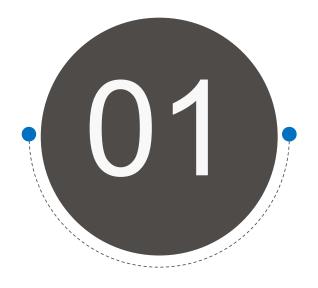


INTOSAI Working Group on Big Data



CONTENT

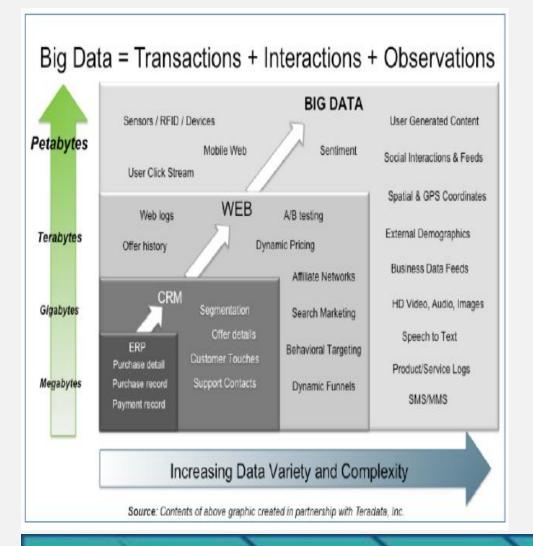
- The outlook of WGBD
- The achievements of WGBD



The Outlook of WGBD



We are in the Age of Big Data



• Big Data is everywhere.

- For a long time, audit has relied heavily on sampling analysis because of limitations in manpower and other resources;
- But now, in the big data era, we can depend on massive "overall data", and the "sample equals population" audit mode will become into reality.

1Bity | 1KB | 1MB | 1GB | 1TB | 1PB | 1EB | 1ZB | 1YB

WGBD

• It was formally established at the XXII INCOSAI held in Abu Dhabi, UAE in 2016.

• WGBD is responsible for identifying the challenges and opportunities for SAIs in the era of big data, summarizing knowledge and experience in the field of big data audit, and strengthening bilateral and multilateral technological cooperation.

Focuses of WGBD

1. Basic theory framework

- 1.1 Big data auditing *Challenges* and *Opportunities*
- 1.2 Big data auditing concept, including audit objectives and data scope.
- 1.3 Roadmap leading to big data auditing

4. Auditing management revolution

- 4.1 Promote the sustainable development
- 4.2 Anti-fraud auditing in big data era
- 4.3 Improve data transprancy and sharing

2. Auditing technologies innovation

- 2.1 Integrate and standardize multi-source, heterogeneous data
- 2.2 Big data storage architecture
- 2.3 Big data analysis techiques

3. Big data auditing practices

- 3.1 Setting up cross-department cooperation mechanism for data collection.
- 3.2 Reform the organization of auditing
- 3.3 Auditing risks and quality control
- 3.4 Data security and confidentiality



The Achievements of WGBD

Annual Meetings

	Members &Observers (SAIs)	Participants (SAIs)	Speakers (SAIs)	Theme
1st Meeting	19, 1	18	13	Chance and Challenge in Big Data Era
2nd Meeting	27, 3	20	14+3	Big Data Auditing Practices and Cases
3rd Meeting	28, 3	24	14+1	Changes on Audit Management in Big Data Environment
4th Meeting	33, 3	26	11	Audit Technology Innovation
5th Meeting	35, 5	35	13	Audit Quality Control
6th Meeting	38, 5	27	15	Big Data Auditing Mechanism
7th Meeting	40, 5	26	17	Big Data Casebook



Membership

Chair

• China

Vice Chair

United States of America

Members

• Austria, Argentina, Bangladesh, Belgium, Bhutan, Brazil, Chile, Denmark, Ecuador, Egypt, Estonia, Finland, France, Fiji, Georgia, India, Indonesia, Iran, Kuwait, Korea, Malaysia, Mexico, the Netherlands, New Zealand, Norway, Pakistan, Portugal, Philippines, the Peru, Russian Federation, Thailand, Turkey, the United Kingdom, Ukraine, Samoa, Senegal, Slovak, Zambia

New Members

• Egypt, Iran

Observers

• Ireland, Bulgaria, Vietnam, AFROSAI-E, ECA



Research projects and publications (summary and share)

Publications

- Sharing of big data audit cases and experiences in annual seminars.
- Case Study Publication
 Global Practices of Big
 Data Auditing in
 Promoting Sustainable
 Development.



Research Projects

- Auditing Technologies Innovation led by SAI Indonesia, completed by the end of 2021.
- Guidance on Conducting Audit Activities with Data Analytics led by SAI China, completed by the end of 2021.
- Development Overview of Big Data Audits Performed by Supreme Audit Institutions

led by SAI China, completed by the end of 2021.



Research projects and publications (summary and share)

New Casebook

• In 2022, the WGBD Secretariat began to collect big data audit cases among members.



- 10 SAIs
- Austria, Brazil, Chile, China, Egypt, Korea, Russia, Slovakia, Ukraine, Vietnam.

- 12 cases
- Finance, Social Security, Natural Resources, etc.

Work plan: 2023-2025

 2023 annual meeting in Cairo, Egypt.



 Application of Big Data in the Budget Execution Audit

Artificial Intelligence in audit process

 Big Data Audit in Social Security and Health Service



Communication and Exchanges



From 2022-2023, the
 WGBD exchanged about
 200 emails with SAIs and
 organizations in 36
 countries.

In the last year



WGBD cooperted with
 Working Group on the
 Impact of Scince and
 Technology on Auditing





• In the next three years, we will implement the WG's 2023-2025 working plan and pay further attention to data analysis techniques, quality control, management mechanisms of the big data auditing.

Thank you.

• Email: intosai-wgbd@audit.gov.cn