



Irving Fisher Committee on
Central Bank Statistics

BANK FOR INTERNATIONAL SETTLEMENTS

IFC-Bank Indonesia Satellite Seminar on “*Big Data*” at the ISI Regional Statistics Conference 2017

Bali, Indonesia, 21 March 2017

Issues on Big Data Governance – Big Data work in Central Banks, HR and IT issues¹

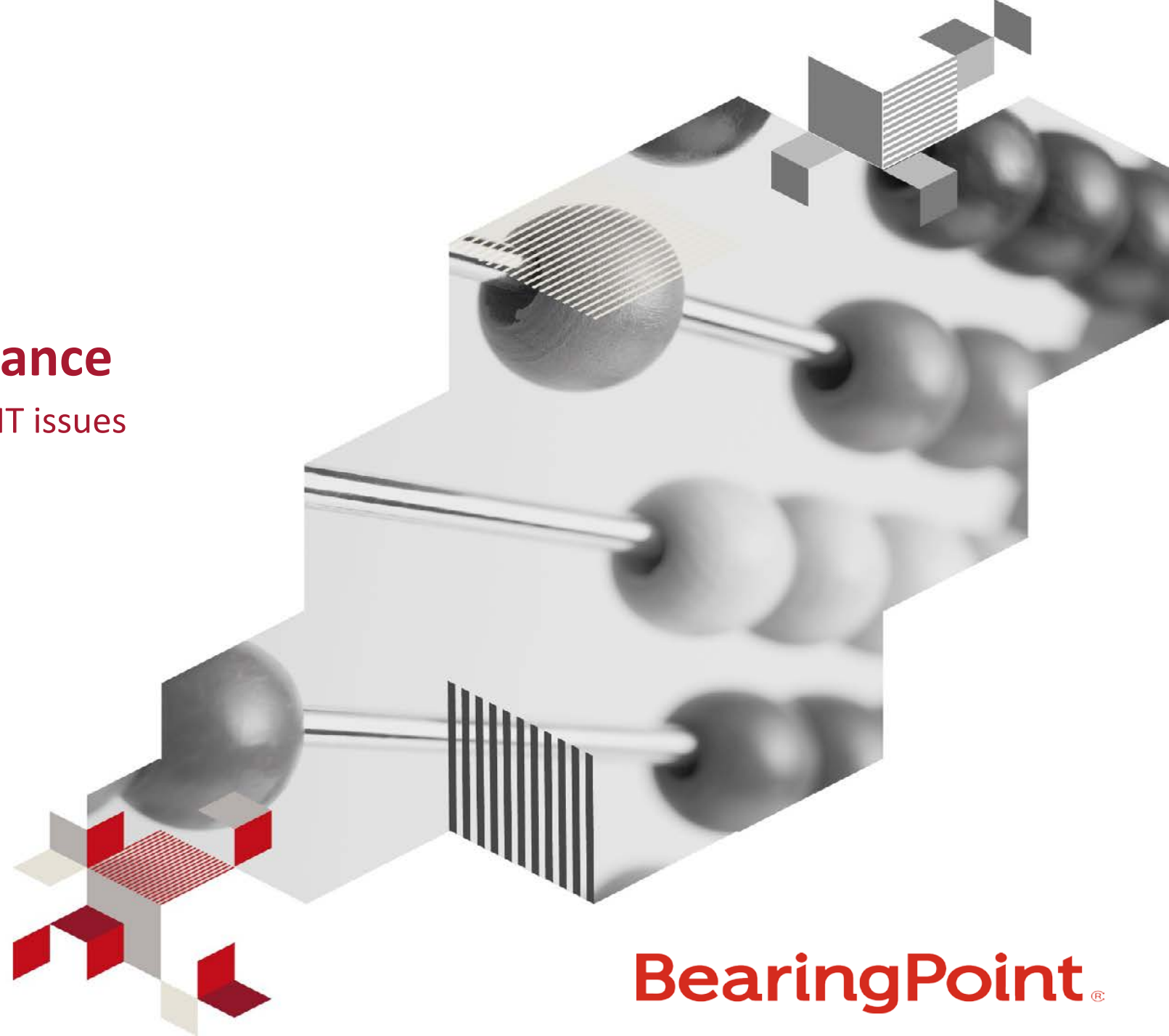
Anne Leslie-Bini,
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¹ This presentation was prepared for the meeting. The views expressed are those of the author and do not necessarily reflect the views of the BIS, the IFC or the central banks and other institutions represented at the meeting.

Issues on Big Data Governance

Big Data work in Central Banks, HR and IT issues

Anne Leslie-Bini



BearingPoint®

A venerable institution with centuries of history...



A multi-faceted mission...



Living with legacy architecture...



And the challenges of reconciling old and new...



Striving for the best of both worlds...



LET'S SOLVE THIS PROBLEM BY
USING THE BIG DATA NONE
OF US HAVE THE SLIGHTEST
IDEA WHAT TO DO WITH



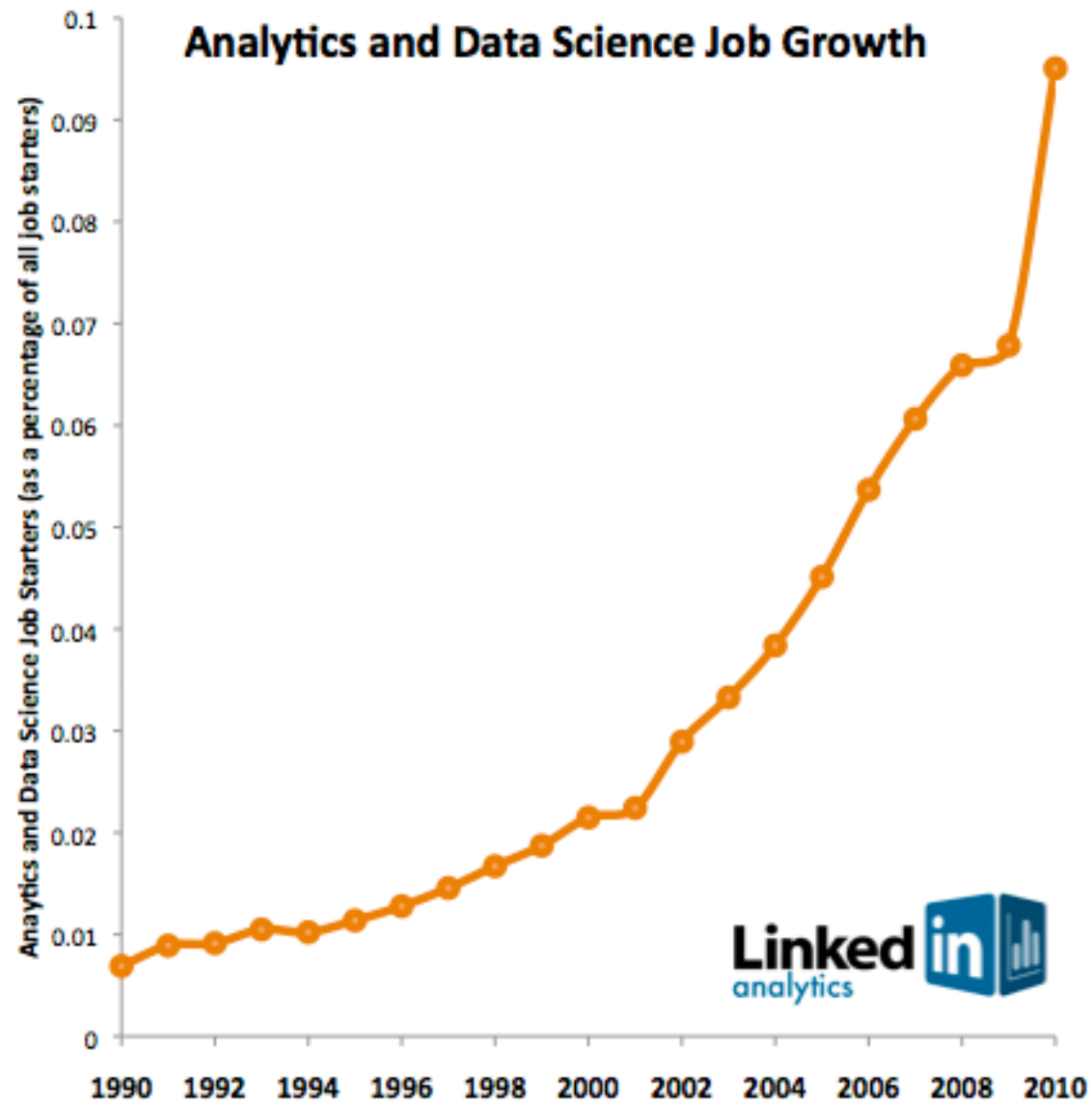
TOM
FISH
BURNE

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The war for talent...



Analytics and Data Science Job Growth



USING IT
IS THE HARDEST PART.



DATA SOURCES



DATA INTEGRATION

Batch

oozie Sqoop Logstash
 Flume
 Pig IBM TOM
 talend* syslog-ng

Streaming

Storm kafka
 Flume Spark Streaming
 syslog-ng

DATA USAGE

Batch analytics

HUE
 SQL Pig
 Hunk

Interactive analytics

HUE
 Kibana SQL
 Hunk

Predictive analytics

Spark MLlib H2O
 SAS R Studio

API

d3.js
 node WebHDFS

BUSINESS VIEWS

Batch

Hive
 MapReduce

Interactive NoSQL

mongoDB
 APACHE HBASE

Interactive Search Engine

hp IDOL OnDemand
 elastic

Real time

Spark

DATA LAKE - DATALAB

HDFS : distributed file system



TRANSVERSAL : DATA MANAGEMENT, SECURITY, TRACEABILITY

Data Management

Authorizations : Ranger, Shield, LDAP, Knox

Audit : Ranger

Encryption hp Encryption

PRODUCTION

Supervision : Ambari, Nagios, Ganglia, Marvel

Sequencing COZZIE

DEVELOPMENT

talend* DEV OPS git JIRA Jenkins Nexus

"GREAT
VISION WITHOUT
GREAT PEOPLE
IS IRRELEVANT."

- JIM COLLINS

pur·pose

/ˈpərpəs/

Noun

The reason for which something is done or created or for which something exists.



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