

Digital Transformation in Investing: Building a Portfolio for Generation Z

Doddy Prayogo
(Doddy Bicara Investasi)

GALERI INVESTASI ANNIVERSARY 20

*Laboratorium Galeri Investasi FISIP UPN "Veteran" Jawa Timur
Surabaya, 21 September 2024*





Doddy Prayogo, S.T., M.T., M. Sc., Ph. D

- Dosen Teknik Sipil di Universitas Kristen Petra, Surabaya
- Investor sejak 2013
- Content Creator sejak 2019 (Doddy Bicara Investasi)

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Menjadi Kaya,
Bukan Terlihat
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Simulasi
Investasi

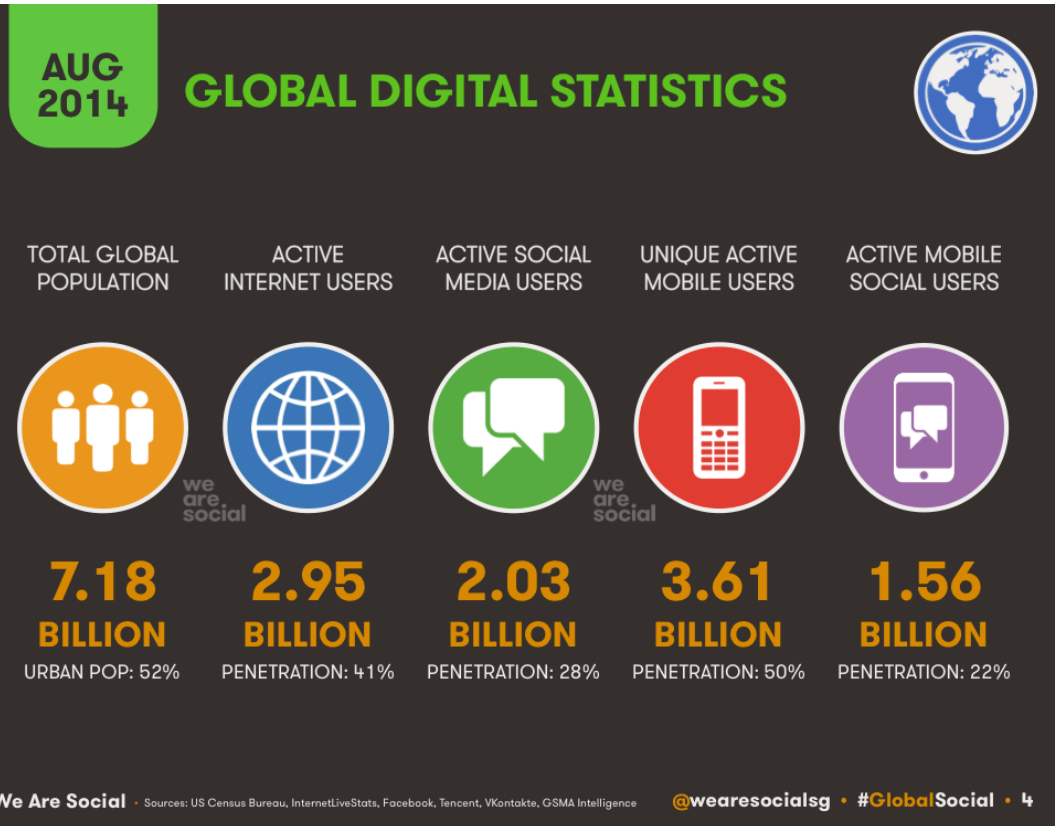
Why now?

- Faster computing
- Ubiquitous devices (mobile phones, pads, Apple Watch, vehicles, etc.)
- Larger and smaller memory
- Faster and more reliable internet
- More efficient and more intelligent algorithms

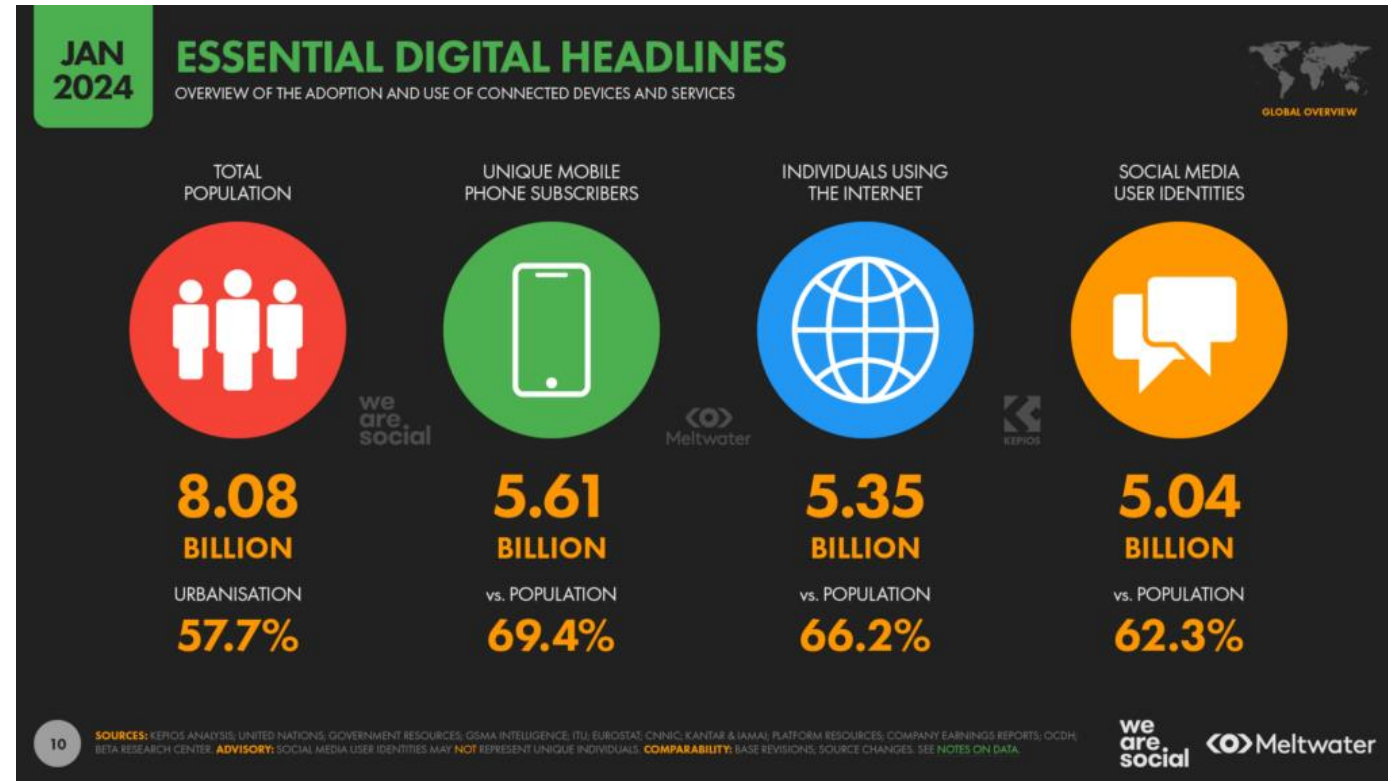
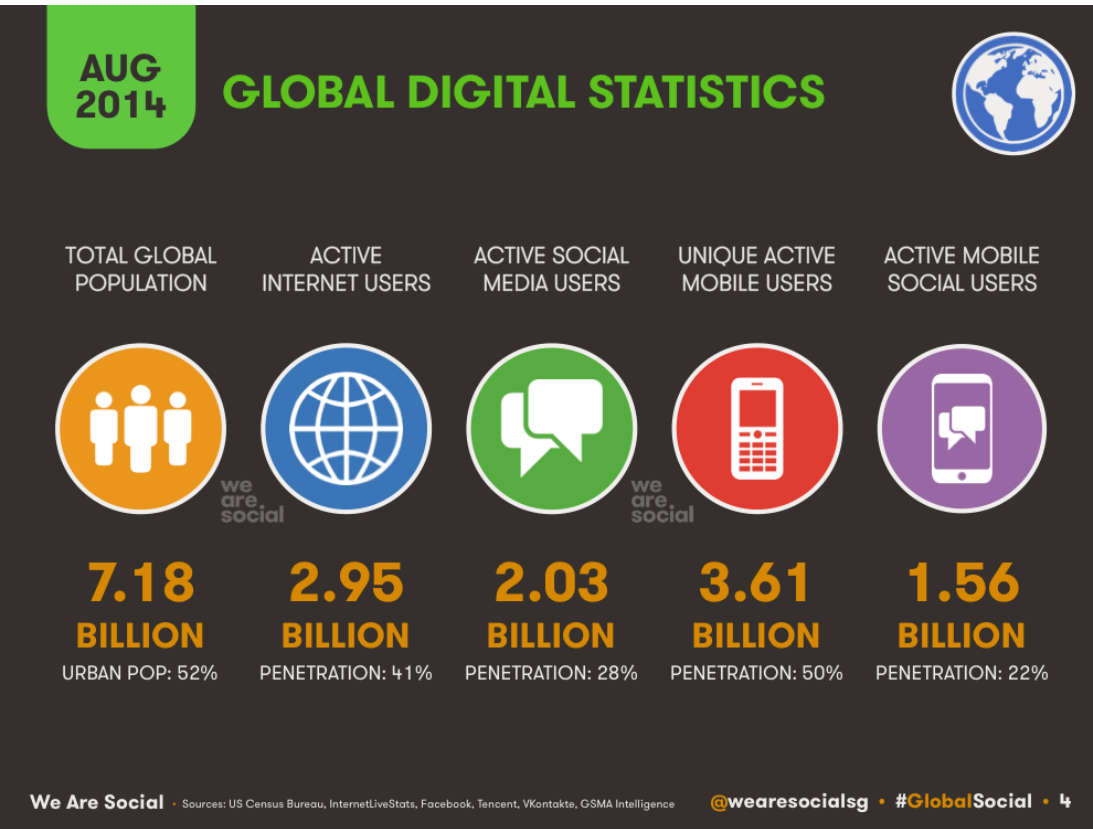
In 1956, a forklift is needed to put a 5-megabyte hard drive, then the size of two refrigerators. Today, you can buy a 16-gigabyte flash drive for \$60 that fits on a keychain.



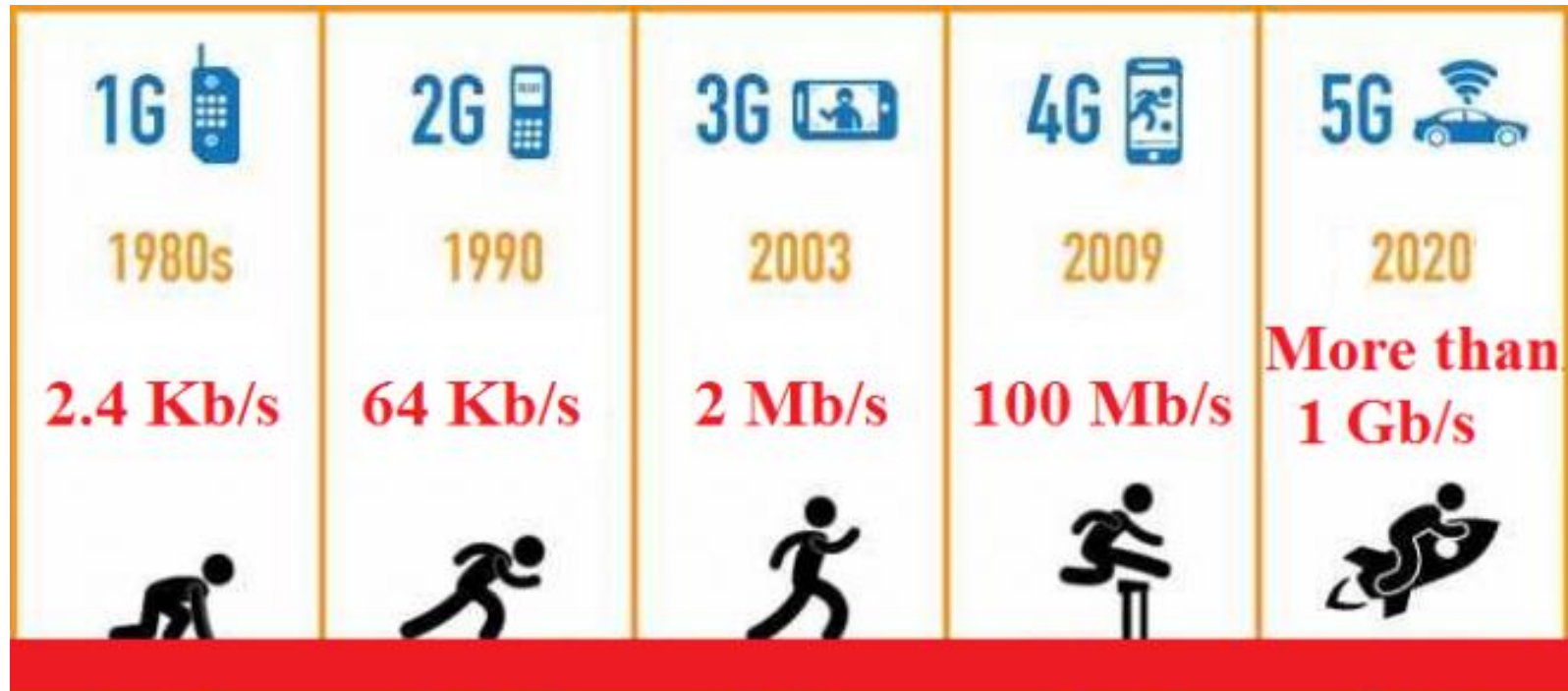
Ubiquitous devices



Ubiquitous devices



How fast is enough?



ItInfoZone

1 The accelerating pace of change ...



2 ... and exponential growth in computing power ...

Computer technology, shown here climbing dramatically by powers of 10, is now progressing more each hour than it did in its entire first 90 years

COMPUTER RANKINGS

By calculations per second per \$1,000



Analytical engine
Never fully built, Charles Babbage's invention was designed to solve computational and logical problems



Colossus
The electronic computer, with 1,500 vacuum tubes, helped the British crack German codes during WW II



UNIVAC I
The first commercially marketed computer, used to tabulate the U.S. Census, occupied 943 cu. ft.



Apple II
At a price of \$1,298, the compact machine was one of the first massively popular personal computers



Power Mac G4
The first personal computer to deliver more than 1 billion floating-point operations per second

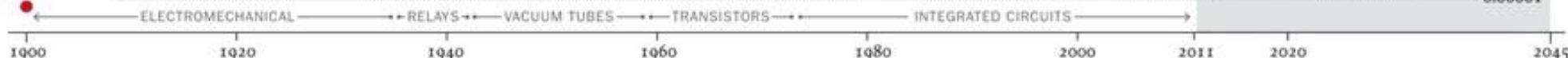
3 ... will lead to the Singularity

2045
Surpasses brainpower equivalent to that of all human brains combined

Surpasses brainpower of human in 2023



Surpasses brainpower of mouse in 2015



[Reddit](#)

New Economy

**Digital is
becoming
ordinary**



digital has sapped into many aspects
of business. digital is already
ordinary.



Old Business vs New Business

- Lock on supply
 - Low cost win
 - Business wins
 - Win by gaining pricing power
- Lock on customer
 - Best user experience wins
 - Customer wins
 - Win by building better products (solve user needs, acquired users)







Indonesia Fintech Map

Payment



Lending



Personal Finance & Wealth Management



Comparison



Insurtech



Crowdfunding



POS System



Crypto & Blockchain



Accounting



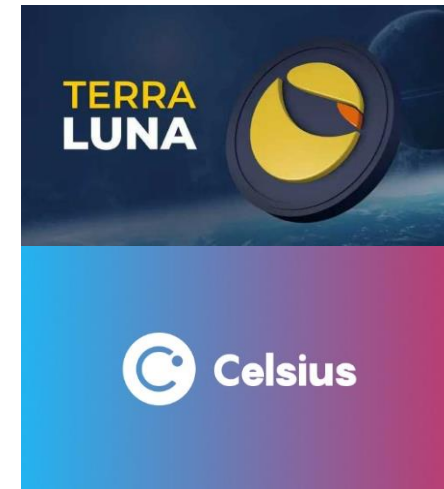
Terjebak Investasi Digital Bodong / Illegal



Robo Trading



Binary Options



Crypto Fraud

BAGIKAN:



Bagaimana Robot Trading Fahrenheit Mengambil Uang dari Korbannya?

KOME

[Kompas.com](#) / [Money](#) / [Earn Smart](#)

Bagaimana Robot Trading Fahrenheit Mengambil Uang dari Korbannya?

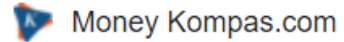
Kompas.com - 26/03/2022, 20:20 WIB

BAGIKAN:



Komentar

Ia juga bilang, ada anggota yang dijanjikan profit 30 persen sebulan dan profit sehari sebesar 1 persen. Namun, di awal investasi para anggota diharuskan membeli robot trading sebesar 10 persen dari nominal dana investasi yang disetor.



Waspada Binary Option, "Judi Online" Berkedok Trading Online - Kompas.com

Berbagai jenis platform binary option sebenarnya telah berkali-kali diblokir oleh Bappebti, seperti yang paling dikenal masyarakat, Binomo.

Jan 31, 2022



INSIGHT INVESTASI KEUANGAN INDUSTRI NASIONAL INTERNASIONAL PERSONAL FINANCE

NACIONAL /

Bareskrim: Total Kerugian dari 118 Korban Binomo Capai Rp 72 Miliar

Kamis, 21 April 2022 / 12:13 WIB

Komponen Investasi



MODAL



CASHFLOW



WAKTU



PASIF

Komponen Investasi



MODAL



CASHFLOW



WAKTU



PASIF

+



Tipe Instrumen Investasi



Physical Asset

- Emas
- Properti



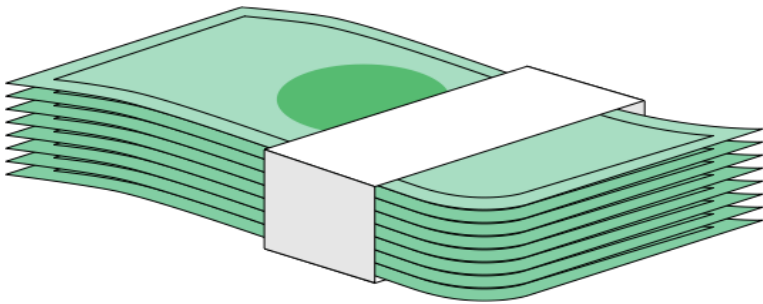
Financial Asset

- Deposito
- Obligasi
- Reksadana
- Saham IDX
- Saham US



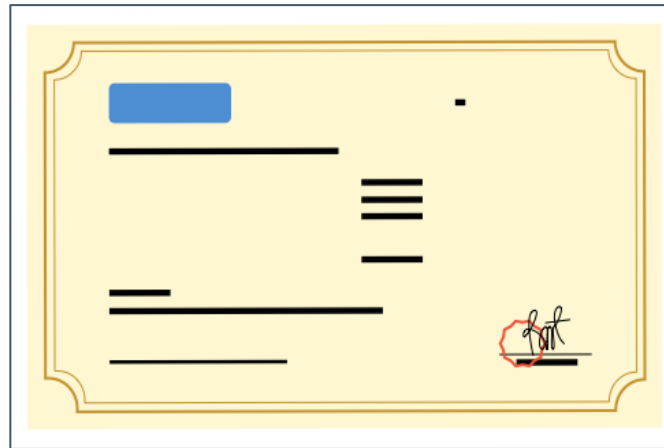
Digital Asset

- Bitcoin
- Altcoin



1. Deposito

- Bank Umum (max 4.25% p.a.)
- BPR (max 6.75% p.a.)
- SBN Ritel (ORI, SR, SBR, ST) – 6.4% p.a.
- FR, SBSN, dkk (6 – 7% p.a.)
- Obligasi korporasi (7% p.a.)



2. Obligasi



3. Saham

- Bluechip
- Second/Third liner

1. Deposito



2. Obligasi



3. Saham



1. Deposito

Deposito Paling Diminati

6% p.a.

6 bulan

Mulai dari Rp 1.000.000

Buka Deposito >

5% p.a.

1 bulan

Mulai dari Rp 1.000.000

Buka Deposito >

5,5% p.a.

3 bulan

Mulai dari Rp 1.000.000

Buka Deposito >

7 hari

Periode singkat; Bunga tinggi

5,5% p.a.

Bunga

Rp100 rb

Mulai dari

Buka

1 bulan

Bunga tinggi; Periode singkat

6,25% p.a.

Bunga

Rp100 rb

Mulai dari

Buka

tinggi

Depositokan danamu da

3 bulan

0 biaya admin; Bunga tinggi

6,75% p.a.

Bunga

Rp100 rb

Mulai dari

Buka

6 bulan

Setoran ringan; Bunga fantastis

7,5% p.a.

Bunga

Rp100 rb

Mulai dari

Buka

3 Bulan

6,75% p.a

Minimum Deposito

Rp1.000.000

Jawa Timur | 34412 Transaksi

PT BPR KIRANA INDONESIA

Proses Cepat

E-Deposito

...

1 Bulan

6,75% p.a

Minimum Deposito

Rp20.000.000

Jawa Timur | 9515 Transaksi

PT BPR KIRANA INDONESIA

Proses Cepat

E-Deposito

...

1 Bulan

5% p.a

Minimum Deposito

Rp50.000.000

Jawa Timur | 66 Transaksi

PT BPR KIRANA INDONESIA

Proses Cepat

E-Deposito

...

2. Obligasi



SR021-T5

Sukuk Ritel

Imbal Hasil	Kuota Tersisa	Jatuh Tempo
6.45%	10.03%	10 Sep 2029

Periode Pembelian
23 Agt 2024 - 18 Sep 2024



SR021-T3

Sukuk Ritel

Imbal Hasil	Kuota Tersisa	Jatuh Tempo
6.35%	1.15%	10 Sep 2027

Periode Pembelian
23 Agt 2024 - 18 Sep 2024



ORI025-T6

Obligasi Negara Ritel

Imbal Hasil	Kuota Tersisa	Jatuh Tempo
6.4%	9.21%	15 Feb 2030

Periode Pembelian
29 Jan 2024 - 22 Feb 2024



ORI025-T3

Obligasi Negara Ritel

Imbal Hasil	Kuota Tersisa	Jatuh Tempo
6.25%	3.09%	15 Feb 2027

Periode Pembelian
29 Jan 2024 - 22 Feb 2024



FR0081

Obligasi FR

Yield	Harga Beli	Jatuh Tempo
5.91%	100.40%	15 Jun 2025



PBS036

FR Syariah

Yield	Harga Beli	Jatuh Tempo
5.72%	99.70%	15 Agt 2025



FR0086

Obligasi FR

Yield	Harga Beli	Jatuh Tempo
5.99%	99.28%	15 Apr 2026



PBS038

FR Syariah

Highest Yield

Yield	Harga Beli	Jatuh Tempo
6.80%	100.90%	15 Des 2049



FR0089

Obligasi FR

Yield	Harga Beli	Jatuh Tempo
6.77%	101.29%	15 Agt 2051



FR0102

Obligasi FR

Yield	Harga Beli	Jatuh Tempo
6.73%	101.85%	15 Jul 2054

3. Saham



Market Summary > IDX Composite

7.616,52

3 Sept, 16.00 WIB • Disclaimer

✓ Following

1D | 5D | 1M | 6M | YTD | 1Y | 5Y | Max



Open	6.859,38	Low	6.821,51	52-wk high	7.454,45
High	6.866,27	Prev close	6.855,69	52-wk low	6.622,18

IHSG

1982: 100

2024: 7616

CAGR: 10.9% p.a.

SEKURITAS



Follow us



Mulai Investasi

Belajar Saham

Perusahaan Sekuritas

Inspirasi Investasi

What's on IDX

Tentang
Yuk Nabung Saham

KONTAK

F.A.Q

PERUSAHAAN SEKURITAS

Berikut list perusahaan sekuritas untuk Yuk Nabung Saham



▼ 4,798.88
-2.49%
IDX COMPOSITE
-122.52
929 M
1,658 B

TOP 5 GAINERS

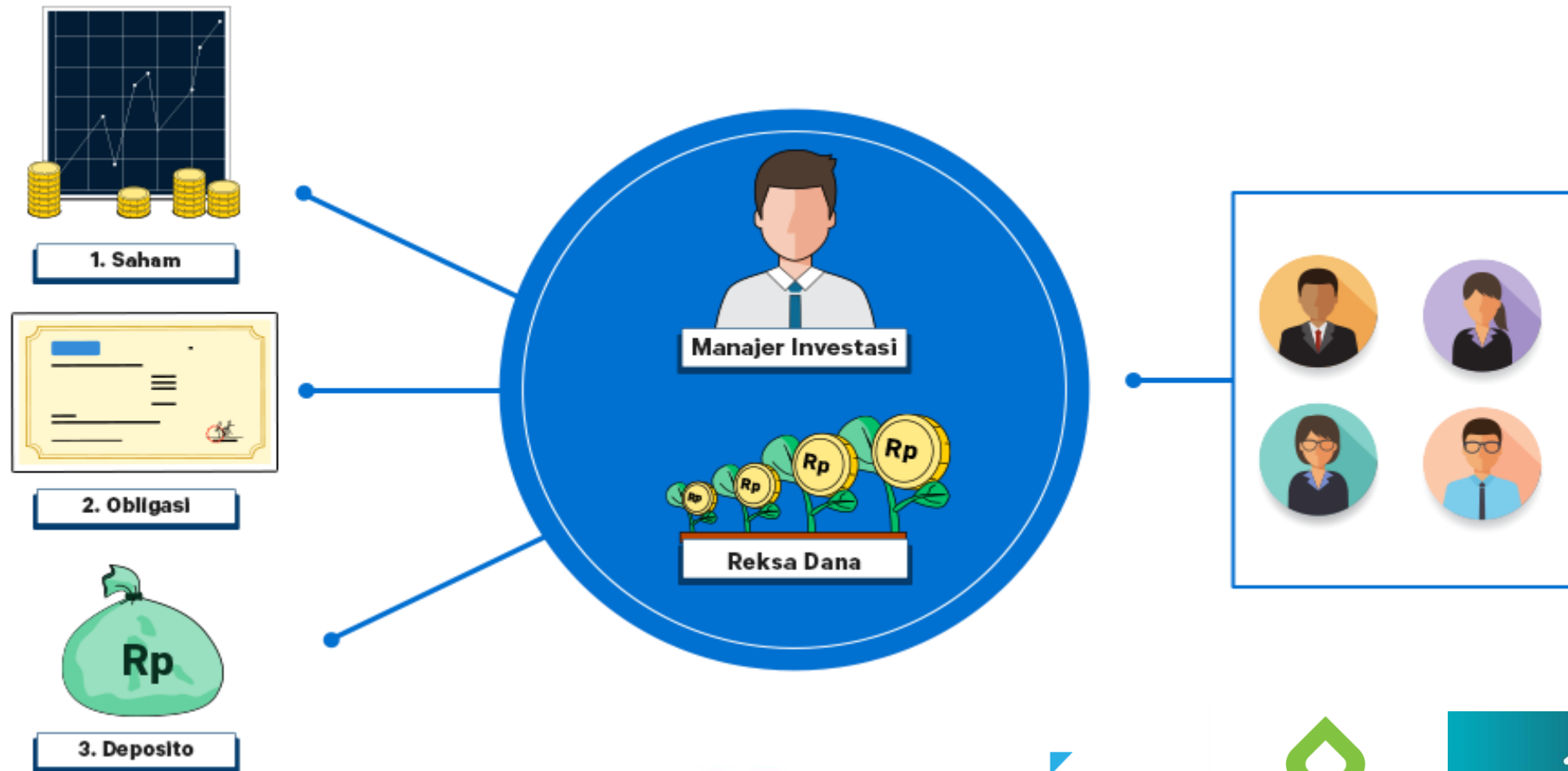
STOCK	PRICE	CHANGE
1. BLT	144	9.92%
2. BLT	114	3.64%
3. BLT	50	2.94%

TOP 5 LOSERS

STOCK	PRICE
1. SMRA	1,020
2. PTPP	1,755
3. LAPD	62
4. WKA	2,260
5. BEST	570

BLTZ
1,495 ▲
Change 16.5% 495

REKSA DANA



 **bibit**  **ipot**



RDPU

1		Trimegah Kas Syariah		5.13% 1Y Return
2		BRI Seruni Pasar Uang III		5.09% 1Y Return
3		Bahana Likuid Syariah Kelas G		5.02% 1Y Return
4		TRIM Kas 2 Kelas A		4.95% 1Y Return
5		Majoris Pasar Uang Syariah Indonesia		4.95% 1Y Return

RDPT

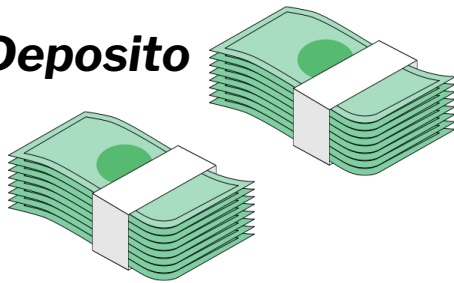
1		ABF Indonesia Bond Index Fund		6.57% 1Y Return
2		Manulife Obligasi Negara Indonesia II Kelas A		5.56% 1Y Return
3		Manulife Obligasi Unggulan Kelas A		4.54% 1Y Return
4		Eastspring Syariah Fixed Income Amanah Kelas A		3.87% 1Y Return
5		BNI-AM Dana Pendapatan Tetap Syariah Ardhani		3.78% 1Y Return

RDS

1		Trimegah FTSE Indonesia Low Volatility Factor Index		3.92% 1Y Return
2		TRIM Kapital Plus		3.54% 1Y Return
3		BNI-AM Indeks IDX30		2.82% 1Y Return
4		BNP Paribas SRI KEHATI		2.46% 1Y Return
5		Sucorinvest Equity Fund		-2.87% 1Y Return

Risk

Deposito



**RD Pasar
Uang**

Obligasi



**RD Pend.
Tetap**

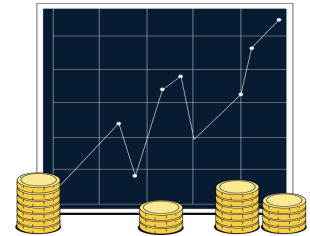


Properti

**RD Saham /
ETF**



Saham



Return





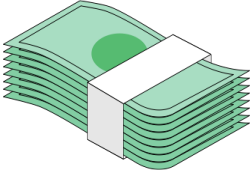
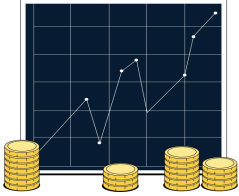
Seth Klarman
Value Investor

“

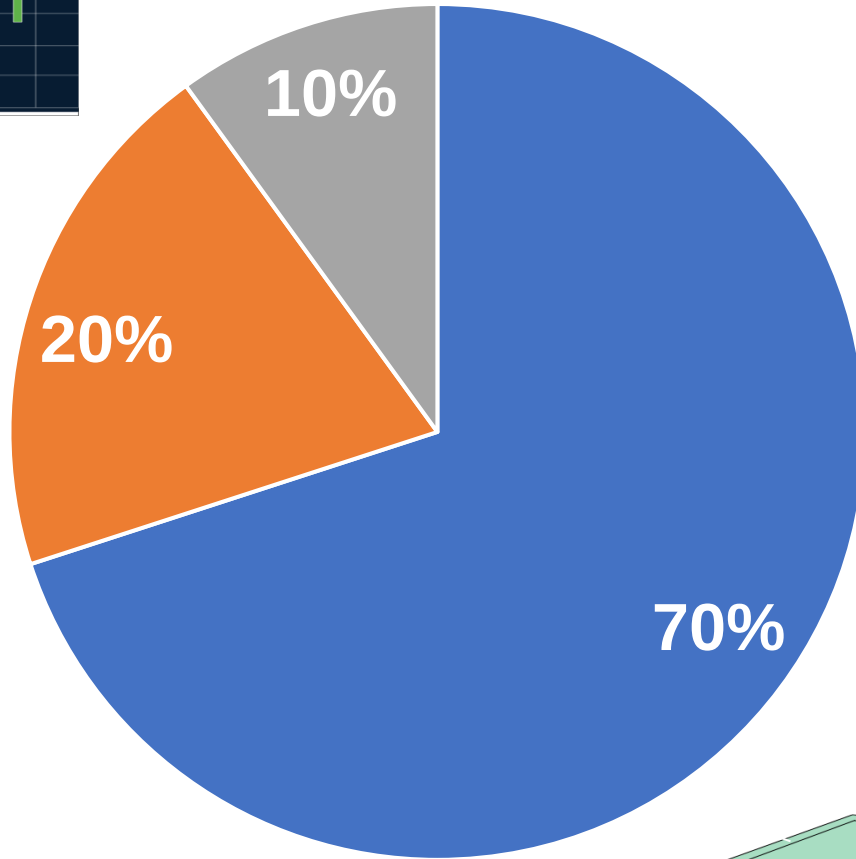
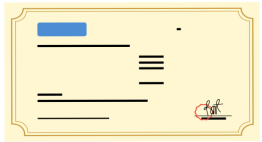
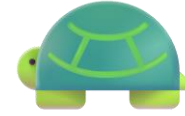
Ultimately,
nothing should be more
important to investors
than the ability to
sleep soundly at night.

”

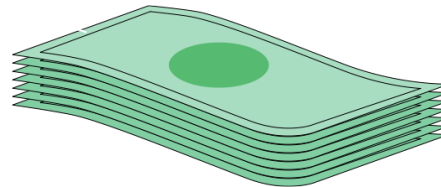


		Return (Avg % CAGR)	Volatility (Max. Drawdown)
Pasar Uang		3-5% p.a.	~0% 
Obligasi		5-8% p.a.	~-5% 
Ekuitas		10-15% p.a.	-40% 

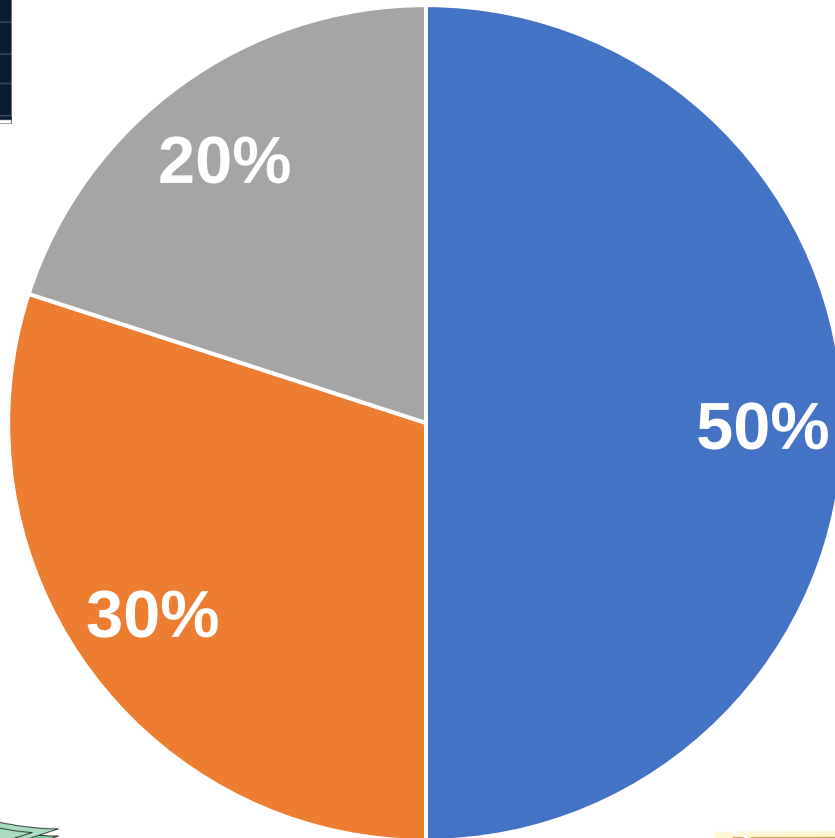
The Conservative



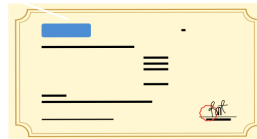
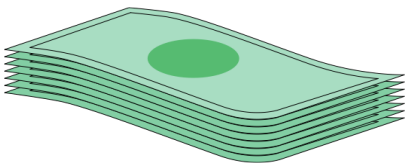
Return: ~6%
Max. Drawdown: -5%



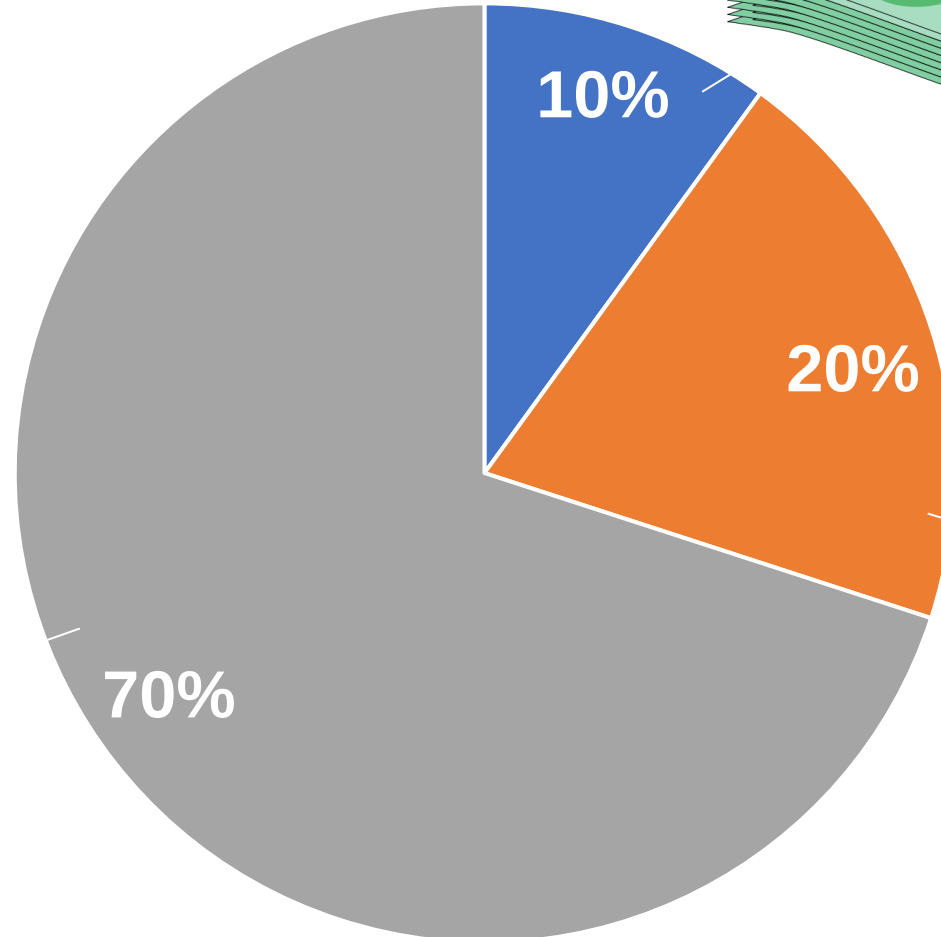
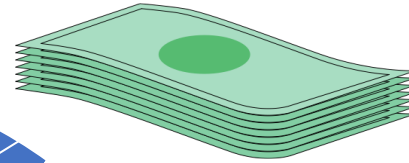
The Moderate



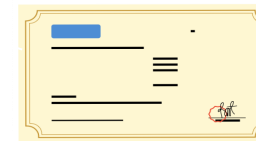
Return: ~7%
Max. Drawdown: -9%



The Aggressive



Return: ~10%
Max. Drawdown: -28%



Investing

The Effect of Inflation



Rp100.000



*dalam
30 tahun*

-90%



Rp10.000

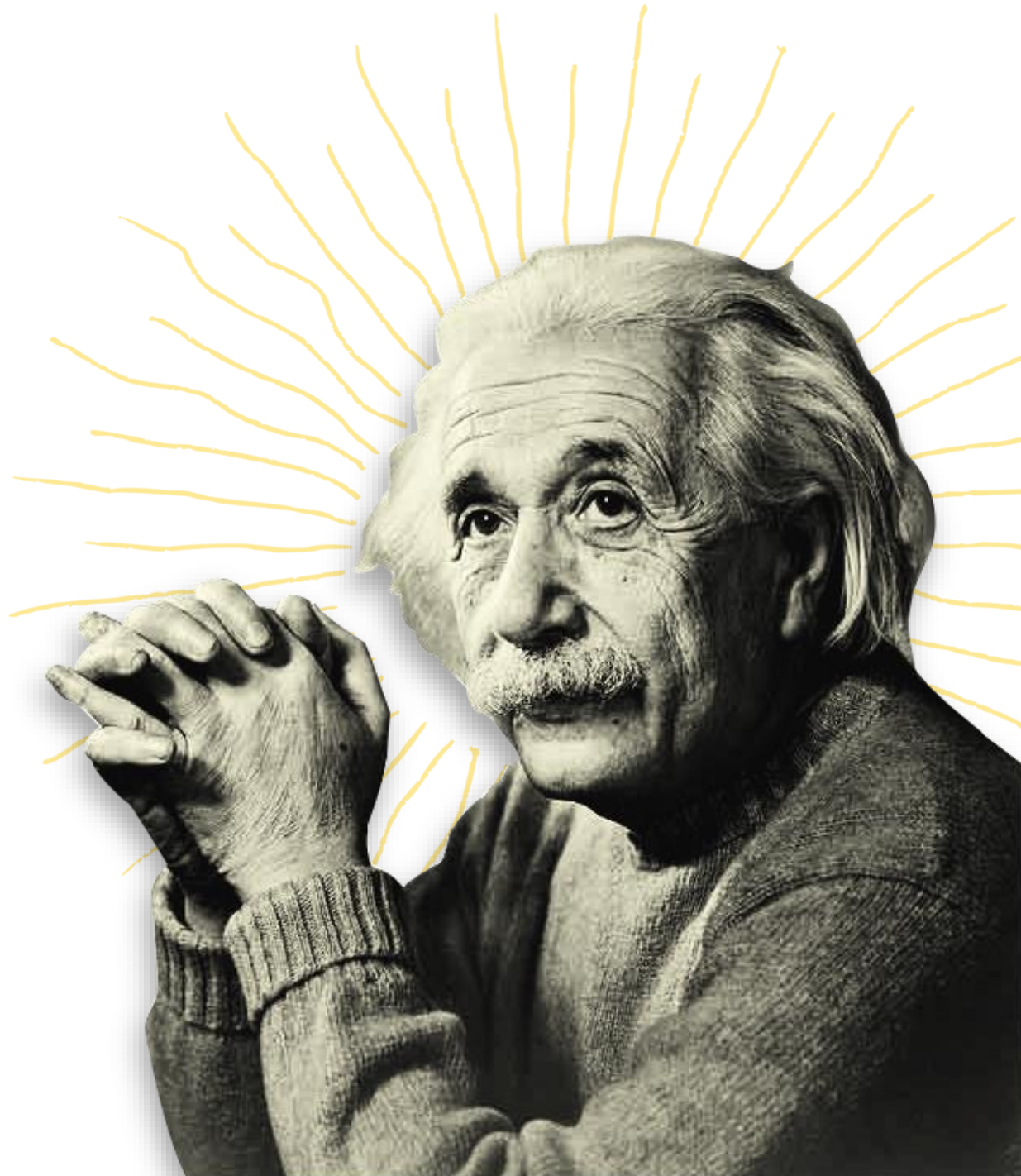
“

Compound Interest

is the eight wonder
of the world.

He who understands it,
earns it. He who doesn't,
pays it.

- Albert Einstein

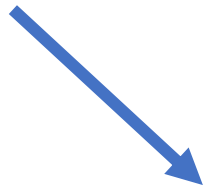


The Power of Compounding.



Bob

Return 1% p.a.



Anthony

Return 4% p.a.

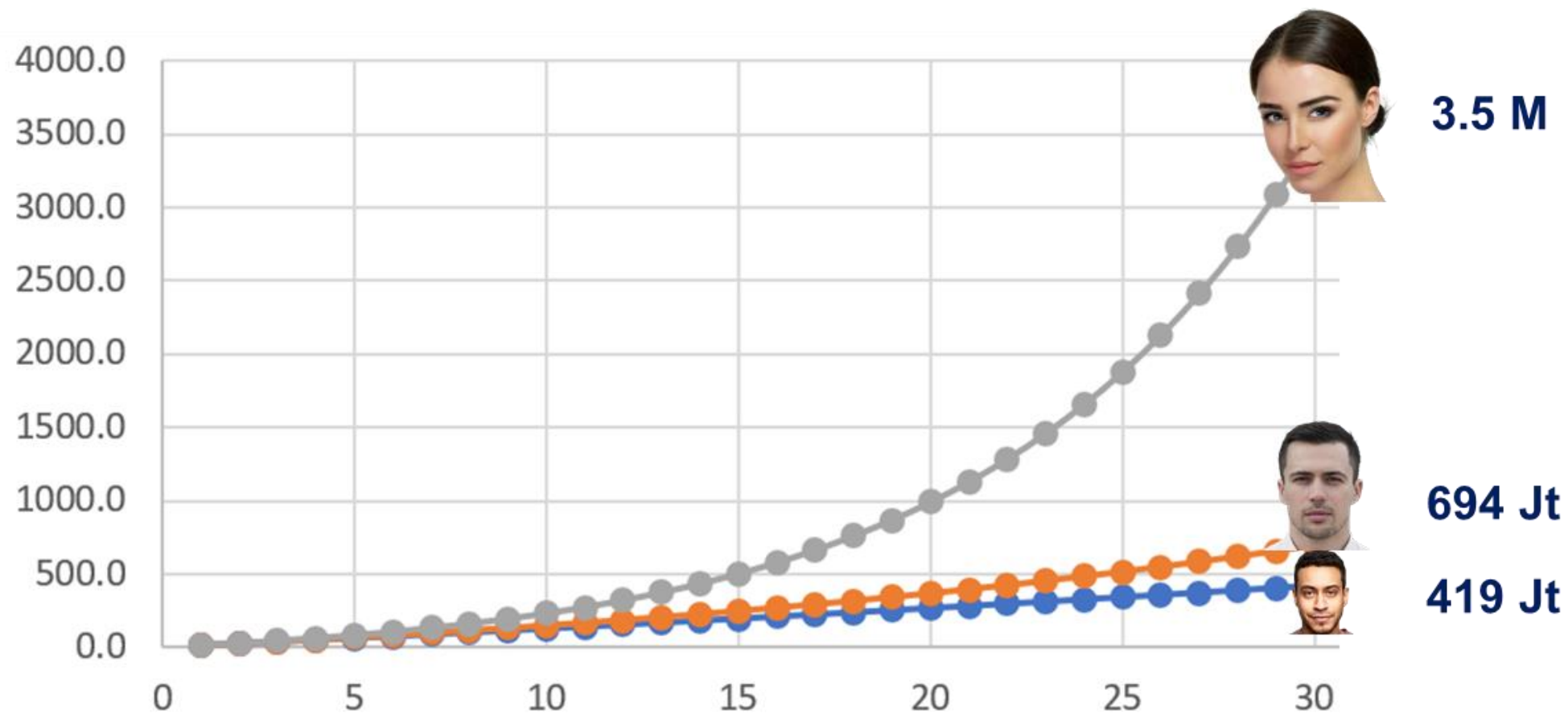


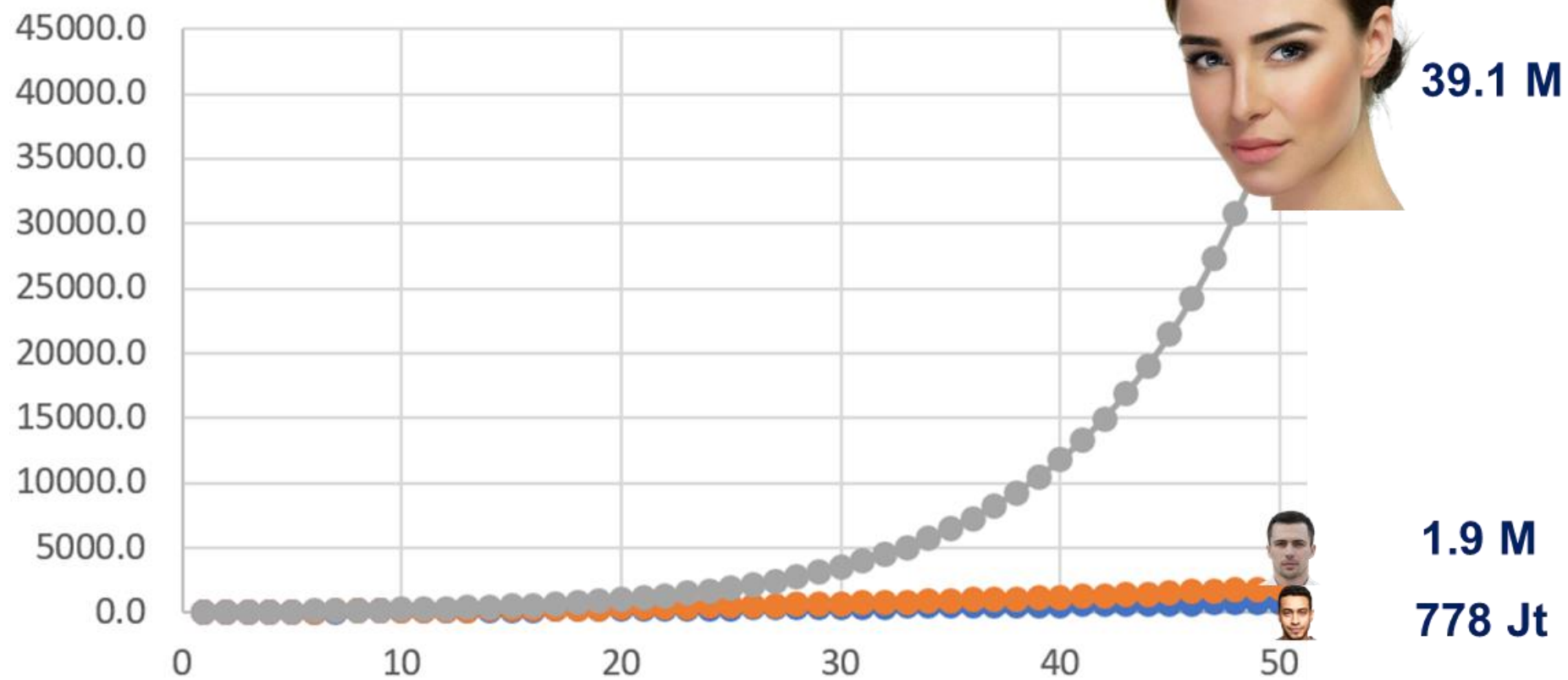
Jennifer

Return 12% p.a.



Nabung rutin 1 juta per bulan selama 30 tahun.





Lifestyle



Saving ***Belanja Lebih Sedikit***

- **Anda bisa bahagia dengan lebih sedikit**
- **Delayed Gratification**



***“The goal is to
be rich not to
look rich.”***

Menjadi kaya itu penting,
kelihatan kaya tidak penting

Lo Kheng Hong
Investor Saham Indonesia

Kehidupan Orang Kaya yang Kita Bayangkan



Sport Car



**Jam Tangan
Mahal**



**Hiburan
Mewah**

MORE THAN ONE MILLION COPIES SOLD!



THE MILLIONAIRE THE SURPRISING SECRETS OF AMERICA'S WEALTHY NEXT Door

Thomas J. Stanley, Ph.D.
William D. Danko, Ph.D.

**MORE THAN ONE YEAR ON THE
NEW YORK TIMES BESTSELLER LIST**

Kehidupan Orang Kaya Sesungguhnya



Mobil Jepang

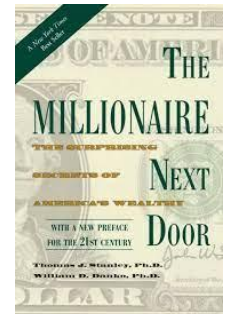


**Jam Tangan
Jepang**



**Hiburan
(dengan teman & keluarga)**

Sumber: Hasil survei para “millionaires” di US



Your Relationship with Money?





2022 RIGEN SIAP JADI SULTAN !!

2022 RIGEN SIAP JADI SULTAN !!



To exit full screen, press Esc



Point of View tentang Uang

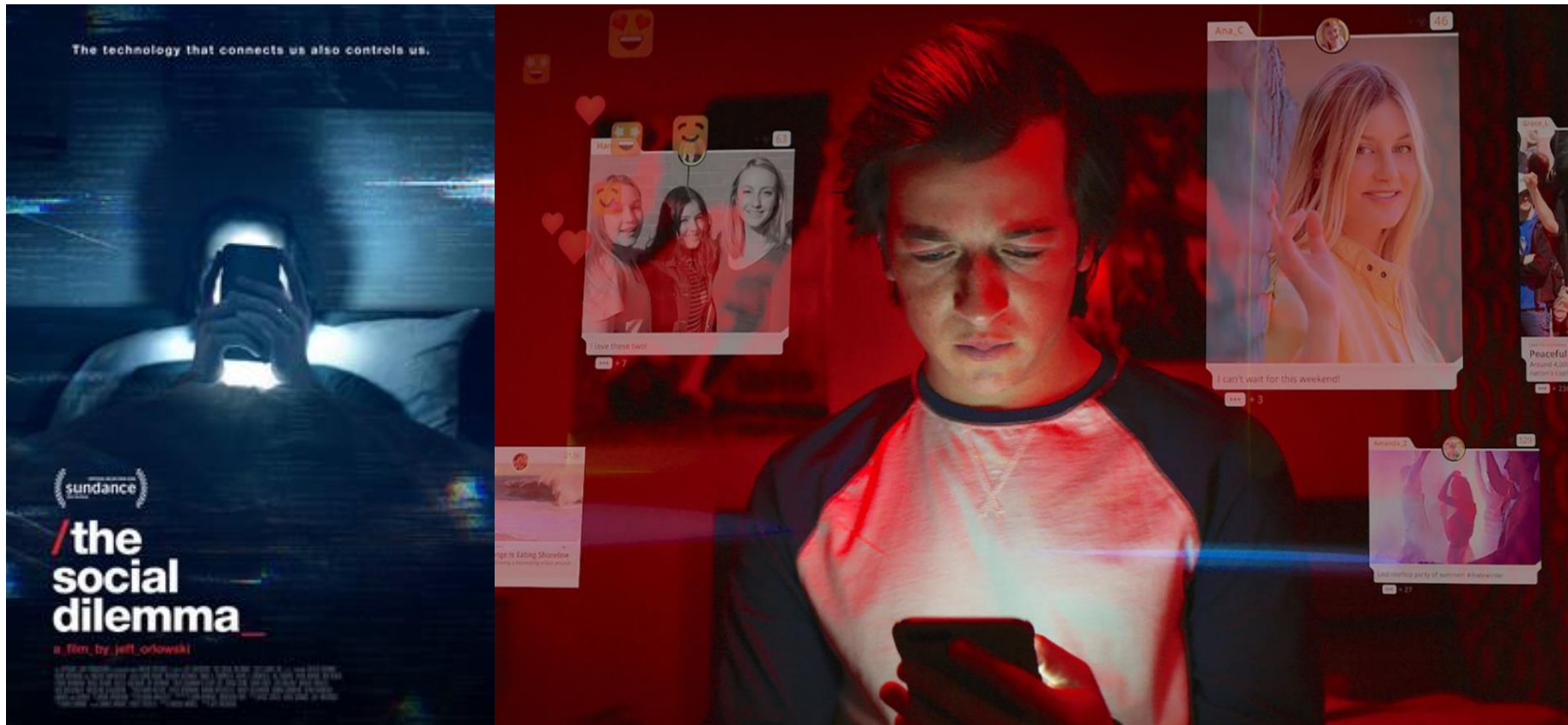
1. Kasih tahu kalau saya sukses
2. Balas dendam
3. Pamer status sosial



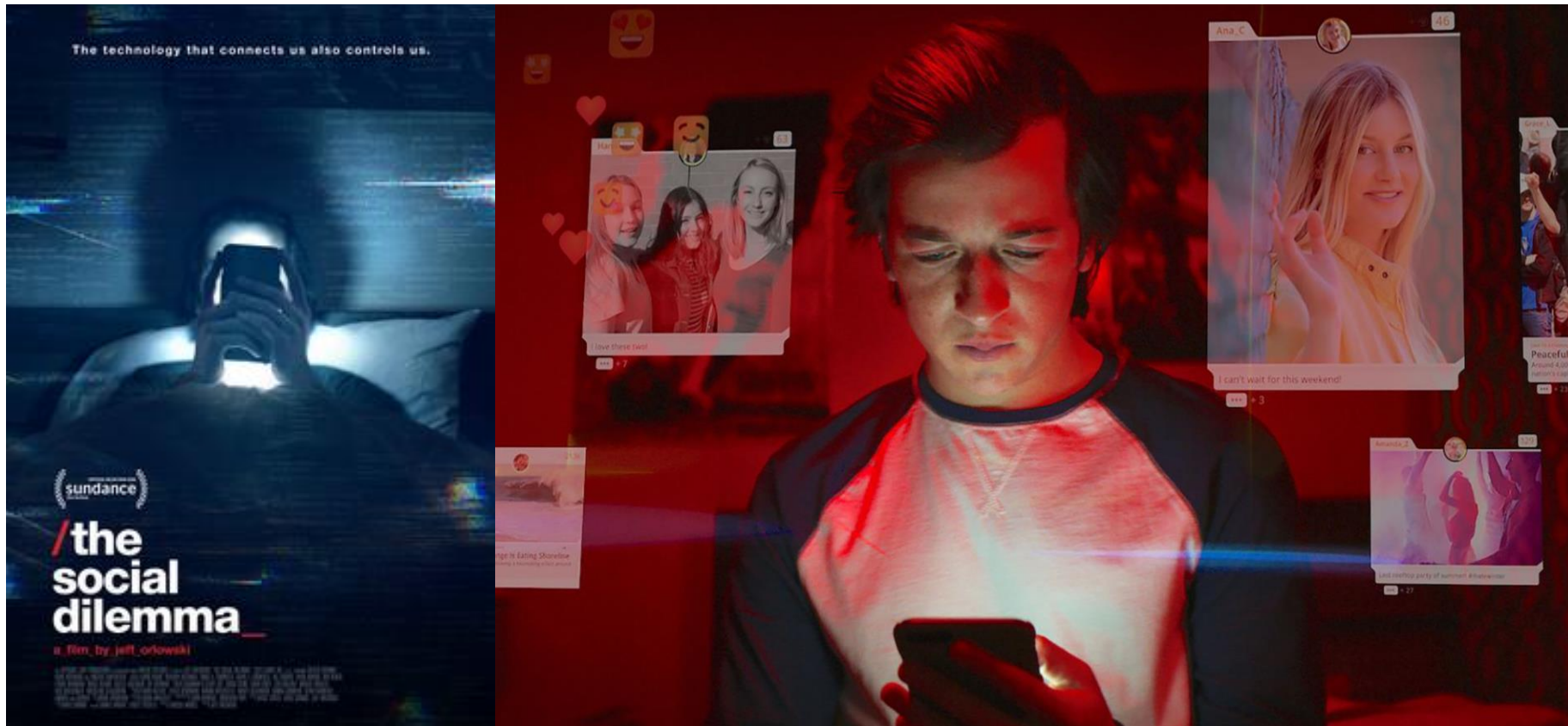
Point of View tentang Uang

1. Kasih tahu kalau saya sukses
2. Balas dendam
3. Pamer status sosial
4. Membeli waktu (freedom)





The documentary examines how social media's design nurtures addiction to **maximize profit** and its ability to manipulate people's views, emotions, and behavior and spread conspiracy theories and disinformation.

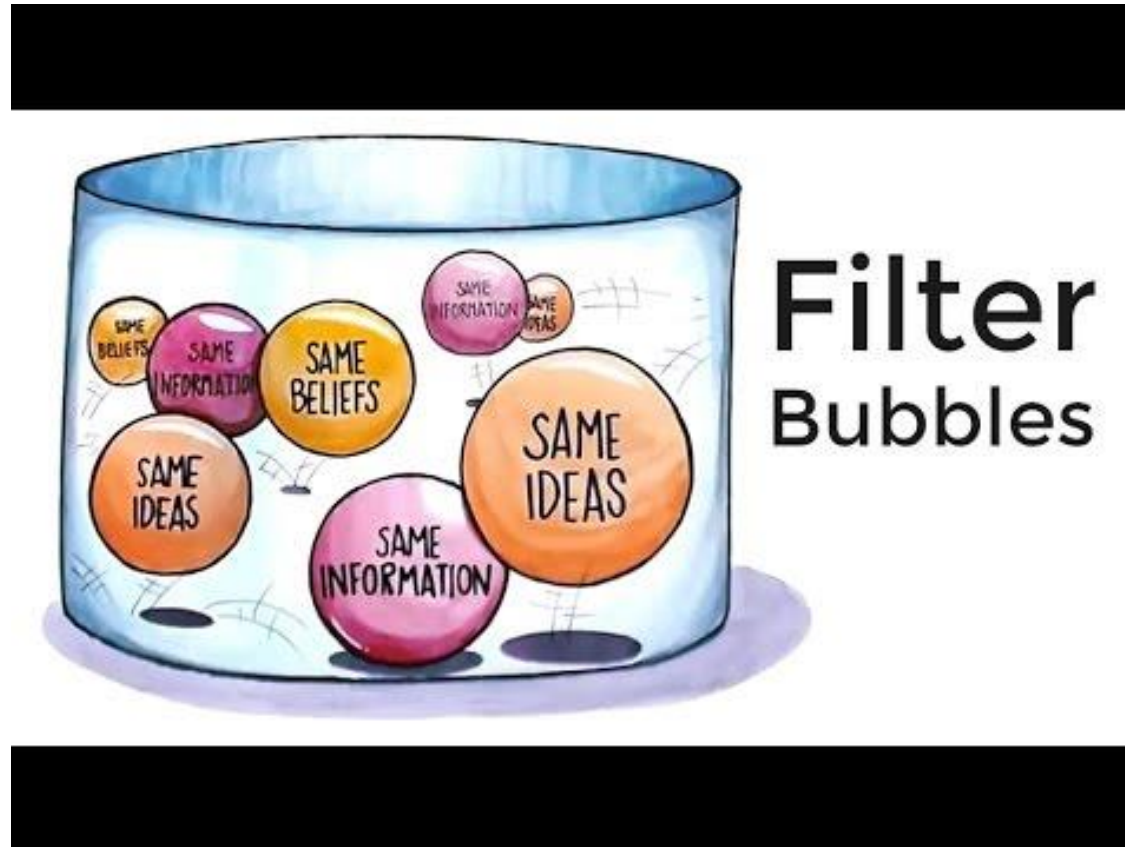


1. The engagement goal: to increase usage and to make sure users continue scrolling.
2. The growth goal: to ensure users are coming back and inviting friends that invite even more friends.
3. The advertisement goal: to make sure that while the above two goals are happening, the companies are also making as much money as possible from advertisements.

The Algorithm -> #1

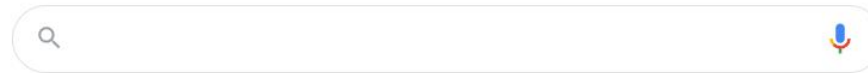
Targeted Advertising (selling data) -> #3

FILTER BUBBLES



The Algorithm -> Engagement -> ENGAGING BUT FALSE STORY!

EXTREME RECOMMENDATION ENGINES



SOCIAL MEDIA ALGORITHMS SHOW YOU MORE OF WHAT YOU'VE ALREADY INDICATED YOU LIKE.

THE WAY WE USE THOSE APPS TENDS TO KEEP US SURROUNDED BY INFORMATION WE'RE PRIMED TO BELIEVE AND AGREE WITH.

AND BECAUSE ENGAGEMENT IS THE MOST IMPORTANT THING, AND WE TEND TO ENGAGE WITH WHAT MOST OUTRAGES, ANGERS, AND SHOCKS US.

THE LONGER WE HANG OUT ON SOME SOCIAL MEDIA APPS AND ENGAGE WITH OUTRAGEOUS CONTENT THE MORE LIKELY THOSE APPS ARE TO PUSH OUTRAGEOUS CONTENT TO US.



2023: Menuju KEHANCURAN DUNIA!! -...

1.5M views • 1 day ago



resesi #bahaya #podcast.



2023: Menuju KEHANCURAN DUNIA

3.4M views • 11 days ago



Gw bukan mau takut2in, tapi banyak yang ga si...



2023 Menuju 'Gelap Gulita' Dunia, Jokowi...

1M views • 6 days ago



Berita Lainnya: Menerawang Indonesia Saat
Dunia Jatuh ke Jurang Resesi 2023 Link:...

New

10 Tahap Financial Journey

1. FINANCIAL DEPENDENCE	pendapatan < pengeluaran
2. FINANCIAL SURVIVAL	pendapatan = pengeluaran
3. FINANCIAL SOLVENCY	pendapatan = pengeluaran + bayar hutang
4. FINANCIAL STABILITY	punya dana darurat
5. DEBT FREEDOM	hutang dan cicilan lunas
6. FREEDOM FROM EMPLOYER	dana pensiun 3-5x pengeluaran tahunan
7. FINANCIAL SECURITY	dana pensiun 10x pengeluaran tahunan
8. FINANCIAL INDEPENDENCE	dana pensiun 25x pengeluaran tahunan
9. FINANCIAL FREEDOM	dana pensiun 25x pengeluaran gaya hidup
10. FINANCIAL ABUNDANCE	dana pensiun 3x level financial freedom

1. FINANCIAL DEPENDENCE

**PENDAPATAN <
PENGELUARAN**

"besar pasak daripada tiang"



HABIS GAJIAN



GAJIAN HABIS

2. FINANCIAL SURVIVAL

**PENDAPATAN =
PENGELUARAN**

- **masih punya hutang**





3. FINANCIAL SOLVENCY

**PENDAPATAN >
PENGELUARAN**

- **mulai melunasi hutang**



4. FINANCIAL STABILITY

**PUNYA DANA
DARURAT**

- **3 - 12 bulan biaya hidup**



Emergency Fund



- **Single** : **3 bulan** Biaya Hidup
- **Menikah** : **6 bulan** Biaya Hidup
- **Punya Anak** : **12 bulan** Biaya Hidup

Biaya hidup = 10 juta

- **Single** : **Rp. 30.000.000**
- **Menikah** : **Rp. 60.000.000**
- **Punya Anak** : **Rp. 120.000.000**

- 
- 4. Financial Stability**
3. Financial Solvency
2. Financial Survival
1. Financial Dependence

5. DEBT FREEDOM

**SEMUA HUTANG
& CICILAN LUNAS**

- **pengecualian untuk KPR**



6. FREEDOM FROM EMPLOYER

PUNYA DANA Pensiun

- **3-5x biaya hidup tahunan**





**GAJI BULAN LALU BELUM
HABIS**

SUDAH MAU GAJIAN LAGI

memegenerator.net

7. FINANCIAL SECURITY

PUNYA DANA Pensiun

- 10x biaya hidup tahunan





7. Financial Security
6. Freedom From Employer
5. Debt Freedom



4. Financial Stability
3. Financial Solvency
2. Financial Survival
1. Financial Dependence

8. FINANCIAL INDEPENDENCE

PUNYA DANA PENSIUN

- **25x biaya hidup tahunan**



9. FINANCIAL FREEDOM

PUNYA DANA PENSIUN

- **25x (biaya hidup + gaya hidup) tahunan**



10. FINANCIAL ABUNDANCE

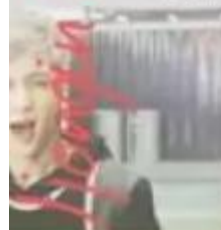
PUNYA DANA Pensiun

- **100x (biaya hidup + gaya hidup) tahunan**



ke atm ambil duit
struknya diambil
duitnya dibuang

byang Zhang



kita mah gitu orangnya

10. Financial Abundance
9. Financial Freedom
8. Financial Independence

7. Financial Security
6. Freedom From Employer
5. Debt Freedom

4. Financial Stability
3. Financial Solvency
2. Financial Survival
1. Financial Dependence

