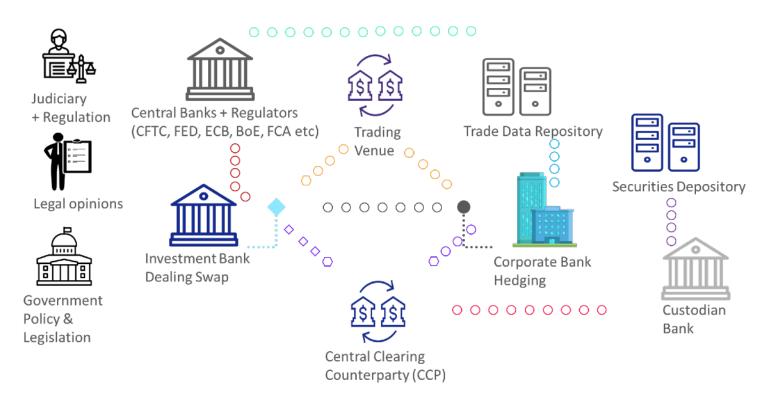
**Common Domain Model- An Overview October 2023** 



# Catalyst for Change- Current Market Structure Challenges



All parties store trade data in different formats & make lifecycle changes to these records inconsistently



What is the true "truth" at any point in time?

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
- Barriers to automation

## What is the CDM?



The Common Domain Model (CDM) is a standardised, machine-readable and machine-executable blueprint for how financial products are traded and managed across the transaction lifecycle.

#### Dimensions of the CDM:

Product	Definitions of tradeable products qualified by their economic terms
Event	Data structures to represent the lifecycle events of financial transactions
Legal Agreement	Digital representation of the legal agreements that govern transactions
Process	Translates the technical standards that support those industry processes into a standardised machine-readable and machine-executable format
Reference Data	Reference data components that are specifically needed to model the other dimensions
Mapping	Mapped to a set of alternative data representations including FIX, FpML, ISO20022

The CDM is **NOT** an application in and of itself, but can be implemented within one **Composability** allows for re-use of components for efficiency

# CDM vs. FpML

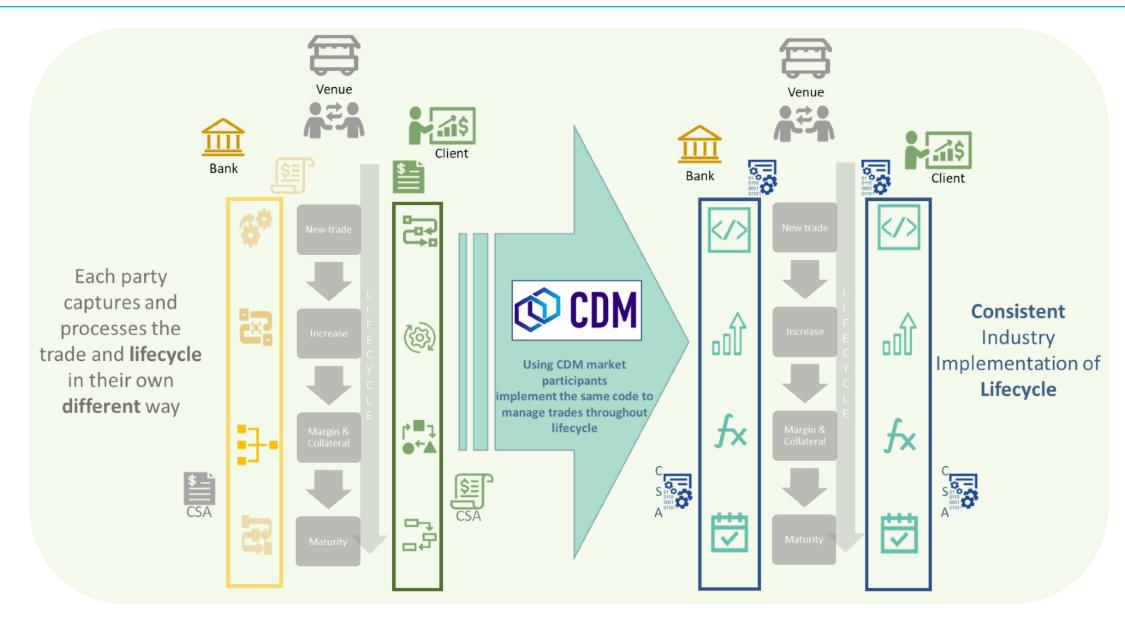


While both CDM & FpML are standards, they can and will co-exist

- CDM is not a data format for messaging or storage, it is a logical model describing relationships between pieces of data
- CDM can be expressed in various forms including XML, JSON and other standard formats such as FpML,
   FIX & ISO20022 for exchange and storage of information
- FpML does not define standards for event and workflow processing, CDM prescribes the validation logic to express these more specifically

# Benefits- Consistency of representation





## **Core Benefits**



#### **Efficiency**

Enhance interoperability, reduce reconciliations and promote straight-through processing

#### **Transparency**

Promote transparency and alignment between regulators and market participants

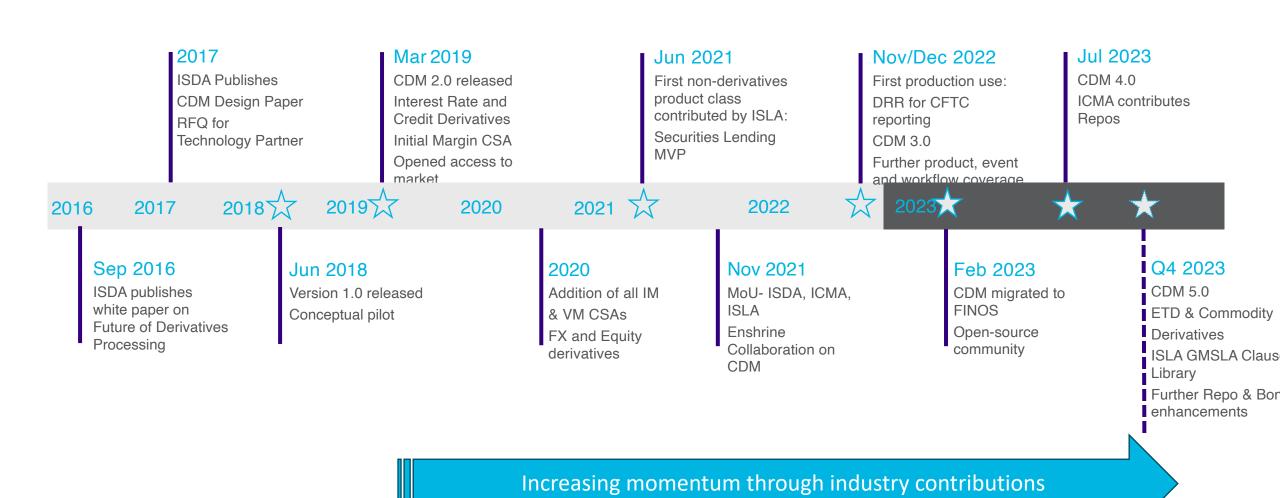
#### **Accelerated Innovation**

Create an environment for innovation in financial markets

A mutualised free open-source standardised digital blueprint on how to represent financial transactions, performance and business events.
 Extensible to compose financial instruments by assembling reusable components. Already covers robustly derivative and securities financial transactions.
 Scalable as event-driven model that encapsulates primitive components that will de facto make the fabric of complex business and operational processes.
 Operational and functional to codify the contract mechanics and business logic of legal agreements.
 Unambiguous in digitising functionally complex business and regulatory logic into code.
 Directly approachable as published in both human readable and machine executable languages.
 Implementable across several strategic uses cases in capital markets for better automation and greater consistency e.g. Trade management systems, clearing, digital documentation, collateral managements, regulatory reporting.

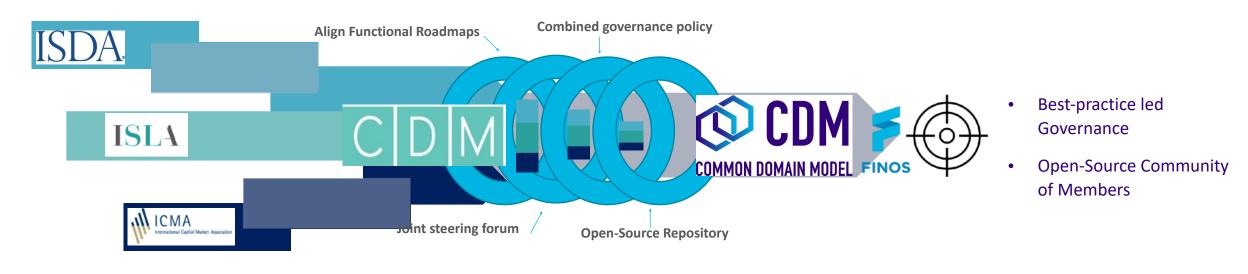
# History of the CDM





## Trade Association Collaboration





#### Associations are collaborating towards the same future goal, to benefit the whole industry

- An open-source model mutualises cost of development between TAs and contributing firms while retaining best practice governance
- MoU in 2021 enshrined collaboration publicly
- Working groups were opened to each others' members
- TAs appointed FINOS to provide a repository with a view to fostering the growth of an open-source community for the CDM, with migration completed early 2023

# **Product Coverage**



The scope of contractual products in the current model are summarized below:

#### Interest rate derivatives:

- Interest Rate Swaps (incl. cross-currency swaps, non-deliverable swaps, basis swaps, swaps with non-regular periods, ...)
- Swaptions
- Caps/floors
- FRAs
- OTC Options on Bonds

#### Credit derivatives:

- Credit Default Swaps (incl. baskets, tranche, swaps with mortgage and loans underliers, ...)
- Options on Credit Default Swaps

#### Equity derivatives:

- Equity Swaps (TRS, PRS, single name/index/basket, VarSwap, VolSwap, Dispersion, Correlation, Dividend Swap)
- Options & Forwards

#### Foreign Exchange derivatives:

- FX Swap, Forward, NDF, Options
- Commodity derivatives:
  - Swaps, options, swaptions

# **Product & Event Coverage**



The scope of contractual products and events in the current model are summarized below:

- Securities Lending:
  - Single underlier, cash collateralised, open/term security loan
- Repurchase Agreements:
  - Open Term, Fixed Term, Fixed Rate, Floating Rate
- Events:
  - Allocation, Re-allocation
  - Cash, Security transfers, DVP settlement
  - Clearing events
  - Compression
  - Increase and decreases/returns
  - Novations- full, partial
  - Terminations- full, partial
  - Renegotiation
  - Reset
  - Execution
  - Stock Split
  - Index Transition
  - Determination of corporate action and credit events

# Legal Document Coverage



ISDA Documentation	CDM	ISDACreate	ISDACreate/ CDM Compatible
INITIAL MARGIN			
2016 ISDA IM CSD (English Law)	✓	✓	х
2016 ISDA IM CSA (NY Law)	✓	✓	✓
2016 ISDA IM CSA (Japanese Law)	✓	✓	х
2018 ISDA IM CSA (NY Law)	✓	✓	✓
2018 ISDA IM CSD (Eng Law)	✓	✓	✓
2019 ISDA Bank Custodian CTA	✓	✓	✓
2019 ISDA Bank Custodian SA (NY Law)	✓	✓	✓
2019 ISDA Bank Custodian SA (Eng Law)	✓	✓	✓
2019 ISDA Bank Custodian SA Luxembourg Law	✓	✓	x
2020 ISDA Bank Custodian SA Belgium Law	✓	✓	х
2016 Euroclear SA (Bel Law)	✓	<b>✓</b>	X
2017 Euroclear CTA (NY Law)	✓	✓	x
2017 Euroclear CTA (Eng Law)	<b>✓</b>	✓	x
2018 Euroclear CTA (Eng Law)	✓	✓	x
2018 Euroclear CTA (NY Law)	✓	✓	х
2018 Euroclear SA (Bel Law)	✓	✓	х
2019 Euroclear CTA	✓	✓	✓
2019 Euroclear SA (Bel Law)	✓	✓	х
2016 Clearstream CTA (Eng Law)	<b>✓</b>	✓	X
2016 Clearstream CTA (NY Law)	· /	· /	х
2017 Clearstream SA (Lux Law)	· /	· •	х
2016 Clearstream SA (Lux Law)	· /	· •	х
2019 Clearstream CTA	· /	· •	<b>√</b>
2019 Clearstream SA (Security-provider) (Lux Law)	· /	<b>,</b> ✓	· /
2019 Clearstream SA (Security-taker) (Lux Law)	· /	· •	· /
2010 SIDELIGIAN ON (OCCUPING MINOR) (EUX EUN)	· •	· •	x

ISDA Documentation	СДМ	ISDACreate	ISDACreate/ CDM Compatible
VARIATION MARGIN			
2016 ISDA CSA (VM) (Loan - Japanese Law)	✓	x	x
2016 ISDA CSA (VM) (Security Interest - New York Law)	✓	✓	x
2016 ISDA CSA (VM) (Title Transfer - English Law)	✓	✓	x
2016 ISDA CSA (VM) (Title Transfer - French law)	✓	x	x
2016 ISDA CSA (VM) (Title Transfer - Irish law)	✓	x	x
1994 ISDA Credit Support Annex VM (Security Interest - New York Law)	х	Due Q4 2023?	х
1995 ISDA Credit Support Annex VM (Title Transfer - English Law)	х	Due Q4 2023?	х
1995 ISDA Credit Support Annex (Security Interest - Japanese Law)	х	Due Q4 2023?	x
1995 ISDA Credit Support Deed (Security Interest - English Law)	х	Due Q4 2023?	х
ISDA MASTER AGREEMENT			
1992 ISDA Master Agreement	See below	?	x
2002 ISDA Master Agreement	See below	✓	CP details only
Automatic Early Termination ("AET")	✓	TBC	x
Address for Notices	✓	TBC	х
Dated as of Date	✓	TBC	x
Credit Support Provider	✓	TBC	х
Credit Support Document	✓	TBC	x
Governing Law	✓	TBC	x
Specified Entity	✓	TBC	x
Termination Currency	✓	TBC	x

ISLA have also contributed their Clause Library and Taxonomy for the GMSLA 2010/2018

# Roadmap & Ongoing Initiatives



#### **Derivatives:**

DRR driven items- Q4 2023:

- ETD & Commodity derivatives including position reporting
- Trade Valuation report
- Margin reporting

Collateral driven items- Q1 2024

- Enhancements to collateral models
- Additions of earlier CSAs to Legal document model

#### **Securities Finance:**

Enhancements for partial and failed settlements- 2024 Locate process for securities lending- Q4 2023 Clearing workflows for Repo SFTR and US OFR Repo reporting Incorporation of ICMA Bond Data Taxonomy

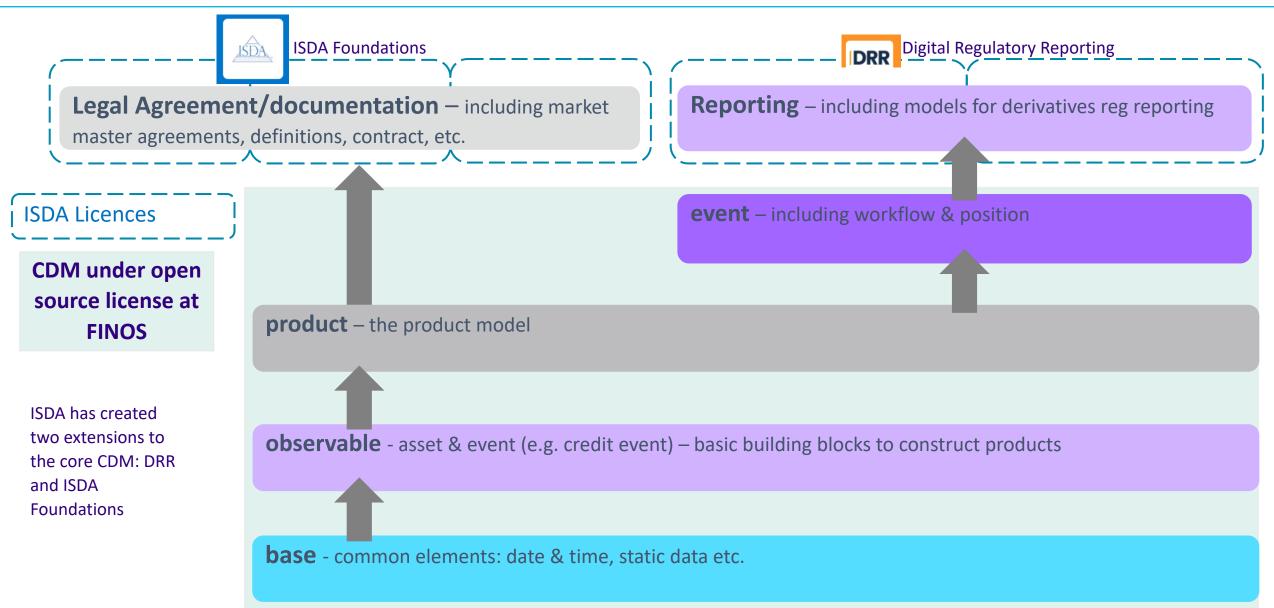
#### **Technical Implementation:**

Working groups are looking at:

- Standardising Serialisation
- Improving interaction with Reference Data lists
- Formalising Release process and governance

# ISDA Extensions to CDM







**Use Cases** 



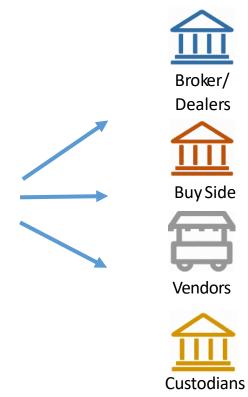
# Collateral - Today's Challenge



Guidelines outlined under BCBS/IOSCO and Basel III were translated by each regulatory regime spearheading collateral management as a key function in capital markets for both bilateral and cleared OTC. Compliance has increased processing volumes significantly and will continue to do so, the need for automation in collateral management processing. The industry is faced with many challenges which has led to fragmented implementations and operational inefficiencies.

#### **INDUSTRY PARTICIPANTS**

Calculation Dependencies
Margin Monitoring
Margin Allocation
Documentation
Collateral Segregation
Establishing Custody Accounts
Eligibility Schedules
Risk Control
Optimisation
Regulatory Compliance
Reconciliation
Dispute Management
Efficient Settlement





- Lack of industry standards Every industry participant left to implement their own version
- Loss of inter-operability between solutions
- Pervasive reconciliation issues and other operational inefficiencies

# Collateral- Documentation Model Representation 2020/2021



# ISDA COMMON DOMAIN MODEL (CDM) COLLATERAL DOCUMENTATION SUPPORTED

Q1/Q2 2020 Modelling of all <u>IM</u> including New Generation documents and elections found to negotiate in <u>ISDA Create</u>. Request an ISDA Create Demo

Q3 2020 Additional Variation Margin(VM)

Documentation

Now CDM offers digital representation of 30 Collateral documents covering over 100 unique election structures

Access to the ISDA CDM portal

# INITIAL MARGIN DOCUMENTS Published 2016 – 2019

ISDA X 10
ISDA Clearstream X 7
ISDA Euroclear X 8



2016 ISDA IM ISDA CSA (NY Law) 2016 ISDA IM CSA (Japanese Law) 2018 ISDA IM CSA (NY Law) 2018 ISDA IM CSD (Eng Law) 2019 Euroclear CTA 2019 Euroclear SA (Bel Law) 2019 Clearstream CTA 2019 Clearstream SA (Security-provider) (Lux Law) 2019 Clearstream SA (Security-taker) (Lux Law) 2019 ISDA Bank Custodian CTA 2019 ISDA Bank Custodian SA (NY Law) 2019 ISDA Bank Custodian SA (Eng Law) 2019 ISDA Bank Custodian SA Luxembourg Law 2020 ISDA Bank Custodian SA Belgium Law 2018 Euroclear CTA (Eng Law) 2018 Euroclear CTA (NY Law) 2018 Euroclear SA (Bel Law) 2016 Clearstream CTA (Eng Law) 2016 Clearstream CTA (NY Law) 2017 Clearstream SA (Lux Law) 2016 Clearstream SA (Lux Law) 2017 Euroclear CTA (NY Law) 2017 Euroclear CTA (Eng Law) 2016 Euroclear SA (Bel Law)

2016 ISDA IM CSD (English Law)

VARIATION MARGIN
DOCUMENTS
Published 2016

ISDA Publications X 5

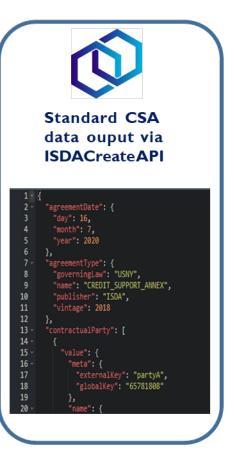
2016 ISDA CSA for (VM) (Loan - Japanese Law)
2016 ISDA CSA for VM) (Security Interest - New YorkLaw)
2016 ISDA CSA for (VM) (Title Transfer - English Law)
2016 ISDA CSA for (VM) (Title Transfer - French law)
2016 ISDA CSA for (VM) (Title Transfer - Irishlaw)

### Collateral- Benefits of CDM Standard Documentation





IM CSA Negotiated between parties



Standard
Representation
Promotes
Interoperability,
Transfer of Clean
Data
and STP



Institutions can
exchange CDM
Standard for
Documents including
Eligibility Data to drive
Collateral Processes

# Use Cases and Benefits

- Fewer Reconciliations, Translations
- Shorter Processes
- Reduced Negotiation Timeframes
- Improved Onboarding
- Decreased Settlement Risks
- Cost Effective
- Secure transfer of information
- Mitigates Margin Disputes
- STP from Negotiation to Settlement
- Produces Clean Auditable data
- Facilitates Digitizing Legacy Data
- · Matching counterparty
- Standards for Eligibility Data
- · Advance Optimization Processing
- Improved Custodian Services and Interoperability
- Advanced processing of Contract Amendments

# Collateral- ECS Challenges – No Standard Data Format

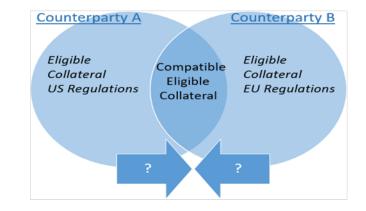
Eligible Collateral.

US-TBOND



# Challenges are observed today with constructing, negotiating and expressing ECS, many of these originate from lack of common data standards and the inability to connect process events.

- > Observation of different regulations, agreeing on compatible eligible assets
- Challenges of collateral identity and categorization
- Understanding Asset economic identity to apply regulatory haircuts and confirm eligibility
- No common standards in place for representation of keyfeatures
- Currently no data standard used within documentation to describe the elements for eligible collateral – <u>many versions observed</u>:



	Items of Eligible Collateral (IM) and Eligible Currencies	[In respect of Party A's posting obligation]	[In respect of Party B's posting obligation]	[Valuation Percentage]		
(A)	[ ]	[ ]	[ ]	[ ]%		
(B)	[ ]	[ ]	[ ]	[ ]%		
(C)	[ ]	[ ]	[ ]	[ ]%		
(D)	[ ]	[ ]	[]	[ ]%		
	[FX Haircut Percentage]	unless the Eligible Collateral (IM) is denominated in th Termination Currency specified with respect to Party B under the Agreement (including, without limitation, pursuant to this Annex), in which case, 0%1, [In respect of Party B's posting obligation: [8]% [.] unless the Eligible Collateral (IM) is denominated in th Termination Currency specified with respect to Party 4, under the Agreement (including, without limitation, pursuant to this Annex), in which case, 0%.				
	[Termination Currency] <sup>10</sup>		h respect to Party A:   h respect to Party B:	,		
	[Termination Currency]**	6(e)(ii)(2) in re resulting from	o a calculation pursua espect of an Early Ter a Termination Event o Affected Parties; [	mination Date where there are		

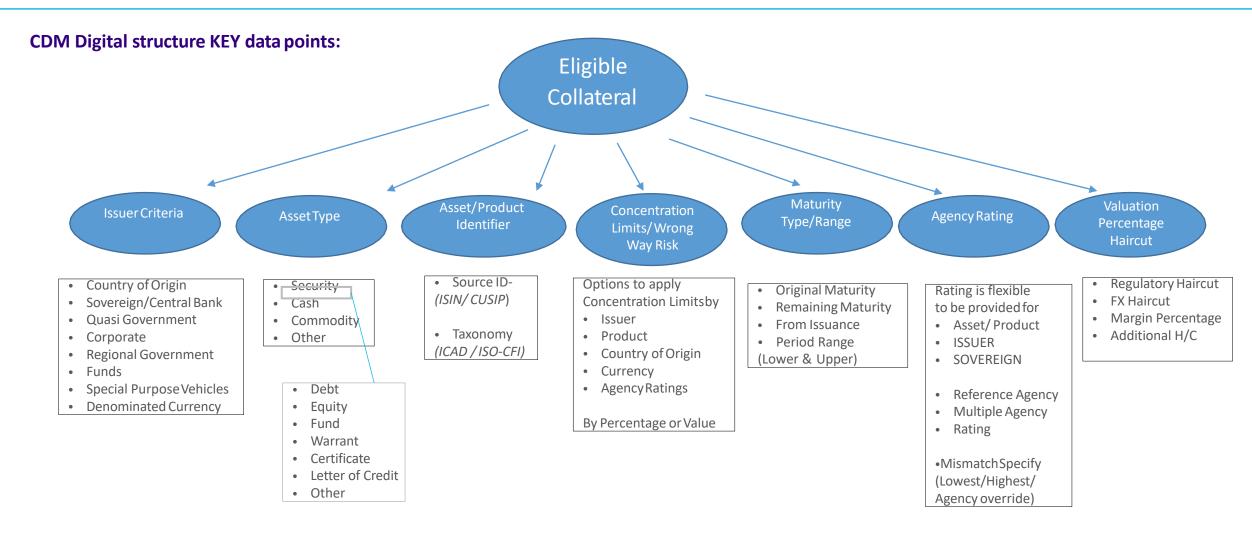
		Remaining	Maturity	,
[CAD Code	One (1) year or under	More than one (1) year up to and including five (5) years	More than five (5) years up to and including ten (10) years	More than ten (10) years
GA-CA-GOV				
A-TBILL	93%	N/A	N/A	N/A
A-BOND	97%	97%	95%	93%
CA-RRB	98%	96%	94%	92%
A-US-GOV				
S-TBILL	98%	N/A	N/A	N/A
S-TNOTE	98%	97%	95%	93%
	0.007	070/	0.51/	0.00/

The following items: (i) will qualify as "Eligible Collateral" for Party A and Party R: and (ii) are identified by the appropriate ICAD codes, as defined in the

Eligi	bility	criteria			
Order	Field		Oper	Value	Outcome
	Security	Types		Bond, Equity	Accepted
	Counter	party Own Issue		Yes	Not eligible
	Asset Ty	pes	=	Cash	Not eligible
	Bond Ri	sk Profiles		Sovereign, Agency, Structured, Corporate, Convertible band	Accepted
	IM asset	class. EU		C, D, E, F, G, H, I, J, K, L, N, Q-NFI, Q-FI	Eliable
	IM asset	class. US		2, 3, 4, 5-a, 5-b, 6, 7, 8-a, 8-b	Ligon
	Final out	come		If none of the above criteria have been met	Not eligible
Hair	cut cr	iteria			
Group	Order	Field	Og	Value	Outcome
1	1	Security Currency	No	EUR	8%
		IM asset class. EU		C, D, E, H, I, J, K	
2	1	1 Time To Maturity Security <=		12 Months	0.5 %
		Applied Rating		AAA LT, AA+ LT, AA LT, AA- LT	
		IM asset class. EU =		C, D, E, H, I, J, K	
2	2 Time To Maturity Security		>	12 Months	2%
	2	Time To Maturity Security		60 Months	2%
		Applied Rating		AAA LT, AA+ LT, AA LT, AA- LT	
		IM asset class. EU		C, D, E, H, I, J, K	
	3	Time To Maturity Security	>	60 Months	4%
-		Applied Rating		AAA LT, AA+ LT, AA LT, AA-LT	
		IM asset class. FU	-	C.D.E.H.I.J.K	
	4	Applied Rating		A+ LT, A LT, A- LT, 888+ LT, 888 LT, 888- LT	1%
	_	Time To Maturity Security		12 Months	
Con	centr	ation limits			
imit Ty	pe Limit	Granularity		ld Oper Value	Basis
Max	15.00	% Per UPI		asset class. EU = F, G, L, N, Q-NFI	Contract Collateral Basis

# Collateral-Eligible Collateral Schedules

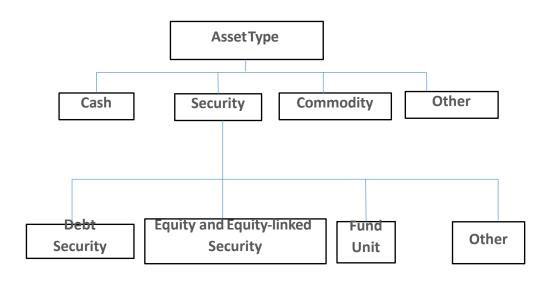




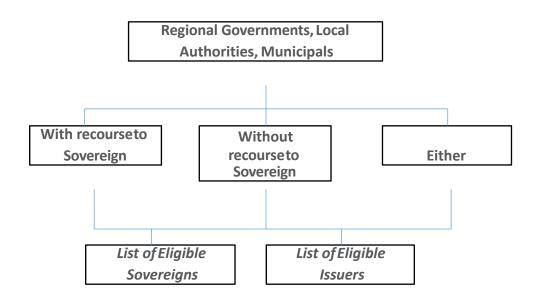
# Collateral- Structure to define Asset Types and Identify Issuers



ISDA CDM will offer the flexibility to identify collateral asset types, with particular focus on securities, as most common form found in collateral schedules. However, this can be extended to cover many otherassets.



With the functional flexibility to capture detail of its identity including specific issuer name and use of common identifiers



#### Other issuer types include:

- Sovereign Central Banks
- Corporate
- Supranational Debt
- SPV and Funds

# Collateral- CDM Eligibility Schedules Representation



CDM offers standard data references points required for many industry forms of ECS. The structure enables consistent expression of data with the ability to apply various include/exclude rules and complex concentration limits. ISDA has demonstrated translation of several ECS provided by members into digital output

#### CDM Digital Data Representation:

- Collateral Issue Information
- Collateral Asset Type
- Collateral Maturity Range
- Agency Rating
- Valuation Percentage
- Include/ Exclude Rules
- Concentration Limits



# CSA Free Format Eligible Collateral Schedule

	Items of Eligible Collateral (IM) and Eligible Currencies	[In respect of Party A's posting obligation]	[In respect of Party B's posting obligation]	[Valuation Percentage]	
(A)	[ ]	[ ]	[]	[ ]%	
(B)	[ ]	[ ]	[]	[ ]%	
(C)	[ ]	[]	[ ]	[ ]%	
(D)	[ ]	[]	[]	[ ]%	
	[FX Haircut Percentage]	Termination Cun under the Agre pursuant to [In respect of I unless the Eligibl Termination Cun under the Agre	e Collateral (IM) is de rency specified with it ement (including, wit this Annex), in which Party B's posting obli- e Collateral (IM) is de rency specified with re- ement (including, wit this Annex), in which	espect to Party I hout limitation, a case, 0%.] gation: [8]% [, enominated in the espect to Party I hout limitation,	
	70		h respect to Party A:	-	
	[Termination Currency] <sup>10</sup>		a calculation pursua	nt to Section mination Date	

#### CDM Digital Data Representation





```
"product" : [ {
  "collateralProductType" : [ {
   "productType" : "CASH"
 }],
  "denominatedCurrency" : [ {
   "value" : "USD"
 } ]
} ],
"valuationPercentage" : {
  "valuationPercentage" : 1
"product" : [ {
  "maturityRange" : {
    "lowerBound" : {
      "inclusive" : true,
      "period" : {
        "period" : "Y",
        "periodMultiplier": 1
  "maturityType" : "REMAINING_MATURITY",
  "productIdentifier" : [ {
    "productTaxonomy" : [ {
      "taxonomySource": "ICAD",
      "taxonomyValue" : "US-TBILL"
 } ]
"valuationPercentage" : {
  "valuationPercentage": 0.995
```

# Collateral-Eligible Collateral Schedules



An Eligible Collateral Schedule is represented in the CDM through the specification of criteria that can be used to "filter" whether a piece of collateral is eligible or not.

Asset Type – is used to specify criteria related to the nature of the asset, such as its type (cash, equity, debt, etc), country of origin or denominated currency

Issuer Type – is used to specify criteria related to the issuer of the asset, such the type of issuer (government, corporate, etc), specific issuer name, or agency rating

Treatment – is used to specify the valuation percentage, any concentration limits and whether the criteria specify inclusion or exclusion conditions

The combination of these terms allows a wide variety of eligible collateral types to be represented and can be applied across industry use cases for OTC, Securities Lending, Repo, Cleared and ETD. s

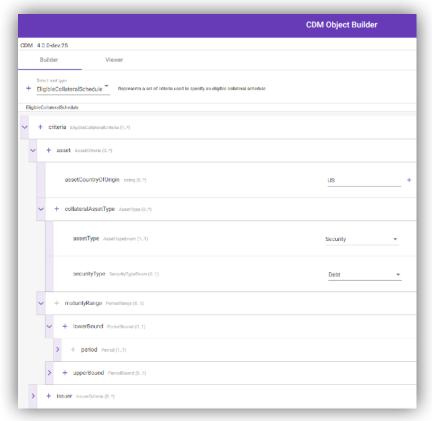
Solving problems for Global Banks, Custodians, Data Providers, Vendors and connecting solutions.

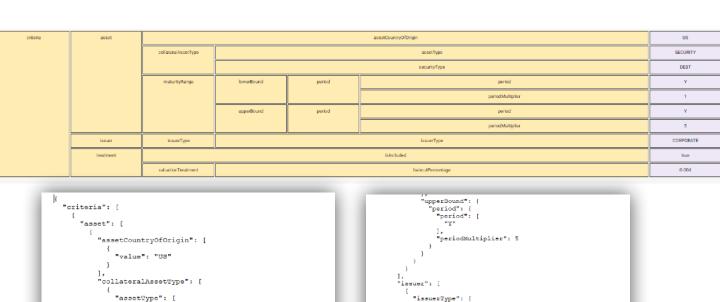
Standard data for Eligible Collateral information facilitates DLT, Smart Contract and technology to be built to add further efficiencies to processes

# Collateral- CDM Object Builder



REGnosys on behalf of ISDA have developed a user interface (UI) this allows you to create CDM Eligible Collateral schedule information using drop down functions. The user can create, import, share or inspect in CDM JSON and view in a tabular format. The Object Builder will be contributed to FINOS in 2023





"issuerType": [

"CORPORATE!

"treatment": {

"isIncluded": true,

"valuationTreatment": {
 "haircutPercentage": 0.004

The UI can be used for predefined common eligibility profiles to import and edit and producing industry compatible consumable data output. The current UI gives the user the ability to also validate and construct many version of eligible collateral as CDM data and has the scope to be development further and built into services for use cases beyond collateral

"SECURITY"

"maturityRange": {

"lowerBound":

"period": {

"period": [

"periodMultiplier": 1

"securityType": [

# Collateral- Commitment to CDM Integration





2021/22 Technical Integration work with ISDA Create completed. CDM standard format IM documentation available via Create API.



2019- 2023 – Continued support and input on CDM Collateral related representations

Focus - Eligible Collateral, VM & IM CSA, CSD and IM CTA, ISDA Master

Q4 2023 – Analysis phase
Q1 2024 – Mapping to enable CDM
compliant format to feed
downstream systems/platforms.
Dependent on connecting firms to
support CDM



2021/2- Workshops to assess compatibility, first stage mapping and analysis for IM CSA completed. VM CSA in scope.

H2 2023 – Development in COBRA for CDM IM CSA ingestion to COLLINE. Expect to release to clients in Q4 2023



DEUTSCHE BÖRSE GROUP

2021/2- Phase 1 ECS
representation mapping
analysis completed
2022 – Stage 2 technical
mapping started into application
import/export functionality
Contributions to model
2023/24 Development and
Launch. Dependent on
connecting firms to support CDM



2022 Continued support, input to workshops and contribution to CDM Eligible Collateral terms/conditions
H2 2023 Analysis for integration and model mapping of collateral eligibility terms. Pilot test with connecting client for POC.
2024 Progress with full CDM implementation, upon internal approval



2022 - Mapping to CDM IM CSA representation completed.
Validated using ISDACreate output test data
2023 - Testing import/export using data uploader tool. Version 1 to be competed Q3 2023
Next Steps - Extend document coverage to VM and add Eligible Collateral

#### CLOUDMARGIN

Focus – To ingest CDM data for Eligible Collateral and multiple CSA versions. Then to produce CDM output from CloudMargin data

H2 2023 / 2024 – Continue analysis and mapping to prepare for ingestion status. Potential to connect to service providers able to support CDM.



Focus - CDM for representing IM, VM ,Legacy CSA and Master Agreement data Q4 2022 – Investigation into ability to round trip CDM data between Lyncs and ISDA Create.

2023 - Build out CDM capability in collaboration with vendors / clients interested in using CDM



Q1 2023 – Mapping for skeleton of CSA mandatory fields & input into MX.3 platform completed.

Q3 2023 - Extension of CDM CSA coverage and further mapping to deliver integration into Murex (CDM vs MX.3)

2024 - Extension for Eligible Collateral and representation of Legacy CSAs once delivered to CDM

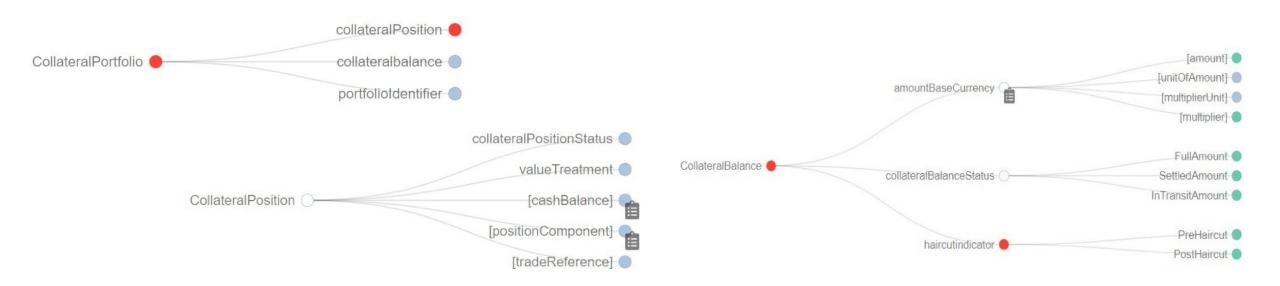
# Collateral- CDM Margin Call / Positions / Balances and Exposure



Data to support the Collateral Margin Call process and its related components for Collateral Balance, Collateral Positions and Exposure are now represented in the CDM.

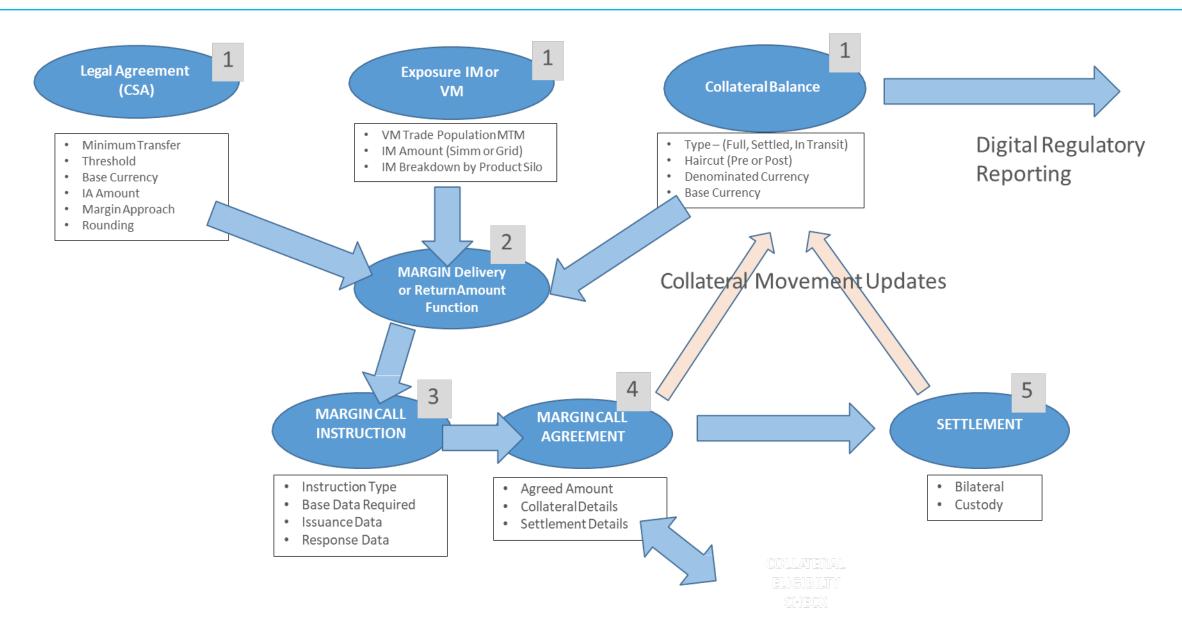
A foundational structure to support the data required for the margin call process including:

- Standard margin call action labels
- Base details for margin call data types and attributes to support unique features for issuance and response
- Collateral positions and ability to list collateral assets for responding to margin demands and for information purposes
- Collateral balance data requirements and aggregate values for margin call data and reporting



# Collateral- Margin Call connection to other CDM components





# Collateral- Processing Standards in CDM- What next?



# **2023/2024 - CDM Collateral Initiatives**

**Objectives:** 

**Documentation Extensions:** 

**1995 VM CSA** 

**ISDA Master Agreement** 

**Amendment Agreements** 

Support Adoption of CDM
Documentation and ECS into
Production Environments of
External Platforms

Validate CDM Data Structure for Margin Call Issuance and Response Standards

**Engage with Members for Support and Adoption** 

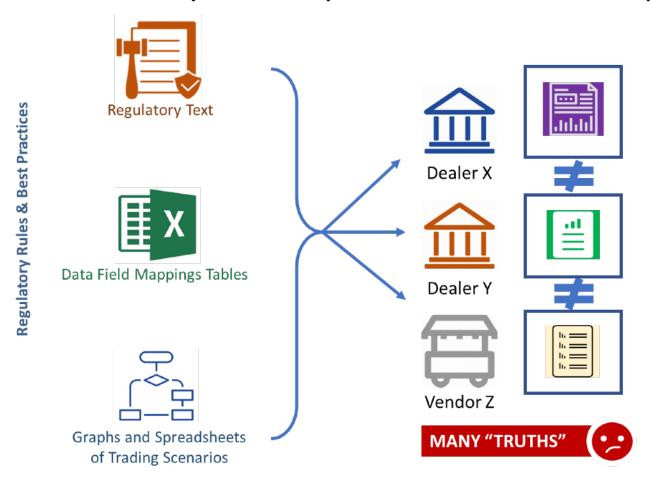
Collaboration with other
Trade Associations to extend
CDM

Repo and Securities Lending Collateral Process



#### **Trade Reporting Rule Implementation Today**

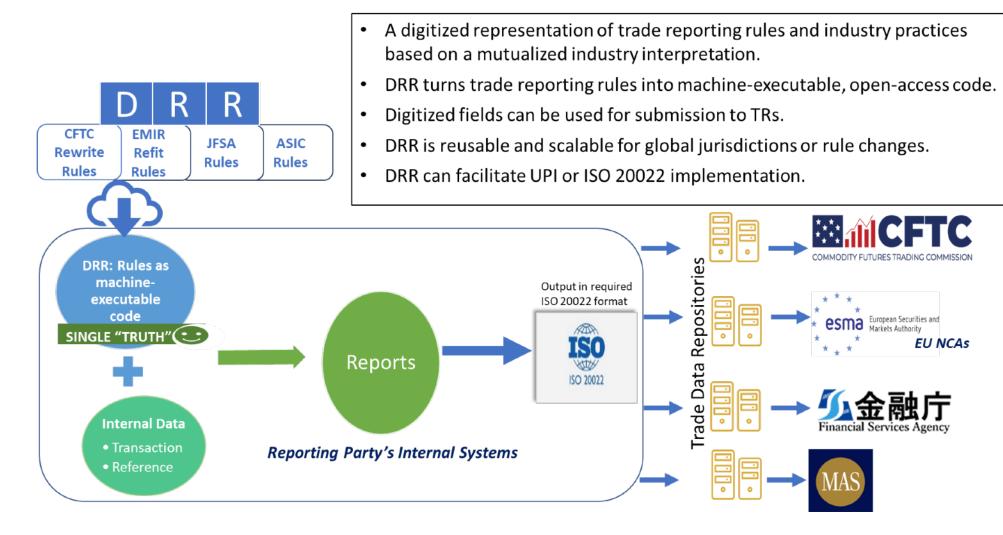
#### Industry firms currently build based on individual rule interpretations



- Inconsistent & Inefficient implementations
- Each industry participant implements based on individual interpretation of rules and guidance.
- Loss of inter-operability between solutions
- Reconciliation issues
- Operational inefficiencies



#### **Trade Reporting Rule Implementation Using the DRR**





#### **Trade Reporting Rule Implementation Using the DRR**

#### Mutualize regulatory reporting compliance effort

• Rule interpretations and compliance effort is spread across the industry

#### Gives you an unambiguous rule interpretation

 Reflects rules, guidance and industry best practices in an unambiguous way within the DRR model

#### DRR is open-access and increases transparency

• The DRR will be accessible to regulators and market participants

#### Defines core regulatory reporting ruleset only once

- Thereafter, only incremental efforts are required to extend the DRR model to other jurisdictions and future changes to reporting rules
- And such updates will be delivered through centralized DRR model changes

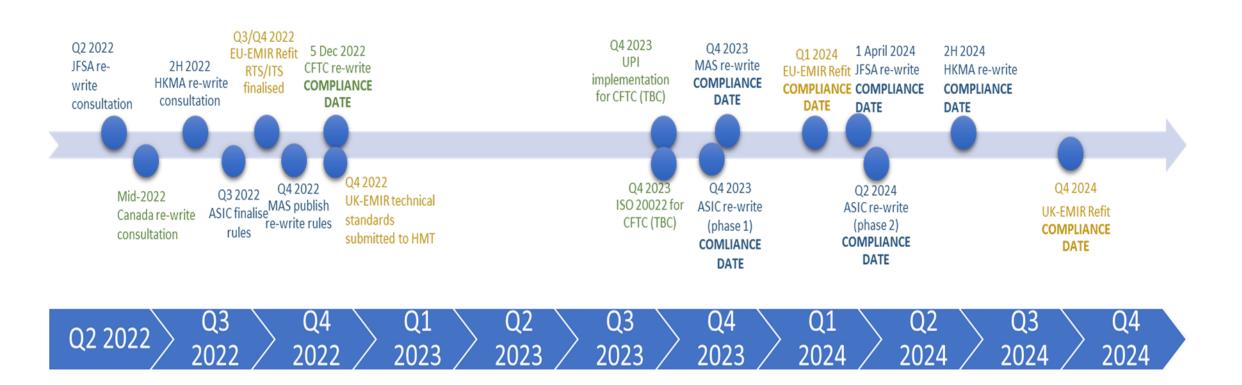
#### Significant resource and cost savings

• Through the mutualized effort, firms leveraging DRR using the CDM will reap significant compliance, reporting and implementation project savings



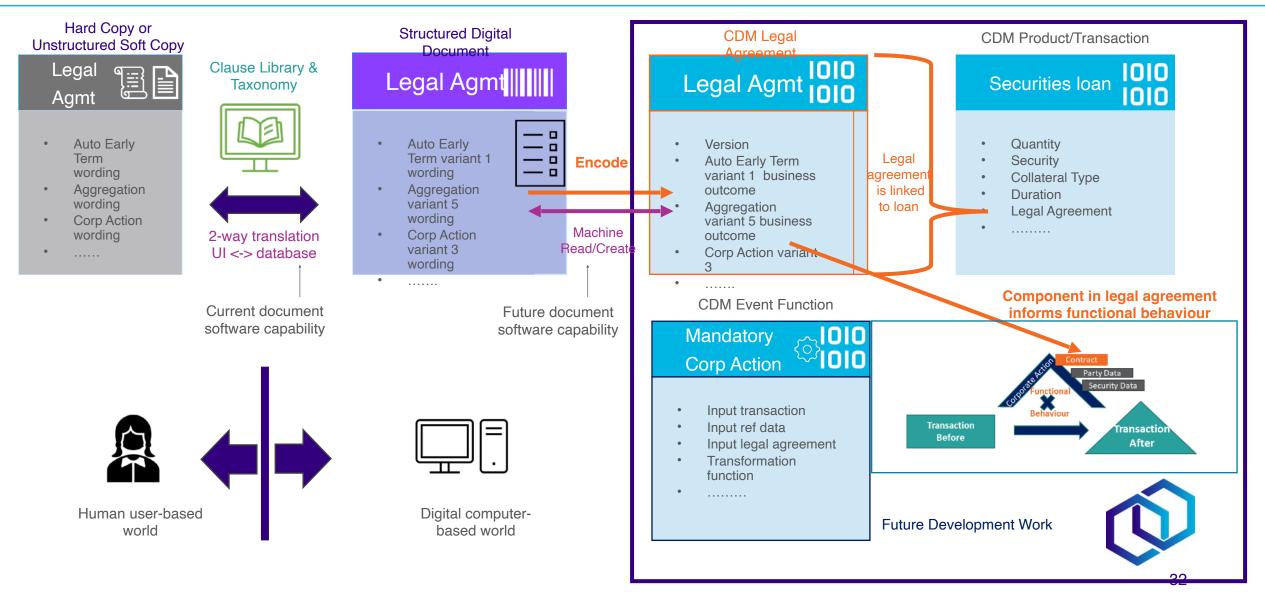
#### **DRR Roadmap**

North America reporting – green text EMEA reporting – orange text APAC reporting – blue text



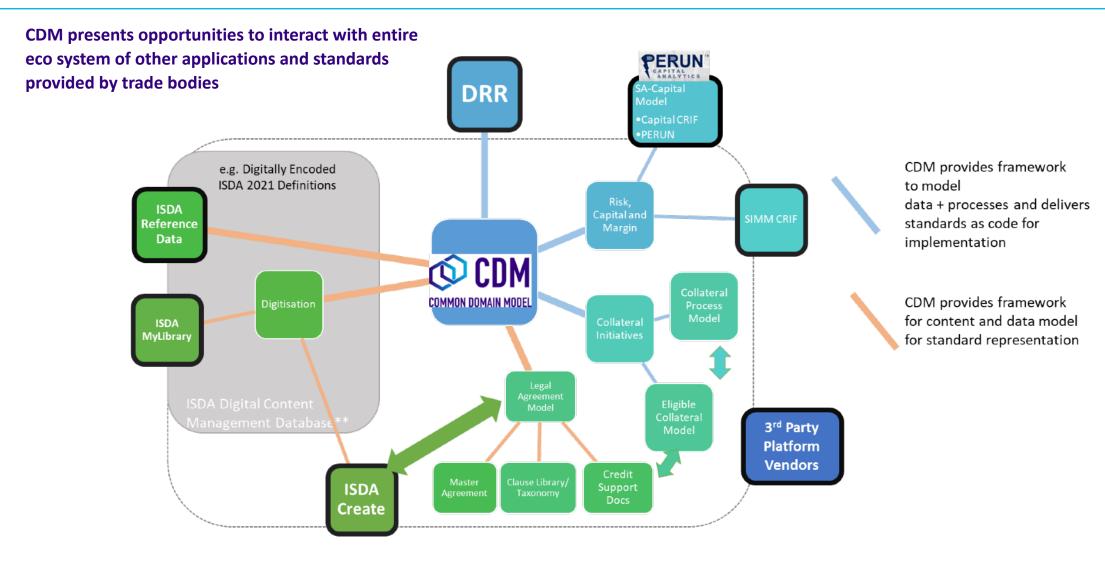
# Integrating CDM and Legal Agreements





# Further Use Cases: Ecosystem

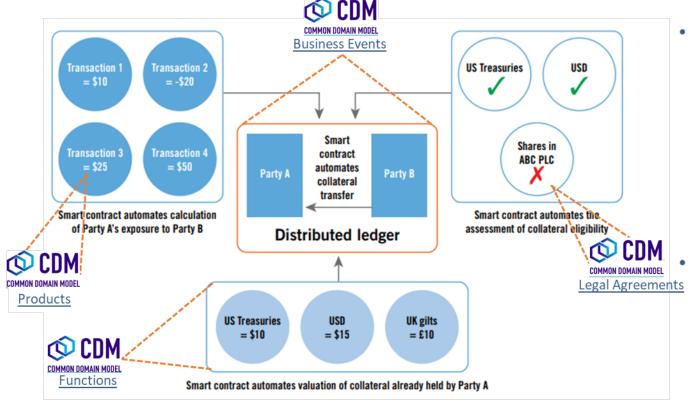




# Further Use Cases: Smart contract technology support



<u>Use case:</u> Aid the consistent and robust implementation of smart derivatives contracts applications and related upcoming technologies



- Many collateral processes such as:
  - The valuation of exposure and margin requirements;
  - Assessing collateral eligibility;
  - Exchange and return of collateral assets,
  - use conditional logic and could benefit from increased automation.

This example provides an illustration of a potential smart derivatives contract construct that is designed to automate certain aspects of the collateral management process.

## Further Use Cases



Integration with CRIF standard for FRTB, SIMM, and SA-CVA reporting

Transcribe legally prescribed functional clauses from ISDA Def into machine readable and human readable codified functions

Facilitate more efficient re-use of data e.g. data template for large volume of increases of an Equity portfolio swap

Set a standard for the efficient digitalisation of collateral related margin process

Assert and mutualise the standardised encoding and capacity for implementation of legal clauses supporting the life cycle events of derivative transactions.

Express the CCP clearing handbook book that regulates the registration and clearing of a transaction into a machine readable and executable code that can be automatically generated.

Support more consistent implementation of market infrastructures processes such as clearing in tally with upcoming new innovative technologies (DLT, Cloud, Smart Contract, etc)

Match and store consistent trade representations that feed in "real time" FO trading systems using DLT and detect inconsistencies if any.

Aid the standardized representation of SSIs

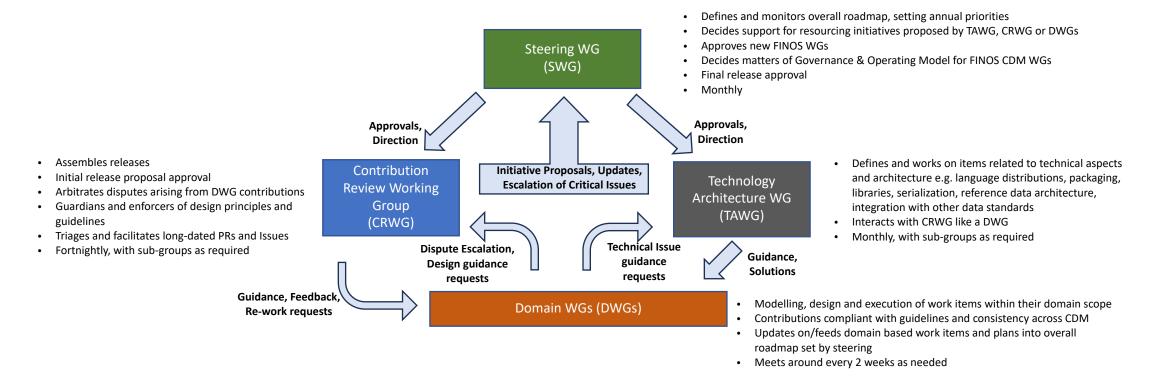


**Get Involved** 



# How to get involved- Community Structure





#### List of DWGs & their Scope as at Oct 23:

- Collateral Collateral schedules & processes
- Repo & Bonds- Repo & bond products
- Securities Lending- Securities Lending
- Derivatives Products and Business Events (DBPE)- Derivatives products of a non-structured/exotic nature
- Structured Products- Structured & Exotic Derivatives
- DRR Peer Review- Digital Regulatory Reporting (Derivatives regimes)
- ISDA Legal Agreements- ISDA Legal Agreement modelling

FINOS groups

ISDA WGs

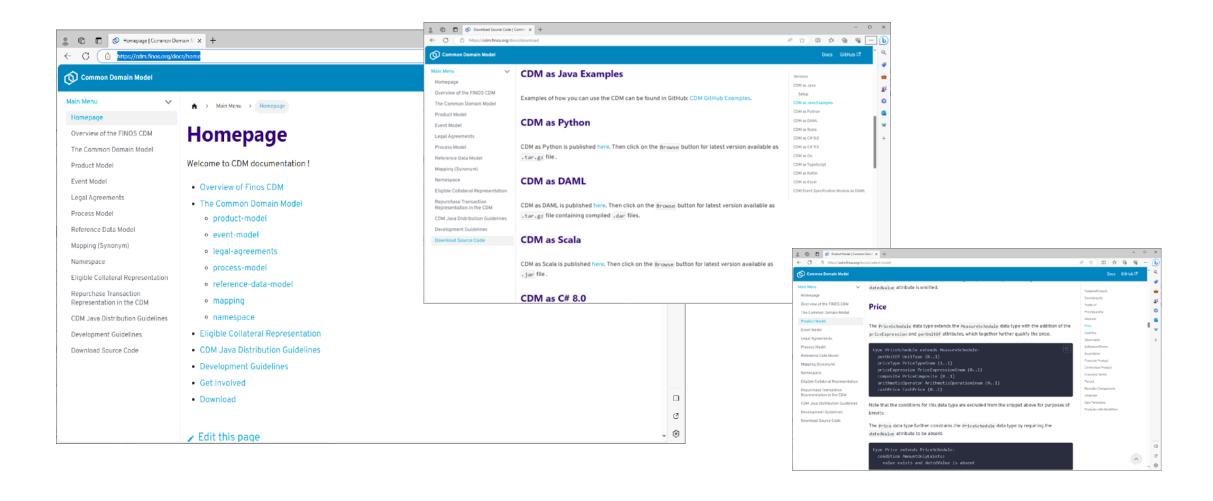
ISLA WGs

**ICMA WGs** 

# How to get involved



Info hub for FINOS including user documentation downloadable distributions: Homepage | Common Domain Model (finos.org)





The Common Domain Model is brought to you by:







