

E-MATERI



**YAYASAN
PENDIDIKAN
INTERNAL AUDIT**



BUILDING RESILIENCE IN TUNA WORLD:

**“Control Your Future
or Someone Else Will”**

HOTEL TENTREM YOGYAKARTA

5-6 JULI 2023

KONFERENSI & WISUDA YPIA



PLN





Secure Digital Transformation toward Borderless Society

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Disiapkan untuk:

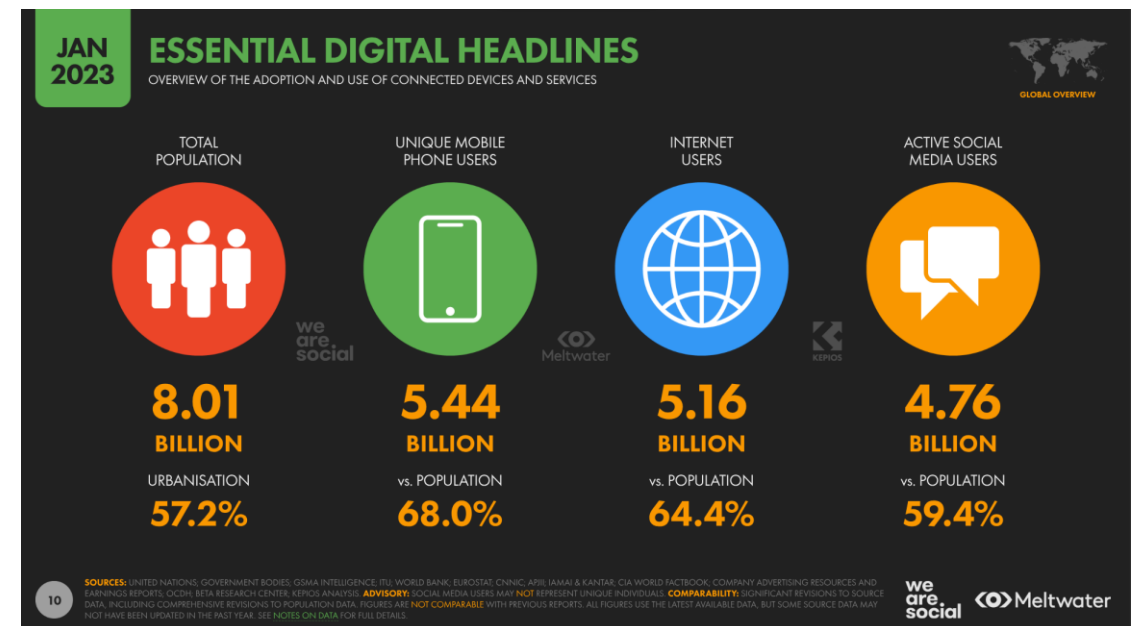
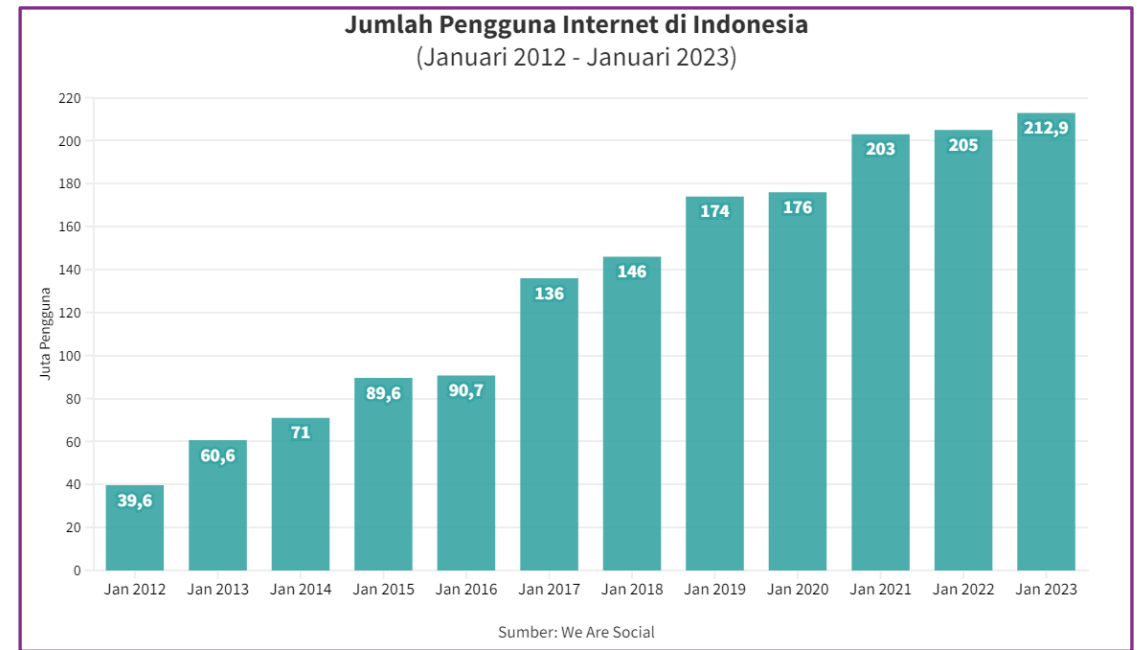


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PENGGUNA INTERNET DI INDONESIA 2023 CAPAI 212 JUTA!

Berdasarkan laporan We Are Social, jumlah pengguna internet di Indonesia telah mencapai **212,9 juta** dari total 277,43 juta jiwa pada Januari 2023. Ini berarti sekitar **77% dari populasi** Indonesia telah menggunakan internet.

Melihat trennya, jumlah pengguna internet di Indonesia terus tumbuh setiap tahun. Adapun, lonjakan pengguna internet di dalam negeri terjadi pada 2017 & 2019 (Covid-19). Lebih lanjut, rata-rata orang Indonesia menggunakan internet selama **7 jam 42 menit setiap harinya**. Selain itu, 98,3% pengguna internet di Indonesia menggunakan telepon genggam (HP).



Cross Border Data Transfer

Cross-border data transfer is simply the sharing of personal data from one national jurisdiction to another. Cross-border data transfer has been one of the most challenging aspects of **data protection**, particularly for international corporations.

“Adequate” Data Protection Practices.

The European Economic Area apply EU data protection rules: **When personal data is transferred outside the European Economic Area, special safeguards are foreseen to ensure that the protection travels with the data.**

Government of Indonesia has issued Government Regulation (GR) **regarding Implementation of Electronic System and Transaction regulates the implementation of electronic system, electronic agent, electronic transaction, electronic certification, reliability certification institutions as well as domain name management.**

The Need for Trusted Data Flows (DFFT)

Today’s global digital economy is fueled by data. Any action taken in the **digital economy**, whether it be buying a good, selling a service, or accessing a piece of information, **requires the creation and transfer of data**—and **lots** of it

The Digital Economy Working Group (**DEWG**) was initiated by Indonesia and other G20 countries **on how to take advantage of digital technology, through exchanging information and views, and seeking a common understanding on policies, which encourage a resilient digital economy, and develop in a sustainable and inclusive manner, with an environment digital services that are safe, secure, and connected, while mitigating the challenges and risks of digitalisation.**

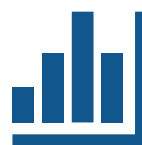
Bank Indonesia has also conducted a **QR Cross-border trial** with **Malaysia** and **Thailand** which enables consumers and merchants in both countries **to make and receive payments for goods and services via the QR Code.** **QR Cross-border** has an important role to play in increasing **transaction efficiency, supporting the digitization of trade and investment, and maintaining macroeconomic stability** by expanding the use of local currency (LCS) transaction settlements.

Risiko Cyber pada Cross-Border Financial Services

Digital innovations for cross-border are creating new risks, especially concerning cybersecurity



Cyber attack against Banco de Chile in 2018 **destroyed** 9,000 workstations and 500 servers, as well as **compromising** endpoint handling transactions on the SWIFT network.



The actions of the cybercriminals that **breached** the Russian Regional Bank resulted in **the enormous fluctuations** of the ruble-dollar exchange rate in 2015



Hackers can use the cross-border “messaging” system to send **false transactions**.
In the 2016 Bangladesh central bank heist, and breached the bank’s network to send **fraudulent transfer requests** through the SWIFT network, resulting in \$81 million of direct losses.

“The increasing use of these technologies, though, should be coupled with a strengthening of regulatory oversight over financial activities to safeguard financial stability, as new risks may surface [...] Financial digitalization trends heighten the need for cybersecurity to protect financial consumers and producers ”, highlighted by the IMF report submitted to G20 in 2018 (IMF, 2018)

Digital Trust

Digital Trust is the confidence in the integrity of the relationships, interactions and transactions among **providers** and **consumers** within an **associated digital ecosystem**. This includes the ability of people, organizations, processes, information and technology to **create and maintain a trustworthy digital world**.

Digital Ecosystem

Stakeholders



Regulator



User

Enterprise



People



Process



Tech



Data

Digital trust is the **basis** of the relationship between a **provider** and an **end-user** that gives the user **confidence** that the product or service is **honest, safe, effective, reliable, secure, private and transparent**. Digital trust **must** be all-encompassing for all organizations

Digital Trust Ecosystem: Why an Ecosystem?

1. Enterprises **don't operate** in a vacuum
2. **Dependence** on third-party goods and services
3. **Key stakeholders** in the ecosystem:
 - **Service/Product/Information provider**
 - **Service/Product/Information consumer**
 - **Third-party Service/Product/Information providers**
 - **Proxy technology**
 - **Digital peers**

Source: ISACA

STATE OF DIGITAL TRUST

2023

An ISACA Global Research Report

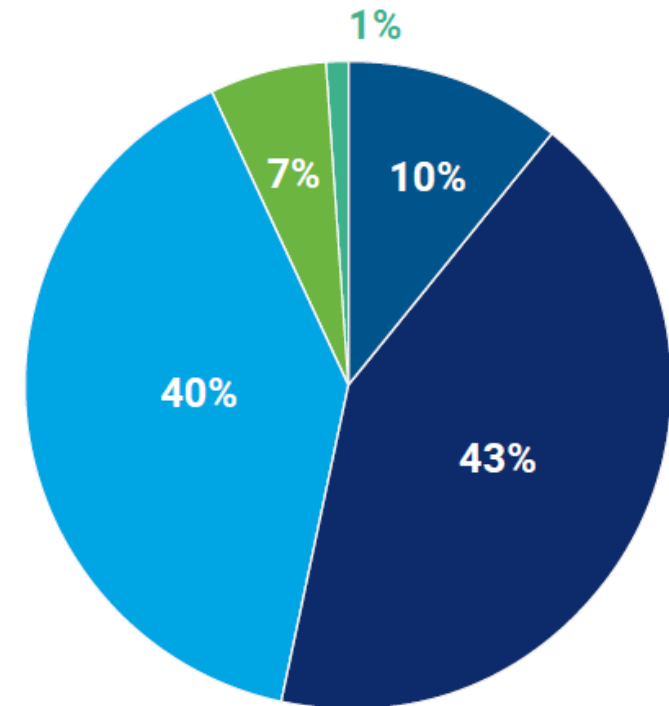
ISACA.

KEY FACTORS THAT CONTRIBUTE TO DIGITAL TRUST INCLUDE:

- **Quality:** Assure products and services meet or exceed expectations.
- **Availability:** Enable access to information and services in a timely manner.
- **Security and privacy:** Ensure all data are protected and kept confidential.
- **Ethics and integrity:** Live up to all promises.
- **Transparency and honesty:** Be truthful in how information is used and if it is compromised.
- **Resiliency:** Take steps to ensure organizational stability and agility.

FIGURE 4 – Digital Trustworthiness of Organizations

How confident are you in the digital trustworthiness of your organization?



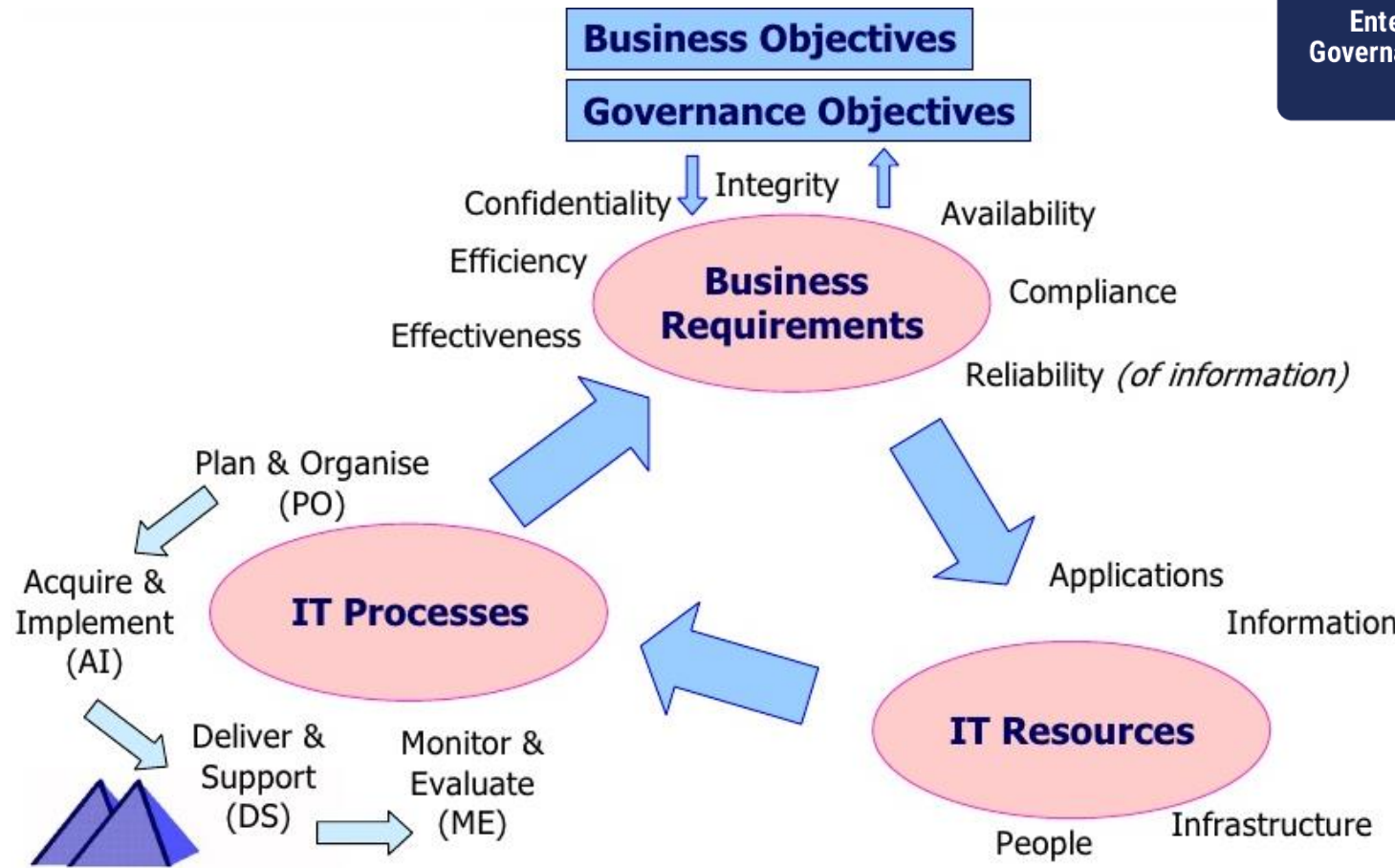
- Completely confident
- Very confident
- Somewhat confident
- Not so confident
- Not at all confident



Tantangan Internal dan Eksternal Organisasi



1. Governing IT sebagai bagian dari GCG Perusahaan



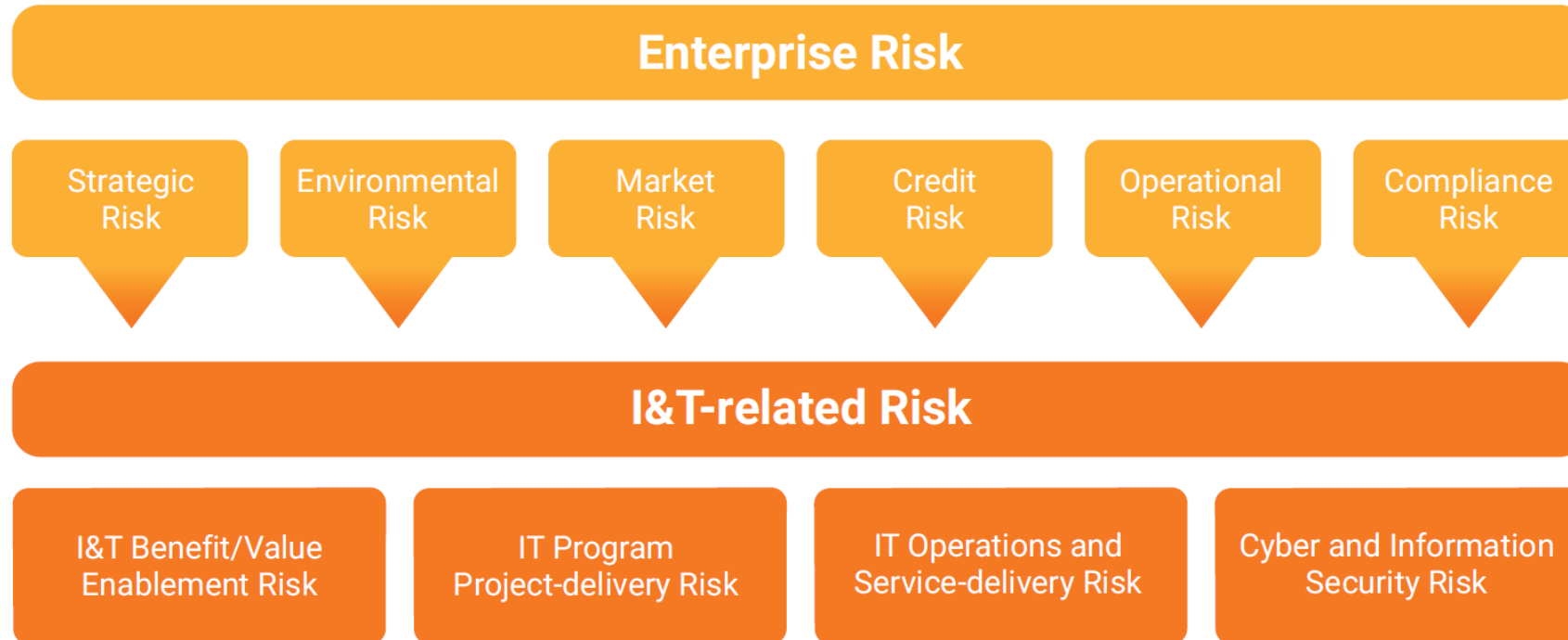
IT Governance helps aligned IT to business and governance objectives by managing IT Resources and IT Processes to achieve the objectives of:

- Benefits Realization
- Risk Optimization
- Resource Optimization



Source: ISACA

2. Information and Technology related Risks adalah bagian dari Enterprise Risk Management



- Information Security Risk as part of Enterprise Risk
- Information security should be embedded in Enterprise Risk Management

Source: ISACA

3. Adopsi Kerangka Governance dan Keamanan yang Banyak Digunakan

An IT security framework is a **series of documented processes** that define policies and procedures around the implementation and ongoing management of information security controls. These frameworks are a blueprint for **managing risk** and **reducing vulnerabilities**. Some internationally recognised information security standards, guidelines and **effective security practices** for reference:



The ISO/IEC 27001 standard provides companies of any size and from all sectors of activity with guidance for establishing, implementing, maintaining and continually improving an information security management system.

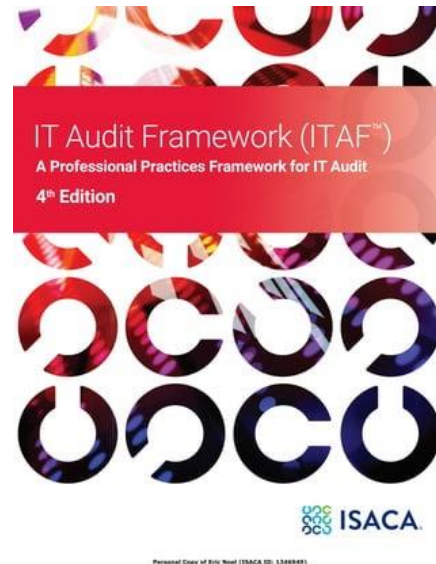
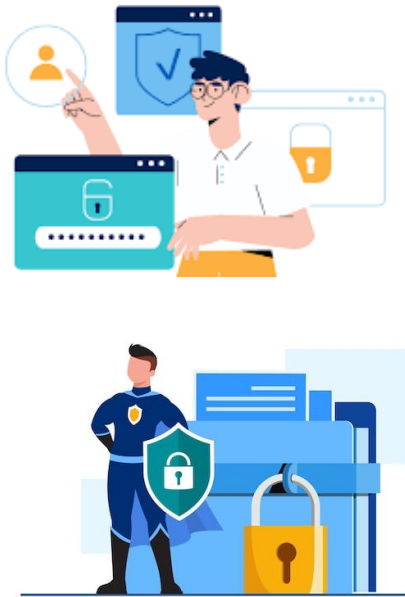


The framework is business focused and defines a set of generic processes for the management of IT, with each process defined together with process inputs and outputs, key process-activities, process objectives, performance measures and an elementary maturity model

4. Peran Audit Sistem Informasi menjadi makin diperlukan

Selain dorongan dari regulasi, memperoleh keyakinan internal maupun eksternal atas pengelolaan risiko teknologi informasi merupakan suatu kebutuhan yang semakin meningkat saat ini.

IT auditor yang kompeten dan professional diperlukan untuk dapat memastikan kecukupan pelaksanaan audit baik dalam mendukung audit internal perusahaan, maupun audit yang dilakukan oleh eksternal.



Cybersecurity Audit?

5. Digital Leadership yang juga fokus kepada pengelolaan risiko siber

Security Is **Not Only** For Security Teams, Because Attackers Will Look For And Exploit The **Weakest Link** In The Enterprise. **Leadership** is a **critical** component of cybersecurity, and CEOs must make it clear that every stakeholder shares **responsibility** for ensuring the enterprise's **safety**. The **Human Role** in Ensuring Security:

Employees

- Be vigilant, report suspicious emails and links.
- Comply with security policies

C-Level Executives

- Embed security into the business DNA.
- Take the lead on funding and endorsing cybersecurity

Security Personnel

- Organize, design and implement security programs.
- Proactively monitor and manage cyberthreats

The Board

- Take oversight of cybersecurity strategies.
- Authorize security budgets and initiatives

Human Resources

- Set cybersecurity expectations for new employees.
- Endorse controls to protect employee data



Source: ISACA





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