Get Your Business Insight
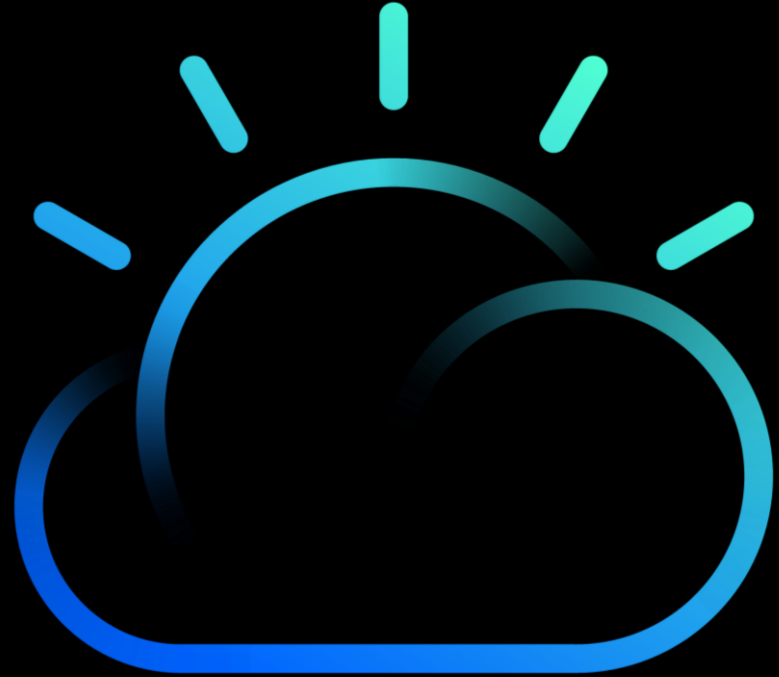
Dr. Ari Pratiwi
Software Client Architect, Cloud and Analytics Technical Leader
IBM Indonesia

IBM **Cloud**

What are the sources?

IBM

Traditional data sources

- Addresses and contact details
- Identifiers
- Contracts and accounts
- Relationships
- Support history

Big data sources

- Call center logs
- Unstructured documents
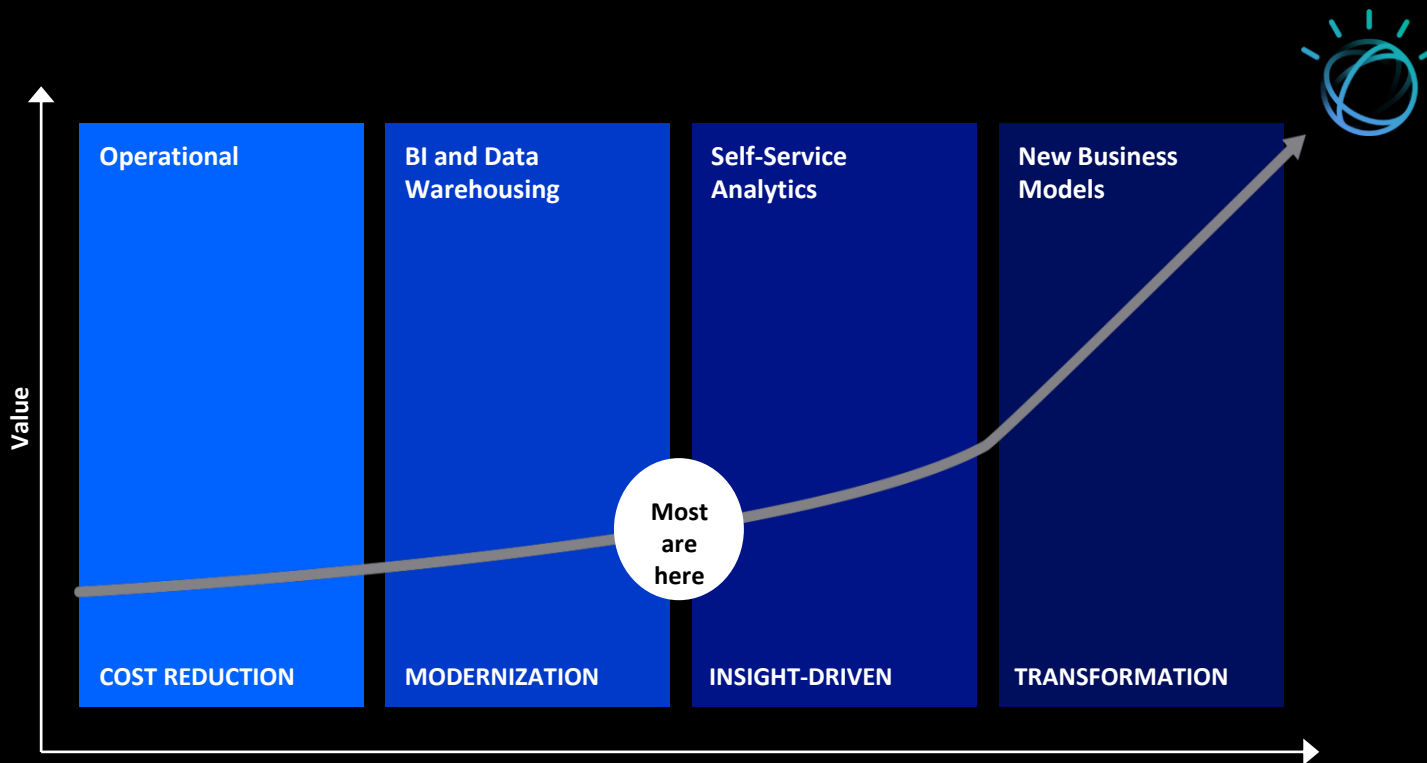- Email text and sentiment
- Social media sentiment
- Order history

We need to **Find** it, **Extract** It, **Refine** It, **Distribute** it and …

Monetize It

Go Beyond: Unleash The Power Of Data

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Operational

BI and Data Warehousing

Self-Service Analytics

New Business Models

Most are here

COST REDUCTION

MODERNIZATION

INSIGHT-DRIVEN

TRANSFORMATION

Value

83%
of view AI as a strategic opportunity

MITSloan
Management Review

It takes discipline to keep a **data** lake clean and useful

It needs skills and collaboration to mine the 'Oil'

The Challenges

Think about ....
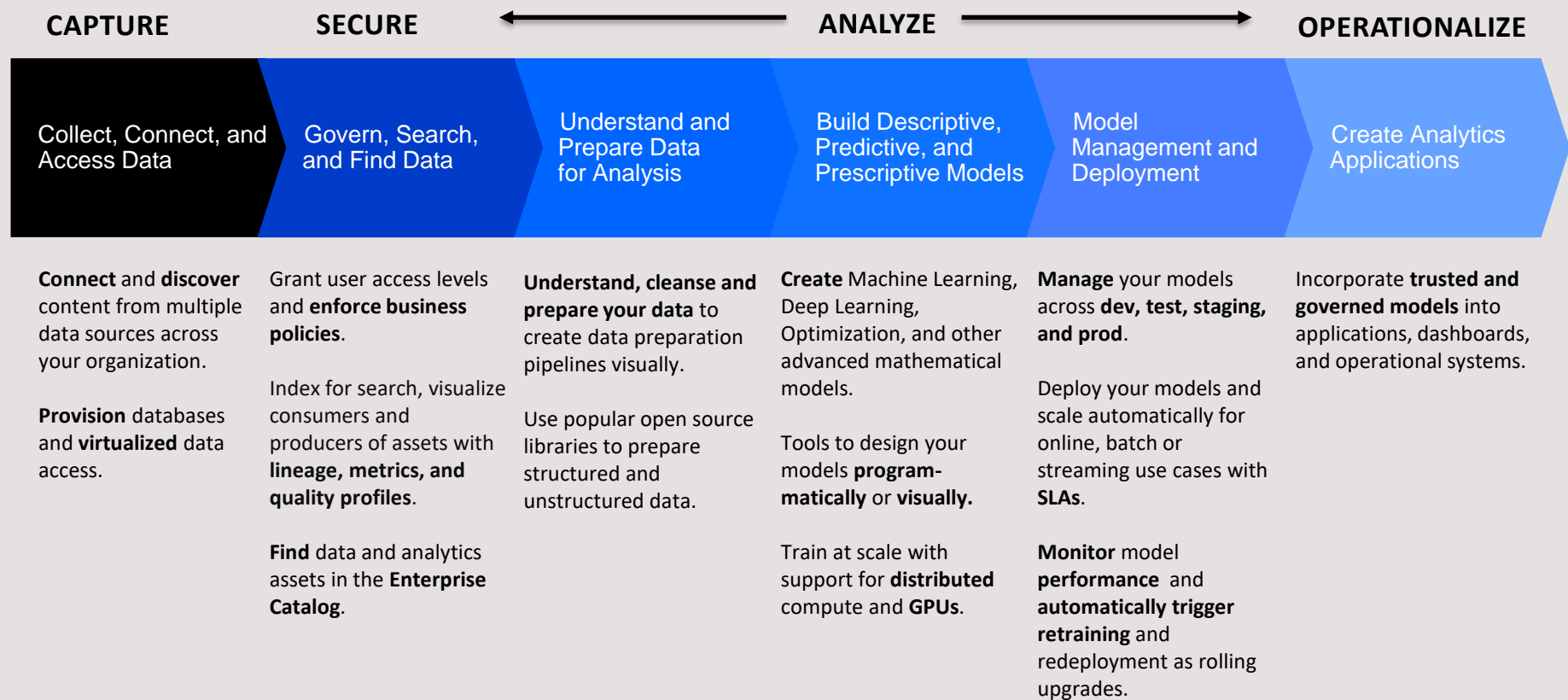
my business

IBM

The Building Blocks of Data & Analytics

CAPTURE	SECURE	ANALYZE			OPERATIONALIZE
Collect, Connect, and Access Data	Govern, Search, and Find Data	Understand and Prepare Data for Analysis	Build Descriptive, Predictive, and Prescriptive Models	Model Management and Deployment	Create Analytics Applications

Connect and **discover** content from multiple data sources across your organization.

Provision databases and **virtualized** data access.

Grant user access levels and **enforce business policies**.

Index for search, visualize consumers and producers of assets with **lineage, metrics, and quality profiles**.

Find data and analytics assets in the **Enterprise Catalog**.

Understand, cleanse and prepare your data to create data preparation pipelines visually.

Use popular open source libraries to prepare structured and unstructured data.

Create Machine Learning, Deep Learning, Optimization, and other advanced mathematical models.

Tools to design your models **program-matically** or **visually.**

Train at scale with support for **distributed** compute and **GPUs**.

Manage your models across **dev, test, staging, and prod.**

Deploy your models and scale automatically for online, batch or streaming use cases with **SLAs**.

Monitor model **performance** and **automatically trigger retraining** and redeployment as rolling upgrades.

Incorporate **trusted and governed models** into applications, dashboards, and operational systems.
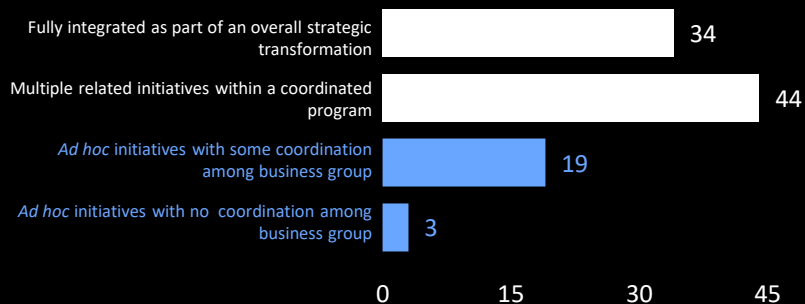
IBM

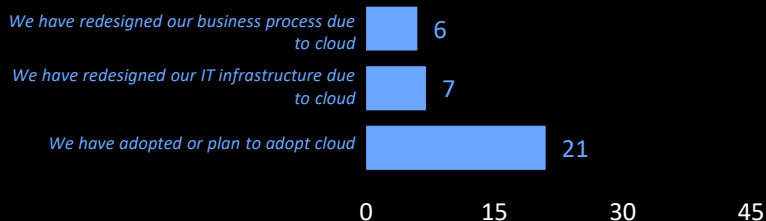What's the learning points …

Cloud is mainstream

Today 78% of business leaders say cloud initiatives are coordinated or fully integrated.

How cloud initiatives are viewed within respondent's organization

Fully integrated as part of an overall strategic transformation	34
Multiple related initiatives within a coordinated program	44
Ad hoc initiatives with some coordination among business group	19
Ad hoc initiatives with no coordination among business group	3

0 15 30 45

Compared to 2012, when only 34% said they had a solid plan in adopting cloud.

Level of cloud adoption in respondent's organization in 2012

We have redesigned our business process due to cloud	6
We have redesigned our IT infrastructure due to cloud	7
We have adopted or plan to adopt cloud	21

0 15 30 45

45%

of workloads will continue to be on dedicated servers in two years, requiring a combination of cloud and traditional IT.

9 in 10

leading CIOs are resolved on supporting agile innovation.

7 in 10

decision makers say they'll always have a blend of traditional IT and cloud.

85%

of leading organizations depend on hybrid cloud to accelerate their digital transformation.

IBM

IBM Cloud Private for Data

	ICP4D	Underlying IBM Technology
Platform	• End-to-end, governed, data and analytics solution • Collaboration workflows • Common UI & management services (Cloud Native)	✓ IBM Cloud Private
Collect	• Federated data access	✓ Data Virtualization

Organize	• Enterprise asset catalog
	• Data integration
	• Data shaping and transformation
	• Curation for analytics assets
		✓ Information Server :
		    ▪ IGC
		    ▪ Information Analyzer
		    ▪ Data Stage

Analyze	• Build machine learning models • Model management and deployment • Visualize insights through reports and dashboards	• Watson Studio • Cognos DDE

Jakarta Achieves Progress with Citizen Engagement

- Empowers government agencies with the data they need to make optimal policy decisions

- Engages citizens by enabling faster responses to feedback and increasing transparency

- Proves the value of a central big data platform as a hub for smarter government services

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