



ISLA CDM Initiatives

Apr 2023

CDM- The Case for Standardisation

8) TERMINATION

- Penalties for settlement failure under CSDR
- Details in GMSLA/loan
- Redelivery/repayment upon termination of loan

7) ENFORCEMENT

- Effectiveness of enforcement mechanism
- Value of securities/collateral
- Events of default

6) PERFORMANCE

- Reporting under SFTR
- Details of GMSLA/loan
- Occurrence of life cycle events including collateral management and corporate actions

5) COMMENCEMENT

- Penalties for settlement failure under CSDR
- Details of GMSLA/loan
- Delivery/payment on commencement of loan



1) PRE-CONTRACTUAL

- KYC / AML / Onboarding
- Counterparty information
- Reporting under SFTR

2) CONTRACTUAL – MASTER AGREEMENT

- Counterparty information
- Details of GMSLA
- Provisions included to comply with regulation req.
- Consideration of registration of security interest
- SFTR disclosure

3) CONTRACTUAL - LOAN

- Negotiation and execution of loan/trading
- Recording of loan data in internal systems
- Details of loan
- Reconciliation of loan details between parties
- Reporting under SFTR
- Short selling regulation

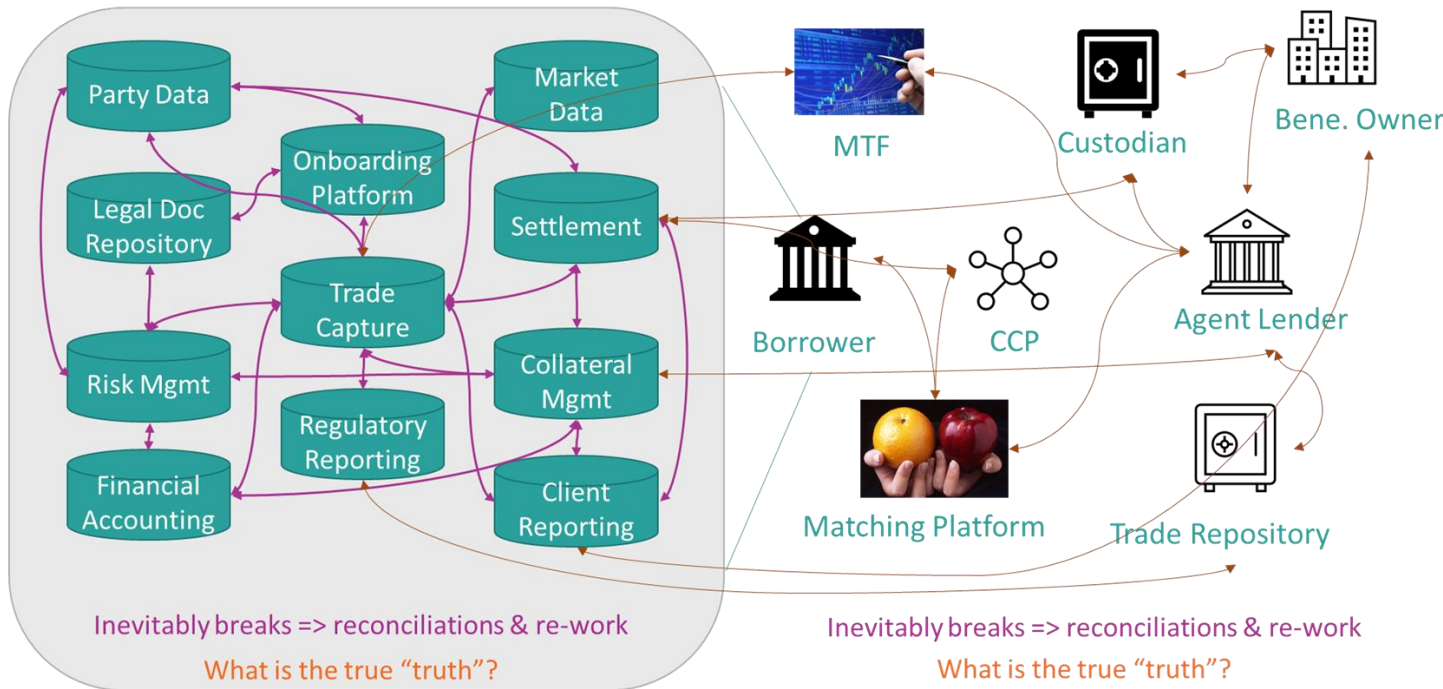
4) ALLOCATION

- Allocation of loan to underlying principals
- Counterparty identity
- Reporting under SFTR
- Compliance with internal credit limits

Current State of The Market: The Data Model Mess & Booking Model Debacle

Miasma of internal systems with different data models

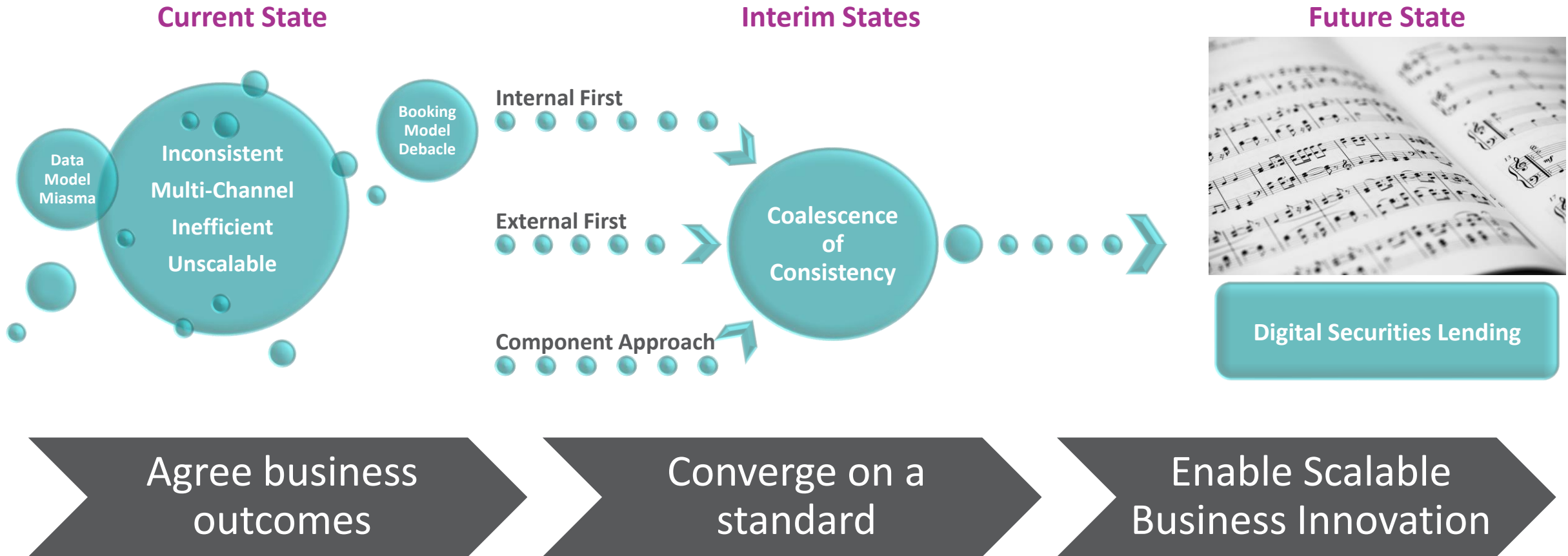
Miasma of external parties with different data models



Differences in booking models lead to real world events in those models producing different outcomes:

- Reconciliation breaks
- Valuation differences
- Collateral disputes
- Reporting mismatches
- Operational inefficiency
- Settlement failures

Industry Initiatives – Where we are going



In order to compete in the digitised future the industry needs to find its way to consistency on the business fundamentals, from which, future innovation can spring, grow and adapt sustainably

Single, common digital representation of trade events and actions

Enhance consistency and facilitate interoperability across firms and platforms

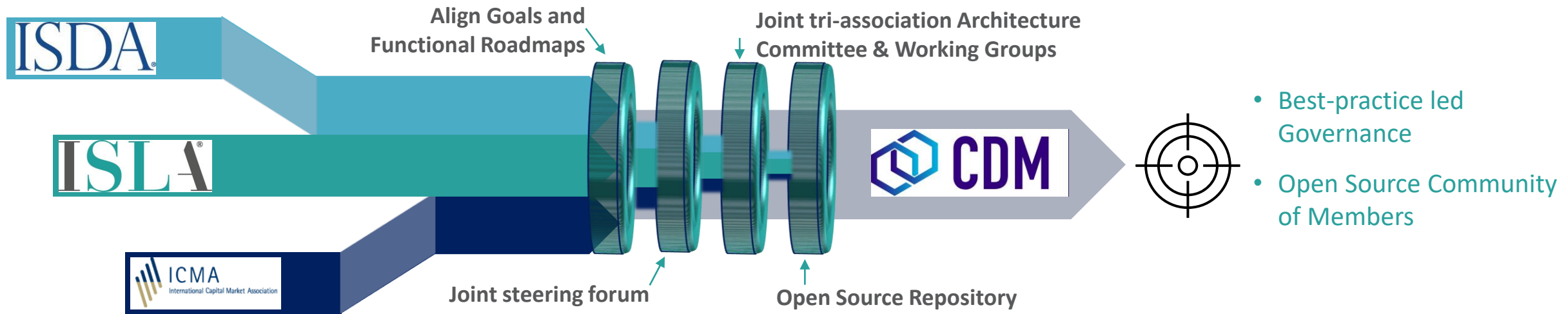
- There are six modelling dimensions to the CDM
 - Product
 - Event
 - Legal Agreement
 - Process
 - Reference Data
 - Mapping (Synonym)

Model design based on composability and reusability of all components

A CDM is not

- a specific application or product- it is the basis on which apps and products can be built
- just another data model- it also encodes the functional operations
- a smart contract or distributed ledger- though it will build the foundation for these

Trade Association Collaboration



*Associations collaborating towards the same future goal, to benefit the whole industry.
A Common Domain for the market, built by the market.*

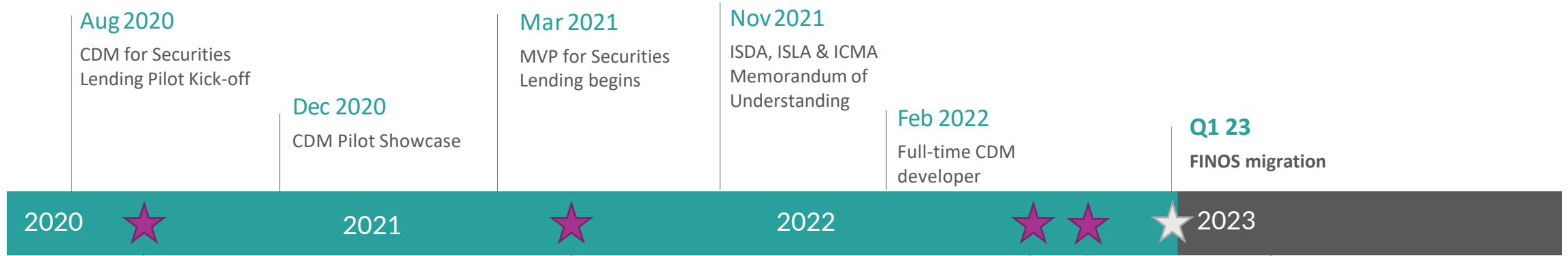
Thursday 8 September 2022

ISLA, ICMA & ISDA Appoint FINOS for CDM Repository



CDM- The Journey

CDM For Securities Lending – The Journey to Date



Aug 2020

CDM for Securities Lending Pilot Kick-off

Dec 2020

CDM Pilot Showcase

Mar 2021

MVP for Securities Lending begins

Nov 2021

ISDA, ISLA & ICMA Memorandum of Understanding

Feb 2022

Full-time CDM developer

Q1 23

FINOS migration

Oct 2020

Completion of Pilot: Cash DVP execution & allocation

Jun 2021

MVP: full loan representation inc. non-cash

Oct 2022

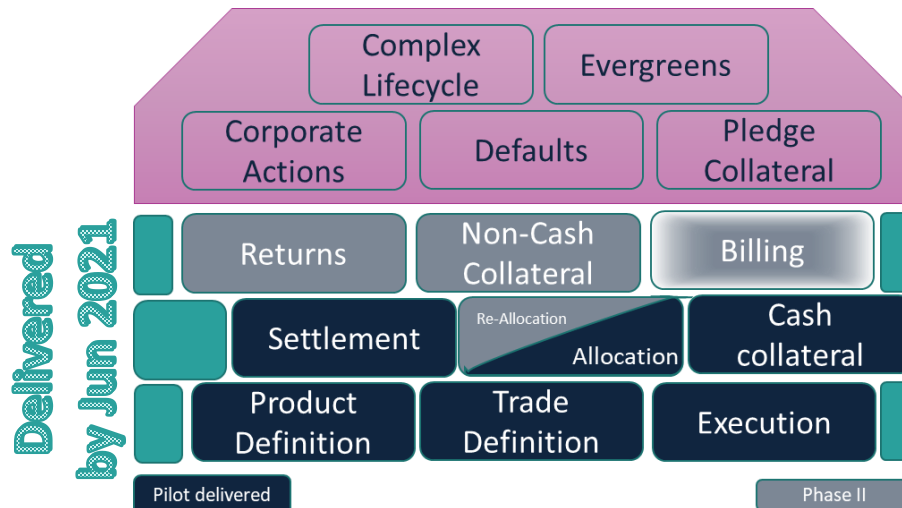
Evergreen & extendible product

Nov 2022

RFQ Workflow Dev complete

2023 Book of Work

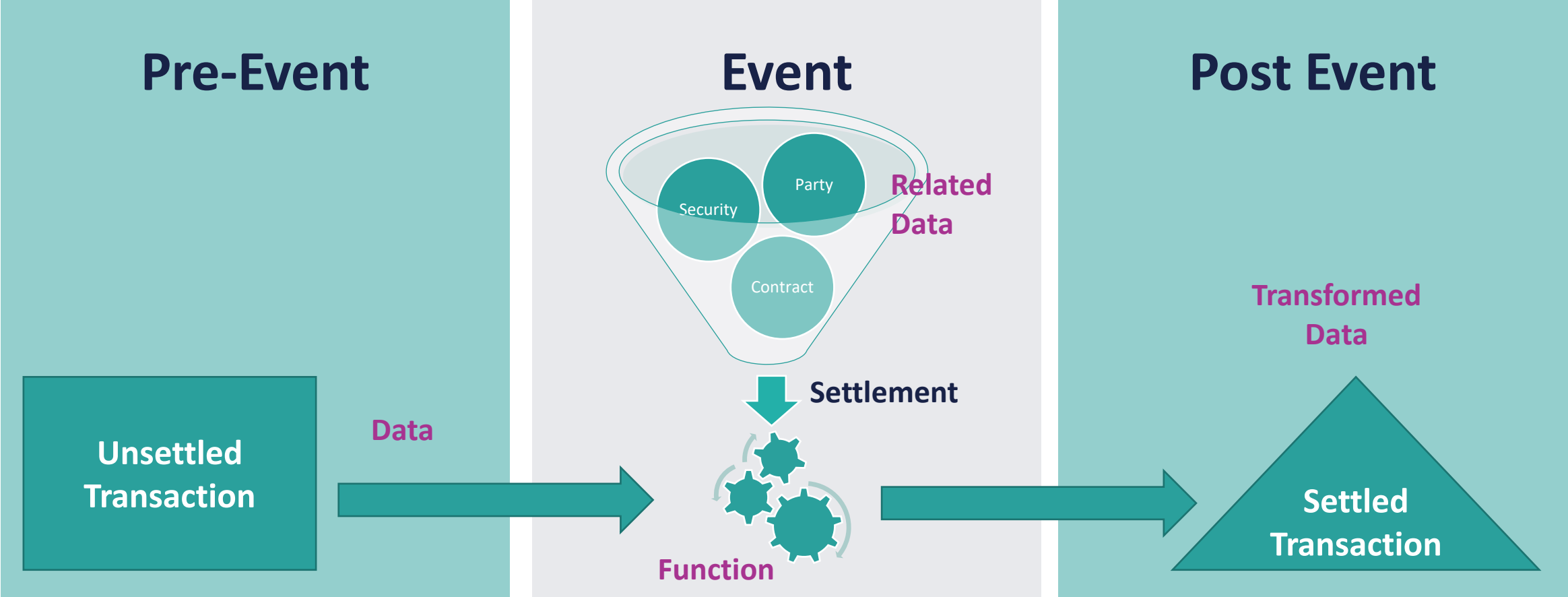
- Lifecycle events: Re-rates
- Trading workflows
- Availability feeds
- Support for DLT- CDM as-a-service
- Member contributions via FINOS
- Document digitisation-integration of ISLA Clause Library



Look ahead to 2023 – CDM

- **Open Source Community**
 - Complete migration- COMPLETED FEB 23
 - Begin FINOS WGs & community contributions
 - Collateral group & other cross-product opportunities
- **Trading Sub-group**
 - Availability files
 - RFQ- multiple lenders
 - Integrate allocation functionality
- **Document Digitisation**
 - Complete modelling principles
 - Complete model for ISLA Clause Library to date and contribute to CDM
- **CDM WG- H1 priorities**
 - Evergreen & extendible events- COMPLETED JAN 2023
 - Enhancements and further lifecycle- DLT readiness, re-rates
 - Support member use cases to aid adoption

CDM Detail



A CDM consistently codifies all of the pieces (purple text)

Use cases- CDM benefits an organisation F2B



Candy- Sales/CRM

- Onboarding clients can take a long time due to efforts required to connect their systems to ours
- My clients often want consistent reporting across multiple products but I cannot provide that due to different underlying models



Omar- Technology

- Every time the business buy a new system I have to spend a large amount of effort just mapping fields and message protocols
- A large part of my budget is spent on keeping legacy systems compatible with each other



Timon- Credit Risk

- I often have to wait a number of days to understand who my firm actually has credit risk against
- We often see under-collateralisation due to valuation disputes and settlement mismatches

A CDM enables/creates

- Reduction of breaks, mismatches and calculation disputes between systems and parties
- Plug & play connectivity
- Free to use data model
- Foundation for strategic use of future technologies
- Pull model for Regulatory and other reporting
- Cross-asset interoperability



Ana- Regulator

- The data I receive from two firms about the same trade often differs in the details
- Much of the data I receive meets validation rules but is populated incorrectly
- I am pushed so much data, that finding what I want exactly is a challenge



Lisa- Operations

- I spend hours reconciling our own systems to ensure they're in line
- My counterparts never agree my positions after a corporate action
- 10% of my settlement fails are due to instruction mismatches



Sally- Finance

- Each month we see large increases in accounts receivable due to billing arrears caused by mismatching valuations
- I have to manually combine funding costs and hedged risk across multiple business lines



Jed- Business Head

- I desperately want to trade new digital assets and take advantage of new technology but each integration attempt costs so much time and effort
- My margins are being squeezed by technical and operational inefficiencies

Lazy User Model (LUM)- Users will select from a range of solutions based on the amount of effort required from the user. Firms behave the same way.



How do we reduce each of these elements?

Mental Effort- CDM is a complex concept

- a. Awareness & Repetition
- b. Visuals, Diagrams, Demonstrations

Monetary Costs- Adapting data models, use of IT resources

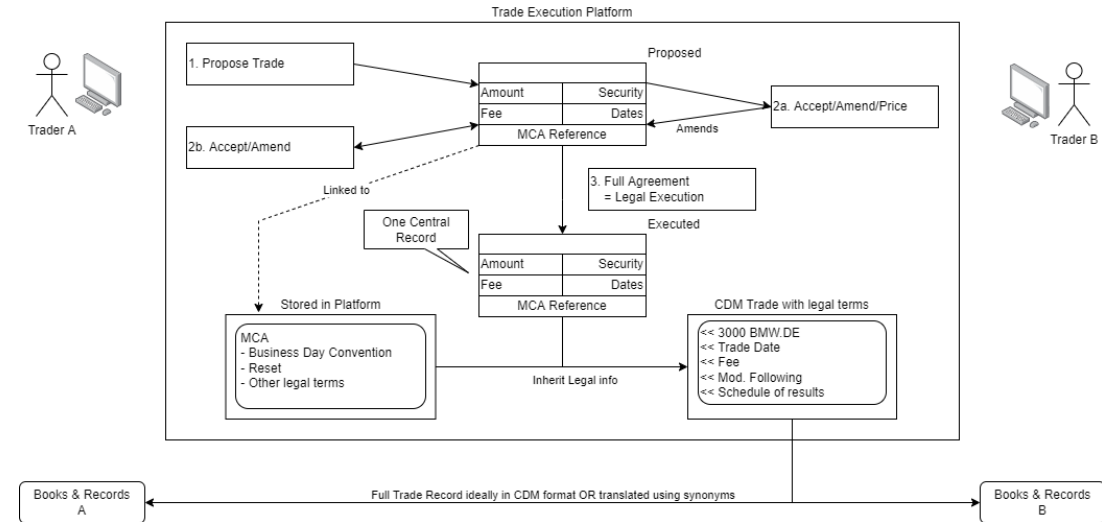
- a. External vendor based approach- low delta
- b. Incorporate in strategic tech goals
- c. Open source code is free

Time- Transition period may involve bifurcated models

- a. Component based approach spreads cost over time
- b. Increased efficiency within components converted

Member group looking at a standardised execution workflows

- Building on MVP model
- Incorporate new legal standard MCA
- First securities lending process to be standardised in CDM
- Goal to produce an actual implementation; kickstart adoption
- Reach out for more information



Collateral Representation for Security Loans

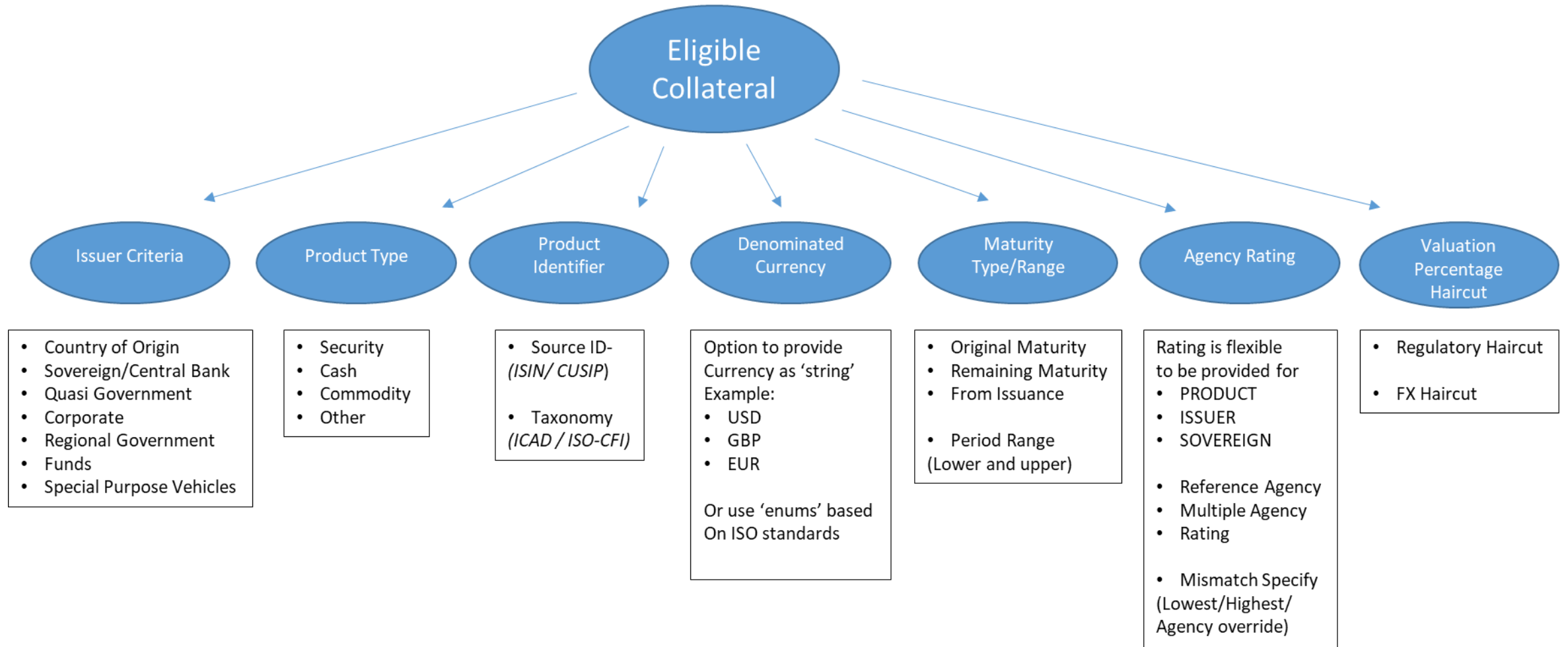


Image courtesy:
International Swaps and
Derivatives Association, Inc

Margin Call Issuance and Response – Business Workflow

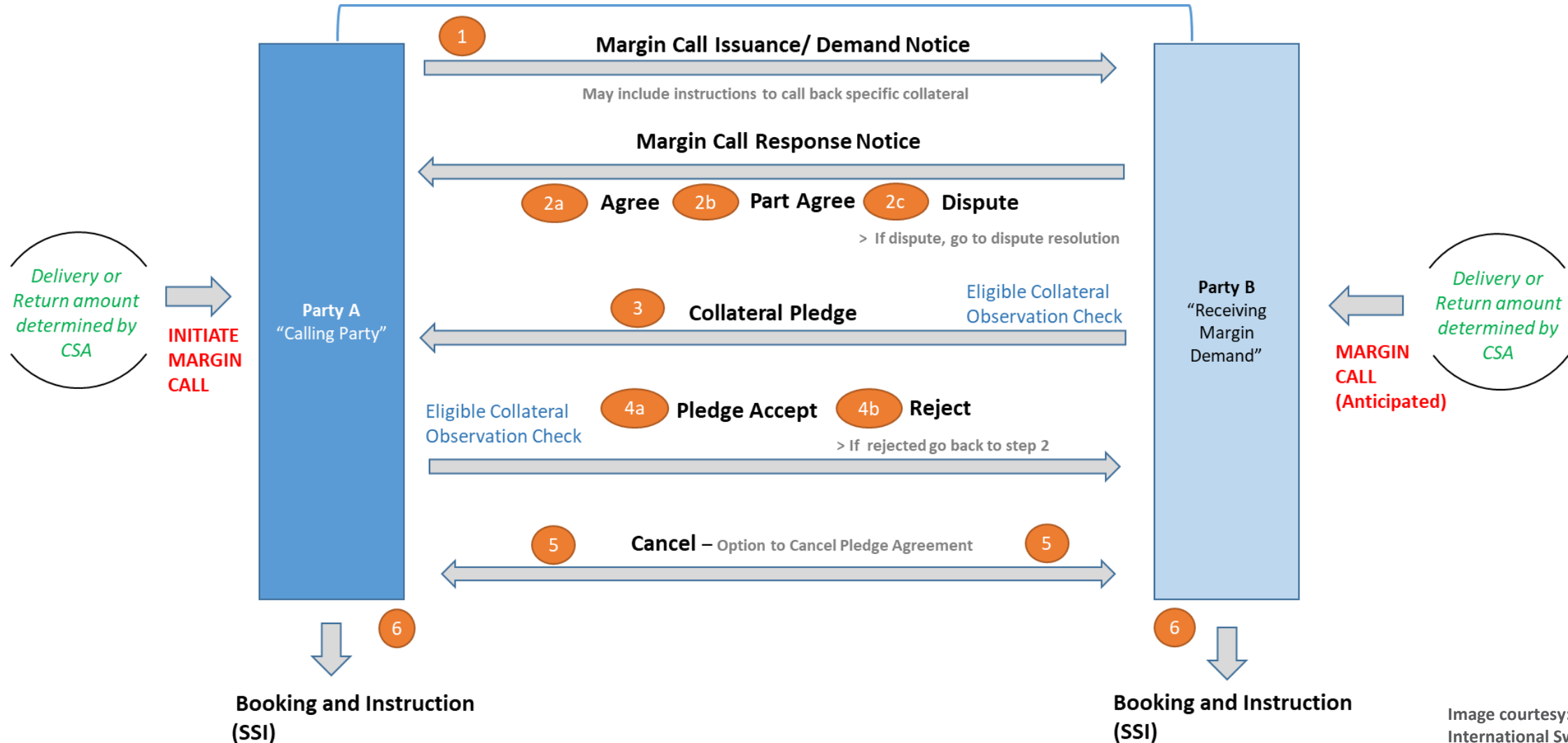
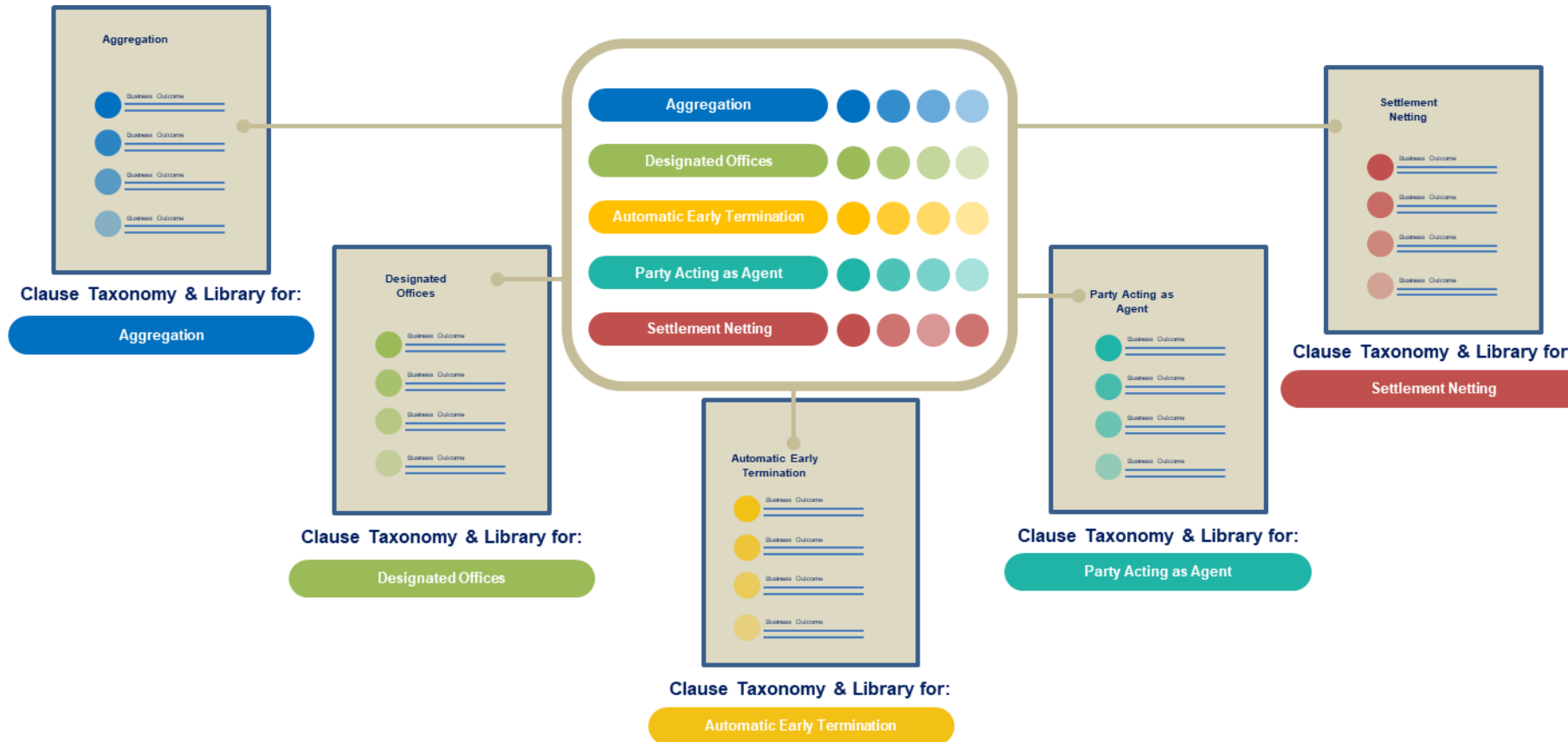


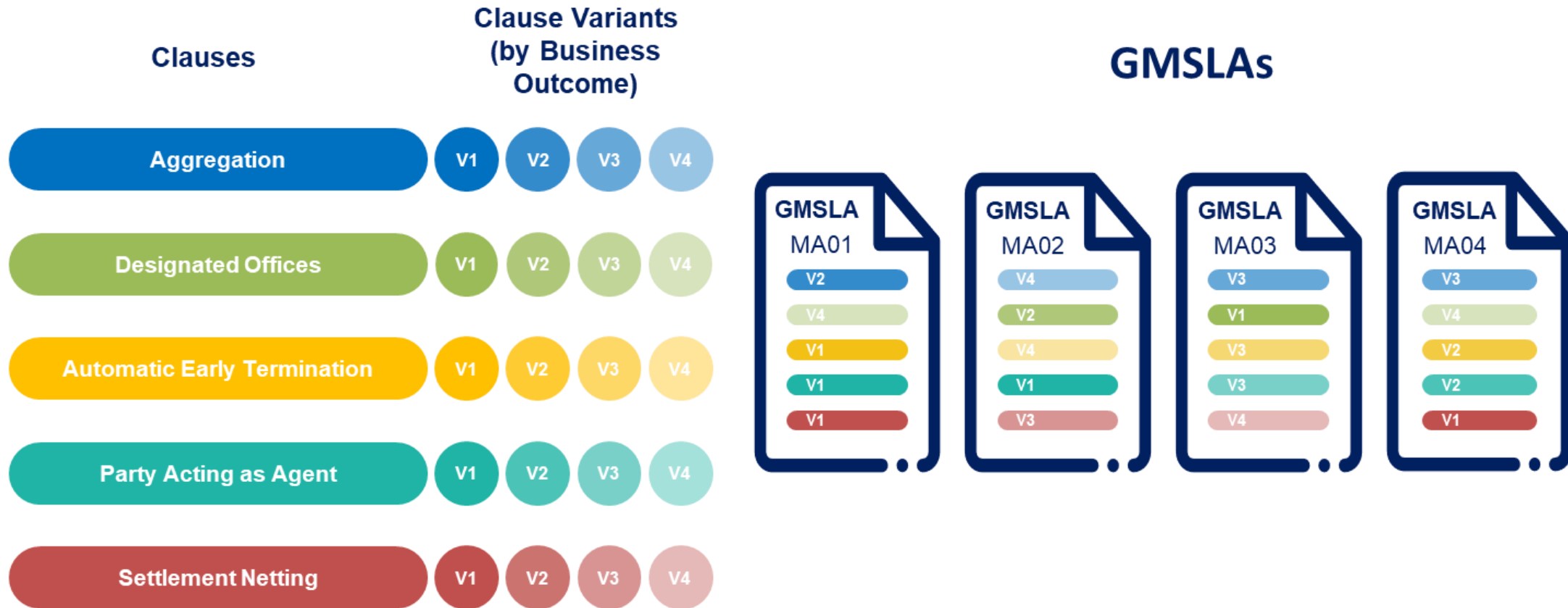
Image courtesy: International Swaps and Derivatives Association, Inc

Detail: Document Digitalisation



Institutions have historically negotiated GMSLA's adopting their "house style". Accordingly, language has diverged and yet in many cases the intended business outcome is intended to be identical. This programme is evaluating variants by reference to their business outcome.

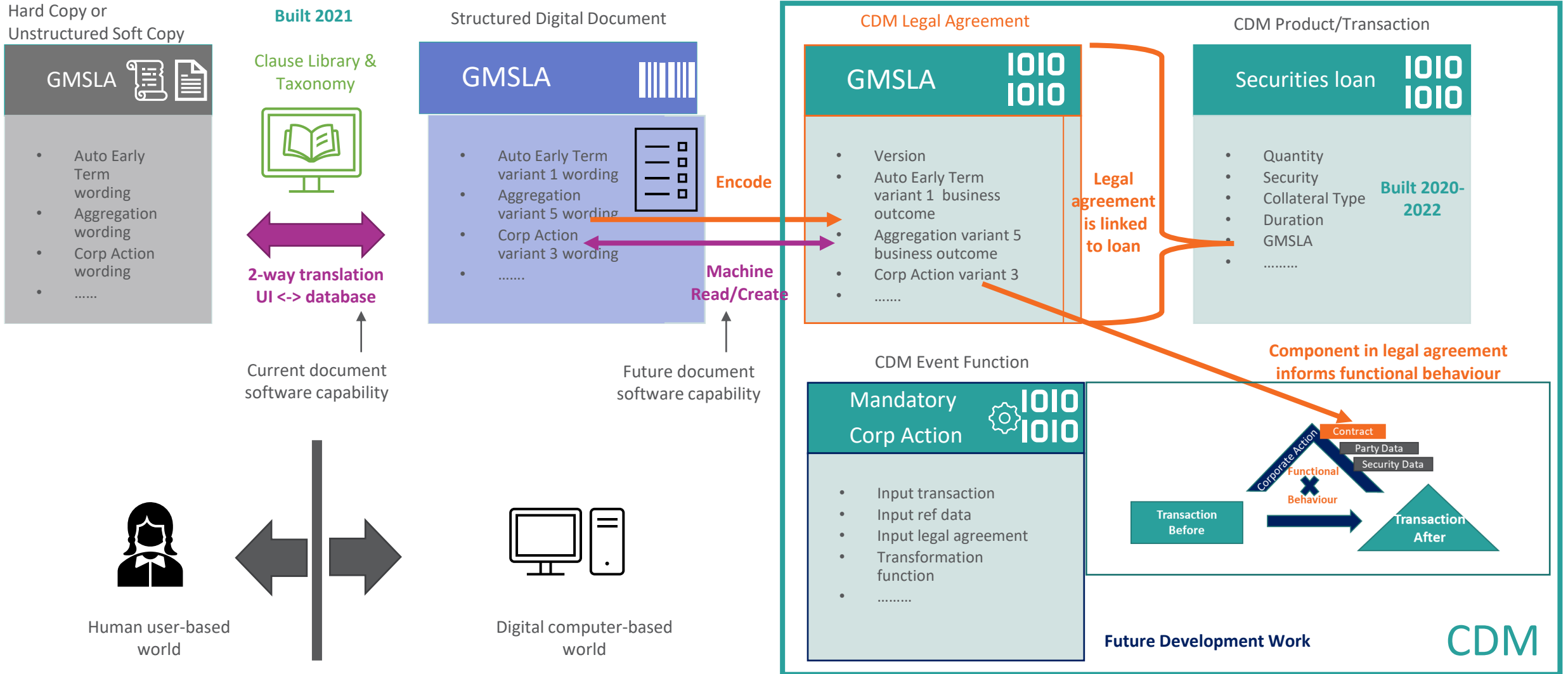
Image courtesy:
D2 Legal Technology



• This process should enable members to derive the component parts of the GMSLA.
• V1 Aggregation + V2 Designated Offices + V3 Automatic Early Termination, etc

Image courtesy:
D2 Legal Technology

Integrating the CDM and ISLA Clause Library

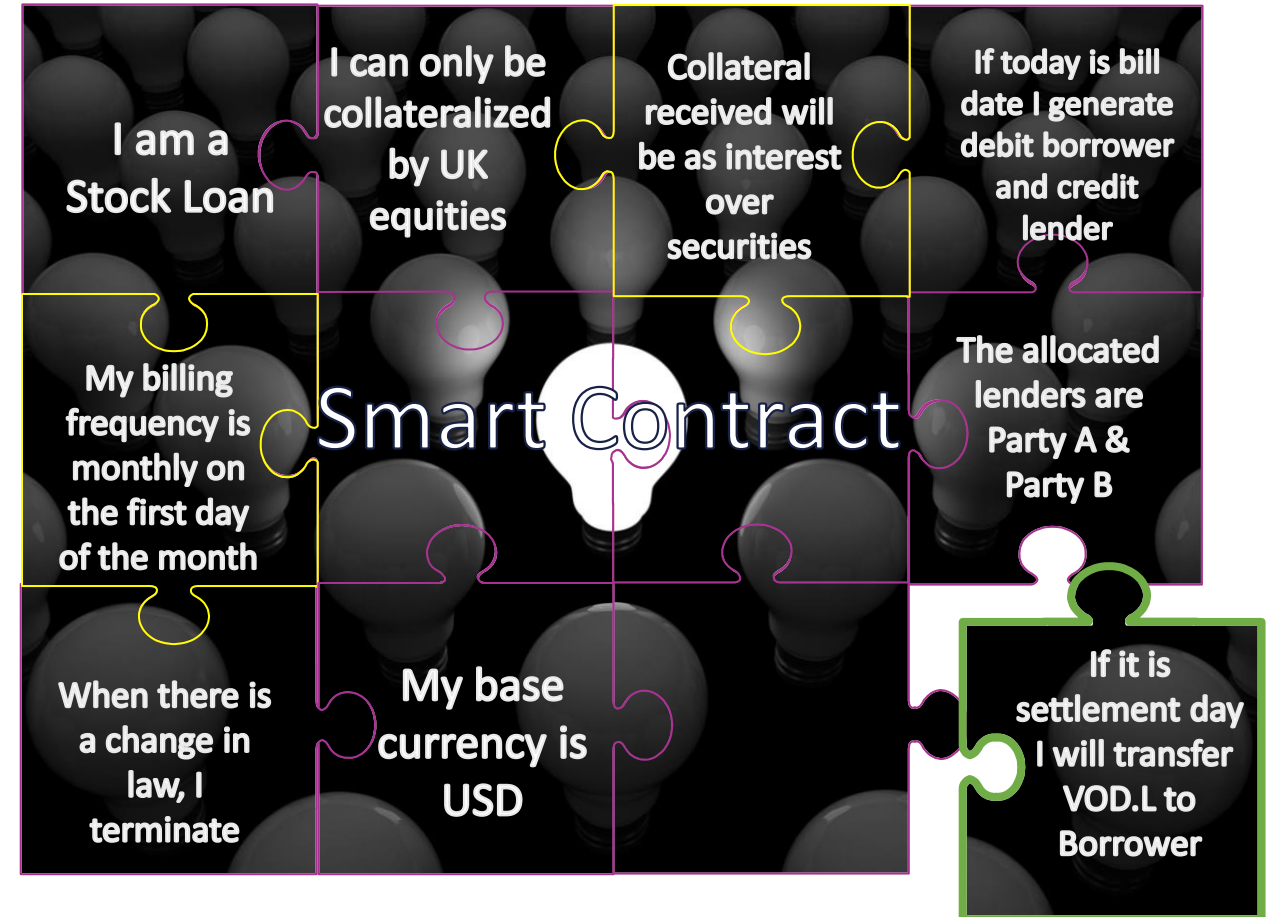


Future State - Smart Contracts

Smart contracts are digital representations of transactions that encode their behaviours under certain conditions digitally and consistently. This includes legal as well as economic terms.

They can be placed on Distributed Ledgers and thus all parties to the contract experience the **same outcomes for the same event at the same time.**

In order to achieve this efficiently there needs to be a recognised standardisation of terms, representations and event outcomes: **a CDM**



With legal negotiation and execution applications built upon a CDM, it is easy for parties to select the components they want, to make up the smart contract from a set of standard values; ensuring consistent behaviour and removing chance of different real-world outcomes

Wider Digital Landscape

Asset Optimisation

Resource Optimisation

Automation

Scalability

Standardisation

CDM

- Development of standard data, process and workflow representations
- Education, adoption and promotion of using those standards
- Cross-product collaboration with other trade associations

Doc Digitisation

- Incorporate existing market standard legal documentation into CDM
- Digitise GMSLA
- Creation of business outcome driven Clause Library & Taxonomy
- Advocate for use of technology to aid negotiation and onboarding

Digital Assets

- Expand market standard legal framework (GMSLA) to cater for digital asset classes
- Education and awareness for members
- Assess asset impacts to traditional lifecycle and produce guides

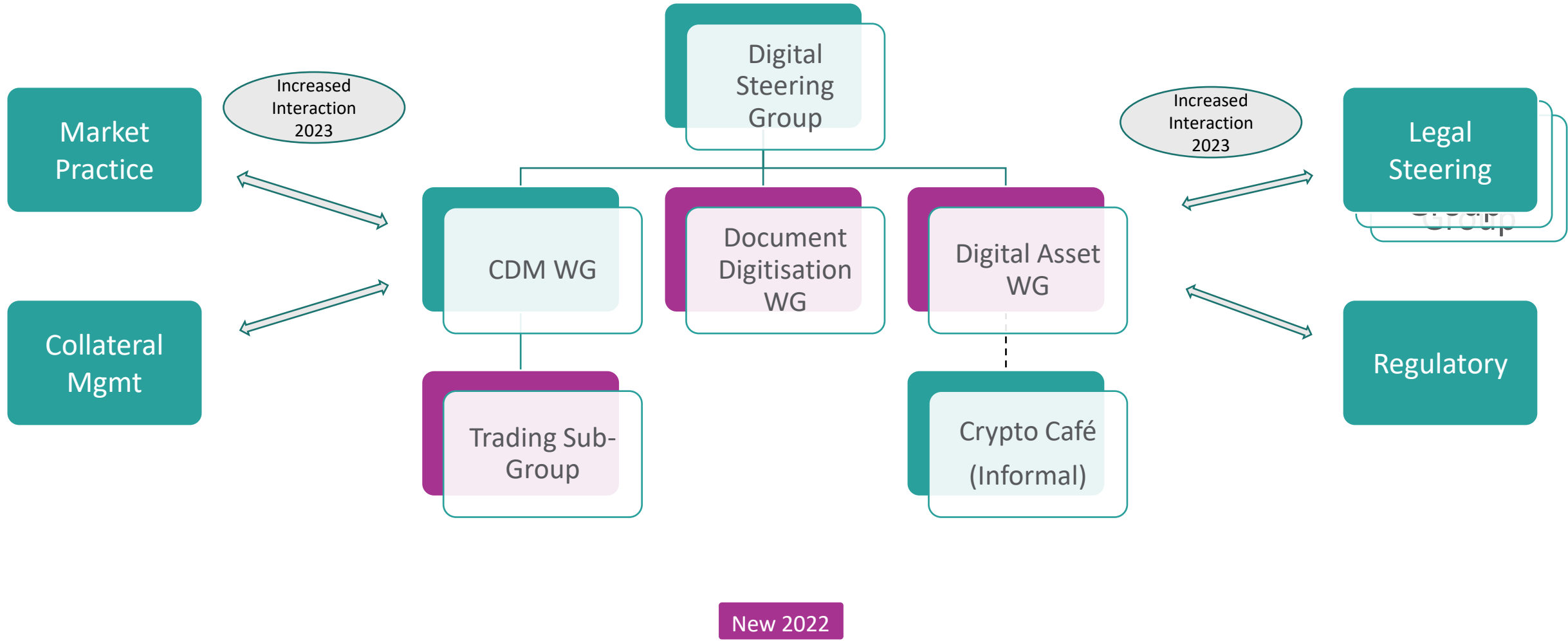
Digital Regulation

- Respond to regulation impacting infrastructure, new technology use and digital assets as directed by membership
- Collaborate jointly with other trade associations where appropriate

Advocacy

- Advocate for standardisation, collaboration and digital progress for the future of the market
- Regulator awareness and education of industry initiatives
- Member engagement

Delivering the Pillars: Working Group Structure



	CDM	Doc Digitisation	Digital Assets	Advocacy	Digital Regulation
Goals	<ul style="list-style-type: none"> - Further model dev - Adoption use cases - Education & training - 3 TA open-source efforts 	<ul style="list-style-type: none"> - Digitise GMSLA - Clause Library adoption - GMSLA/CL into CDM 	<ul style="list-style-type: none"> - Education and awareness - Assess asset impacts to traditional lifecycle - Expand GMSLA to new asset class 	<ul style="list-style-type: none"> - Advocate for standardisation & collaboration - Raise awareness of ISLA digital efforts - Relationship development 	<ul style="list-style-type: none"> - Monitor relevant regulation and alert DSG - Respond as directed by DSG
Achievements	<ul style="list-style-type: none"> - In-house development capability - Evergreen & Extendible product models contributed to CDM - Trading WG – Bilateral workflow dev complete - Positions use case work begun with two members - FINOS appointed to take on repository; migration due to complete January - Design group with ICMA/ISDA 	<ul style="list-style-type: none"> - New working group created Nov 2022 - Draft modelling principles created 	<ul style="list-style-type: none"> - New working group created Jun 2022 - BCBS Crypto Asset Consultation response - UK Law commission consultation response - Whitepaper: Preparing the Global Master Securities Lending Agreement (GMSLA) for an Evolving Digital Asset Landscape - Digital Asset Technology in Brief x 3 	<ul style="list-style-type: none"> - Whitepaper: The Future of the Securities Lending Market On the Cusp of Transformation - Re-election to BoE/FCA Data Standards Committee - ESMA PTSC presentation - 6 new members due to digital WGs, topics or interaction 	<ul style="list-style-type: none"> - Updated members on: <ul style="list-style-type: none"> - MiCA - DORA - See also Digital Assets
Stats	<ul style="list-style-type: none"> - 15 + 6 WG sessions - 10 active member firms; 100 WG output recipients 	<ul style="list-style-type: none"> - 3 WG sessions - 10 member firms engaged; 4 pending licenses 	<ul style="list-style-type: none"> - 8 sessions inc. sub-grp - 72 member firms - 7 crypto cafes; avg. 20 attendees 	<ul style="list-style-type: none"> - 15 events, panels, webinars - 45+ member engagement meetings/visits 	<p>DSG Stats</p> <ul style="list-style-type: none"> • 86 member firms • 7 DSG Guest speaker sessions

Look ahead to 2023 (non-CDM)

- **Digital Assets**

- GMSLA expansion prioritisation and subsequent work [in conjunction with Legal Steering]
- Practical impact guides- document 1: Tokenisation
- Expand Digital Asset Technology in Brief
- Respond to Regulatory consultations and proposals as prioritised by WG

- **Advocacy**

- Showcase event with ICMA, ISDA- Feb 21st London
- Continued global event presence
- Increased conversation with global regulators on CDM, Digital Assets
- Increased collaboration with other trade associations, particularly in Digital Assets sphere

While we have made every attempt to ensure that the information contained in this Presentation has been obtained from reliable sources, International Securities Lending Association (ISLA) is not responsible for any errors or omissions, or for the results obtained from the use of this information. All information in this Presentation is provided “as is”, with no guarantee of completeness, accuracy, timeliness or of the results obtained from the use of this information, and without warranty of any kind, express or implied, including, but not limited to warranties of performance, merchantability and fitness for a particular purpose. Nothing herein shall to any extent substitute for the independent investigations and the sound technical and business judgment of the reader. In no event will ISLA, or its Board Members, employees or agents, be liable to you or anyone else for any decision made or action taken in reliance on the information in this Presentation or for any consequential, special or similar damages, even if advised of the possibility of such damages.

For more information visit:

www.islaemea.org