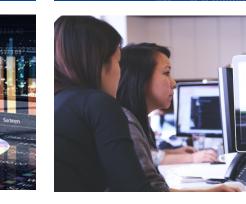
EDM Webinar 오







AI, Data & Analytics Controls (ADAC):







A conversation with



Oli Bage Head of Architecture, Data & Analytics, LSEG



Lead Data & Al Strategist, Databricks









Today's panel





Jim Halcomb Head of Product Management EDM Council Oli Bage Head of Architecture, Data & Analytics, LSEG







Lexy Kassan

Lead Data & AI Strategist,

Databricks

Oli Bage Head of Architecture, Data & Analytics, LSEG

As Head of Architecture for London Stock Exchange Group's Data & Analytics business, Oli partners with customers, vendors and teams across sales, product, engineering, and operations to design the industry's next generation data, analytics and workflow platforms.

Oli founded the Cloud Data Management Capabilities (CDMC) initiative, an EDM Council initiative of 160 banks, cloud providers and emerging technology companies, which has released a framework of capabilities, best practices, and automated controls for handling sensitive datasets on cloud. In 2024 the group has developed additional capabilities for AI governance (ADAC) and data products. Oli also contributes to the OMG DPROD standard and FinOS CCC and Architectureas-code projects.

Before joining LSEG in 2020, Oli worked for Morgan Stanley for 21 years. He was most recently the Distinguished Engineer in Morgan Stanley's Centre of Excellence for Data and chaired the investment bank's architecture committee.

Oli is a passionate supporter of the emerging technology ecosystem and regularly hosts the London Enterprise Technology Meetup in LSEG's offices. Oli is an angel investor in emerging data technology companies and holds a degree in Computer Science from the University of Cambridge.



Lead Data & AI Strategist, Ethicist

Lexy Kassan is a Lead Data and AI Strategist at Databricks, overseeing and guiding customer organizations through holistic transformation programmes built on industry trends and best practices. As an Ethicist, Lexy coaches companies on implementing responsible AI and works with public affairs to shape Databricks' messaging to regulators and lobbyists.

Outside of work, Lexy mentors for multiple initiatives supporting underrepresented groups in STEM. She is also the Founder and Host of the Data Science Ethics Podcast in which she delves into the responsibilities and societal ramifications of applying AI across both private and public sectors.



CDMC: Industry Engagement

100+ Leading firms and 300+ participants actively participating since **May 2020**



CDMC Working Group LSEG Morgan Stanley CAPCO J.P.Morgan Standard Standard Chartered **WBS** KPMG ioldma Sachs citi НЗВС PavPal WELLS FARGO **Freddie** Mac NORTHERN BARCLAYS **Deutsche Bank** LLOYDS BANK **Bank** Tradeweb Credit Suisse **BNP PARIBAS** Nasdag SOCIETE GENERALE



Regulatory Engagement

EDMCouncil

- US: Federal Reserve, CFTC, FDIC, SEC
- Canada: OSFI
- UK: BoE, FCA, ICO
- Germany: BaFin
- Swiss: FinMA
- Australia: APRA
- Singapore: MAS
- African Continental Cloud Regulatory Symposium
- Others

CDMC Framework v1 Published September 2021

EDMC Support



- Training Courses
- Assessments & Certification
- Authorized Partner Program
- FINOS Open Source Project
- Other industries engaged: Pharma/Life Sciences, Telecommunications, Manufacturing, Energy, Insurance, Government

CDMC+ Extensions

EDMCouncil Current Working Groups:

- ADAC AI & Analytics
- Data Marketplace
- Data Sharing
- Master Data Management
- Federated Data Governance
- Data Mesh

Cloud Data Management Capabilities (CDMC) 14 Key Controls and Automations

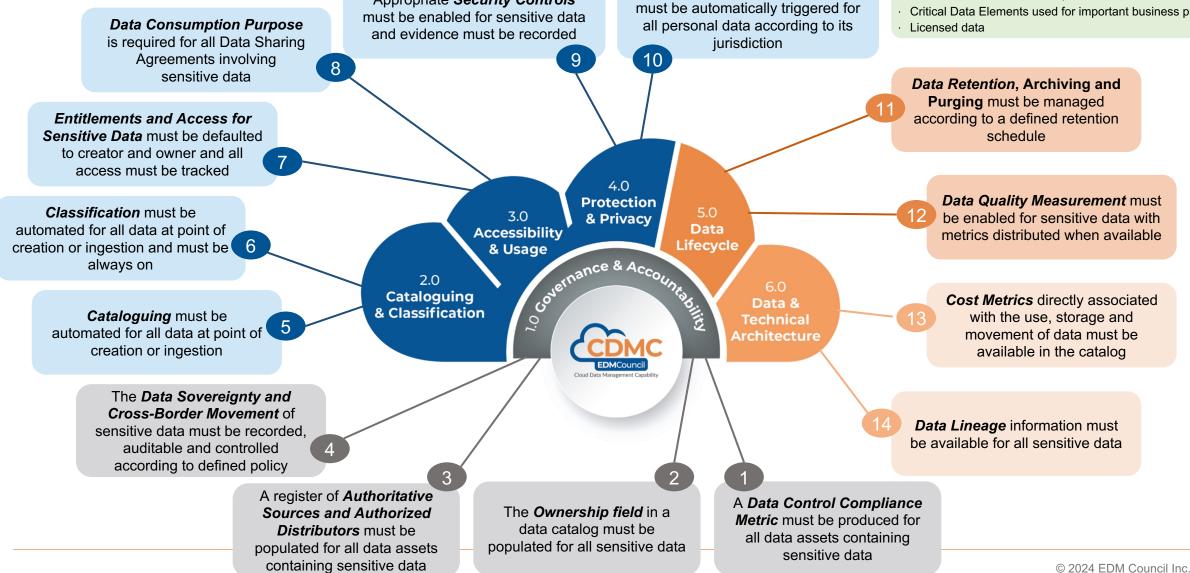
Appropriate Security Controls

Sensitive Data includes classifications such as:

- Personal Information (PI) / Sensitive Personal Data
- Personally Identifiable Information (PII)
- Client Identifiable Information
- Material Non-Public Information (MNPI)
- Specific Information Sensitivity Classifications (such as 'Highly Restricted' and 'Confidential')

6

Critical Data Elements used for important business processes



Data Privacy Impact Assessments

CDMC Components, Capabilities & Sub-Capabilities



Component		Capability	Sub-Capability
1. Governance & Accountability	Thursd	1.1 The Cloud Data Management business case is defined and measurable	1.1.1 Cloud data management business cases are defined1.1.2 Cloud data management business cases are governed and syndicated
	Î	1.2 Data ownership established for both migrated & cloud-generated data	1.2.1 Data Owner roles and responsibilities are defined and agreed1.2.2 Data ownership is established in the Cloud
	F	1.3 Data sourcing and consumption are governed and supported by automation	1.3.1 Data sourcing is managed and authorized1.3.2 Data consumption is governed and supported by automation
	M N N N	1.4 Data Sovereignty and Cross-Border Data Movement are actively managed	1.4.1 Sovereignty of data is tracked1.4.2 Data Sovereignty and Cross-Border Data movement risks are mitigated
2. Data Cataloguing & Classification		 2.1 Data catalogues are implemented, used and interoperable 2.2 Data classifications are defined and used 	 2.1.1 Data cataloguing is defined, scoped and actively used 2.1.2 Metadata is discoverable, enriched, managed and exposed in Data Catalogues 2.1.3 Data catalogues are interoperable across multi and hybrid cloud environments 2.2.1 Data classifications are defined and approved 2.2.2 Data classifications are applied and actively used
3. Accessibility & Usage	R	3.1 Data entitlements are managed, enforced and tracked	3.1.1 Data entitlement rights and obligations are captured as metadata3.1.2 Data entitlement rights are enforced3.1.3 Automated access and entitlement tracking is established
	$\langle ? \rangle$	3.2 Ethical access, use, and outcomes of data are managed	3.2.1 Data Ethics organization structures are established3.2.2 Data Ethics processes are operational
4. Protection & Privacy		4.1 Data is secured, and controls are evidenced	 4.1.1 Encryption policies are defined and enforced for data at rest, in motion, and in use 4.1.2 Implementation of data security controls is evidenced 4.1.3 Data obfuscation techniques are defined, scoped and applied 4.1.4 A Data Loss Prevention program is in place
		4.2 A data privacy framework is defined and operational	4.2.1 A data privacy framework is defined and agreed4.2.2 The data privacy framework is operational
5. Data Lifecycle		5.1 The data lifecycle is planned and managed	5.1.1 A data lifecycle management framework is defined and adopted5.1.2 The data lifecycle is implemented and managed
		5.2 Data quality is managed	 5.2.1 Data Quality rules management is established 5.2.2 Data Quality measurement is established and operational 5.2.3 Data Quality metrics reporting is established and operational 5.2.4 Data Quality issue management is established and operational
6. Data & Technical Architecture) (\$	6.1 Technical design principles are established and applied	 6.1.1 Optimization of cloud use and cost efficiency is facilitated 6.1.2 Principles for data availability and resilience are established and applied 6.1.3 Backups and point-in-time recovery are supported 6.1.4 Portability and exit planning are supported
	ØF	6.2 Data provenance and lineage are understood	6.2.1 Multi-environment lineage discovery is automated6.2.2 Data lineage changes are tracked and managed6.2.3 Data lineage reporting and visualization are implemented

Poll #1

Who (what role) is primarily managing risks within your AI and Analytics platforms?

- Security
- Privacy
- Technology
- Compliance
- Risk
- Governance
- Other





CDMC v1 Published 2021 AWS, Azure, GCP, Snowflake Certified 2021-2023

Technical chitectu

2022-2023

Analytics Working Group

Q4'22 - Q4'23: Extend CDMC for AI, Data & Analytics

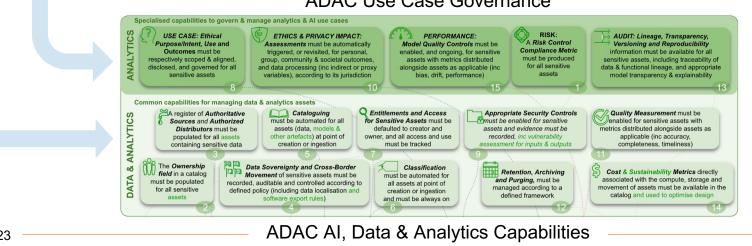
Members: LSEG, Databricks, Standard Chartered, UBS, JPMorgan, Standard Bank, Schroders, Vanguard, Cloudera, Acquis Cortico-X

- Add Al models & Analytical assets to CDMC
- Add NIST AI Risk Management Framework \checkmark
- Add Data Ethics in Practice Framework

AI, Data & Analytics Controls (ADAC)

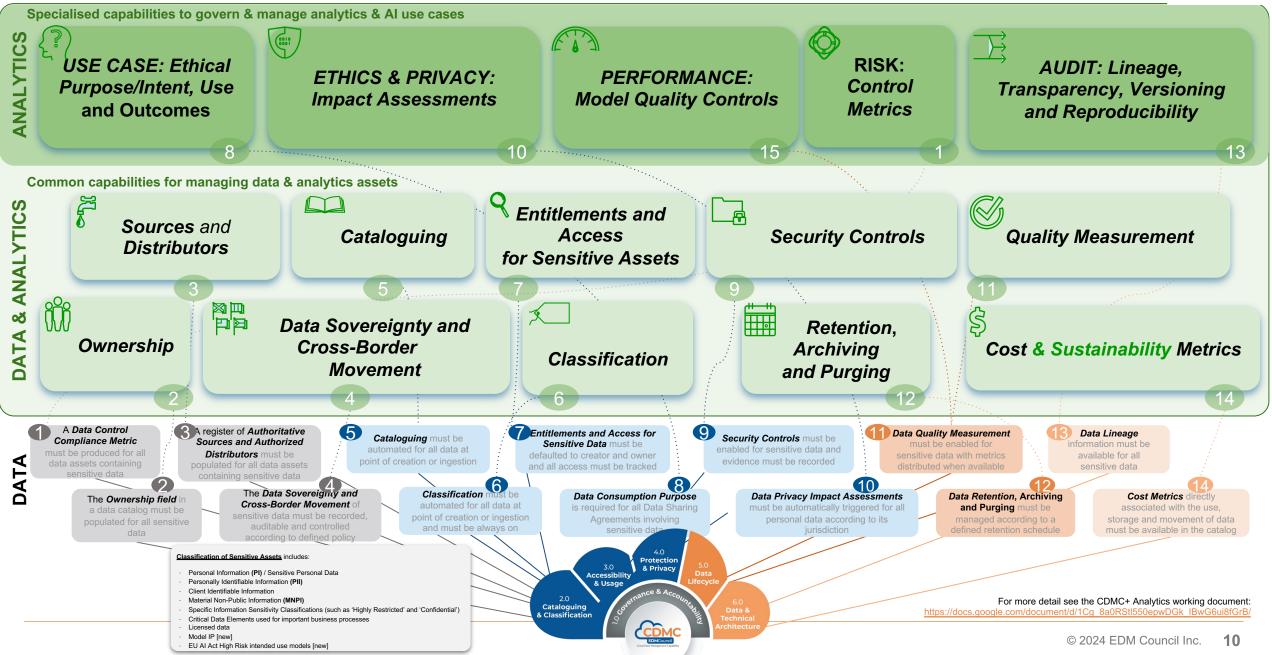
2024

- ADAC framework broad SME review
- ADAC Information Model & metadata inter-op
- ADAC Data Product extensions
- ADAC Regulatory mapping additions
- **Reference** Architecture

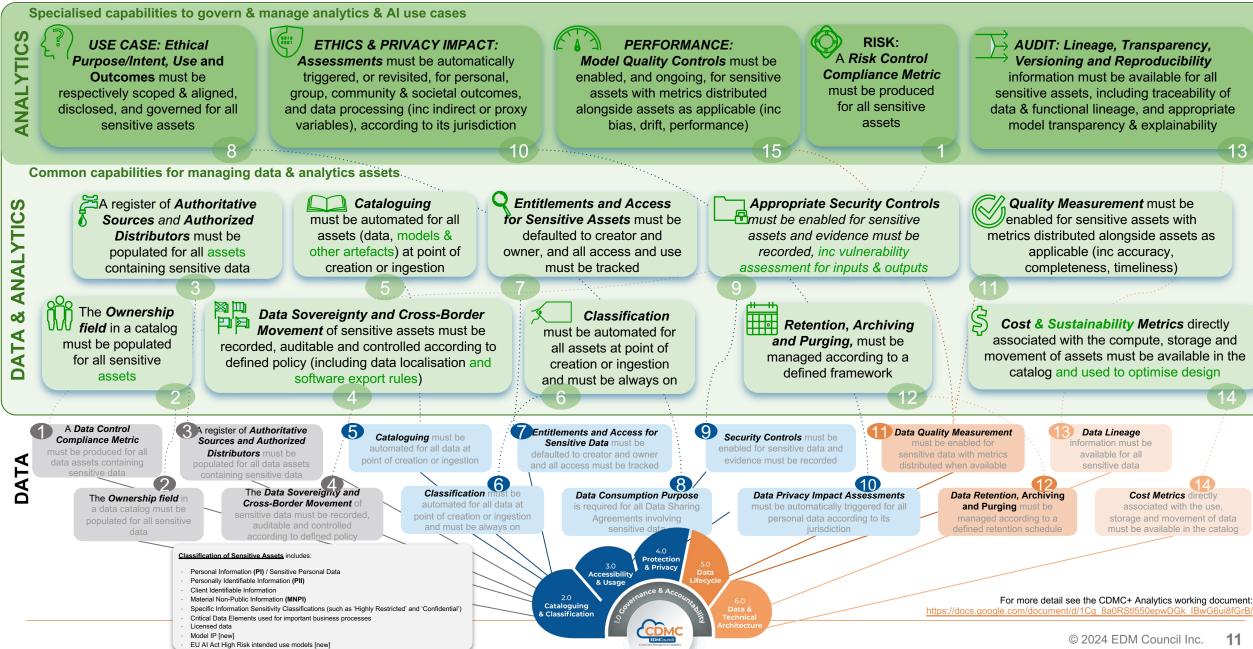


ADAC Use Case Governance









CDMC AI, Data & Analytics working group - 2024 plans

New Activity

ADAC framework reviews

- Industry stakeholder reviews
- Is this covering the right areas and heading in the right direction?
- Does your organisation want to participate in a deep dive on writing the best practice in one or more of the 15 focus areas?
- Any other comments or opportunities?

ADAC Spec

- For each of the 15 areas:
 a single page spec for the control, and automation and information model definitions.
- Built on CDMC v1.1.1

Continuing Activity

Regulatory Mapping

- Complete the "How does ADAC help NIST AI RMF?" reg mapping explainer sheet
- Show other reg mappings (eg EU Al act)

Technical implementations

- Complete mapping of ADAC to popular analytics platform controls

Data Products

 Analytics extensions for the DPROD standard and CDMC+ Data PRoduct spec - continue to work with those sibling groups

GET INVOLVED

- Join our ADAC weekly working group meetings
- Mondays 1500-1600GMT
- Sign up link:

https://forms.gle/xpkMaa4ondxNdHxb9

Future Plans

- Stakeholder interest map
- **Reference Architecture**
- Analytics storytelling (Q2)
- +Additional topics from new members.





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Questions?

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RUSSELL An LSEG Business



LONDON STOCK EXCHANGE

An LSEG Business

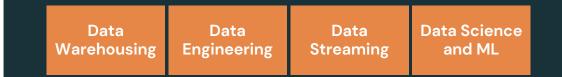
LSEG RISK INTELLIGENCE



LSEG POST TRADE



databricks Data Intelligence Platform



Unity Catalog Fine-grained governance for data and AI

Delta Lake Data reliability and performance

Cloud Data Lake All structured and unstructured data





Google Cloud

Databricks Data Intelligence Platform

Simple

Unify your data warehousing and AI use cases on a single platform.

Open

Built on open source and open standards.

Secure

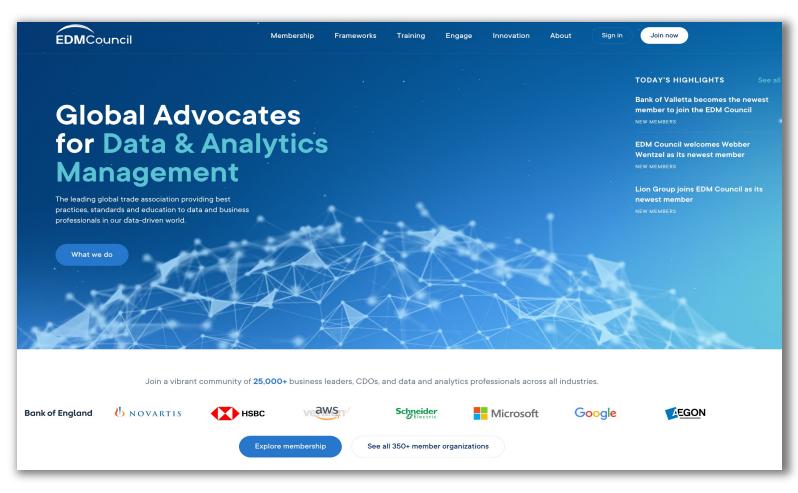
Unified governance and fine-grain controls.

Multi-cloud

One consistent data platform across clouds.

Learn more: https://www.databricks.com/product/data-intelligence-platform

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