

Implementing Risk Solutions - Trends and Challenges

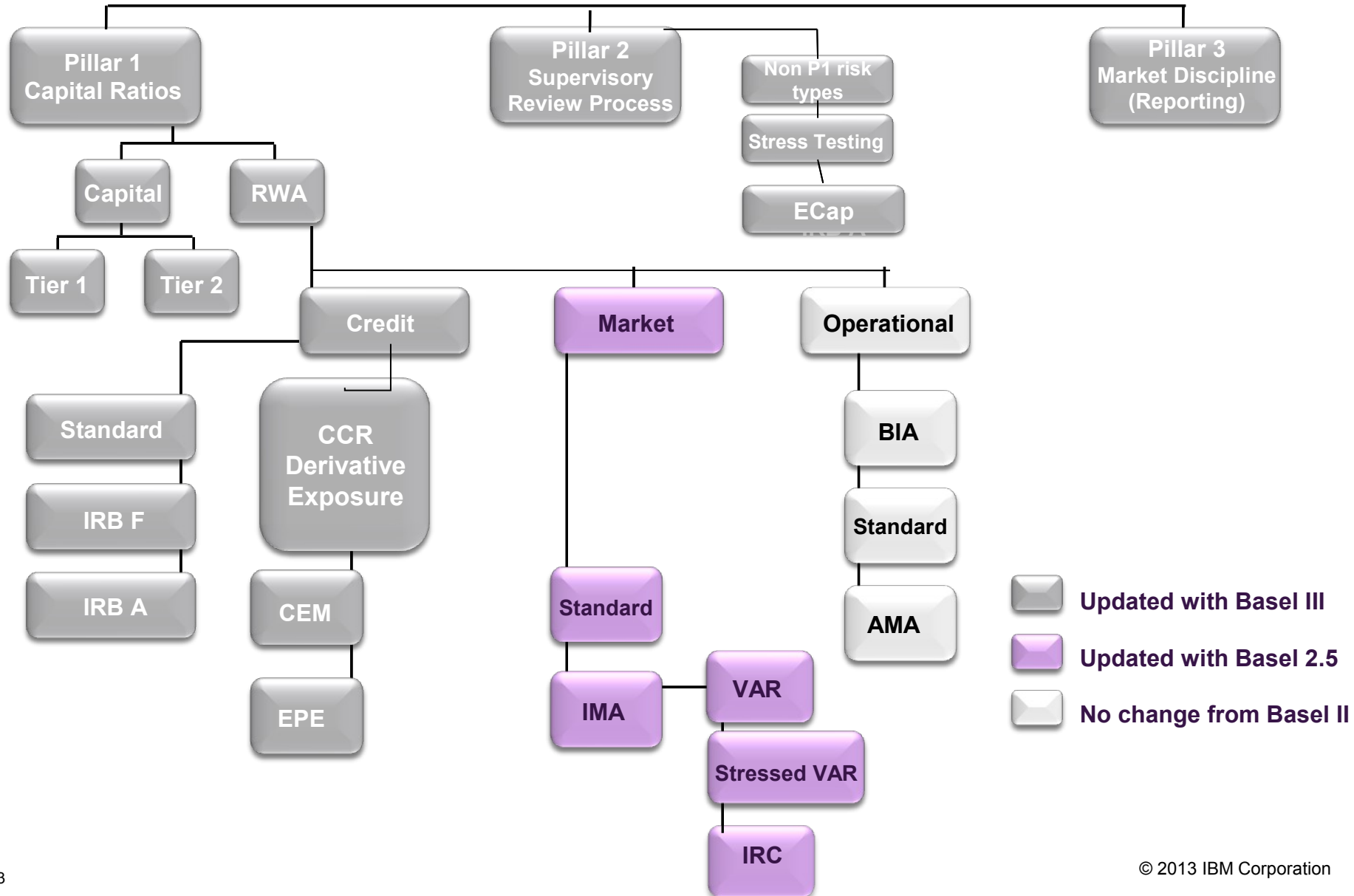
Murat Can Adabağ
Implementation Leader, IBM Risk Analytics
21-03-2013



Agenda

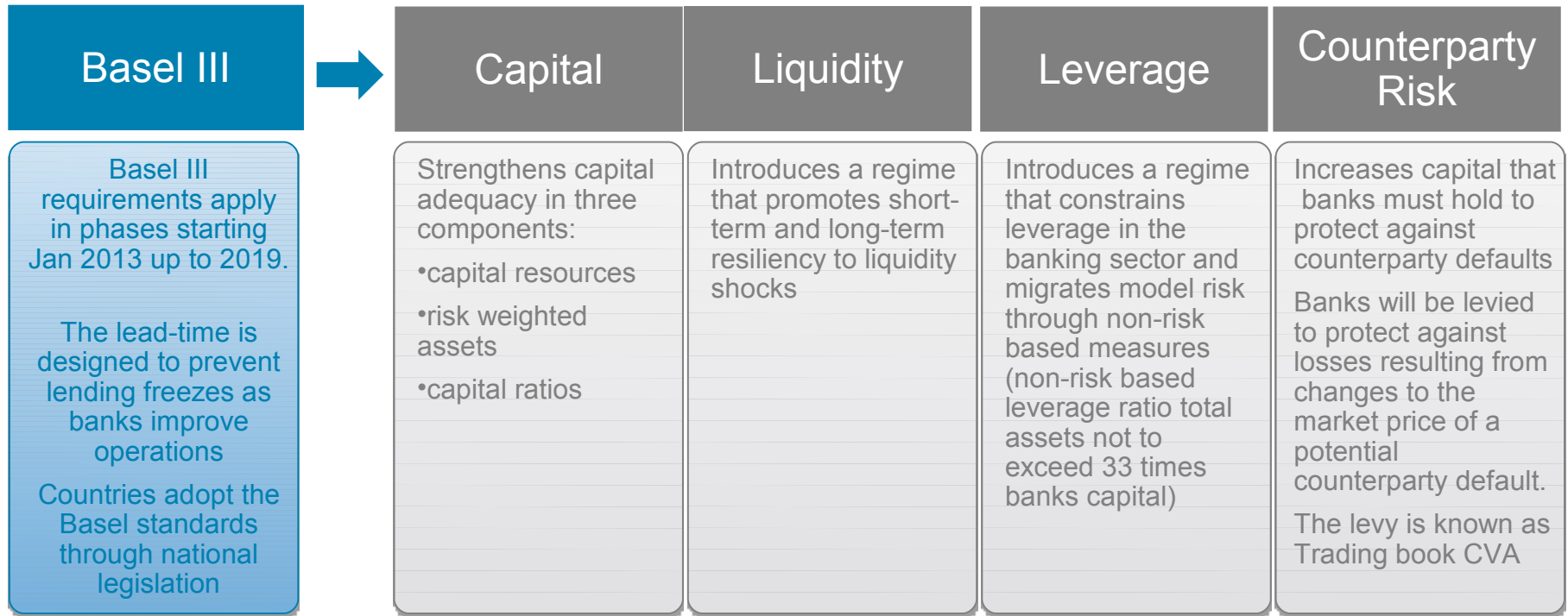
- ❖ Regulation and Risk solutions – Historic view
- ❖ Current Trends with Basel 3
- ❖ Implications: Implementation Challenges
- ❖ IBM Common Architecture and Project Approach
- ❖ Q & A

Regulation and Risk solutions – Historic view



Current Trends with Basel 3

- ❖ Banks need risk systems that can keep pace with emerging regulation like Basel III, and regional acts like Dodd-Frank
- ❖ These regulatory reforms are designed to prevent banks from taking on excessive risk and damaging global financial markets



Implications: Implementation challenges (1/2)

CCR with Basel 3 implementation challenges

- ❖ Need to calculate CVA, Stressed PFEs
- ❖ Need to validate, backtest under IMM
- ❖ Management of increased quantity of collaterals and netting agreements – need to calculate margin calls and revise
- ❖ Integrate Market risk MtM valuations and use for CCR modules, possibly apply different scenarios and time steps than Market risk

Liquidity risk with Basel 3 implementation challenges

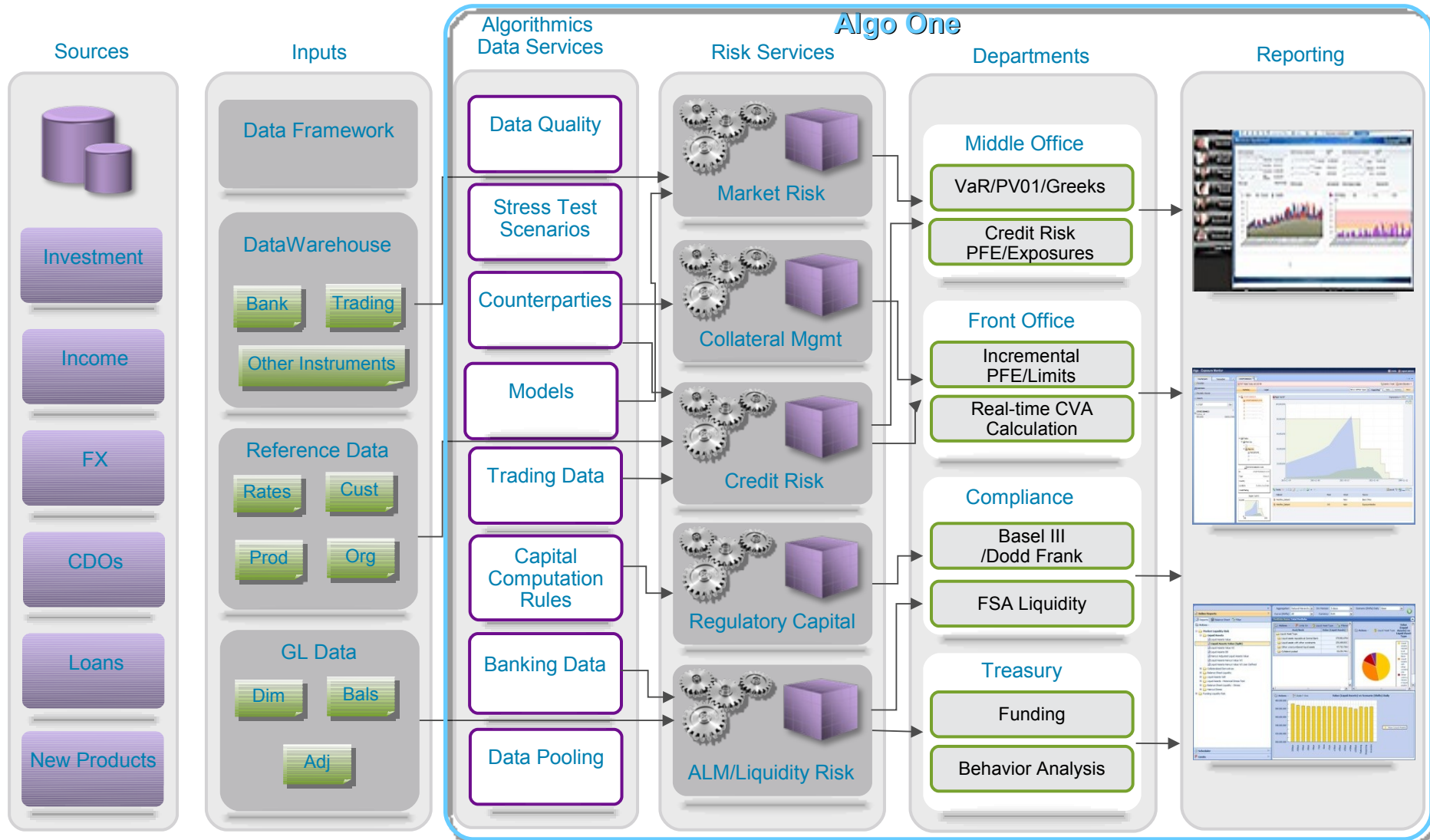
- ❖ Need to calculate short term and medium term liquidity ratios, perform stress tests and report to regulator
- ❖ Need to use data of assets as well as liabilities covering the entire balance sheet positions
- ❖ Accounting and risk management systems need to be integrated requiring major datamart development work

Implications: Implementation challenges (2/2)

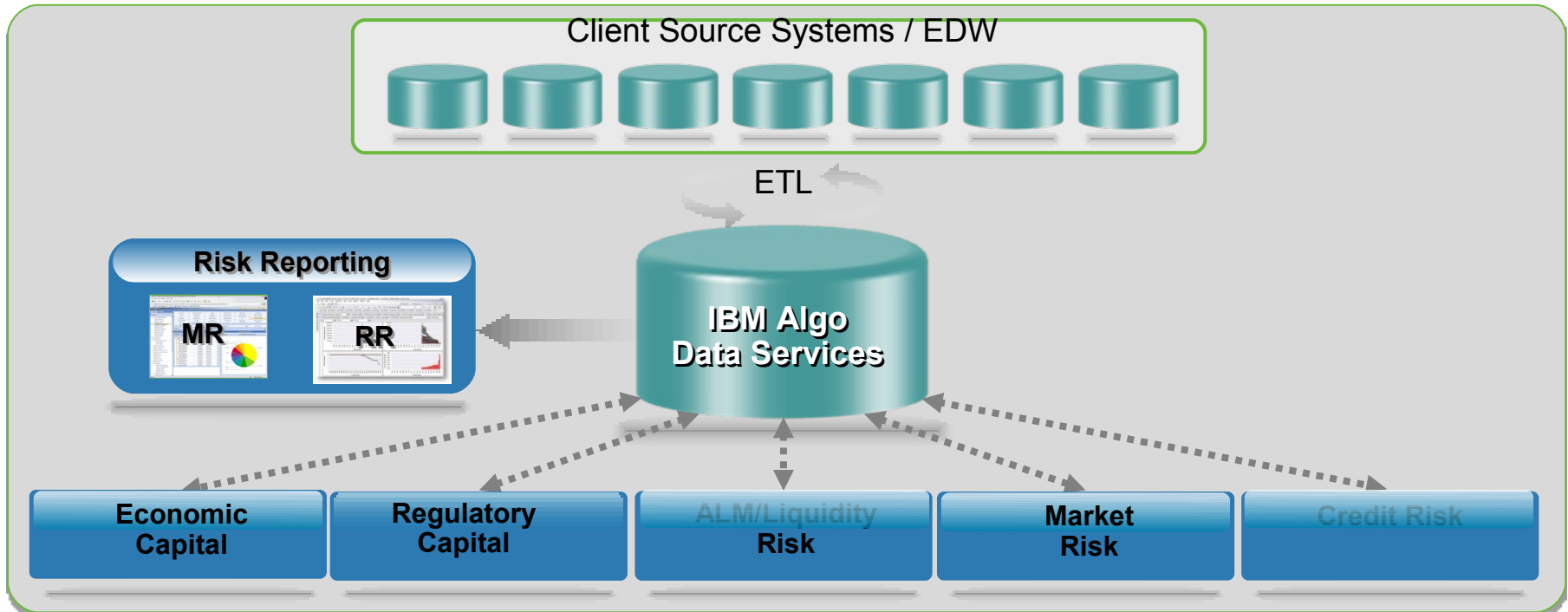
Implementation implications of the new requirements

- ❖ Data management (greater deal of data needed, access multiple sources, carry out multiple data quality checks and perform reconciliation, and more timely market data)
- ❖ Batch (computations performance daily batch requirements etc, increased trading speed and need for real-time data platform)
- ❖ Calculations (complexity of the products/models/valuations, transparency in calculations)
- ❖ Analytics (scenarios, stress testing across multiple solutions)
- ❖ Reporting (increased need for management and regulatory reporting as well as flexible and faster reporting)

IBM Common ERM Architecture



IBM Data Architecture



- Centralized Data Architecture – data loaded once to be used across all risk types
- Apply transformation rules, mapping and use default values
- Product by product descriptions through data dictionaries
- Database stores historical reporting data accessible from IBM's Business reporting application or from Regulatory Reporting used for trend analysis and backtesting
- Usage of common data fields across different risk types

IBM Risk Analytics Project Approach

- ❖ Define tasks and outputs for every stage of the project
- ❖ Make sure our clients to explain/understand data requirements and support full data design and build stages
- ❖ Work with the business to build reports and generate validation templates based on selected sample dataset
- ❖ Perform business validation and advise on technical enhancements, support the full operational cycle
- ❖ Deploy global solution experts together with local risk management consultants on TR projects
- ❖ **DELIVER HIGH QUALITY SOLUTIONS ON TIME AND WITHIN BUDGET 😊**

Q&A