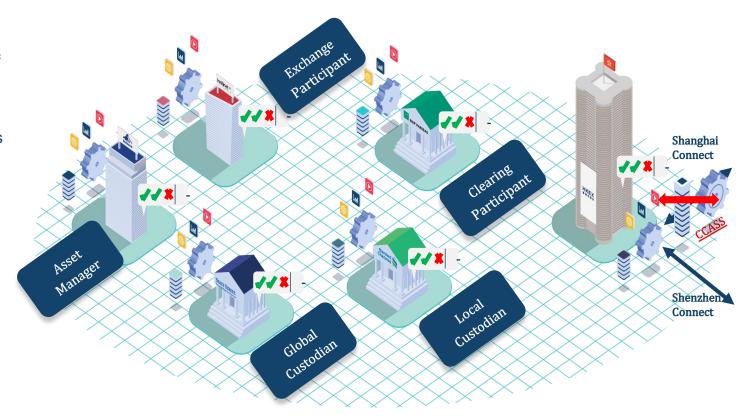
HKEX to explore the development of a blockchain-powered post-trade allocation and processing platform



# **DLT PLATFORM (OPTIONAL SERVICE) - STOCK CONNECT**

## Accelerating and simplifying pre-settlement processing to reduce risk

- Access to the permissioned DLT network with full visibility of the end to end pre-settlement flow
- Post trade parallel processing is now possible
- Synchronization on status of settlement amongst the market participants
- Offers opportunities for further collaboration in the future
- Optional service for post-trade ecosystem









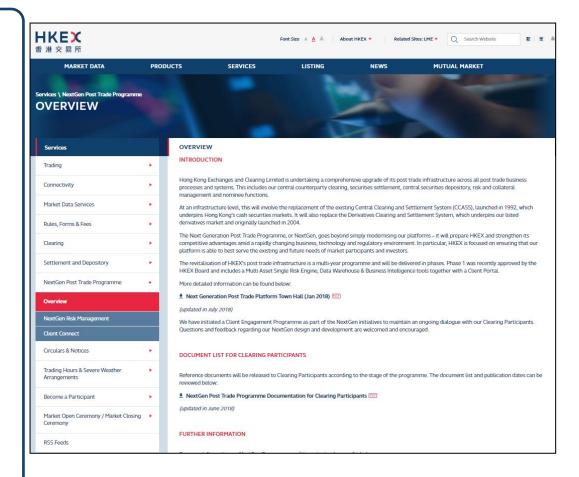
#### FOR FURTHER INFORMATION

## **NEXTGEN UPDATE**

- NextGen Post Trade
   Programme notification alert
- Submit online enquiry on NextGen Post Trade Programme
- 3) Contact NG Post-TradeBusiness Development Team

**Website:** <a href="https://www.hkex.com.hk/Services/Next-Generation-Post-Trade-Programme/Overview?sc">https://www.hkex.com.hk/Services/Next-Generation-Post-Trade-Programme/Overview?sc</a> lang=en

Email: NG\_PostTrade@hkex.com.hk





Q&A

Thank you for your support



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