



European Securities and Markets Authority

Data standardisation: reducing compliance burden and ensuring market integrity

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Overview

• **Burden reduction**

- Streamlining and optimising existing reporting flows
- Centralising new flows & building capacity in new technologies

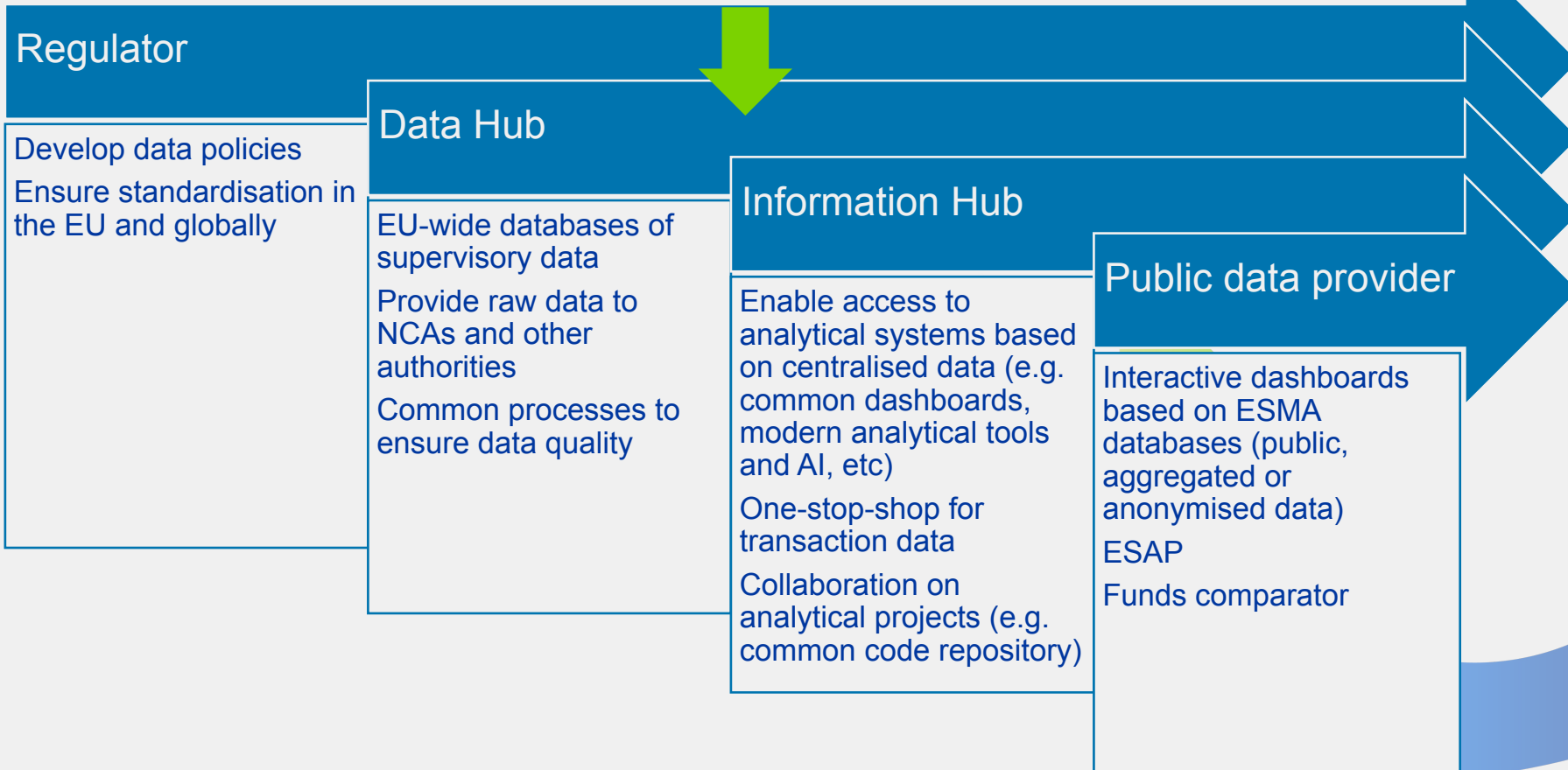
• **Market integrity**

- Data driven supervision & cross-sectoral analysis
 - Monitoring carbon markets
- Encouraging technological adoption & Suptech
 - Use of AI for market abuse supervision

Part 1_the power of data standards for burden reduction

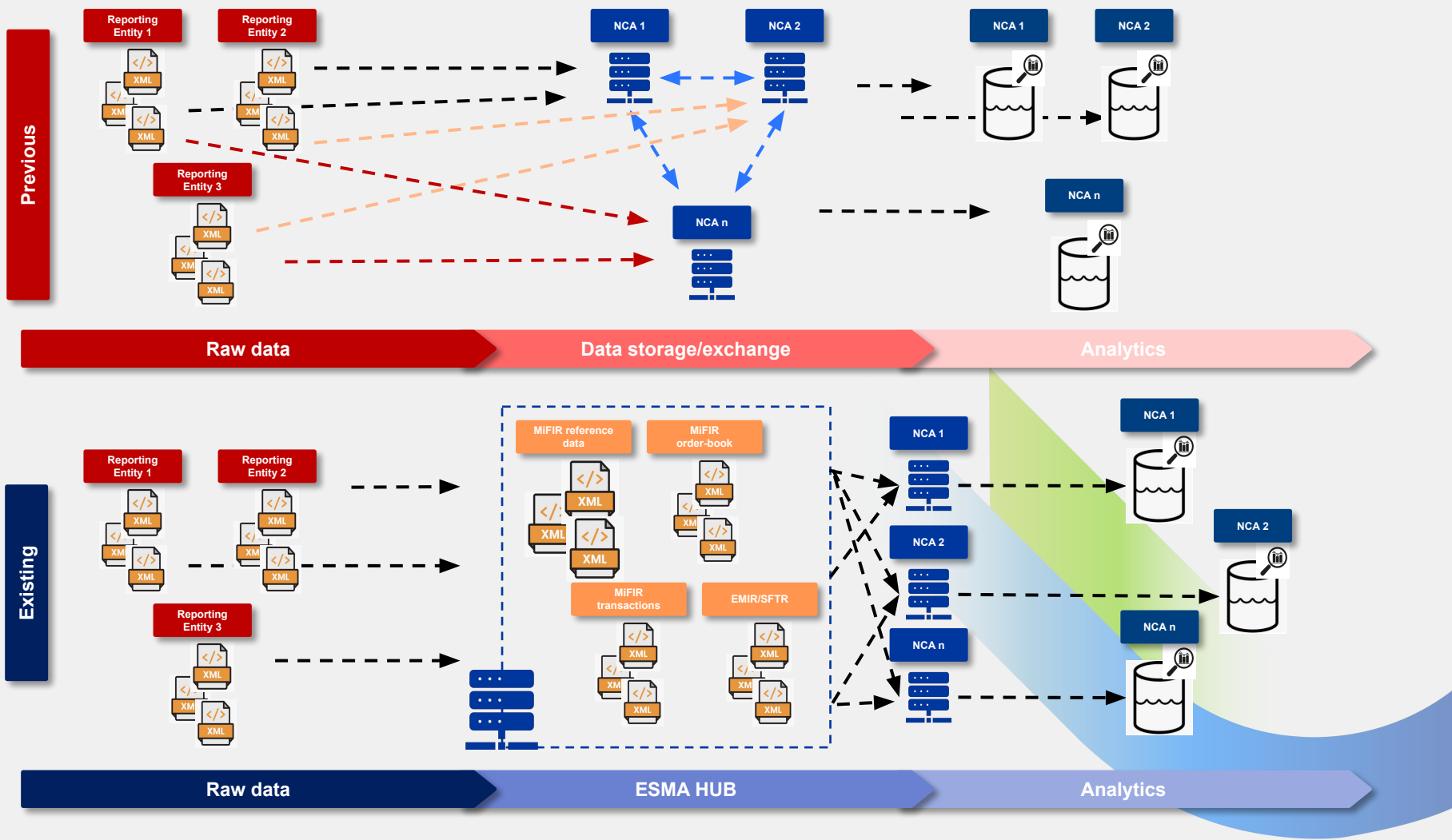
ESMA evolution

We are here today



Streamlining existing data flows

From data policy to data integration

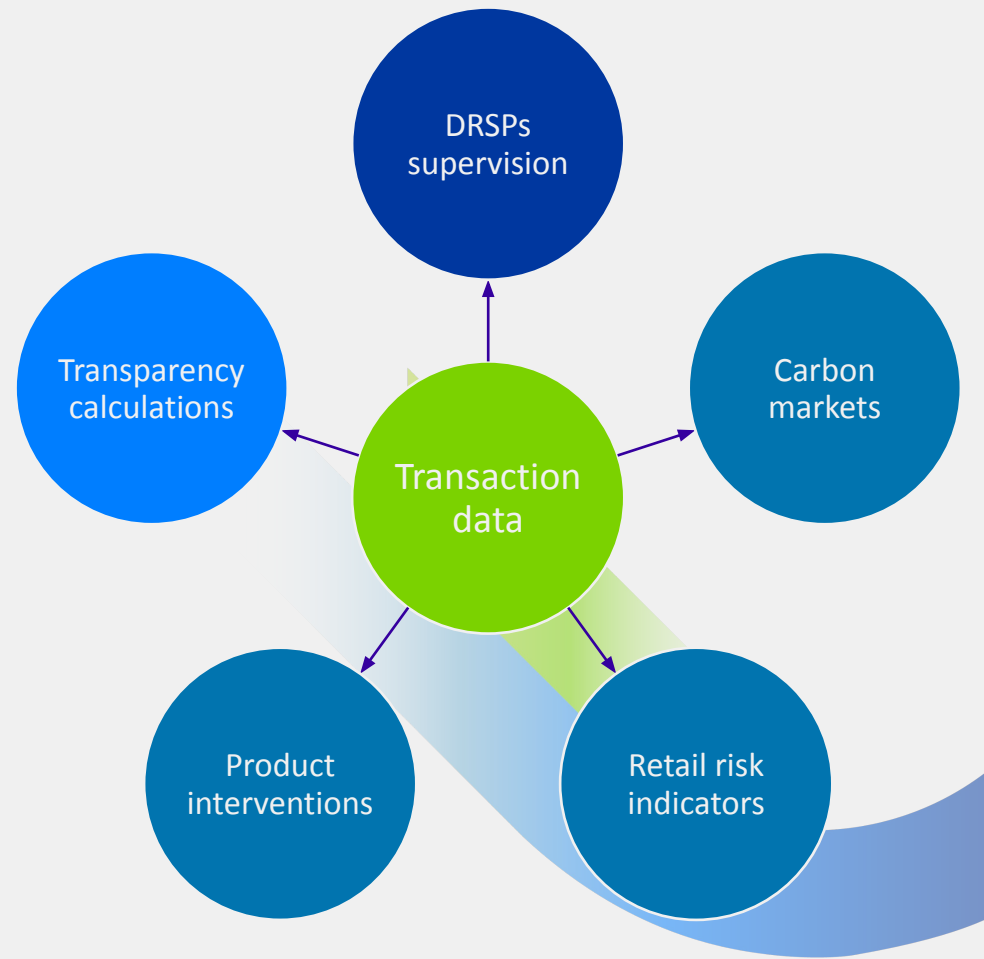


As it evolves as data driven supervisor, ESMA is undertaking further steps to reduce the burden with the use of data standards

- 1) ACTION 1:** gradually reduce reporting flows by reusing centrally collected granular transaction data
- 2) ACTION 2:** further centralise new reporting flows in the absence of existing national systems

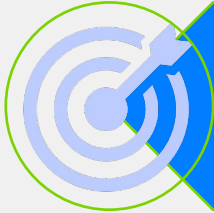
ACTION 1: reduce reporting flows by reusing the most granular datasets

- MiFIR transaction data is granular and rich source of information on financial markets
- The use of this data is increasing
- So far, the access to this data has been limited due to security concerns (inclusion of personal data)
- The implementation of the mechanism to anonymise this data enables its use for new use cases which
 - **Minimises the need for ad-hoc data request by national supervisors**
 - **Minimises reporting flows**



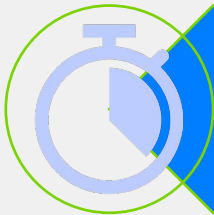
Case study: PoC on MiFIR transparency calculations

Objective, scope, timelines



Objective

- Verify whether it is feasible to use transaction data for the purpose of the transparency and volume cap regime
- Identify challenges and potential changes required in L2



Timeline

- Started in April
- Outcomes to be considered in the ongoing work on L2 (RTS 1, 2, 3 and 22)



Scope

- Reproduce transparency and volume cap indicators
- Focus on equity initially, could be expanded in the next steps if relevant



Expected benefit

- Reduced reporting burden by removing the obligation to report quantitative data to FITRS and DVCAP
- Increased value added of already reported transaction data by reusing it for new purposes

Case study: PoC on MiFIR transparency calculations

Key takeaways

Policy indicator	Matching ratio* 2022	Matching ratio* 2023	Statistical indicator
Liquidity status	97.5%	98.1%	Traded on a regulated market, market capitalisation (ADT, ADNTE)
Tick-size	96.3%	97.2%	Average daily number of transaction on the most relevant market in terms of liquidity (ADNTE on the MRMTL)
SMS, standard market size	95.1%	95.1%	Average value of transaction (AVT)
MRMTL	94.1%	95.5%	Most relevant market in terms of liquidity (MRMTL)
LIS, large in scale threshold	70.1%	70.5%	Average daily turnover (volume) (ADT)

Key take-aways:

- As of today, the data is good enough to obtain high matching ratios on the key policy indicators
- Results are consistent over time (2022 and 2023)
- Identifying pure OTC transactions is a challenge, hence lower matching ratios on the LIS threshold are obtained.
- Lower matching ratios on LIS threshold for some foreign instruments might be caused by under reporting from trading venues.

* Matching ratio - percentage of instruments in the same policy bucket using transaction data and FITRS data

ACTION 2: centralise new dataflows

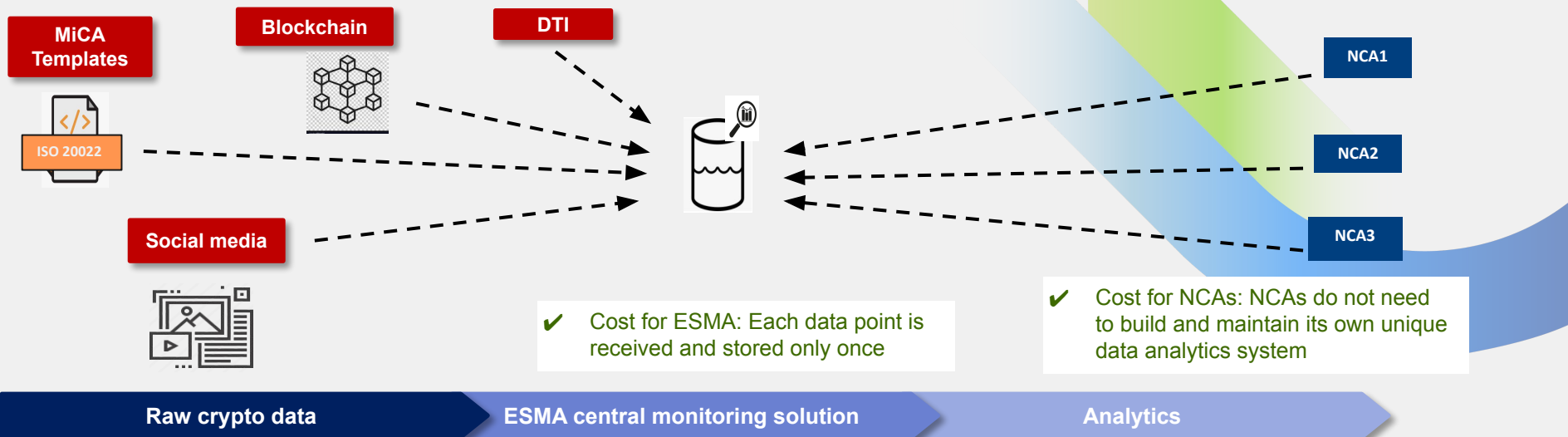
- Where no data collection process exists for a given dataset, establishing a new reporting flow for each NCA is significantly more costly than setting up a single, centralised reporting flow to ESMA.
- Streamlining operations by centralising the data collection function to ESMA could result in substantial savings for both NCAs and market stakeholders as it will result in only one reporting flow.
- The new requirements stemming from ESAP and the Digital Finance Package (**MiCA** and **DORA**) provide the opportunity to achieve better economy of scale and reduce the compliance burden.

Case study: crypto assets monitoring, the next level

One-stop shop for crypto data

Centralizes all data access, eliminate duplicative reporting and remove need for development of individual national data analytics systems.

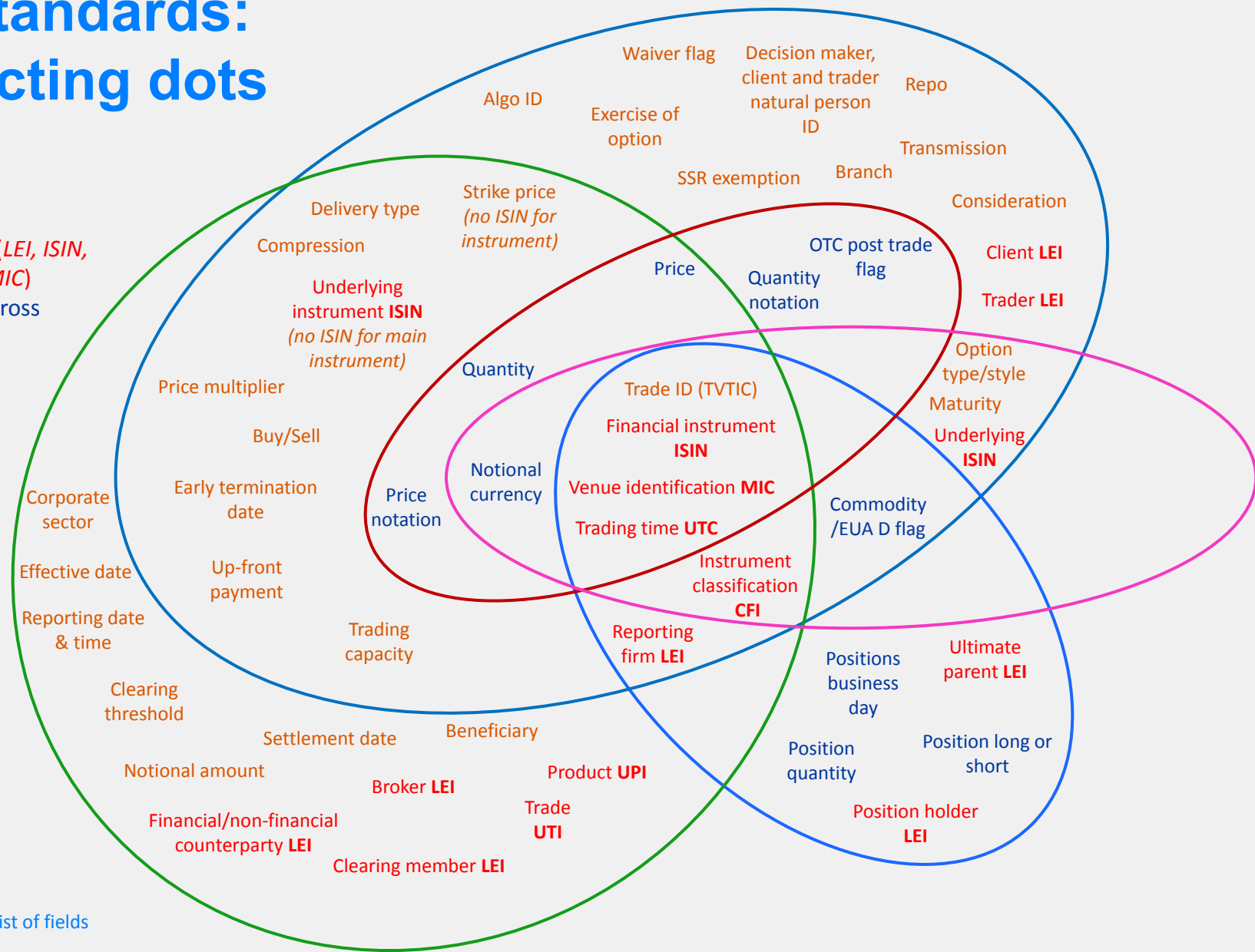
- ✓ Centralise and simplify reporting and data access
- ✓ Leverage and reuse common analytics
- ✓ Create synergies in supervisory activities
- ✓ Offer scalability of use
- ✓ Build capacity in new technologies
- ✓ Support enhanced cooperation among authorities
- ✓ Provide for an efficient use of public resources



Part 2_safeguarding market integrity

ISO standards: connecting dots

Legend:
 ISO 20022
 ISO identifiers (LEI, ISIN, UPI, CFI, UTI, MIC)
 No standard across datasets



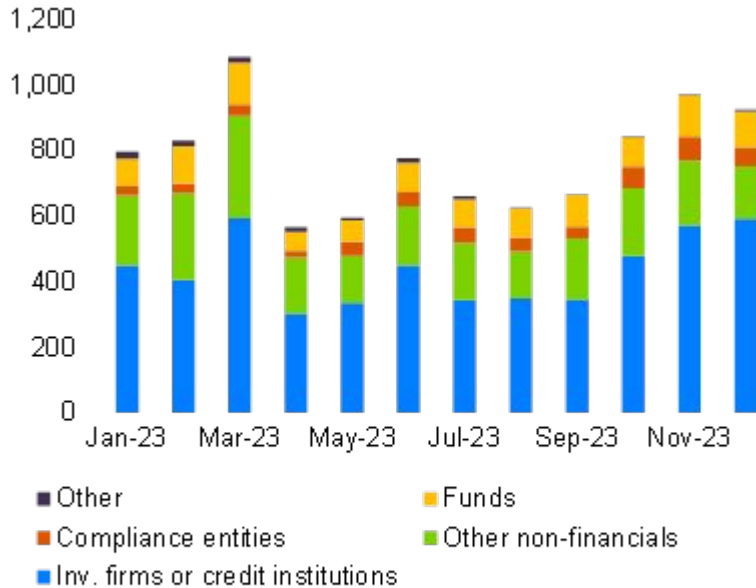
(*) Non exhaustive list of fields

-  MiFIR transaction reporting
-  EMIR Refit reporting
-  MiFIR Post transparency
-  Commodities derivs position reporting
-  MiFIR reference data

Case study 1: use of LEI in carbon markets report

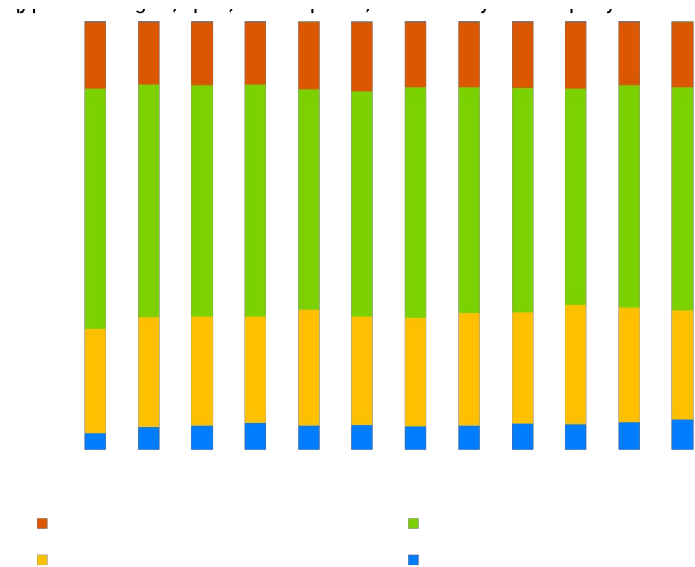
Positions and on-exchange volumes

Volumes by sector



Note: Monthly trading volumes by counterparty country, in million of tonnes of CO2-equivalent emissions
Sources: MiFIR, ESMA.

Share of positions held by sector

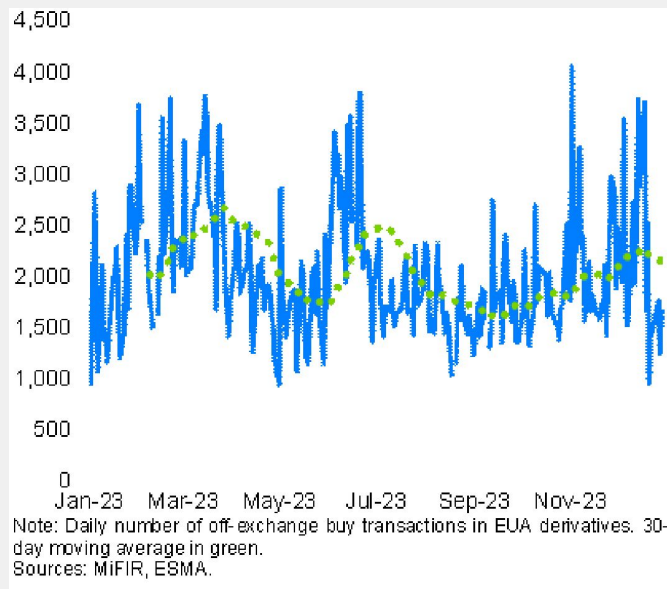


- Entity classification based on LEI enables to cross-analyse positions/transactions
- Investment firms and banks account for 65% of trading volumes
- Investment firms and credit institutions held 56% of derivatives positions
- Funds holding 5-6% of all positions

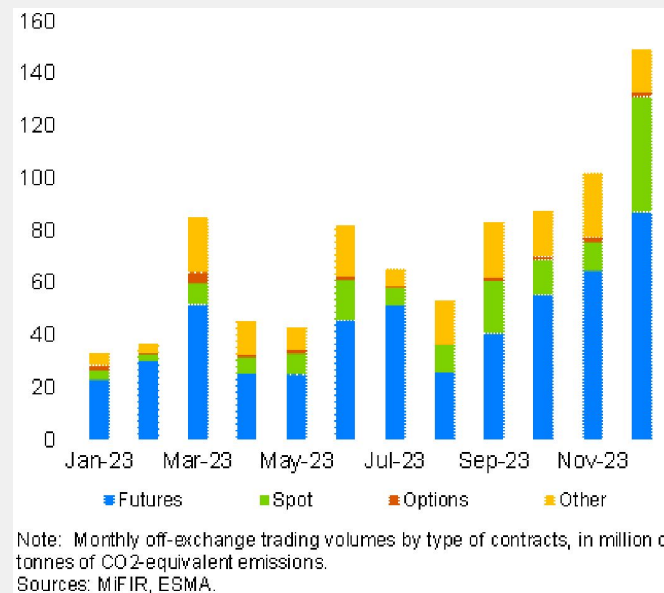
Case study 1: use of ISIN/CFI in carbon markets report

Year-end increase in OTC trading volumes

Daily number of transactions

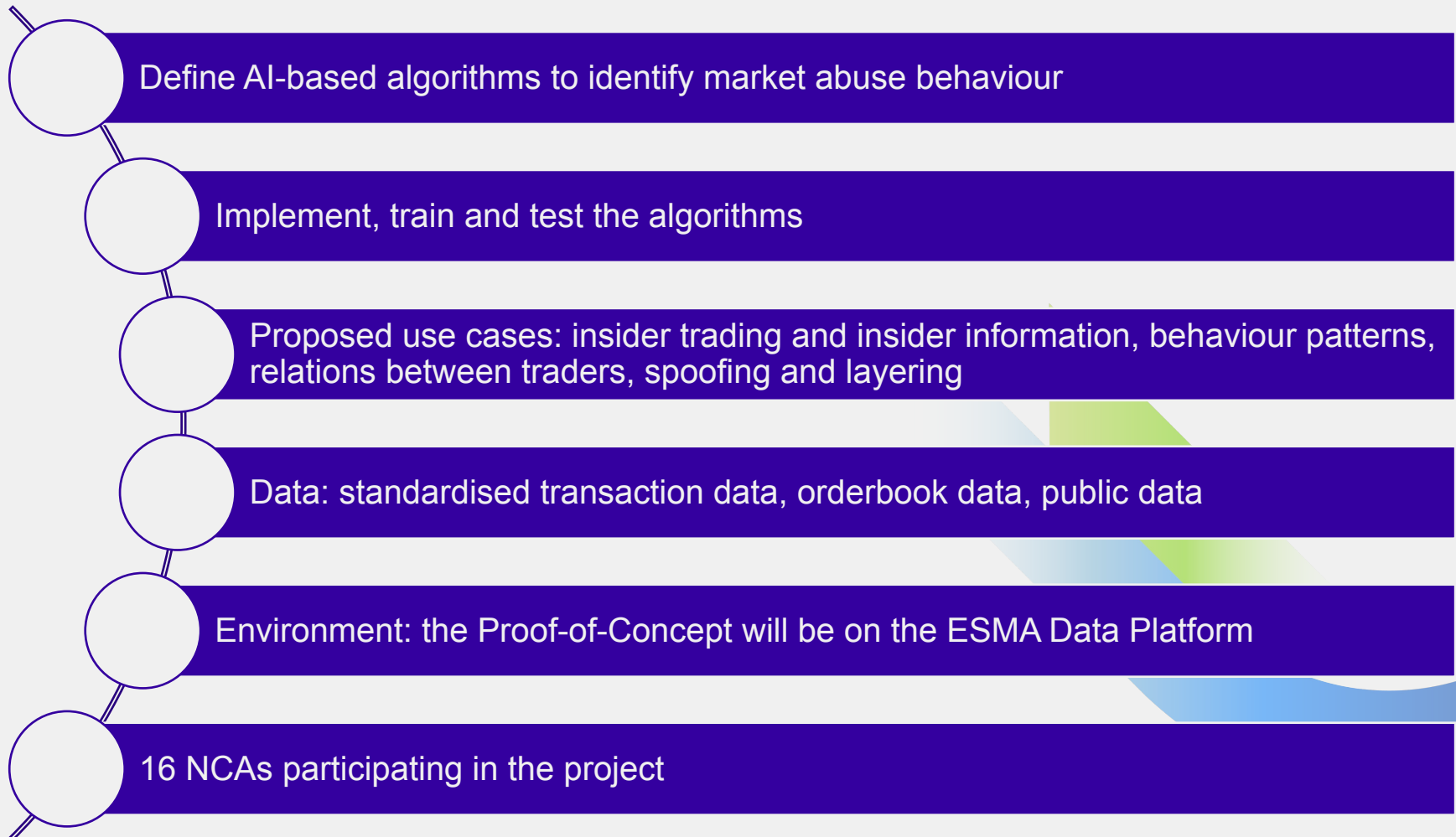


Volumes by type of product



- Total off-exchange volumes of EUR 72.5 bn through 524,000 trades
- Volumes peaked in December, including large increases in spot and options trading
- High correlation (51%) with on-venue trading suggests some interconnection between on and off-exchange markets

Case study 2: PoC on common AI analytics Market Abuse Monitoring





*In God we trust,
all others must bring
“standardised” data*

Inspired by – W. Edwards Deming

