



الجامعة الإسلامية العالمية ماليزيا
INTERNATIONAL ISLAMIC UNIVERSITY MALAYSIA
يُونَيْتِيسِي أُسْلَامِيَّةُ اِنْتَرَا اِيْجِسِيَا مَلَيْسِيَا

Garden of Knowledge and Virtue

The 1st International Conference on Psychology, Health, and Humanity
UNIVERSITAS 'AISYIYAH YOGYAKARTA, 8 JULY 2023

WORK *within*

THE TECHNOLOGY & LEGAL LIMITS

on Developing Capabilities

Assoc. Prof. Dr. Sonny Zulhuda
Ahmad Ibrahim Kulliyah of Laws
International Islamic University Malaysia

The Objectives of the Presentation:

- ✓ “Work” in the Islamic Perspective
- ✓ Transformation of Work and Workplace today
- ✓ Technological hazards and the legal risks
- ✓ The control measures

Work: The Islamic Worldview

He it is Who appointed you vicegerents upon the earth and raised some of you by degrees above others, that He may try you in that which He has given you.

Tell 'them, O Prophet', "Do as you will. Your deeds will be observed by Allah, His Messenger, and the believers. And you will be returned to the Knower of the seen and unseen, then He will inform you of what you used to do."

قُلْ ۗ وَهُوَ الَّذِي جَعَلَكُمْ خَلَائِفَ الْأَرْضِ وَرَفَعَ بَعْضَكُمْ فَوْقَ بَعْضٍ دَرَجَاتٍ لِّيَبْلُوكُمْ فِي مَا آتَاكُمْ
AL-AN'AM (6): 165

وَقُلْ أَعْمَلُوا فَسَيَرَى اللَّهُ عَمَلَكُمْ وَرَسُولُهُ وَالْمُؤْمِنُونَ
وَسَتُرَدُّونَ إِلَىٰ عِلْمِ الْغَيْبِ وَالشَّهَادَةِ فَيُنَبِّئُكُمْ بِمَا كُنْتُمْ
تَعْمَلُونَ
AT-TAUBAH (9): 105



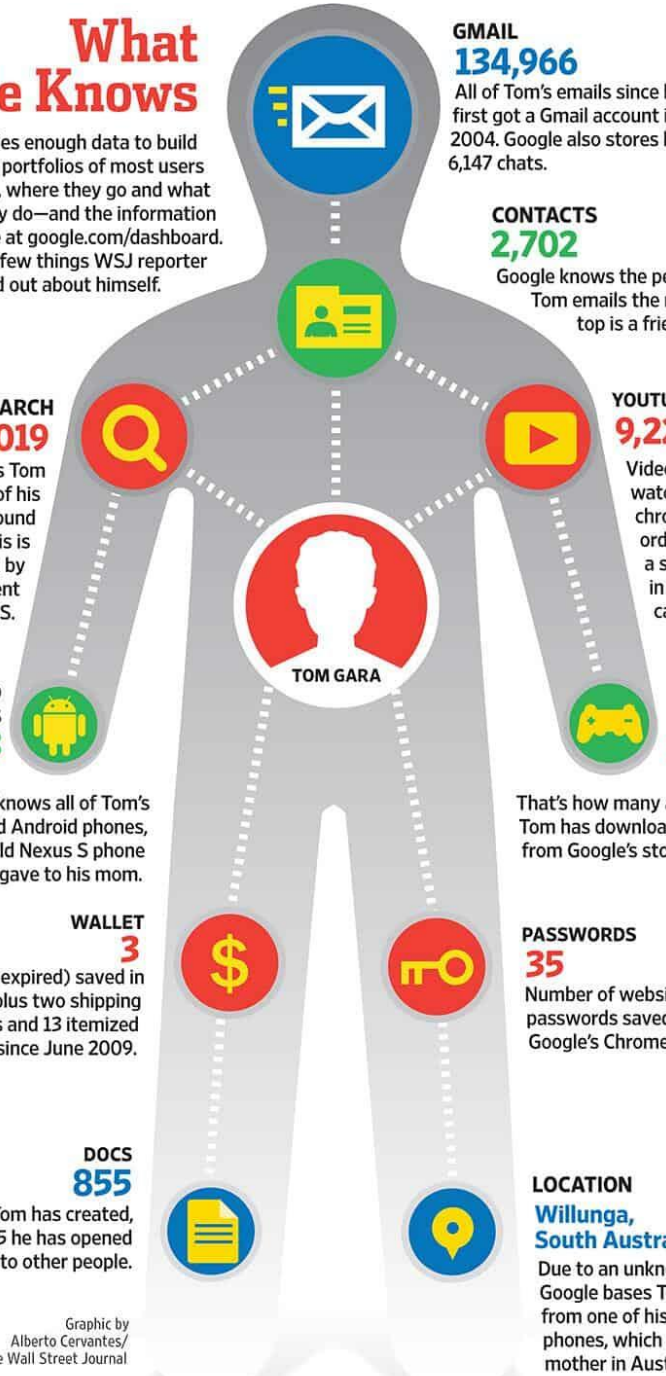
THE WORKPLACE TODAY:

1. Work from everywhere
2. More automated, less human interaction – job reduction!
3. Communications and meeting over sync'd devices
4. Web presence gets crucial (Website, Social media pages, Reels, Geolocation, Online rating, etc.)
5. Work deliveries online
6. Reliance on the Internet
7. Data as a resource and commodity

DATAFICATION

What Google Knows

Google compiles enough data to build comprehensive portfolios of most users—who they are, where they go and what they do—and the information is all available at google.com/dashboard. Here are just a few things WSJ reporter Tom Gara found out about himself.



EMAIL 134,966

All of Tom's emails since he first got a Gmail account in 2004. Google also stores his 6,147 chats.

CONTACTS 2,702

Google knows the people that Tom emails the most. At the top is a friend in Egypt.

YOUTUBE 9,220

Videos Tom has watched, listed in chronological order, including a series viewed in June about canoes.

GOOGLE PLAY 117

That's how many apps Tom has downloaded from Google's store.

PASSWORDS 35

Number of website passwords saved in Google's Chrome browser.

LOCATION Willunga, South Australia

Due to an unknown glitch, Google bases Tom's location from one of his old Android phones, which he gave to his mother in Australia.

GOOGLE SEARCH 64,019

Google thinks Tom performs most of his searches around 8 a.m. ET, but this is probably skewed by years spent outside the U.S.

ANDROID DEVICES 3

Google knows all of Tom's synched Android phones, including the old Nexus S phone that he gave to his mom.

WALLET 3

Credit cards (two expired) saved in Google Wallet, plus two shipping addresses and 13 itemized purchases since June 2009.

DOCS 855

Documents Tom has created, plus the 115 he has opened that belong to other people.

Social media posts, likes, loves, mentions, threads, shares, comments, follows, subscribes, emoticons, etc.

Travels, locations, wearables, cookies, transactions, pictures, blogs, vlogs, logs, etc.

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Graphic by Alberto Cervantes/
The Wall Street Journal

DATAFICATION



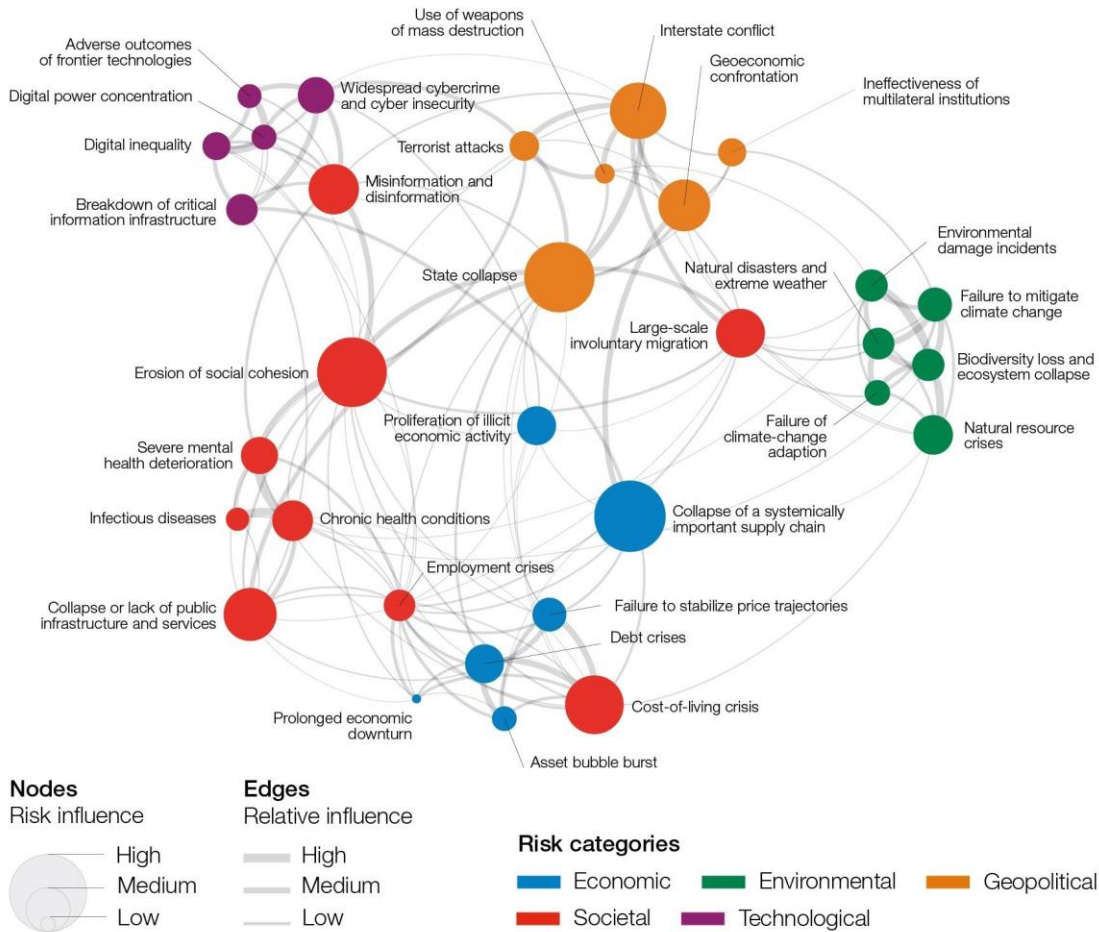
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DATA



Global risks landscape: an interconnections map



Source: World Economic Forum, Global Risks Perception Survey 2022-2023

The top TECHNOLOGICAL & LEGAL RISKS in 2023 (The World Economic Forum):

A. Technological:

- Cybercrime & cyber insecurity
- Attack to critical infrastructure
- Digital inequality
- Adverse outcome (e.g. AI, big data)

B. Legal:

- Misinformation and disinformation
- Environmental damage
- Employment crises

DIGITAL WORKPLACE HAZARDS:

1. Algorithmic failure
2. Less security backup
3. Digital law risks:
 - Defamation
 - Misinformation
 - Data breach
 - Intellectual property risks
 - Data obesity
4. Connected but 'detached'
5. Digital burnout



Potentially deadly bomb ingredients are 'frequently bought together' on Amazon



Siobhan Kennedy
Washington Correspondent

A Channel 4 News investigation can reveal how Amazon's algorithm can guide users to the chemical combinations for producing explosives.

Google Photos Tags Two African-Americans As Gorillas Through Facial Recognition Software



Maggie Zhang Forbes Staff
Tech

I write about technology, innovation, and startups.

Follow

Instagram uses 'I will rape you' post as Facebook ad in latest algorithm mishap

When Guardian reporter Olivia Solon was sent a rape threat, she posted a screenshot on Instagram. Then the Facebook-owned company made it an ad



Julieanne Smolinski
@BoobsRadley

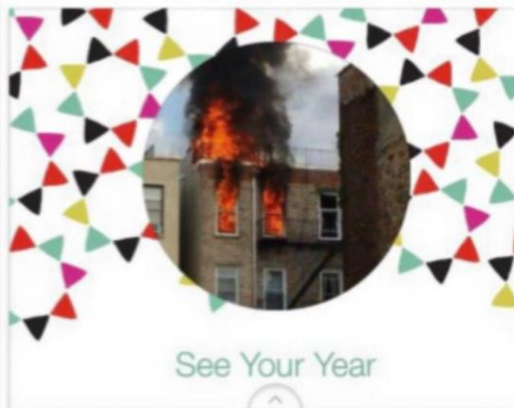
Follow

So my (beloved!) ex-boyfriend's apartment caught fire this year, which was very sad, but Facebook made it worth it.

Your Year In Review

James, here's what your year looked like!

🔒 Only you can see this



9:18 PM - 28 Dec 2014

3,214 Retweets 4,143 Likes



Algorithmic Failures

Tesla Fires Back After Fatal Model S Autopilot Crash

Fortune this week examined the timing between the deadly accident and a huge stock sale by Tesla and CEO Elon Musk.



By Angela Moscaritolo July 7, 2016



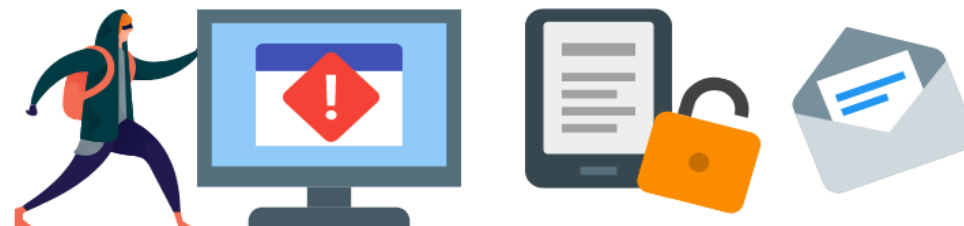
Dear Eric Griffith,

Earlier today, we accidentally sent you an email from Amazon Baby Registry. We apologize for any confusion this may have caused.

Sincerely,

The Amazon Baby Registry Team

Major Known Data Breaches in Tech 2022



\$12B USD Apple + Meta

Meta agreed to settle a lawsuit that alleged Facebook illegally shared data for political purposes in 2016.



2B Data Records TikTok (Rumored)

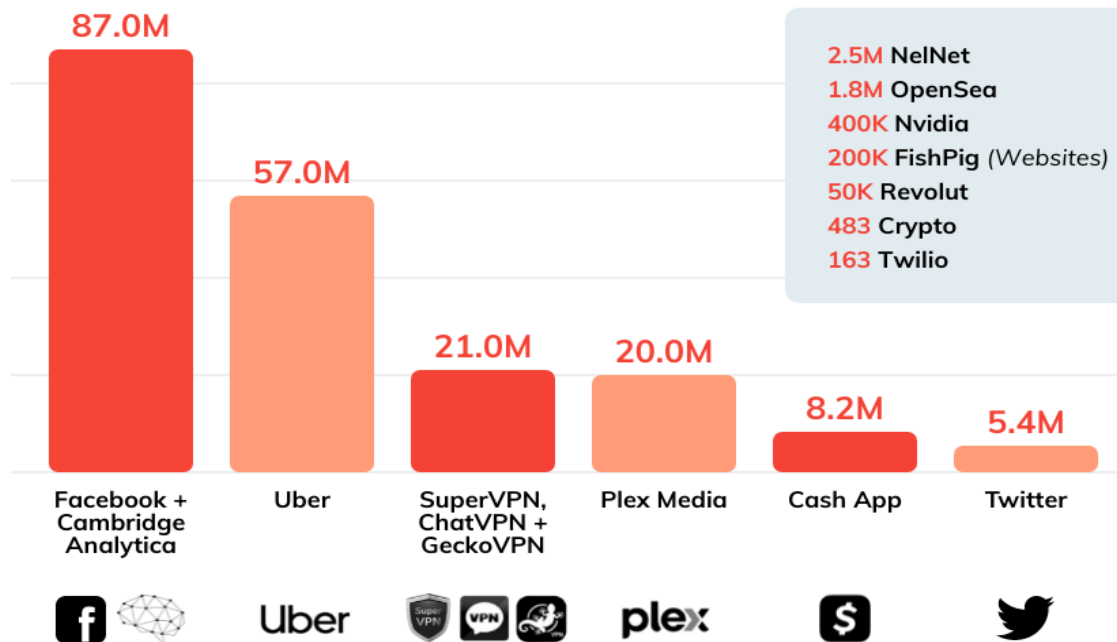
Security experts declared the evidence of hacking the company's backend source code is inconclusive.



Data Unknown Samsung and Uber

The companies haven't yet declared the impact of the cyber attacks that occurred in September.

of Users Impacted in 2022



Sources: bit.ly/3qZ9236 *Data gathered up to September 2022

Read the full blog post at: venngage.com/blog/data-breach-2022/



Data Breach Incidents – in the past two years*



BPJS Kesehatan
Badan Penyelenggara Jaminan Sosial



komisi pemilihan umum



eHAC Indonesia
Health Quarantine MoH Indonesia



Lazada

facebook
Indonesia

BRIlife



tokopedia



bukalapak

BHINNEKA



RedDoorz

kreditplus

PT. KB FINANSIA MULTI FINANCE

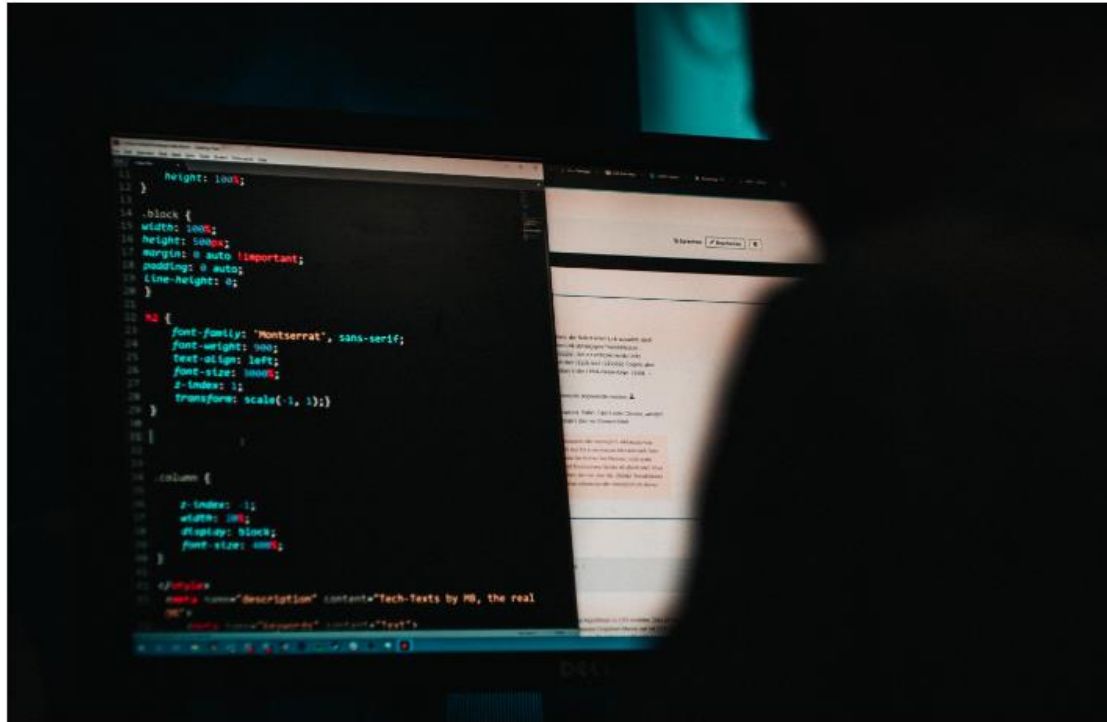
<https://nasional.kompas.com/read/2021/09/03/18445501/deretan-kasus-kebocoran-data-pribadi-dalam-dua-tahun-terakhir>



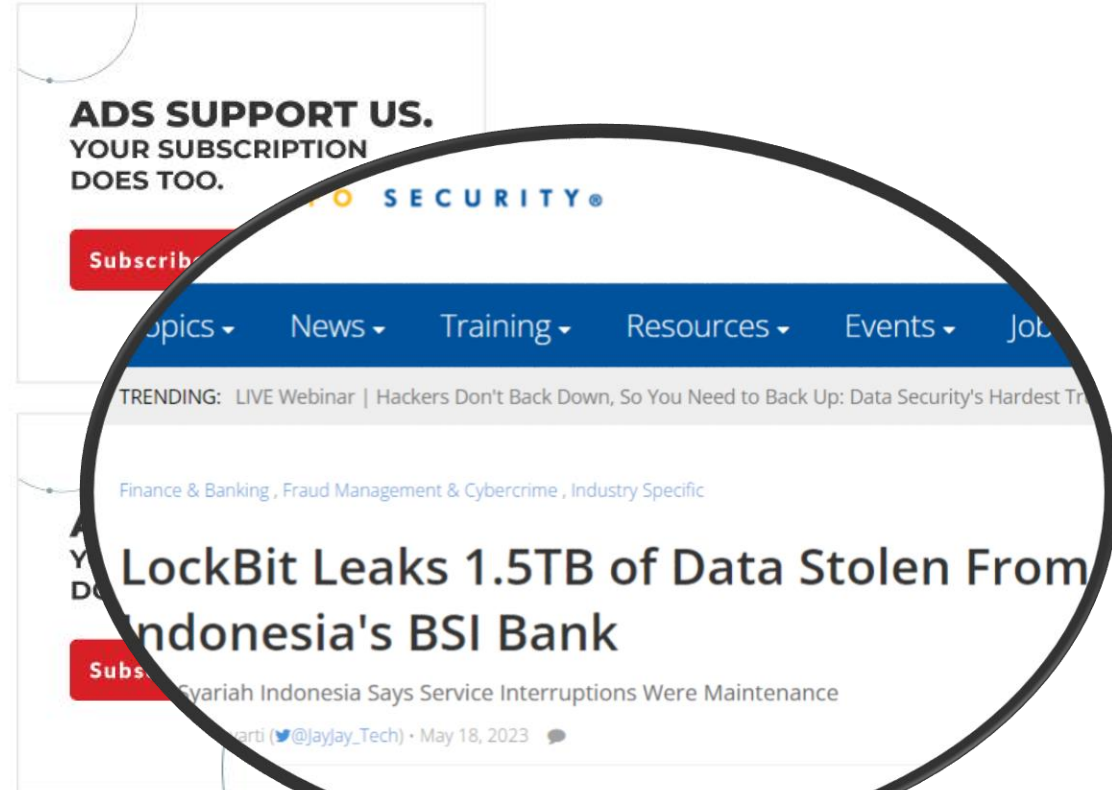
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PAPER EDITION • TODAY'S PAPER

Data breaches still haunt Indonesia as BSI becomes latest victim



Hackers, who talked to The Jakarta Post, say that the security quality of many official Indonesian websites makes it easy for them to hack. (Unsplash/Mika Baumeister)



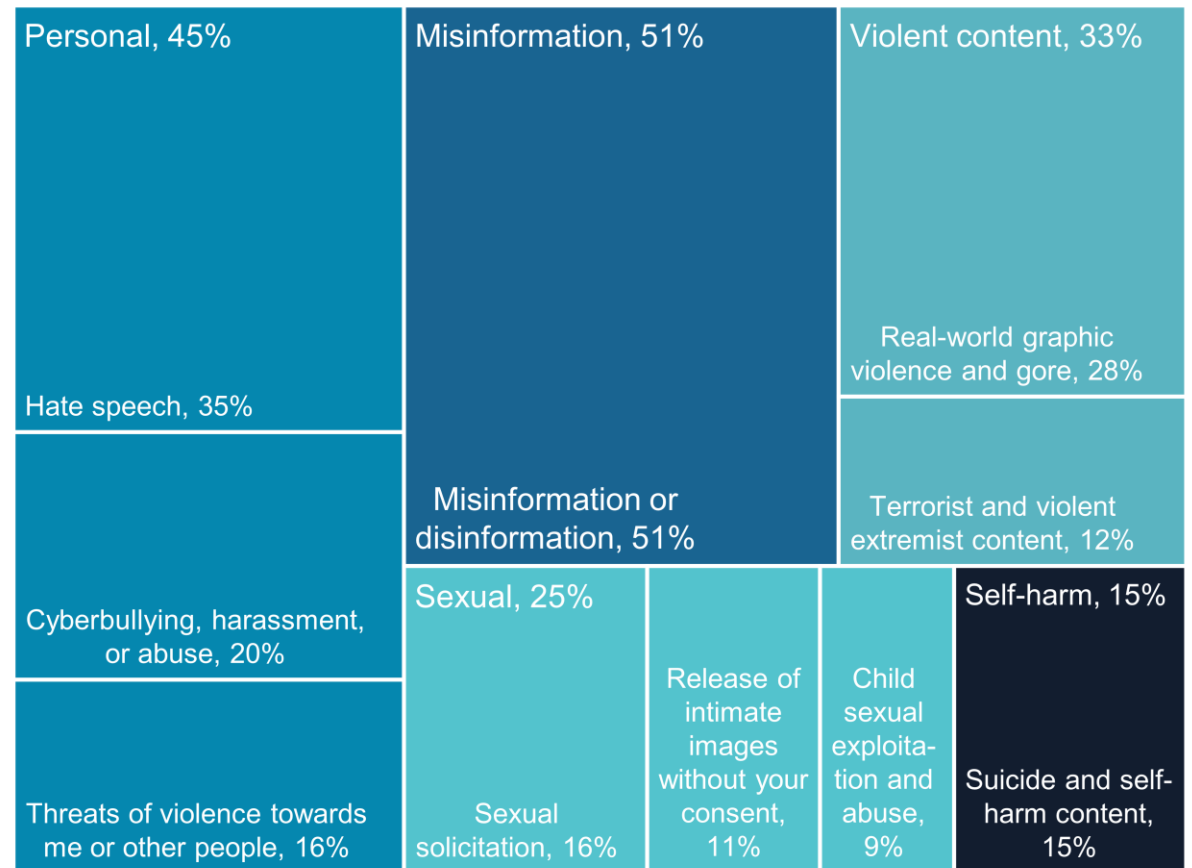
Most Viewed

- 01 Me-WOW: 3D billboard ad greets busy Jakarta commuters
- 02 Analysis: Indonesia today more

The single most common ONLINE RISK was misinformation, disinformation, followed closely by personal attacks

- The single most prevalent risk reported was misinformation or disinformation (51%), followed closely by Personal Risks (45%). One-quarter report Sexual Risks, with Child sexual exploitation and abuse the least reported risk (9%)
- Parents of younger children (6-12) reported higher levels of risk than parents of teens 13-17 on Cyberbullying, harassment or abuse (21%, 17%)

Source: Global Online Safety Survey 2023 by Microsoft and TRG



Base: Total, N=16,222

* Example: Mis or disinformation about Covid vaccines



CONTROL MEASURES?

1. Leadership
2. Literacy
3. Compliance with law
4. Data culture: Knowledge-based, value driven

DIGITAL CIVILITY CHALLENGE

(By Microsoft)



Live the golden rule

I will act with empathy, compassion, and kindness in every interaction, and treat everyone with dignity and respect.



Respect differences

I will appreciate cultural differences and honor diverse perspectives. When I disagree, I will engage thoughtfully and avoid name calling and personal attacks.



Pause before replying

I will pause and think before responding to things I disagree with. I will not post or send anything that could hurt someone else, damage someone's reputation, or threaten anyone's safety, including my own.



Stand up for myself and others

I will tell someone if I feel unsafe, offer support to those who are targets of online abuse or cruelty, report activity that threatens anyone's safety, and preserve evidence of inappropriate or unsafe behavior.

Takeaways

01

As the work evolves with the surrounding changes, we shall keep on learning

02

With more leverage to come, **NEW RISKS** are coming, but fundamental principles remain

03

IR 4.0 is innovation-driven - law is the carrier, not barrier

04

Together with leadership, literacy and law; Data culture is a continuing process



References

1. Mary Aiken (2016). “The Cyber Effect: A Pioneering Cyber-psychologist Explains how Human Behavior Changes Online.” Random House Publishing Group.
2. K. Cukier, V. Mayer-Schönberger, Mircea Pitici. (2014). “The Rise of Big Data: How It’s Changing the Way We Think about the World.” History.
3. Shoshana Zuboff (2019). “The Age of Surveillance Capitalism: The Fight for a Human Future at the New Frontier of Power.” London: Profile Books Ltd.
4. Sonny Zulhuda (2021) “Advokasi hak digital di era pandemi.” In: Santri Mengaji Pandemi: Refleksi, Solusi dan Aksi. Mata Kata Inspirasi, pp. 150-156.
5. Microsoft & TRG (2023). “Global Online Safety Survey 2023 : Parents’ and kids’ perceptions of online safety.”
6. World Economic Forum (2023). “Global Risks Report 2023.”



THANK YOU

DR SONNY ZULHUDA



sonny@iium.edu.my



sonnyzulhuda.com



twitter.com/zulhuda

SCOPUS ID: 35782606500

ORCID ID: 0000-0003-0192-1971

GOOGLE SCHOLAR ID: [B99CpLkAAAAJ&hl](https://scholar.google.com/citations?user=B99CpLkAAAAJ&hl)

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