# ASX CHESS Replacement Project Webinar

Q3 update

28 September 2017



### **Presenters and introductions**



#### **Cliff Richards**

Executive General Manager, Equity Post Trade Services ASX



**Keith Purdie** 

Stakeholder Engagement Manager, Equity Post Trade Services ASX

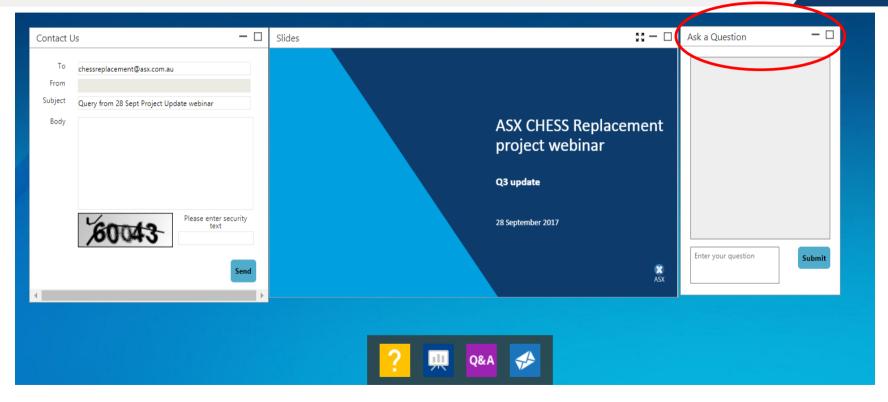


Karen Webb

Manager, Equity Post Trade Services ASX



### Reminder to submit questions







**Project Overview** 

Stakeholder Engagement

• Business Requirements

ISO 20022 Messaging

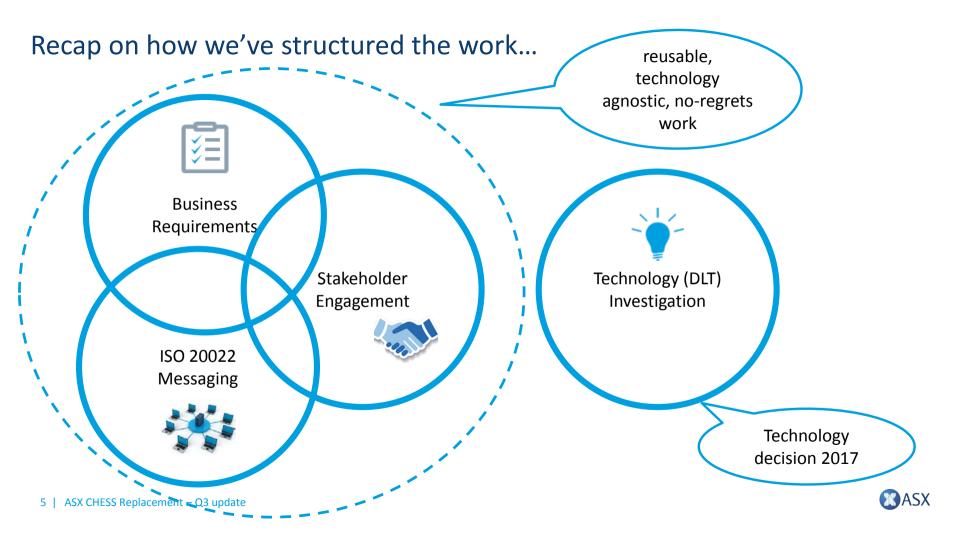
Technology Assessment

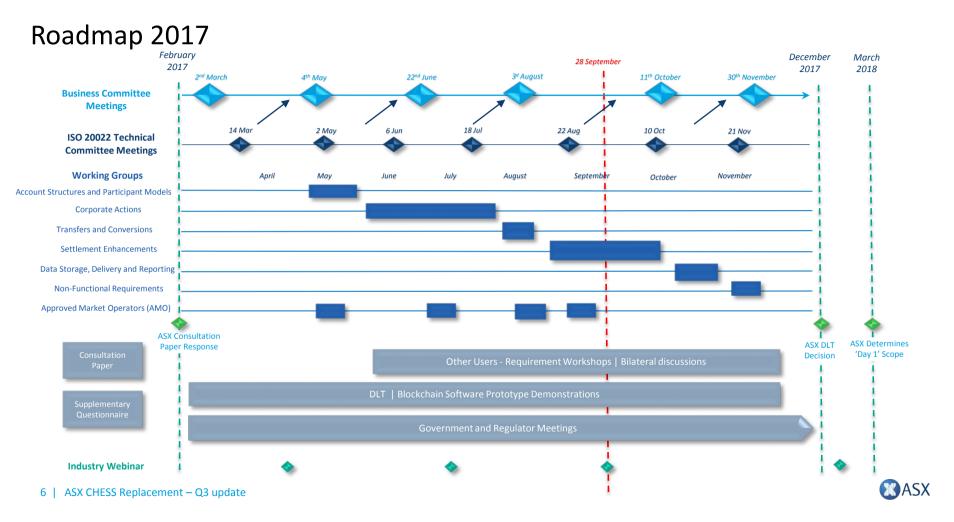
Where to find more information

Q&A





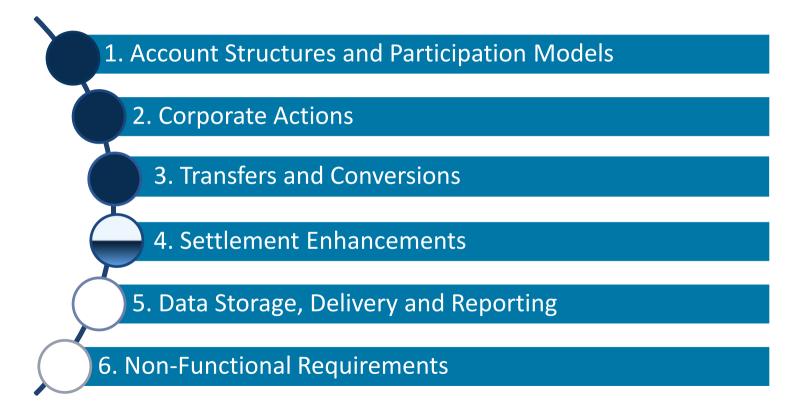




# Stakeholder Engagement



### The 6 Working Groups Overview – Business Requirement Topics





### Update on the input to Stakeholders' Business Requirements

- Broad cross section of stakeholders with strong engagement levels
- > 32 high level draft Business Requirements captured to date
- Review and feedback continues to be an iterative process
- Transfers and Conversions Working Group:
  - 4 draft Business Requirements identified including "Standardisation of Registration Details"
- Settlement Enhancements Working Group:
  - 11 draft Business Requirements identified including "Issuer Sponsored SRN Transparency" & "Bilateral DvP Settlements Post the Daily Settlement Cycle"



### Next Steps for the input to Stakeholders' Business Requirements

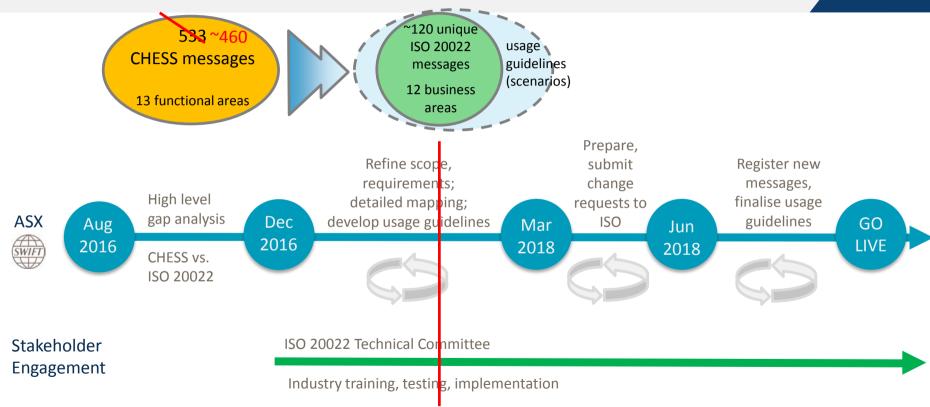
- > Complete the remaining Working Groups and identify any additional Business Requirements
- Seek stakeholder prioritisation of Business Requirements
- Consultation paper on the scope for ASX CHESS Replacement
- Announce the scope and plan for ASX CHESS Replacement



# ISO 20022 messaging



### The ISO 20022 adoption process

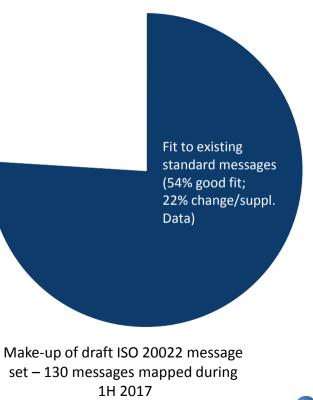




## Mid year checkpoint – ASX/SWIFT

#### 7 day workshop July/August – key topics:

- Review of 1H 2017 mapping, checks for consistency at message and field level
- Review of transaction id model
- Review change request profile
- Review new message candidates and modelling
- Review scope and planning for 2H 2017 detailed mapping
- View of ISO 20022 documentation from other markets
- Review ISO 20022 best practice

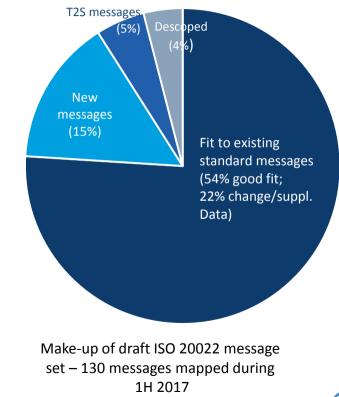




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## Key themes from ISO 20022 Technical Committee

- 7 meetings held to date with great engagement
  Additional themes discussed in Q3:
- Achieving ISO 20022 compliance
- Further opportunities to descope current messages such as report related messages
- Adopt universal date and time format
- Further circumstances to de-scoping functionality where there may be alternate processes/methods in CHESS, not easily mapped
- Tracking transaction flows transaction ids
- > Adopt minimum standard or utilise data depth available

#### What's next?

- > 2 more Technical Committee meetings in 2017 and planning for 2018
- > Attendance at SIBOS mid October, ASX representation on panels, Market Infrastructure forums

# Technology Assessment



### Distributed Ledger Technology Assessment

- ASX selected Digital Asset to develop DLT based clearing and settlement functionality to enable ASX to assess the suitability of the technology and the vendor for the replacement of CHESS
- > The system being delivered in 2017 will not be complete
- The delivered system contains significant functional complexity arranged in real world endto-end scenarios allowing ASX to perform a suite of rigorous functional and non-functional tests
- Testing results will provide ASX with data input to the December 2017 technology decision



### **Requirements Generation**

- The requirements being developed and tested are contained in the following categories:
  - Actor (Users)
  - Asset (Securities)
  - Trade Registration
  - Netting
  - Settlement Preparation
  - Settlement

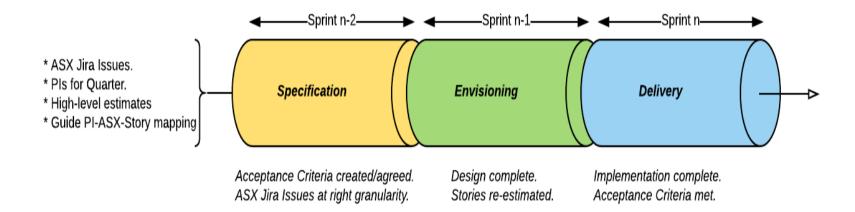
- Corporate Actions
- Clearing
- Holding Management
- Default Management
- mFund
- Billing

- Reference Data
- Administration
- Technical Requirements
- Non Functional Requirements



## Software Delivery Model

- A lean delivery model
- Requirements are prioritised and specified for build





### **Assessment Process**

- Based on working software
- Running on ASX production equivalent specification infrastructure in the ALC (Australian Liquidity Centre)
- High quality documentation and releases
- Automated regression and manual exploratory testing
- Defect resolution quality and speed
- Repeatability of processes
- Behave as though we are in a production environment



### Achievements to Date

- Over 50 requirement generation and software development sprints completed
- 8 system software releases delivered to ASX
- > 2 unplanned patch releases successfully delivered
- Low defect (bug) counts notwithstanding increasing functional requirement complexity
- Automated test scripting and development is progressing well
- All vendor SLAs have been met



### 3<sup>rd</sup> Party Security Review

- In addition to ASX's assessment of Digital Asset's technology, two independent 3<sup>rd</sup> party technology assessment specialists have been selected to review the system
- The reviews will be performed by:
  - A cyber security and risk mitigation specialist firm; and
  - A global technology audit and assurance firm
- These reviews will assess the parts of Digital Asset's technology that relate to the security and integrity claims of the software
- Areas of assessment include the platform architecture, component technologies and cryptographic methods used in the ledger layer
- Reviews will be completed by November and will be another input to ASX's technology decision



## Next Steps



### Next steps and where to find more information

- Ongoing engagement throughout 2017 (quarterly webinar, ISO 20022 Technical Committee meetings, working groups, DLT demonstrations and bilateral opportunities)
- The presentation and recording of this webinar will be available on the above webpage shortly
- Next date for Q4 webinar will be advised in due course and published on the above webpage
- More information available on the ASX CHESS Replacement website:

www.asx.com.au/chessreplacement

Or email the ASX project team: <u>CHESSReplacement@asx.com.au</u>







Please use webinar facility to post questions



Thank you.

