

XBRL



Past, present and future

Mark Goodhand
mrg@corefiling.com
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Agenda

- **Brief history of XBRL**
 - The Extensible Business Reporting Language
- **XBRL & SDMX**
 - Differences and similarities
- **Future**
 - Ongoing XBRL evolution
 - Opportunities for collaboration



Global open standard

- 20+ Years
- 210+ Mandates
- 130+ Regulators
- 60+ Countries
- 25M+ Companies

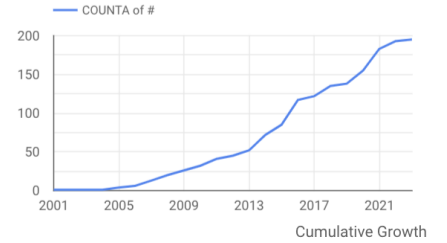
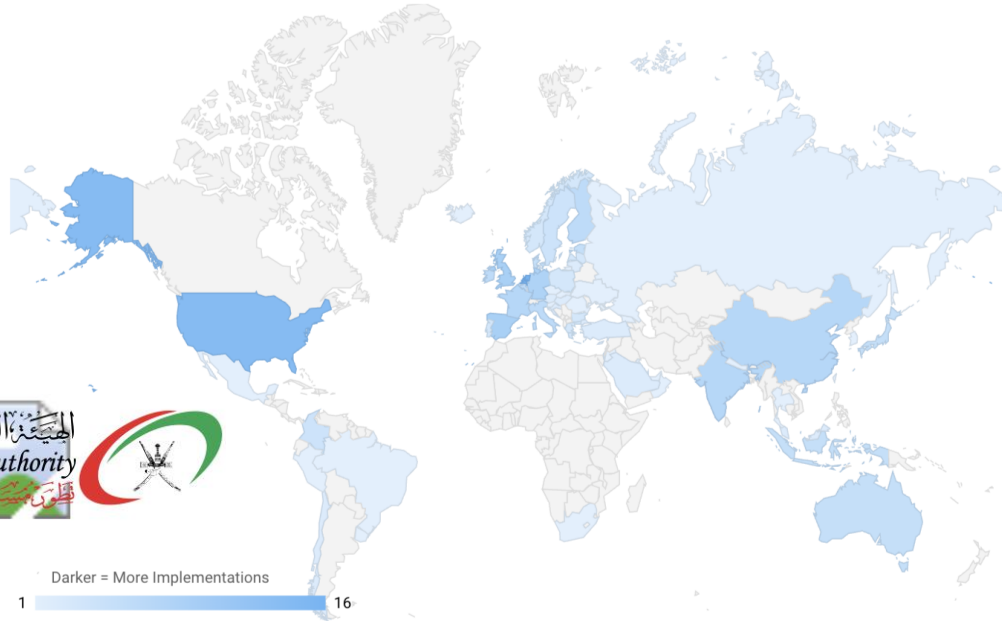


Category ▼

Number of Implementations
214



ABU DHABI GLOBAL MARKET
سوق أبوظبي العالمي



Implementer ▼
U. S. Small Business Administration
Turkish Revenue Administration
Tokyo Stock Exchange
The Superintendency of the Securities Market
The Superintendence of Companies
The Royal Dutch Organization of Accountants
The Qatar Stock Exchange + Qatar Financial Markets Authority
The Mexican Stock Exchange and The National Banking and ...
The Insurance Commission
The Institute for the Supervision of Insurance

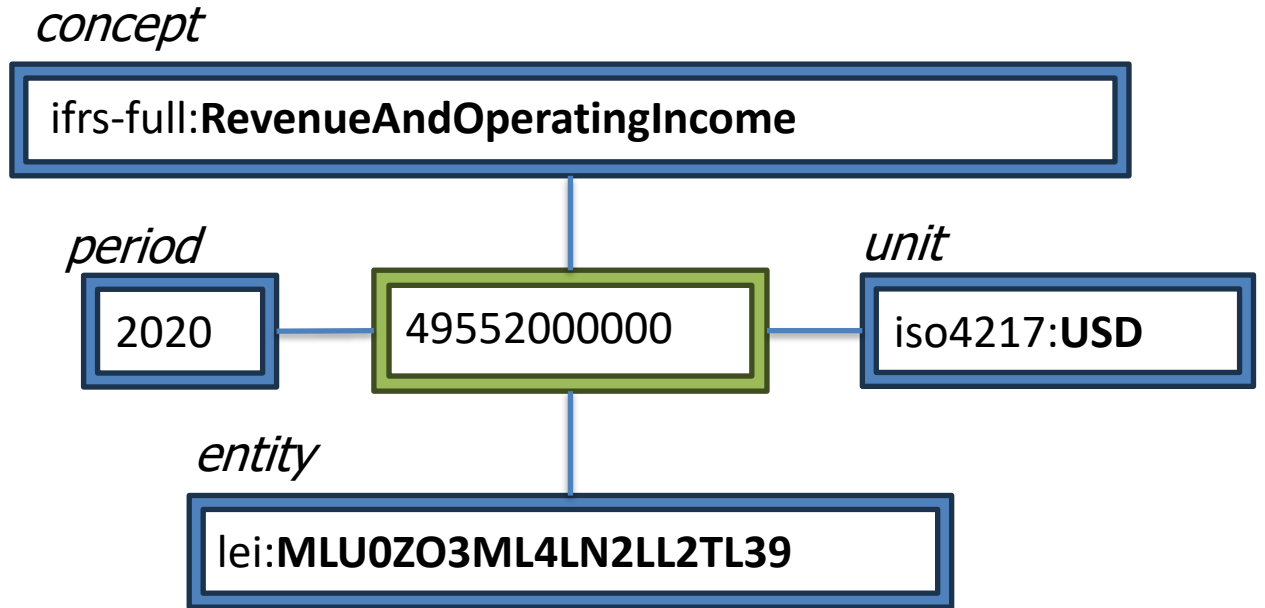
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Qatar Stock Exchange



XBRL Reports

- Dimensional data for
 - Annual financials
 - Tax data
 - Credit risk
 - Water management
 - Sustainability
 - ...
- Each **report** is an unordered collection of **facts** qualified by **dimensions**



Inline XBRL Reports (iXBRL)

- HTML enriched with semantic XBRL tags
- Developed for HMRC (UK) in 2010
 - 2 million filings/year
- Also required for listed companies in US, Japan, and EU
- Data is publicly available

Inline Viewer 21380081EP12LC86CB82-2022-12-31-T01 Highlight ? XBRL Elements

Consolidated balance sheet
at 31 December

	Notes	2022 £m	2021 £m
Assets			
Cash and balances at central banks		94,407	112,478
Items in the course of collection from other banks		353	299
Financial assets mandatorily measured at fair value through profit or loss	7	108	79
Derivatives	9	546	64
Loans and advances to banks		6,357	1,914
Loans and advances to customers		204,143	195,526
Reverse repurchase agreements – non-trading		7,406	7,988
Financial investments	10	16,092	14,377
Prepayments, accrued income and other assets	16	8,762	9,136
Interests in joint ventures	12	9	9
Goodwill and intangible assets	18	4,258	4,193
Total assets		342,441	346,063
Liabilities and equity			
Liabilities			
Deposits by banks		10,721	11,180
Customer accounts		281,095	281,870
Repurchase agreements – non-trading		9,333	10,438
Items in the course of transmission to other banks		308	151
Derivatives	9	304	292
Debt securities in issue	17	1,299	900
Accruals, deferred income and other liabilities	18	3,543	1,674
Current tax liabilities		173	802
Provisions	19	424	495
Deferred tax liabilities	5	666	1,969
Subordinated liabilities	20	12,349	12,487
Total liabilities		320,215	322,258
Equity			
Called up share capital	23	–	–
Share premium account	23	9,015	9,015
Other equity instruments	23	2,196	2,196
Other reserves		6,121	7,657
Retained earnings		4,834	4,877
Total shareholders' equity		22,166	23,745
Non-controlling interests		60	60
Total equity		22,226	23,805
Total liabilities and equity		342,441	346,063

The accompanying notes on pages 87 to 125, and the audited sections in: the 'Financial summary' on pages 10 to 14 and the 'Report of the Directors' on pages 17 to 71 form an integral part of these financial statements.
These financial statements were approved by the Board of Directors on 20 February 2023 and signed on its behalf by:

Fact Properties ⚙

Properties

Date 31 Dec 2022 📅

Fact Value £ 94,407,000,000

Accuracy millions

Scale millions

Change 16.1% decrease on 31 Dec 2021

Entity [LEI] [21380081EP12LC86CB82](#)

Concept ifrs-full:CashAndBank... 🔗

Taxonomy IFRS 2021

< 1 of 2 >

> Anchoring

∨ References

IAS

Name	IAS
Number	1
IssueDate	2021-01-01
Paragraph	55
URI	http://eifrs.ifrs.org/eifrs/xi...
URIDate	2021-03-24

∨ Calculations



XBRL Taxonomies

- Concepts
- Dimensions
- Types

- Labels
- References

- Calculations
- Presentation trees

- Cube definitions
- Dimensional assertions
- Pivot table rendering instructions

The screenshot shows the 'Network Browser' interface with the 'Details' tab selected. The left pane displays a tree view of the taxonomy structure, with 'Assets, Current [Abstract]' selected. The right pane shows the details for this concept, including its properties, labels, and references.

Assets, Current [Abstract]

Properties	
Property	Value
Name	AssetsCurrentAbstract
Namespace	http://fasb.org/us-gaap/2023
Data Type	xbrli:stringItemType
XBRL Type	stringItemType
Substitution Group	xbrli:item
Period Type	duration
Abstract	true
Nilable	true

Labels		
Type	Lang	Label
Standard Label	en-US	Assets, Current [Abstract]

References		
Type	Reference	
Taxonomy Implementation Note	elementCreationTaxonomyVersion	2008

Custom Type Information

This concept does not have a custom type definition

<https://shorturl.at/defU4>

<https://xbrlview.fasb.org/>



XBRL Report, rendered and validated

Beacon
CoreFiling

Home > GEN: D680 > 680-2
mrg@corefiling.com English

Scope of consolidation: Consolidated

Search

0 hit

	Current period				Quarter (Year -1)				
	Commercial	Housing	Other private	Total	Commercial	Housing	Other private	Total	
	1	2	3	4	1	2	3	4	
Credit risk at credit performance rating									
Balance sheet credit risk	1	-£1,000,000.00	£1,000,000.00	-£1,000,000.00	-£1,000,000.00	£1.00	-£1.00	-£1,000,000.00	
Off- balance sheet credit risk	2	-£1.00	-£1.00	£1.00	-£1.00	£999,998.00	£1,000,000.00	-£999,999.00	£1,000,000.00
Total credit risk at credit performance rating	3	-£1,000,000.00	£1,000,000.00	-£1,000,000.00	-£1,000,000.00	-£2.00	£1,000,000.00	-£1,000,000.00	-£2.00
Credit risk that is not rated as performing credit									
Non problematic	4	£999,999.00	-£999,999.00	-£1,000,000.00	-£1,000,000.00	£999,997.00	£1,000,000.00	£999,997.00	
Problematic performing	5	-£1,000,000.00	-£1.00	£999,999.00	-£2.00	-£1,000,000.00	£1,000,000.00	£1,000,000.00	£1,000,000.00
Problematic nonperforming	6	£1,000,000.00	£1,000,000.00	-£1,000,000.00	£1,000,000.00	-£999,999.00	-£1,000,000.00	-£1,000,000.00	
Total balance sheet credit risk	7	£1,000,000.00	£0.00	-£1,000,000.00	-£1.00	-£1,000,000.00	£999,998.00	£1,000,000.00	£999,997.00
Off- balance sheet credit risk	8	£0.00	-£1,000,000.00	£1,000,000.00	-£1.00	£1,000,000.00	-£1,000,000.00	-£1,000,000.00	-£1,000,000.00
Total credit risk not at credit performance rating	9	£1,000,000.00	-£999,999.00	£1.00	£1.00	£1.00	-£2.00	£1.00	£1.00
Of which:Performing debts in arrears of 90 days or more	10	£1,000,000.00	-£999,999.00	-£1,000,000.00	-£1,000,000.00	£1.00	-£2.00	-£1,000,000.00	-£1,000,000.00
Overall credit risk to the public	11	£0.00	£1.00	-£1,000,000.00	-£999,998.00	£0.00	£999,999.00	-£999,999.00	£1.00
Non performing assets									
Nonperforming debts	12	-£999,999.00	£0.00	£0.00	-£1,000,000.00	-£1.00	-£1.00	£1.00	-£2.00
Assets received in respect of credit repaid	13	£999,999.00	£1,000,000.00	-£1,000,000.00	£1,000,000.00	-£1,000,000.00	-£999,999.00	£1,000,000.00	-£1,000,000.00
Total public non performing assets	14	£0.00	£1,000,000.00	-£1,000,000.00	£0.00	-£1,000,000.00	-£1,000,000.00	£1,000,000.00	-£1,000,000.00

Off-balance sheet credit risk before risk mitigation

Value: -£1,000,000.00

Dimensions: 6 non-defaulted

- Base concept
- Off-balance sheet liabilities
- Collateral given to other
- Housing
- Counterparty
- Private
- Credit rating
- Credit risk not at credit performance rating
- Main category
- Contingent Liabilities and Special Commitments-Off -balance sheet fi...
- Scope of consolidation
- Consolidated

Entity Identifier: XBRL00COREFILING0014
Scheme: http://standards.iso.org/iso/17442

Period: 2023-03-31

Value: -£1,000,000.00 (Formatted)

Accuracy: exact

Unit: GBP

Validation: Calculations Discussions

xbrl.xiiif.AssertionUnsatisfied

The currency should be only ILS. (only-allowed-currency('ILS') (-1000000))

Causes: 1 location



XBRL's historic strengths & weaknesses

- **Reliability**
 - Comprehensive validation
- **Flexibility**
 - Proven in many countries and domains
- **Extensibility**
 - Mix international, national and company-specific metadata
- **Interoperability**
 - Large range of mature commercial and open source software
 - Conformance suites and certification
- **Verbosity**
 - XML, XML Schema, XLink
- **Complexity**
 - DTS, DRS, Linkbases, arcroleTypes, substitution groups
- **Comparability**
 - Company-specific extensions can be overused



Recent improvements

- Open Information Model (OIM)
 - Syntax-independent dimensional model
 - Drops complex, low-value features
- XBRL-JSON
 - Simplest, clearest expression of the model
- XBRL-CSV
 - Suitable for granular data (“microdata” in SDMX)



SDMX vs XBRL – Common features

Feature	SDMX	XBRL
Data document	Message	Report
Data item	Observation	Fact
Metadata document	DSD + MSD	Taxonomy Package
Metadata subsets	Dataflow + Metadataflow	Entry point
Metric definition	Indicator	Concept
Dimension definition	Dimension	Dimension
Enumeration	Code List	Explicit Domain
Value restrictions	Uncoded (optional format)	Type (XML Schema facets)
Cube definition	Concept scheme, constraints	Hypercubes
Value scaling	Unit multiplier	Scale (iXBRL only)
Dimensional validation rules	VTL	XBRL Formula

SDMX vs XBRL – Differences

- Attributes have no direct counterpart in XBRL
 - Can be modelled using facts/footnotes and links
- XBRL doesn't have a built-in dimension for geographic area
 - Entity dimension might be appropriate
- XBRL doesn't typically model "frequency"
 - Could be a custom (taxonomy-defined) dimension
- SDMX has standardized APIs
- XBRL has an HTML embedding
- XBRL captures precision, supports interval arithmetic
- XBRL metadata & extension mechanisms seem more flexible



Upcoming XBRL features

- OIM taxonomies (non-XML)
- Formula language improvements
- Digital signatures



XBRL Resources

- <https://xbrl.org/>
 - <https://specifications.xbrl.org/>
 - <https://software.xbrl.org/>
 - <https://taxonomies.xbrl.org/>
 - <https://filings.xbrl.org/>



Collaboration opportunities

- SDMX-XBRL converters
- Learning from each other
 - Adding features
 - Improving terminology
 - Sharing best practice
- Eventual convergence?



THANK YOU

Any questions?

