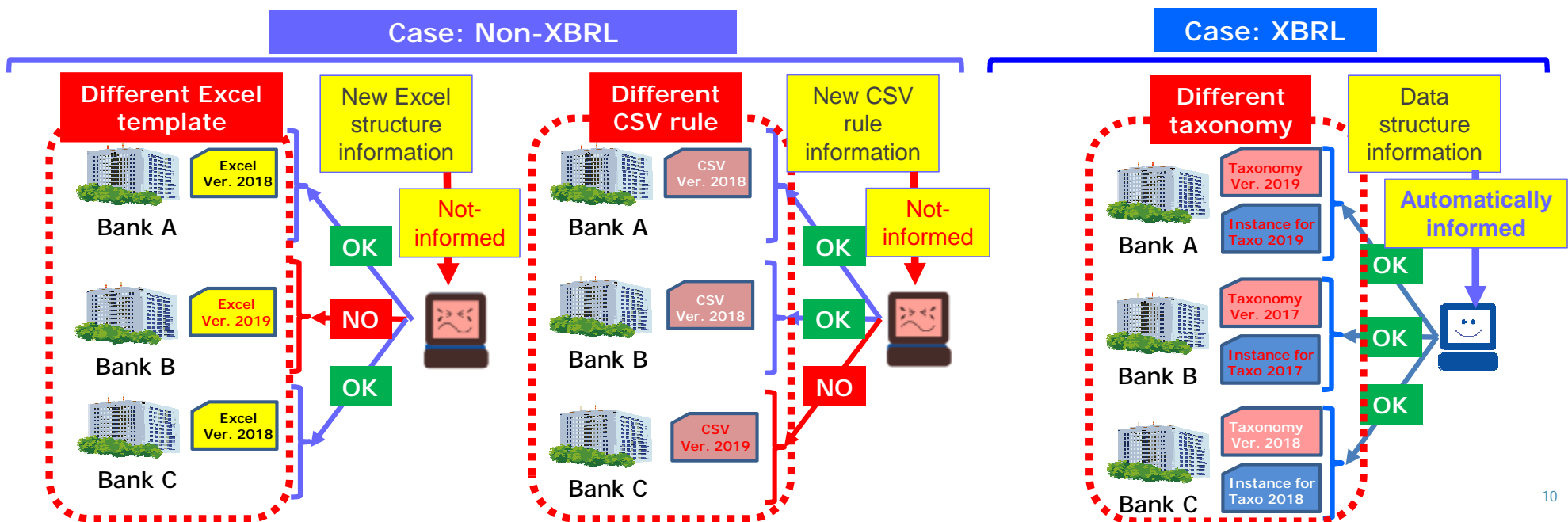


NECESSITY OF STANDARDIZED REPORTING / MESSAGING FORM (2)

If any filer uses different reporting/messaging form or rule, and that is not informed to receiver, what will happen?



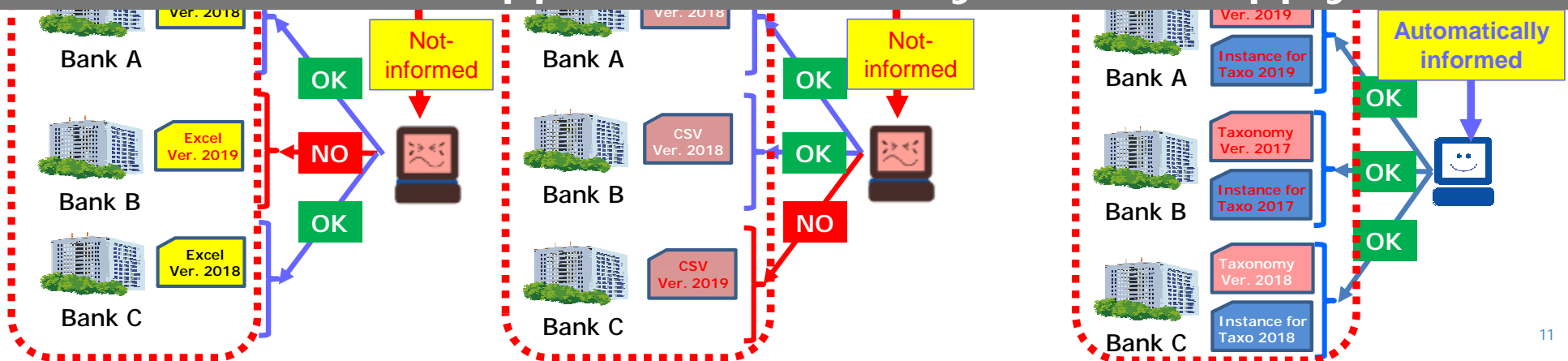
NECESSITY OF STANDARDIZED REPORTING / MESSAGING FORM (3)

If any filer uses different reporting/messaging form or rule, and that is not informed to receiver, what will happen?

Case: Non-XBRL

Case: XBRL

Against the changes in reporting format, XBRL has an excellent robustness, and supports the stability of data supply chain





MAJOR USE CASES OF XBRL

XBRL is already used as an de-facto standard for reporting, disclosure in various cases, all over the world.

Regulatory Reporting



Central Banks, Financial/Security/Market regulators

Governmental Filings



Tax-filing, Pension filings, etc.

Financial/Non-Financial Disclosure



New Trend

Business Report (e.g., IFRS other GAAP based), ESG Reporting

RECENT INVESTMENT TREND AND CHANGES IN DATA NEEDS IN JAPAN (1)





Active
Investment



Passive
Investment

Investment Trend in GPIF*

	FY2001		FY2015
Active	49.93%		20.72%
Passive	50.07%		79.28%

* Government Pension Investment Fund, Japan :Total asset \$1.46 trillion

RECENT INVESTMENT TREND AND CHANGES IN DATA NEEDS IN JAPAN (2)



Financial
Factor



Non-Financial
Factor

ESG* Report, CSR** Report,
Other public disclosed information

- * E:Environment, S:Social, G:Governance
- * * Corporate Social Responsibility Report

RECENT INVESTMENT TREND AND CHANGES IN DATA NEEDS IN JAPAN (2)



Financial
Factor



Non-Financial
Factor

However, it is not easy to use Non-
Financial Factor
ESG* Report, CSR** Report,
Other public disclosed information

* E:Environment, S:Social, G:Governance

** Corporate Social Responsibility Report



Most of the Non-Financial reports are text type data



Analysts must read them



ANY SOLUTIONS?



AI

Artificial Intelligence

But AI is Not
Almighty

WEAK POINTS OF AI



Data format

In most cases, Non-Financial reports are published in HTML or PDF

Weak points of AI
in HTML or PDF

But computer/AI can't fully understand these



ANY SOLUTIONS?



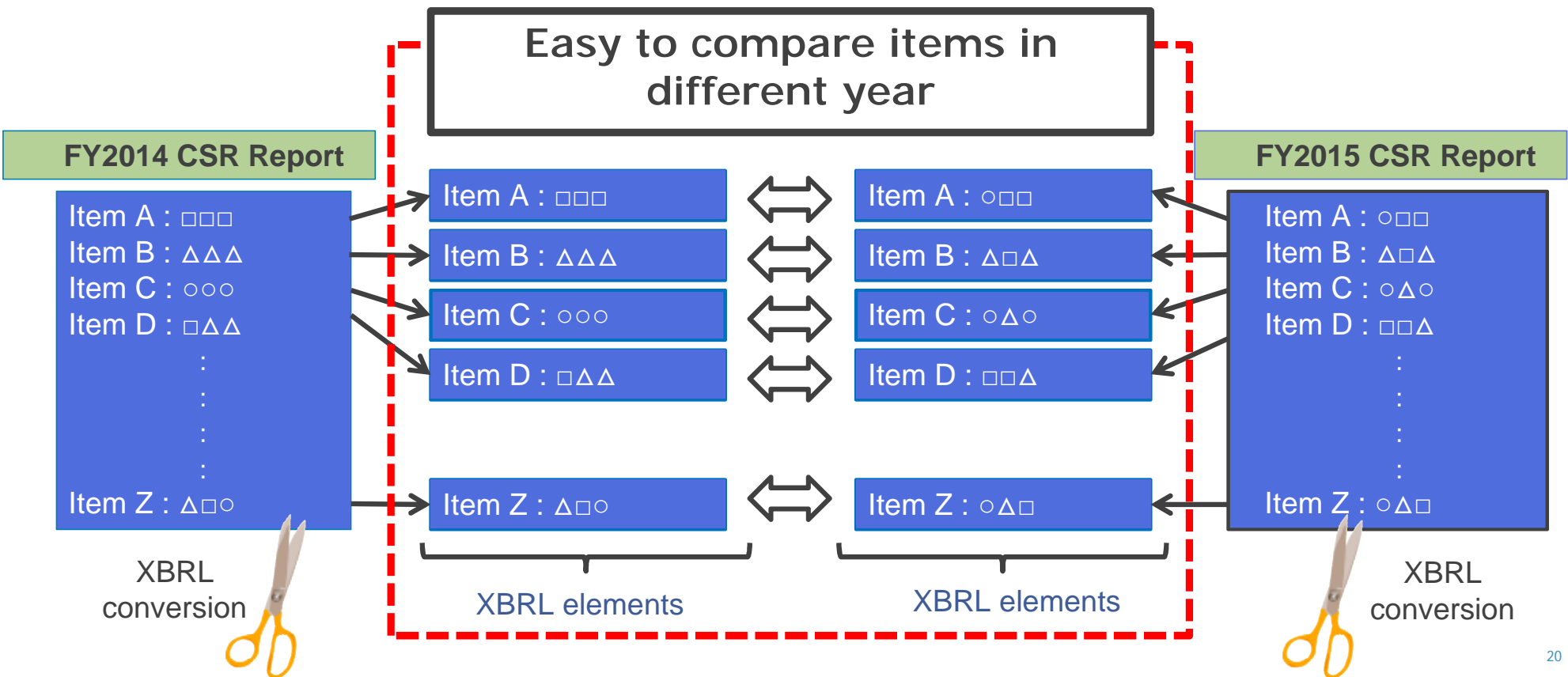
Yes!

eXtensible Business Reporting Language

is here!



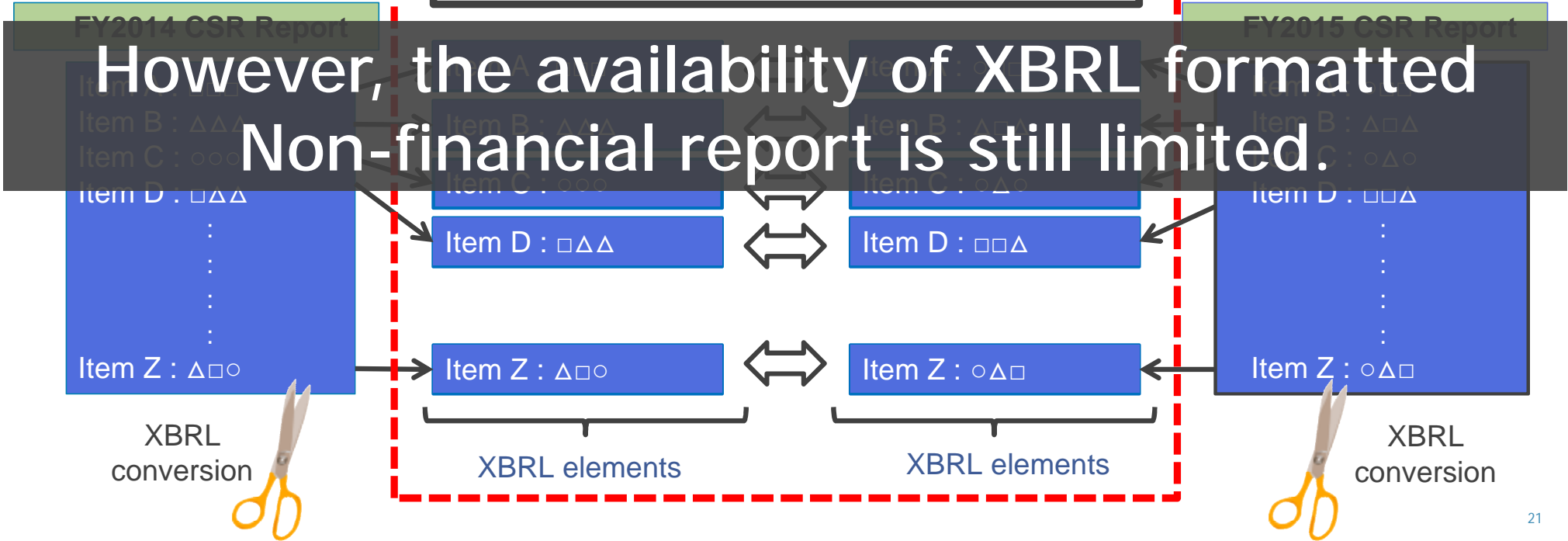
HOW XBRL WORKS?





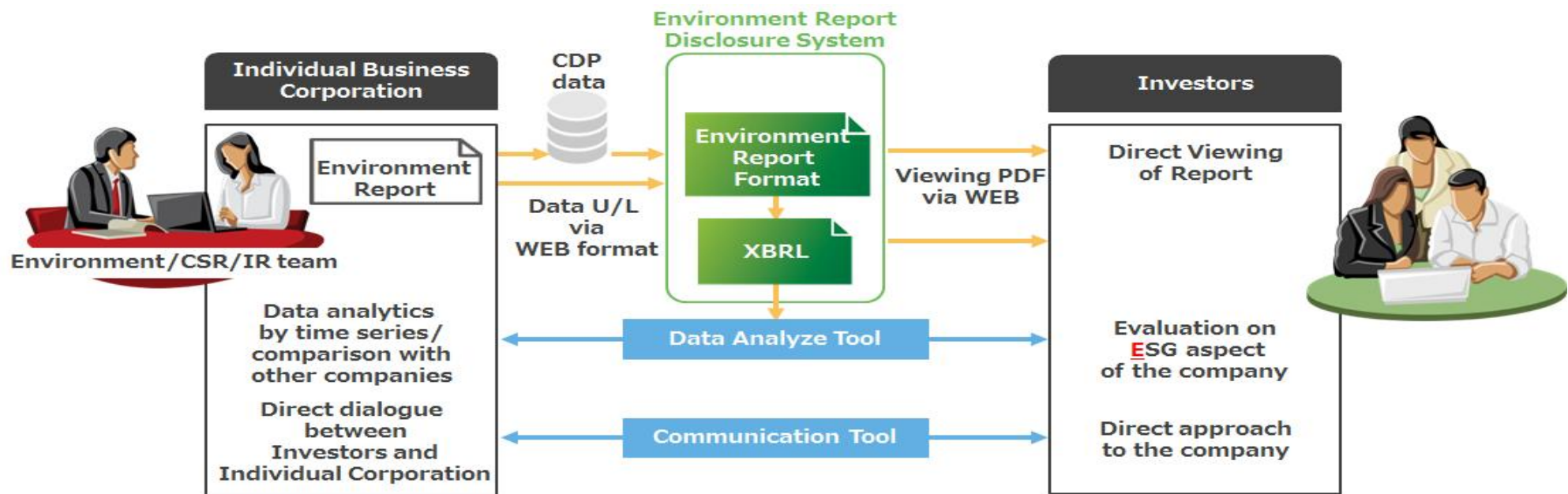
HOW XBRL WORKS?

Easy to compare items in different year



CASE IN JAPAN---ENVIRONMENT REPORT IN XBRL (1)

The world's first government based initiative that has succeeded in the disclosure and analysis of the environmental information in XBRL as well as the direct communication between filers and investors

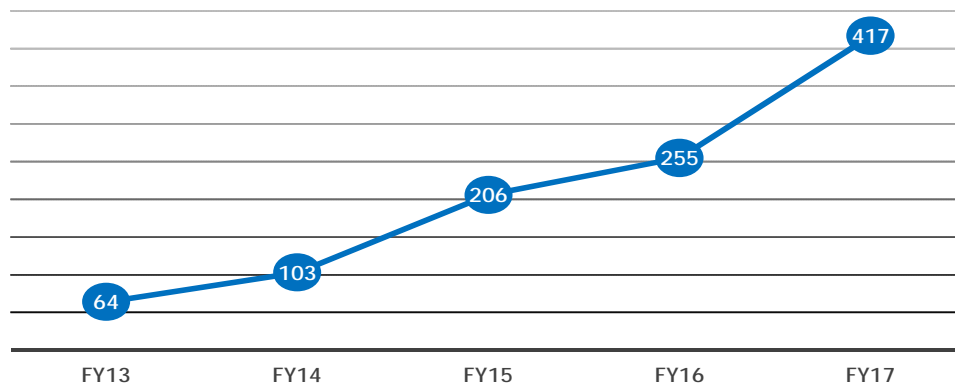


CASE IN JAPAN---ENVIRONMENT REPORT IN XBRL (2)

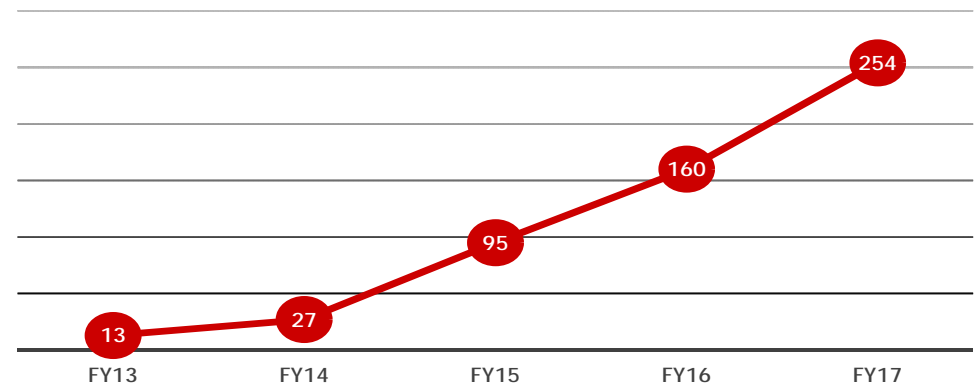


Number of Project Participants

Corporate sector



Investors



CASE IN JAPAN---ENVIRONMENT REPORT IN XBRL (3)



The kickoff event of FY2017 was held on August 29 in Tokyo. Over 600 people attended the event.

SUMMARY



For the efficient and transparent regulatory framework, combination of optimal data format and standardization of report form/template is essential.

On the other hand, there is no reporting free from changes in form/template.

Therefore, it is particularly important to design the stable and standardized reporting form/rule, and choose the suitable data format which enables robust data supply chain.

Combination of well standardized/structured form and XBRL could contribute to the efficient data supply chain.



THANK YOU