#### Smarter Risk



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From Risk Book to Risk Socialization Smarter Risk meeting the needs of Regulators IBM Risk Analytics



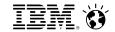
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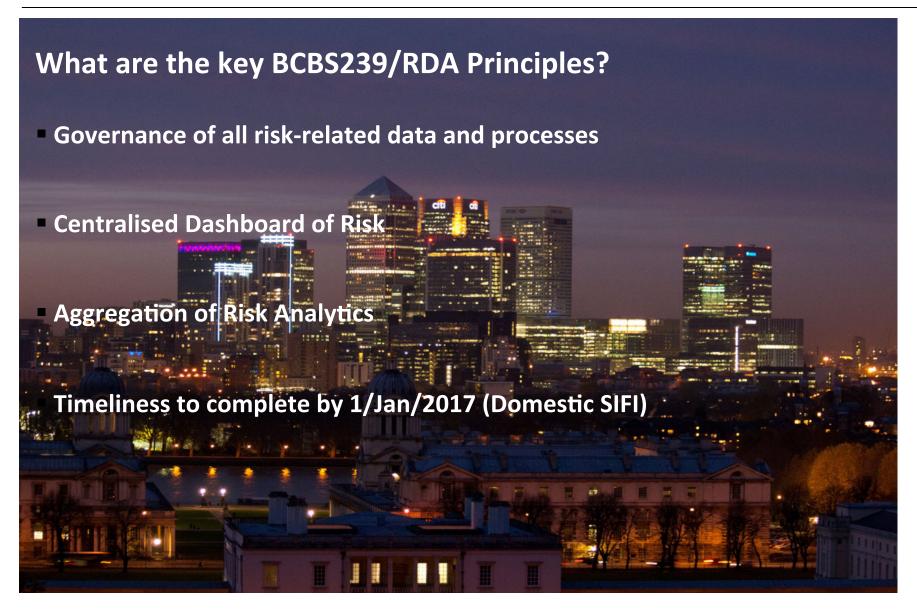
Regulation in abundance

- Basel III,
- CRD IV,
- Solvency II,
- Dodd-Frank
- CCAR

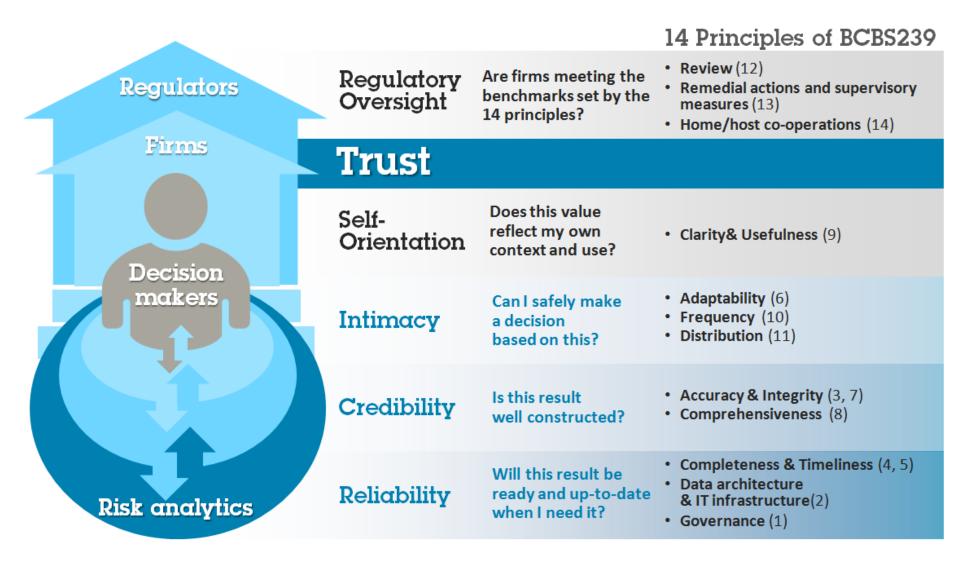


- Fundamental Review of the Trading Book
- Risk Data Aggregation RDA



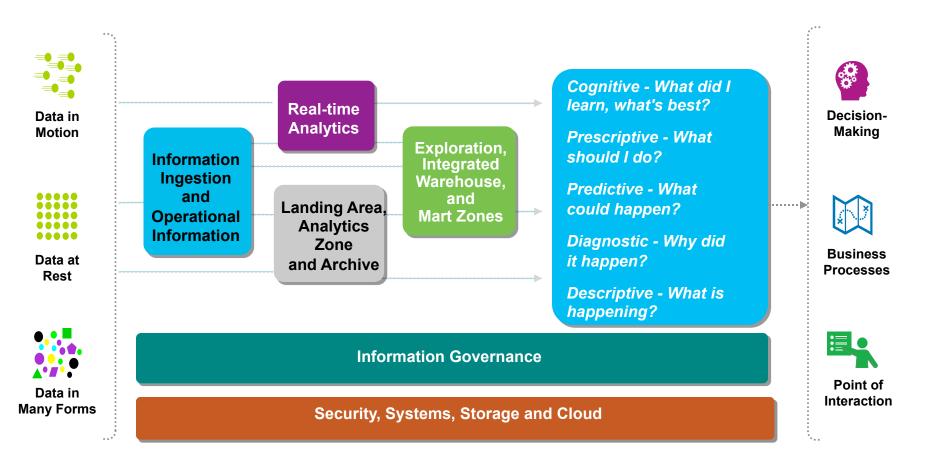






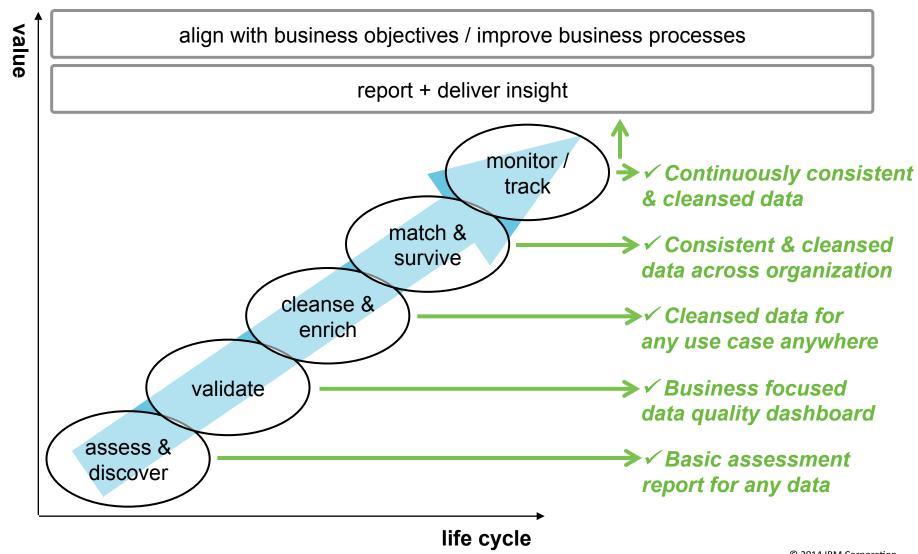


# New architecture emerging to leverage all data and analytics: information governance & security are critical success factors



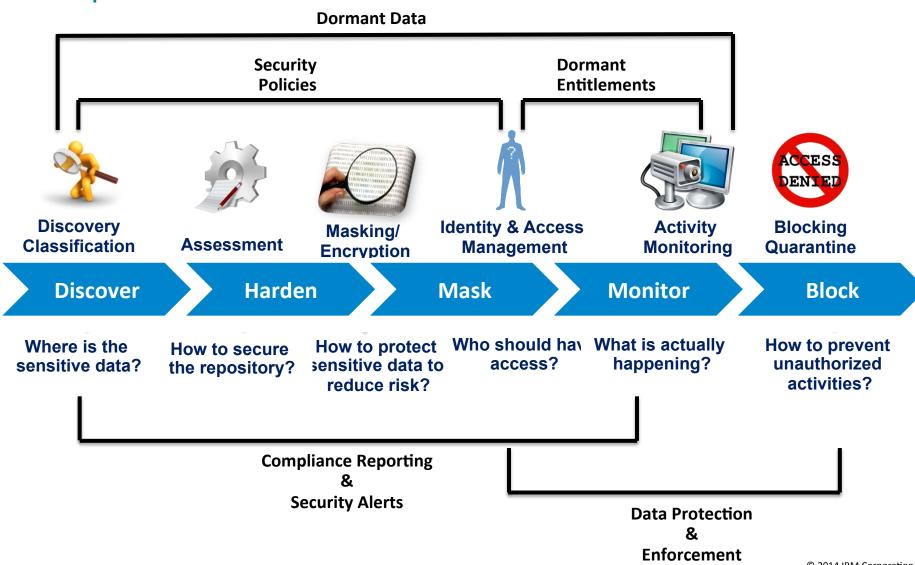


## Data Quality is a Continuous Improvement Process





# Data Security and Compliance is an on-going process to develop and avolve over time

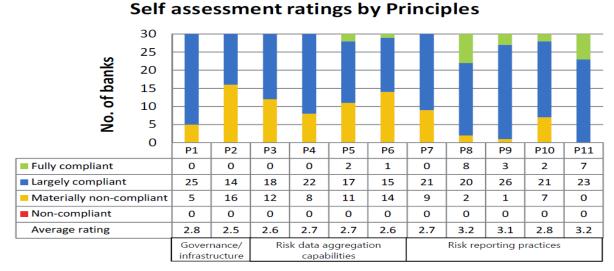




#### Basel BCBS 268 – Where are the Tier 1 banks?

December 2013, G-SIFI's performed a 'stock-take' of their progress on the BCBS
 239 paper

Selected results:



- Inventory of overarching weaknesses from Basel 268 review:
  - Governance and infrastructure
  - Risk data aggregation capabilities
  - Risk reporting practices
  - Interactions between the above

Source: Progress in adopting principles for effective risk data aggregation and risk reporting issued - Basel Committee. December 2013



## Sample of Current Projects

#### Automated Risk Reports & Dashboards

- **Interactive Risk Reports** 
  - Overall risk reporting & dashboards
  - **Enterprise-wide Assessment Tools** (stress/simulation & planning)
  - Forward-looking analysis
- Risk Data Management
  - Single Automated riskh
  - reports & dashboards a Integration Mechanism
    - Quick Enterprise-wide Aggregation
    - Tracking history of measures
  - Data warehousing
  - **Dictionaries**
  - Reconciliation of risk & finance
  - **Documentation**

#### Model Risk Management

- Mod
- Mod Model risk governance
- Modelineag
- **Documentation**

#### Data Governance

- Quality & Accuracy requirements lateriality-based)
- Risk data governance
- Metadata management
- Data model development / consolidation
- Data lineage & provenance

#### Governed Risk Measurement Processes

Governed, auditable risk

DSIBs)

- Common risk measurement platform
- Reference Data Management
- IT Infrastructure

#### Policy, Co

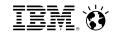
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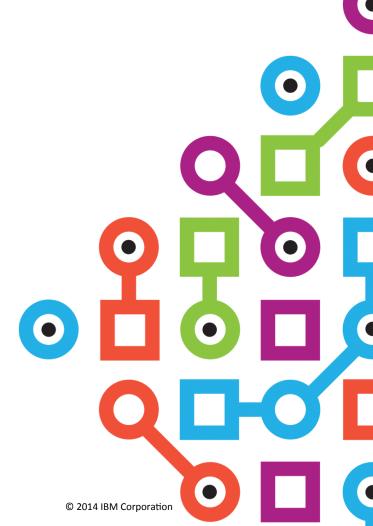
SIBs &

organization



The Vision for a Smarter Risk Enterprise

IBM Risk Analytics





### Maturity road map of risk reporting



## Dashboard of risks

Create a common repository to share and collect key results, federate others, and keep content open and accessible

3

## Enterprise risk governance

Aggregate data lineage, glossaries, policies and confidence indices, including enterprise model governance 4.

## Risk socialization

Socialize around the dashboard, move from email to social media, and open a conversation, using it to create both trust and confidence

Start with today's manually compiled book of risk and control its construction

**Controlled book** 

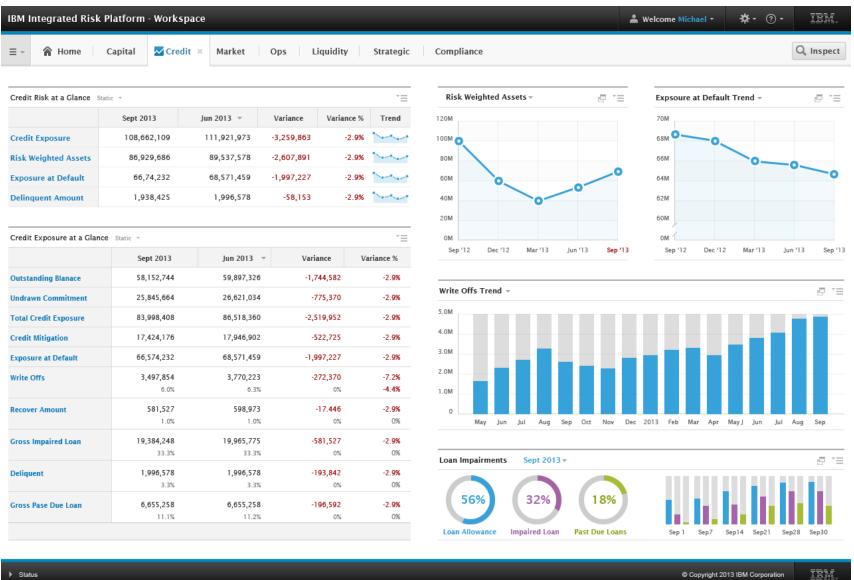
of risk

Make approval processes and documentation consistent over time

12

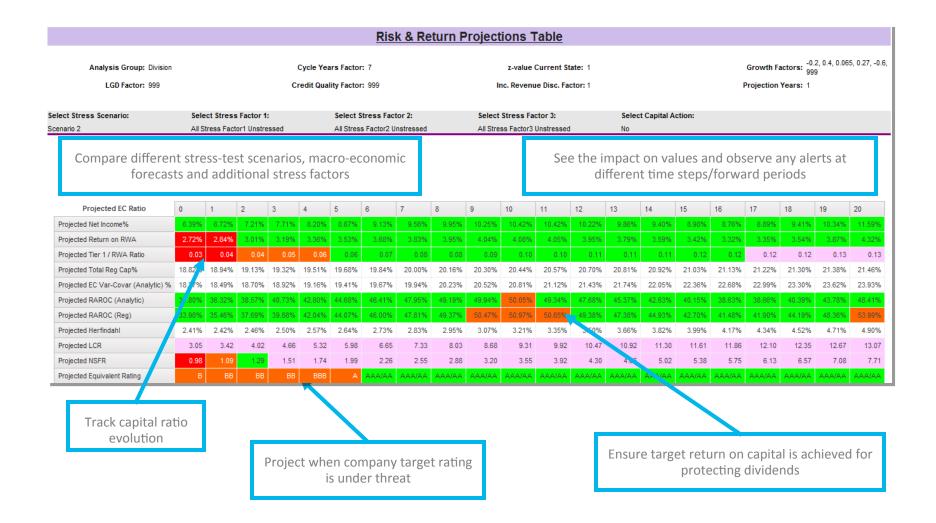


## A centralised, holistic view of Risk



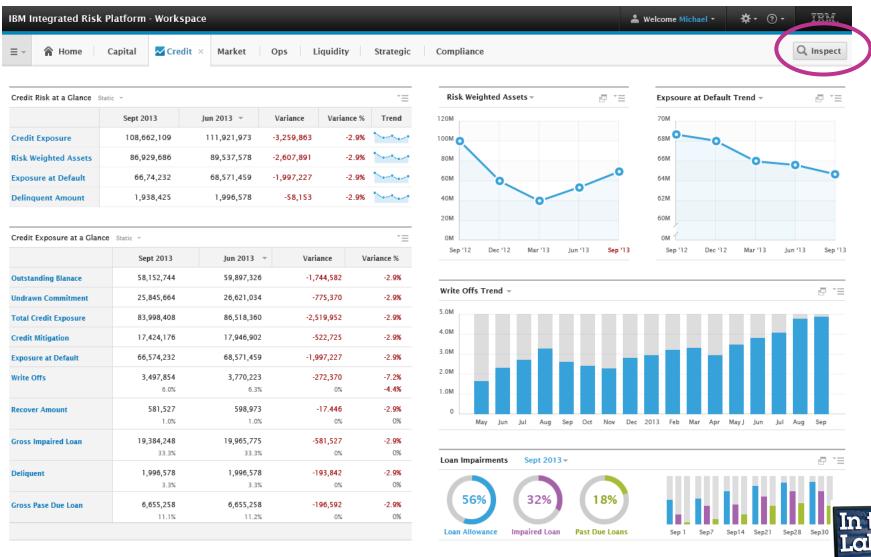


### Stress testing





## Imagine if you could display trust in the results...

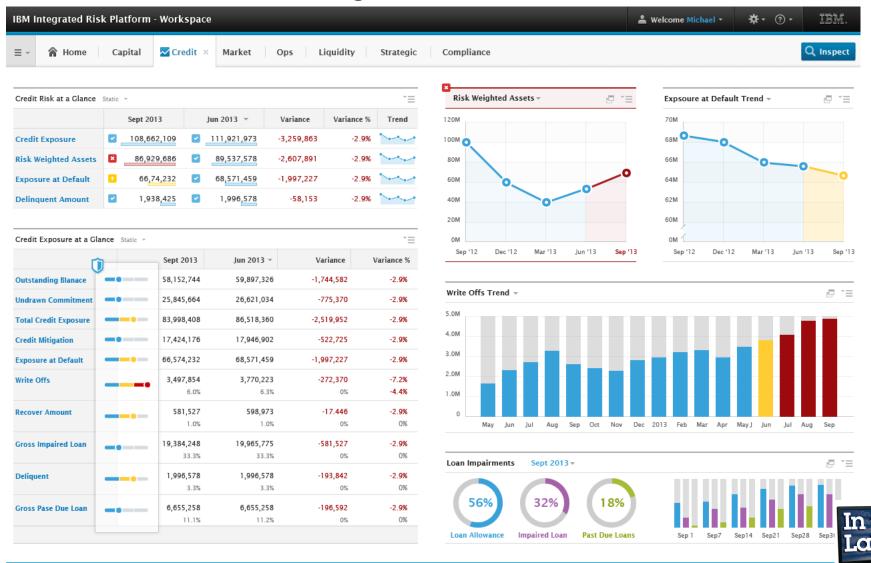


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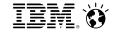


## We could look behind the glass screen ...



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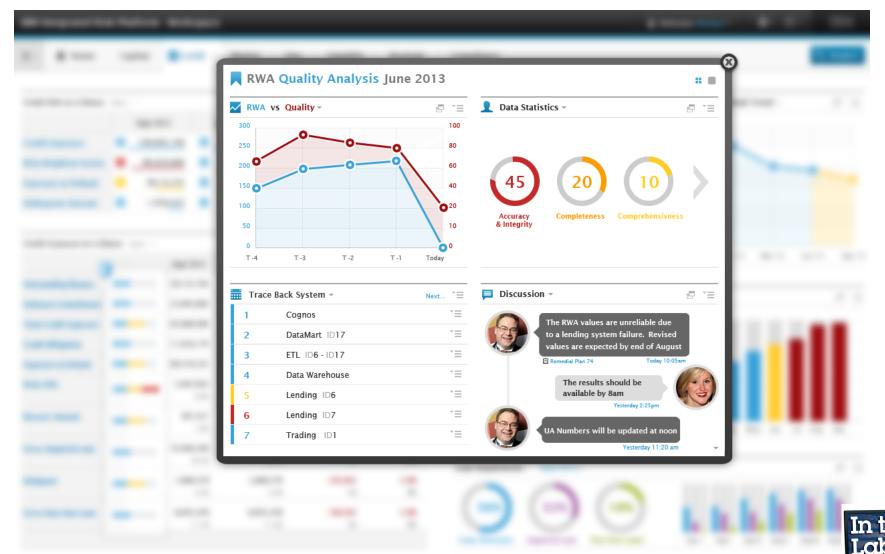


### We could measure ...



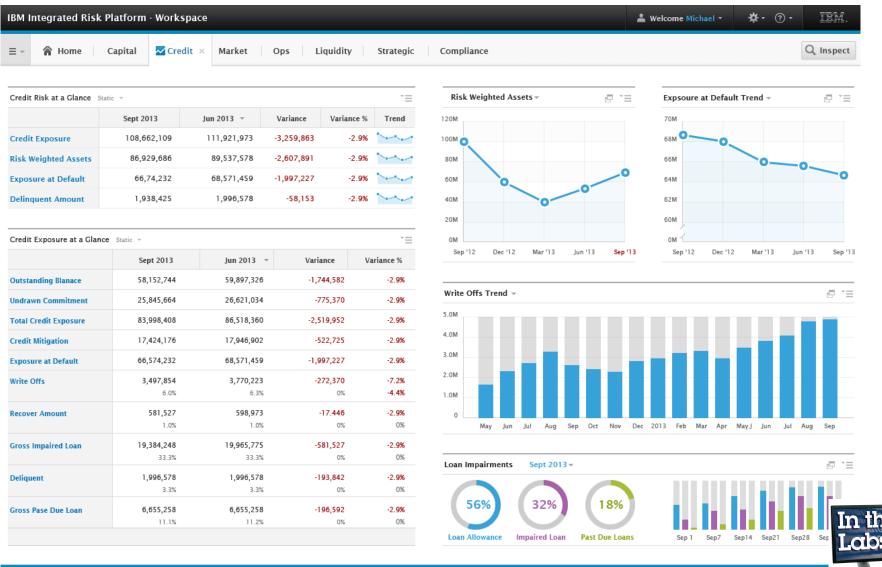


#### We could trace back and access rich context...



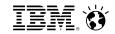


## How would our decision making change if we knew?



Status

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### **Summary**

 Banks must meet the needs of regulation, as well as shareholder demands and display trust in their risk data

■ IBM Offers solutions for Smarter Risk across Software, Consulting and Risk Knowledge

■ There are many ways to approach these Regulations — speak to us about them

■ The future of a Risk Enabled Enterprise — how could it help your bank?



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## Questions?

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IBM Risk Analytics

Thank you





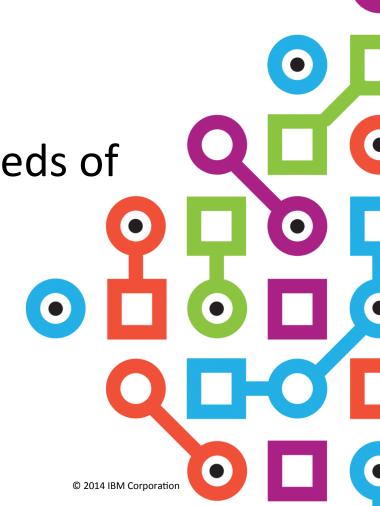
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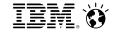
## Back-up

Smarter Risk meeting the needs of Regulators

IBM Risk Analytics

Thank you





## IBM has a family of Software solutions to help you today

Automated risk reports & dashboards

Model risk governance

Policies, compliance and business controls

Governed, auditable risk processes

Risk data governance

Social interactions with risk

NEW
IBM Algo Integrated Risk Platform

#### **IBM OpenPages**

- Policy & compliance management
  - Operational risk management

IBM Algo Strategic Business Planning

#### **IBM eMRG**

- Model risk governance
- Model lifecycle management

**IBM Algo One** 

IBM Algo Credit Manager

**IBM InfoServer** 

**IBM Connections** 

Supported by:

**IBM Cognos** 

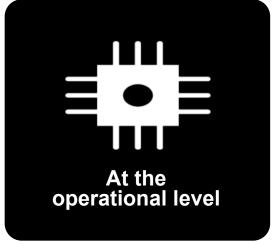
**IBM BPM** 

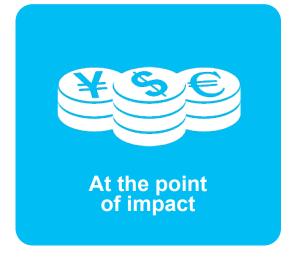
**IBM CDM & PM** 



At IBM, we believe a level of trust and confidence is essential to achieving Smarter Risk









IBM's approach is tailored to our clients capabilities, designing and implementing solutions that meet long-term needs

