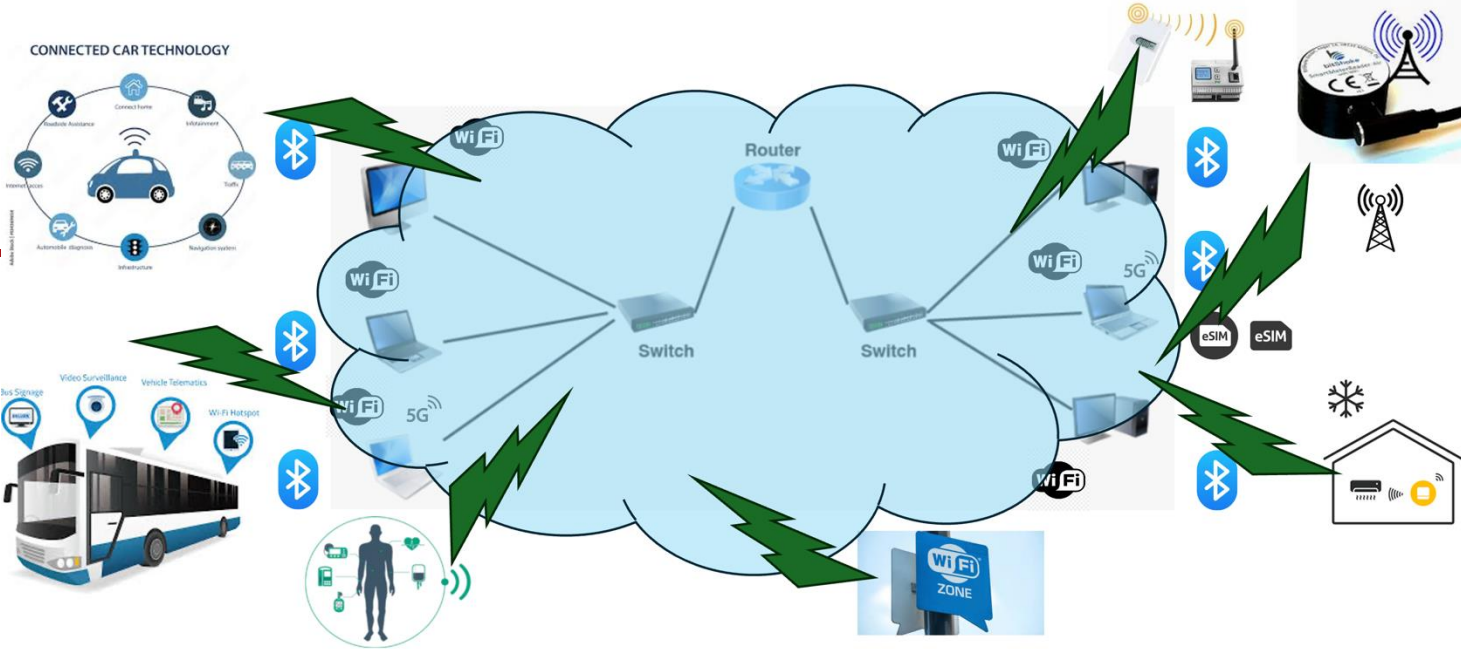




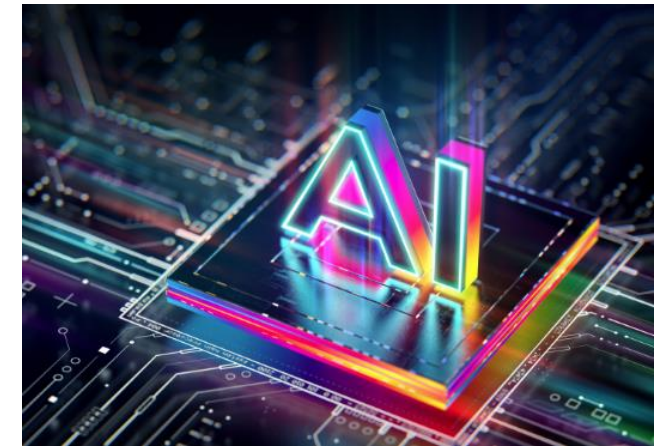
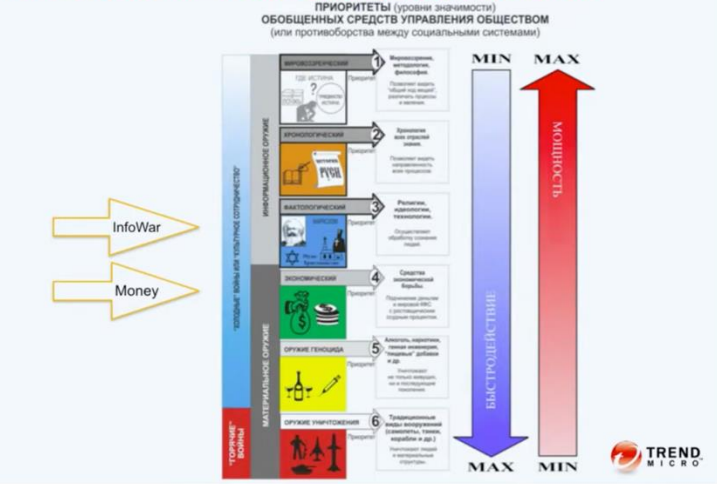
IoT hacks humans - unexpected angles of Human Process Compromise

Vladimir Kropotov (Presenter)+
Fyodor Yarochkin, Robert McArdle

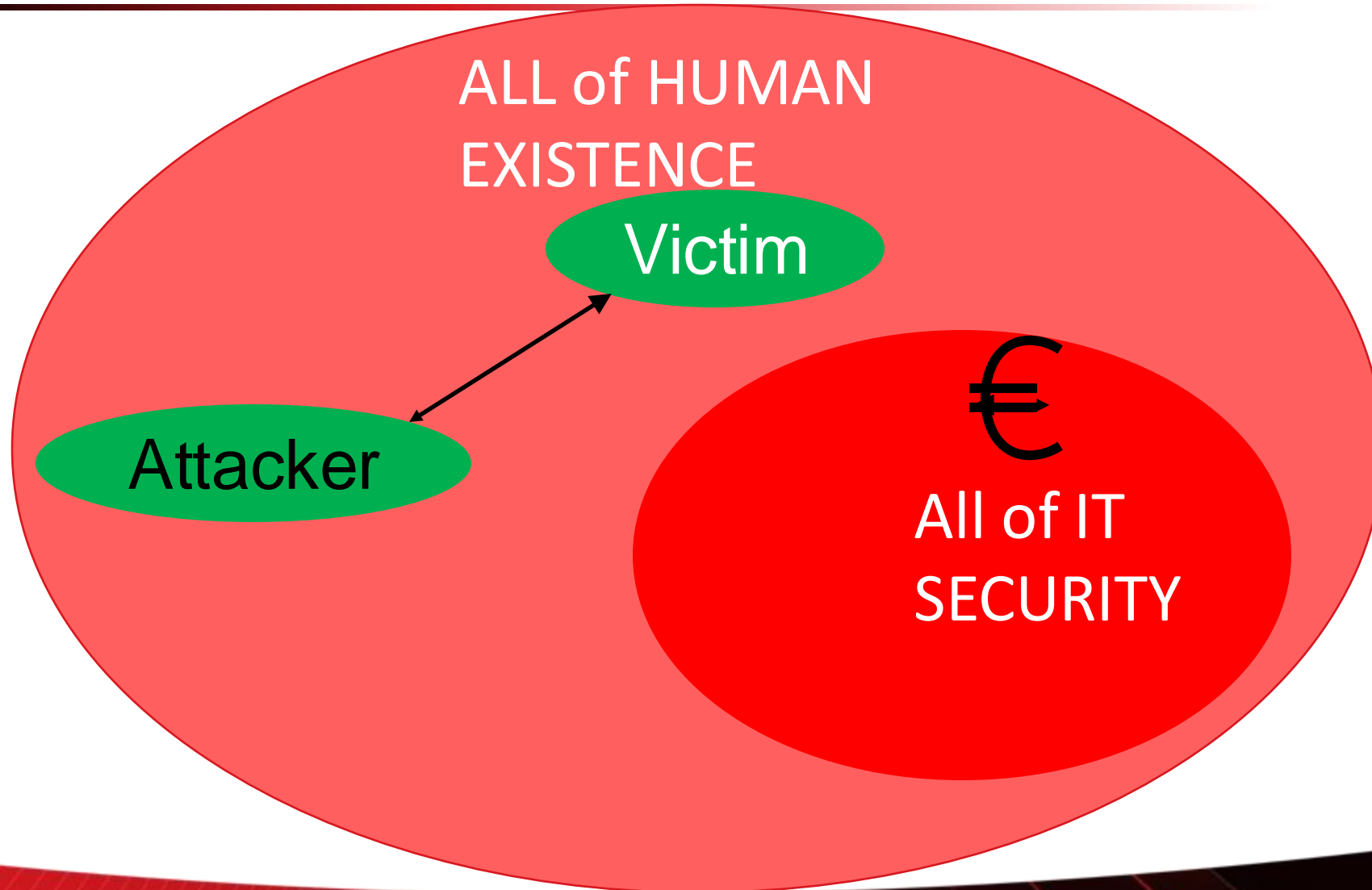




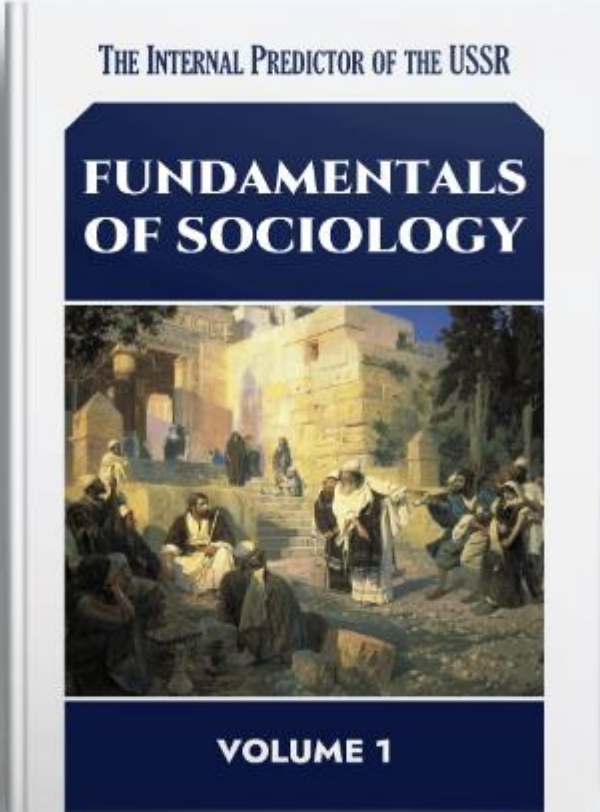
Priorities of means of social control



Human Process Compromise is a variation Business Process Compromise



The IP Of The USSR



THE INTERNAL PREDICTOR OF THE USSR

FUNDAMENTALS OF SOCIOLOGY

VOLUME 1

THE FUNDAMENTALS OF SOCIOLOGY | VOLUME I

Categories:
Sociology

By author:
The IP Of The USSR

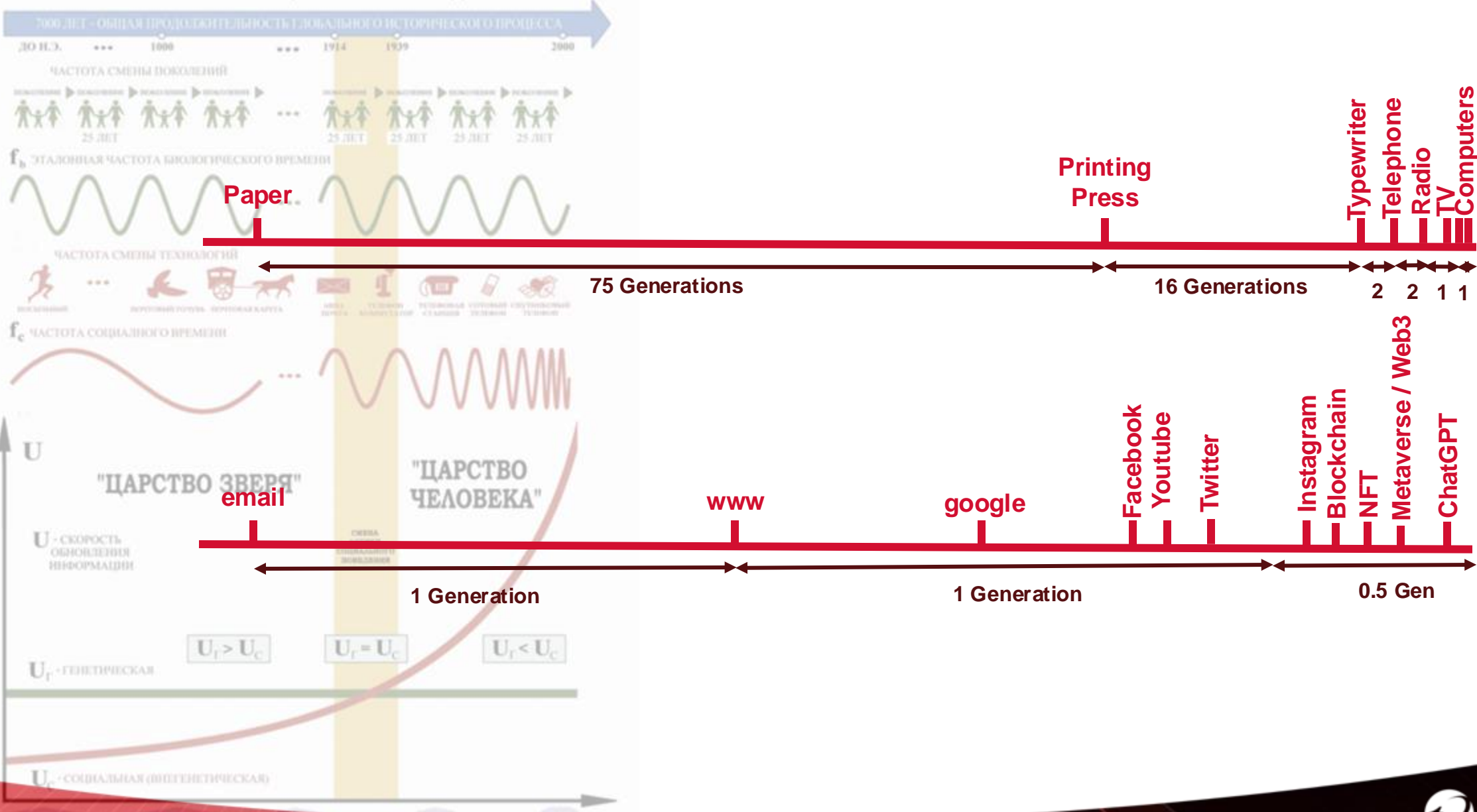
Year:
2016

[DOWNLOAD](#)

<https://rv-css.com/wp-content/uploads/2024/05/Fundamentals-of-Sociology-Volume-1.pdf>

ЗАКОН ВРЕМЕНИ

СМЕНА ЛОГИКИ СОЦИАЛЬНОГО ПОВЕДЕНИЯ



Stability in terms of the predictability of behaviour

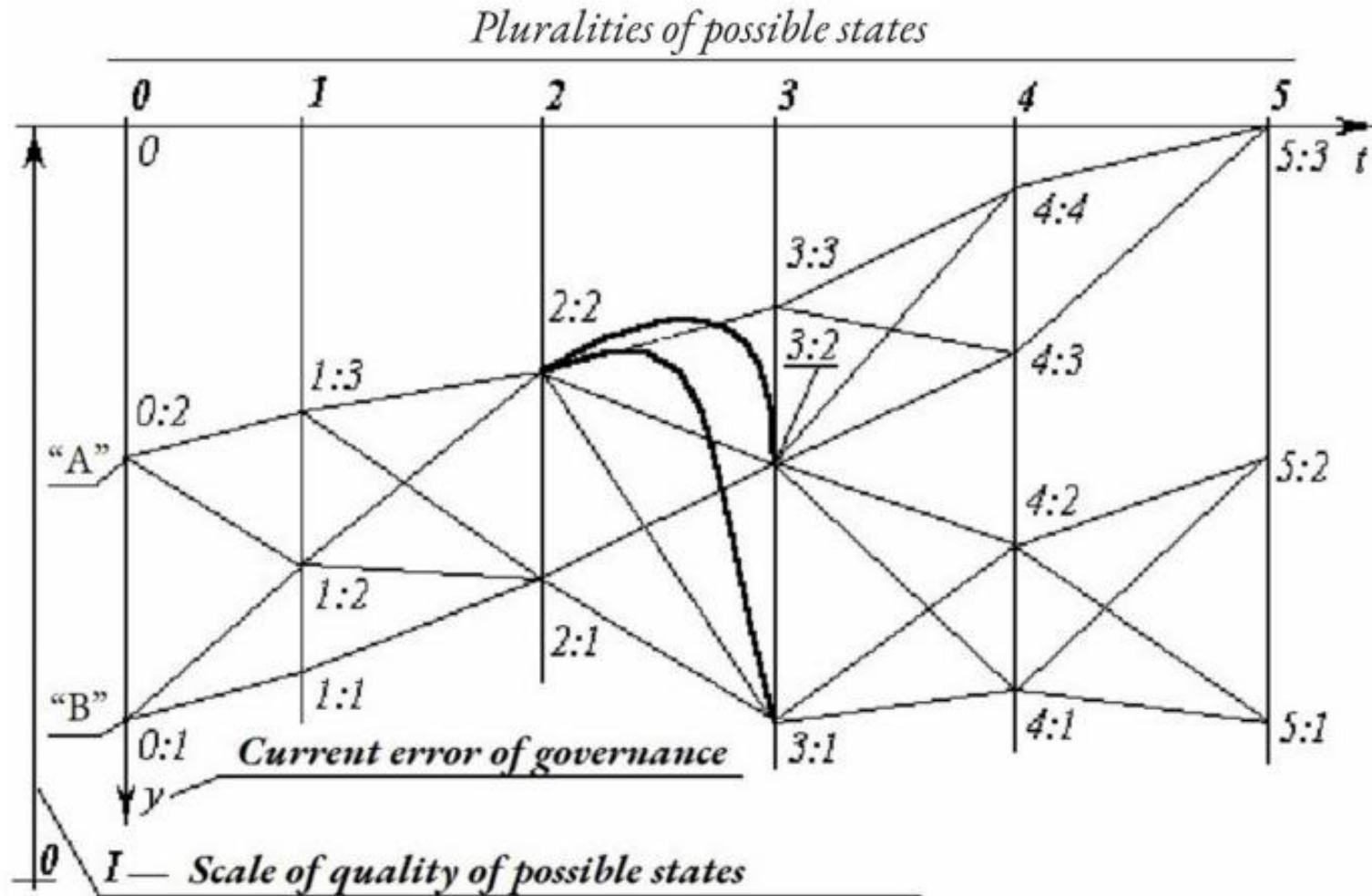
- Stability in terms of the predictability of the behaviour of an object (process) in a certain measure under the impact of: the external environment, changes of the object (process) itself, governance.

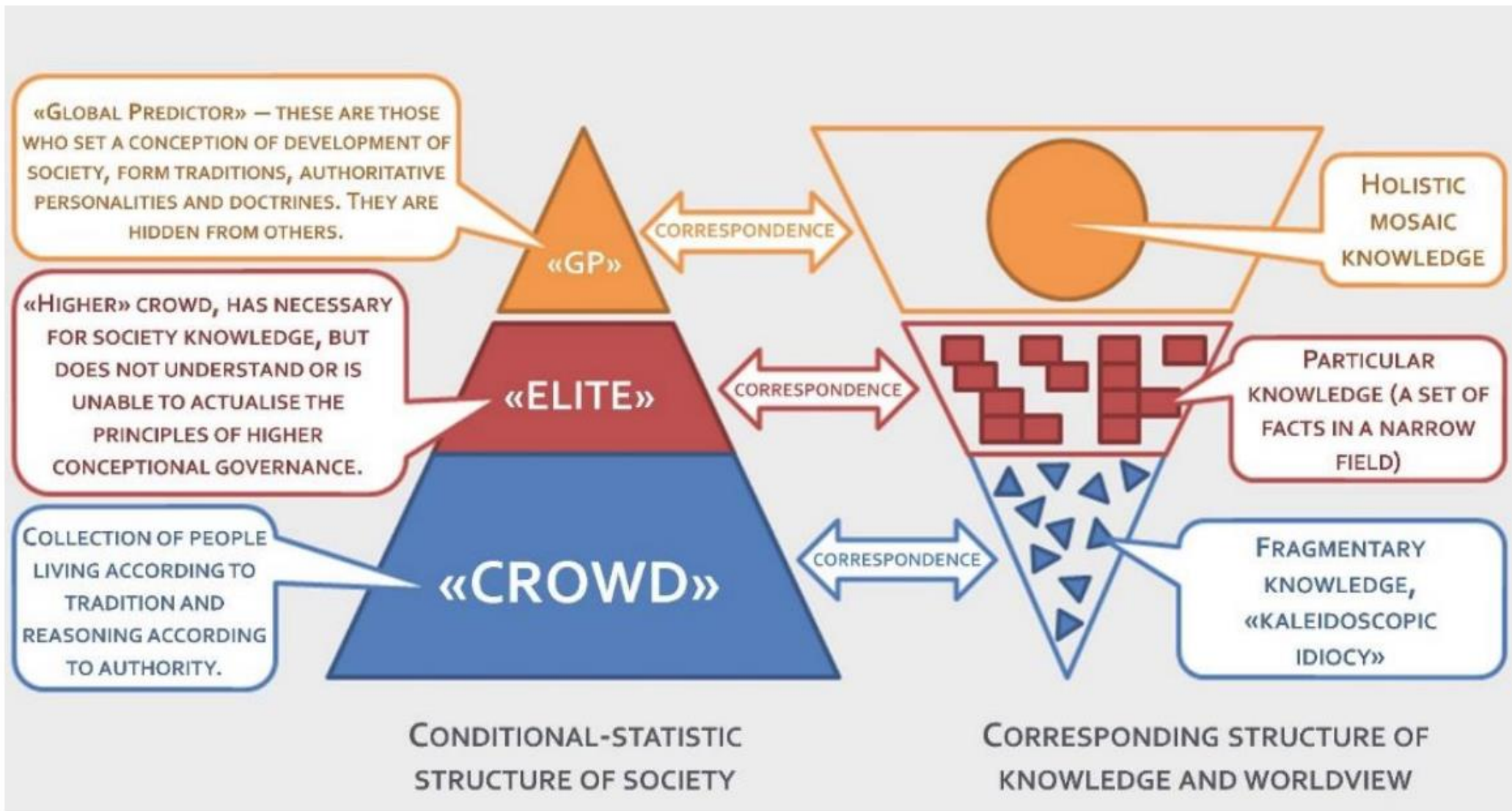


VS



Dynamic programming approach















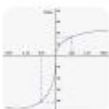













CROWD-“ELITE” PYRAMID

Types of cognitive bias

From sources across the web

	Confirmation bias	▼		Anchoring bias	▼		Negativity bias	▼
	Availability heuristic	▼		False consensus effect	▼		Framing bias	▼
	Halo effect	▼		Hindsight bias	▼		Actor-observer bias	▼
	Attentional bias	▼		Attribution bias	▼		Optimism bias	▼
	Anecdotal fallacy	▼		Authority bias	▼		Inequity aversion	▼
	The dunning-kruger effect	▼		Affinity bias	▼		Ambiguity effect	▼
	Bandwagon effect	▼		Design bias	▼		Functional fixedness	▼
	Conformity bias	▼		Adaptive bias	▼		Misinformation effect	▼

Information Bubbles and Geofencing

AUSTRALIA Independent state
 Bermuda Dependency or area of special sovereignty
 Stly / AZORES Island / island group
 ★ Capital
 Scale 1:33,000,000
 Robinson Projection
 standard parallels 30° N and 30° S



Source: CIA, "The World Factbook," 2001. All rights reserved. This work is licensed under a Creative Commons Attribution-NonCommercial-ShareAlike license. For more information, see http://www.cia.gov/library/publications/the-world-factbook/docs/00_intro.html.

Reading news inside the bubbles example

Fire started in Toropets, Tver region after UAV debris fell

18 September 2024, 03:44

TVER REGION DRONES FIRES

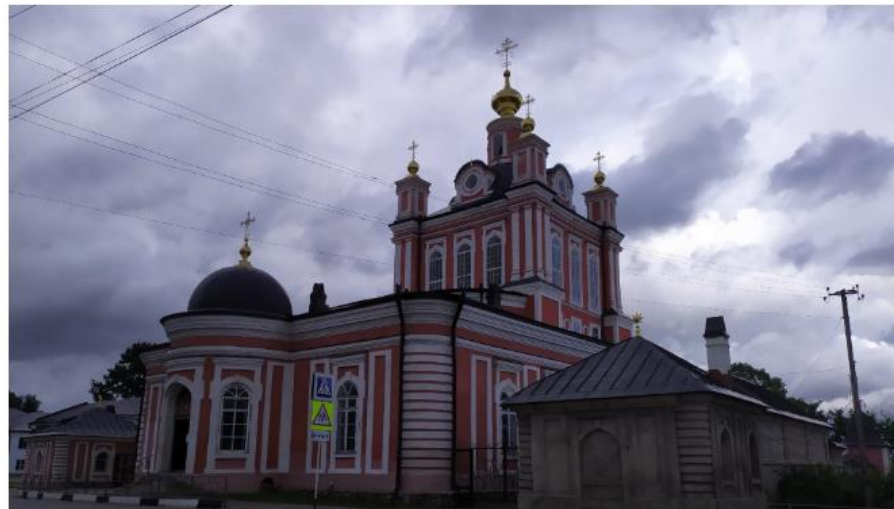


Photo: IZVESTIA/Sergey Lantuyukhov

NEWS , INCIDENTS

September 19, 2024, 1:57 PM

Russian Orthodox Church: 13 churches damaged in drone attack in Toropets



Archive photo

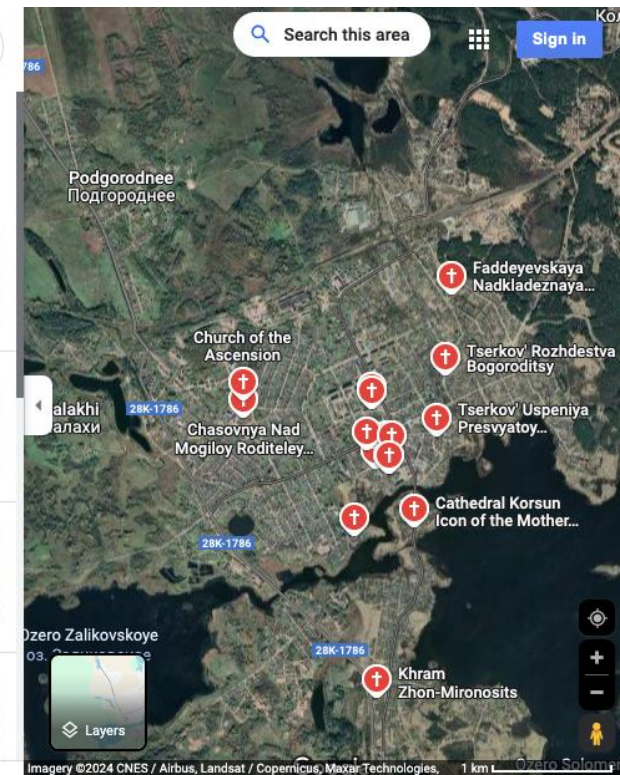
In the city of Toropets in the Tver region, 13 churches were damaged as a result of an attack by Ukrainian drones, the Russian Orthodox Church website reports .

Toropets churches

Rating All filters

Results

- Tserkov' Preobrazheniya Gospodnya**
5.0 ★★★★★ (2)
Church · U litsa Nikitina, 4
- Cathedral Korsun Icon of the Mother of God**
4.9 ★★★★★ (33)
Cathedral · Komsomol'skaya Ulitsa
- Tserkov' Rozhdestva Bogoroditsy**
4.8 ★★★★★ (19)
Church · U litsa Lomonosova, 1
- Church of the Ascension**
4.9 ★★★★★ (9)
Church · Kholm'skiy Pereulok, 1



Jumping outside the Bubbles

- VPN + LLM one of the options to jump outside the Bubble



Artificial intelligence Angle



Recent Articles

Sure, here is a short title for the provided text

Immigration, an economic solution

Here is a short title for the article France wins

with Solidity and Luck

Here is a short title for the article Racist attack

in Cessy: four years in prison for the attackers

Here is a short title for the article The French

team: a mixed performance against Belgium

Here is a short title for the article provided

Disappearance of Laure Zacchello: the

worrying absence of clues

To research

TO RESEARCH

Recent Articles

Sure, here is a short title for the provided text

Immigration, an economic solution

Here is a short title for the article France wins

with Solidity and Luck

Here is a short title for the article Racist attack

in Cessy: four years in prison for the attackers

Here is a short title for the article The French

team: a mixed performance against Belgium

Here is a short title for the article provided

Disappearance of Laure Zacchello: the

worrying absence of clues

Recent Comments

No comments to display.

Roles and current status of AI

- Connecting the dots and extracting patterns
- Understanding and producing information in the foreign languages and with consideration of the cultural specifics
- **Adopting information flow to the particular target audience or even personality**
- **It used human generated datasets for the training already**
- **IoT data can be a source to adjust and adopt AI models in (near) realtime**

IoT angle of HPC - What IoT knows about humans



Why IoT Angle

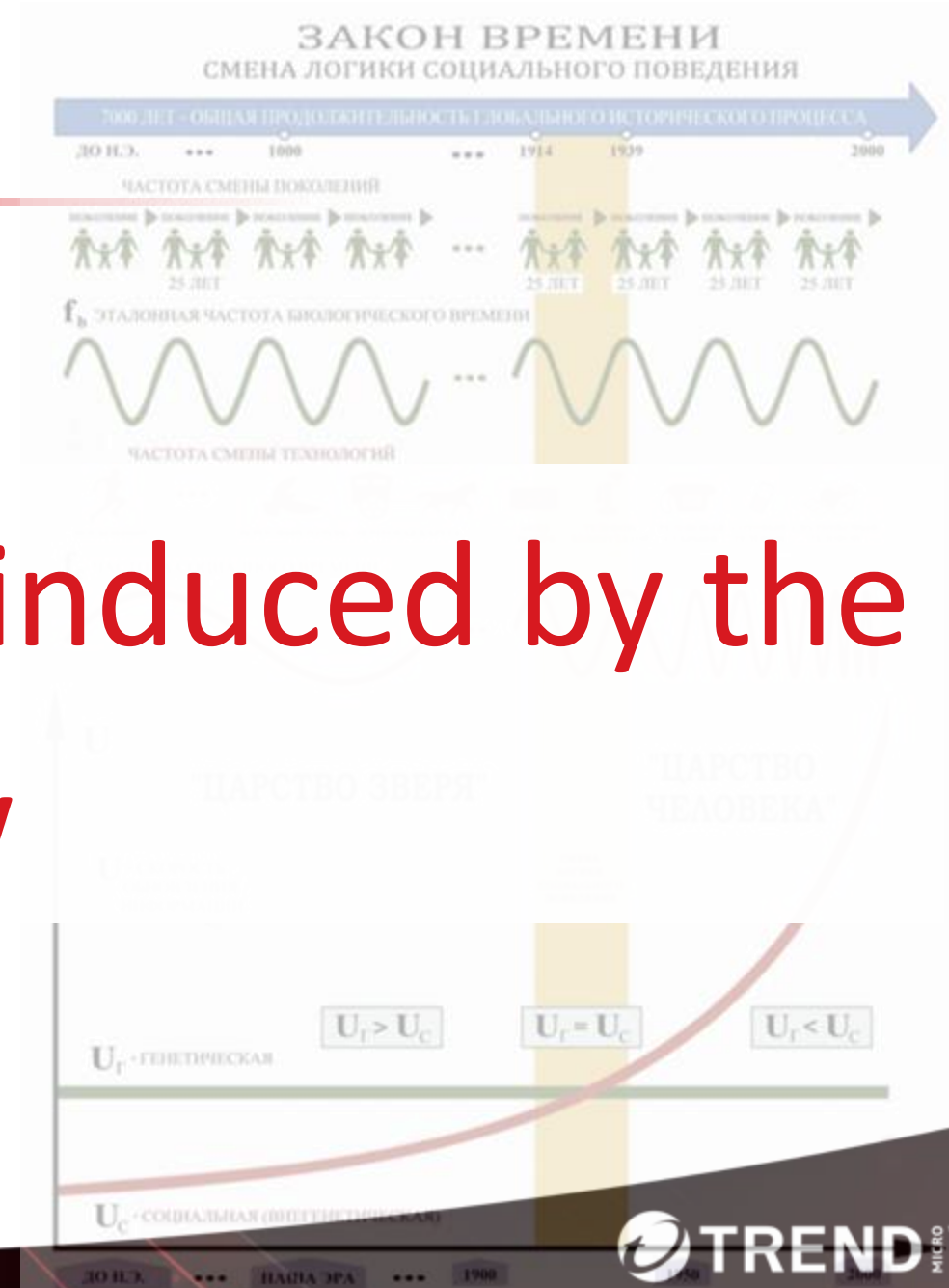
- **Not So secured** (too many limitations, too many architectures to secure)
- **Not So regulated** (New devices appear way ahead regulations)
- **Provides additional and unexpected connectivity and coverage**
- **Not represented enough in the majority of Risk models**
- Widely exploited by Criminals and National States
- Interests aligned groups
- Widely leveraged for variety of similar activities



Why IoT Angle

- Not So secured (too many limitation, too many architectures to secure)
- Not So regulated (New devices appear way ahead regulations)
- Provides credit and unexpected coverage
- Not represented enough in the market of risk
- Widely exploited by criminals
- Widely exploited by National States Interests aligned groups
- Widely leveraged for variety of similar activities

Filling the timing gaps induced by the time law



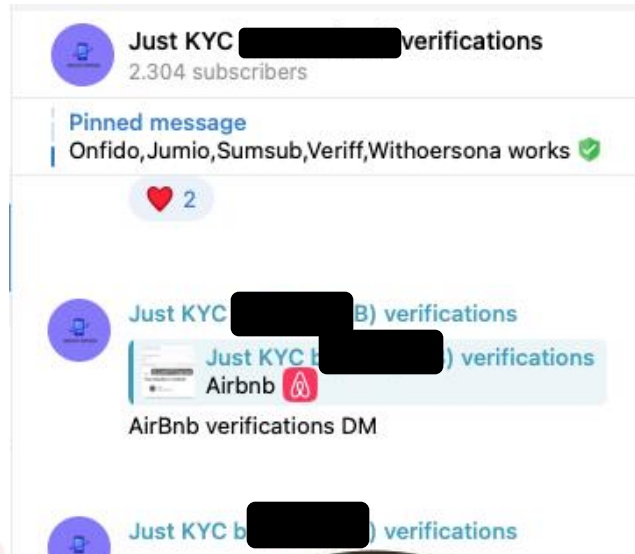
Too much trust in IoT

 **Обход Верификации**
Bypass KYC TOOL best on the market

Work with any escrow service

No risk money

[https://t.me/+arJNZfC\[redacted\]](https://t.me/+arJNZfC[redacted])



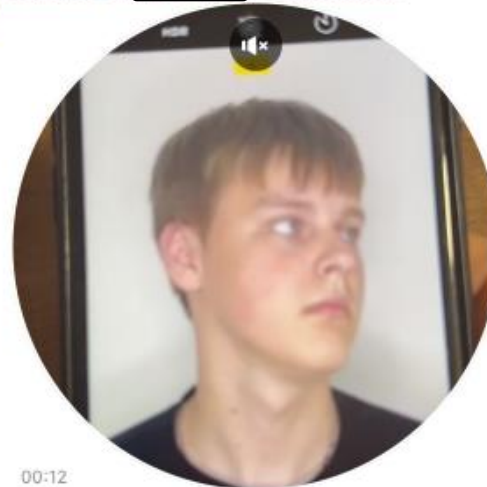
Just KYC [redacted] verifications
2.304 subscribers

Pinned message
Onfido, Jumio, Sumsb, Veriff, Withoersona works ✓

♥ 2

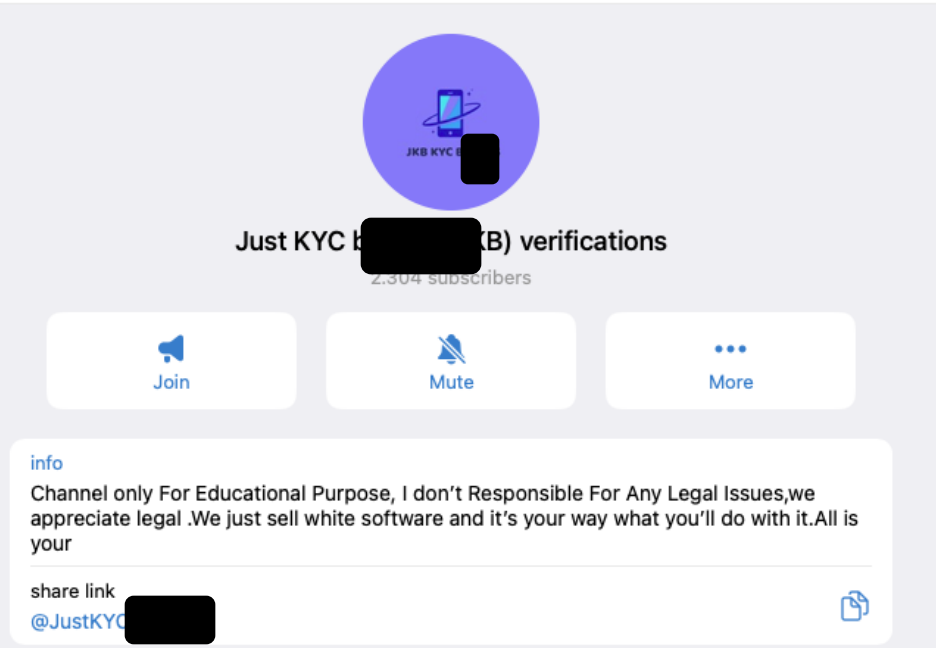
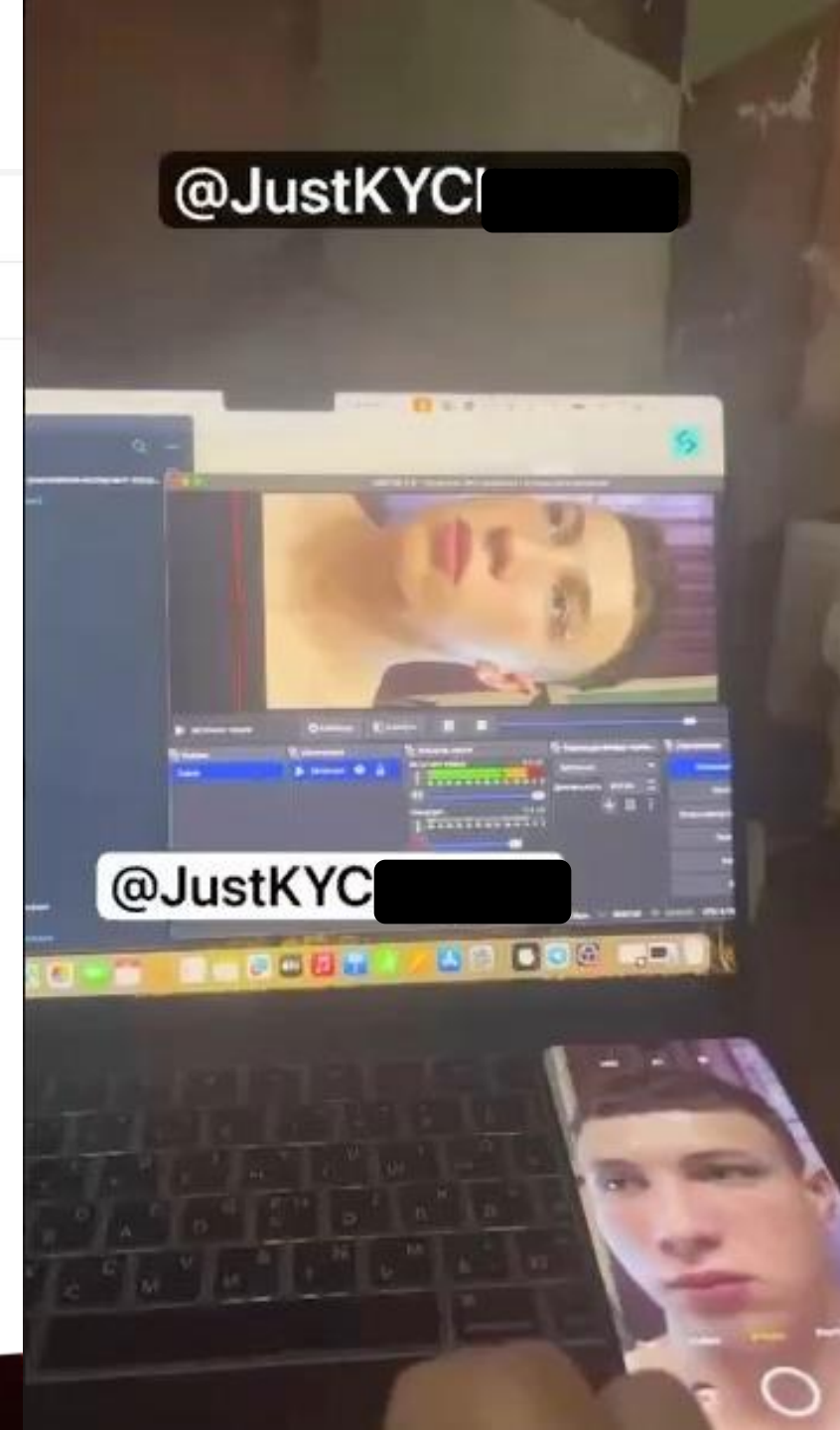
Just KYC [redacted] verifications
Just KYC [redacted] verifications
Airbnb [redacted] verifications
AirBnb verifications DM

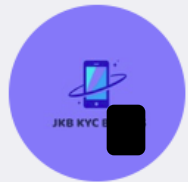
Just KYC [redacted] verifications



00:12

🔥 3





Just KYC [redacted] verifications
2.304 subscribers

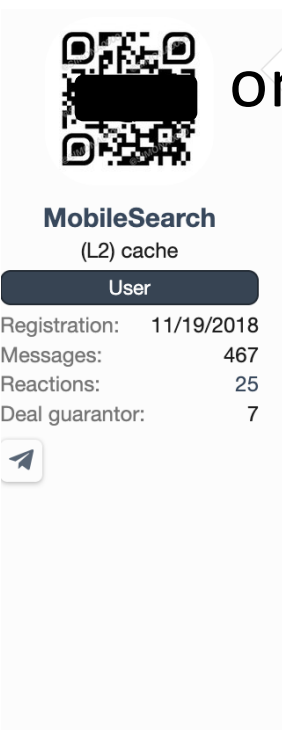
Join Mute More

info
Channel only For Educational Purpose, I don't Responsible For Any Legal Issues, we appreciate legal. We just sell white software and it's your way what you'll do with it. All is your

share link
@JustKYC [redacted]

IoT and Biometrics Agle

- Facial recognition systems are connected to city cameras.
- Underground offers a service of collecting data from CCTV cameras



05/29/2023

MobileSearch
(L2) cache

User

Registration: 11/19/2018
Messages: 467
Reactions: 25
Deal guarantor: 7

on request:

Topic author



Removal of information from CCTV cameras MSK, St. Petersburg, RF:

- Face search by cameras (by face photo or full name and DR) (RF) - from 45,000 ₺
 - Person identification by face (biometrics) (RF) - 8,000 ₺
 - Upload video recordings from the camera - Individually ₺
- Identification of a person by face (biometrics) (UKR) - \$ 250

All current prices, services and contacts on the @MobSearch channel (t.me/MobSearch). Subscribe, we will be glad to see you.

For faster communication, write to contacts:

Telegram:

@sim [redacted] link: [t.me/sim\[redacted\]](https://t.me/sim[redacted])

@sim [redacted] support (link: [t.me/sim\[redacted\]support](https://t.me/sim[redacted]support))

Wickr:

IoT cloud

The screenshot shows a news article on the TechTarget website. The URL in the address bar is [techtarget.com/healthtechsecurity/news/366594948/61M-Fitbit-Apple-Users-Had-Data-Exposed-in-Wearable-Device-Data-Breach](https://www.techtarget.com/healthtechsecurity/news/366594948/61M-Fitbit-Apple-Users-Had-Data-Exposed-in-Wearable-Device-Data-Breach). The page has a dark blue header with navigation links: News, Features, Webinars, White Papers, and Sponsored Sites. Below this is a white navigation bar with categories: Cybersecurity, Data access & privacy, Data breaches, Data threats & exploits, and HIPAA compliance & regulation. The main content area has a teal banner with icons of a pill bottle and a pill. The article title is "61M Fitbit, Apple Users Had Data Exposed in Wearable Device Data Breach". The sub-headline reads: "An independent cybersecurity researcher discovered a wearable device data breach that exposed the records of 61 million Apple and Fitbit users." The author is Jill McKeon, Associate Editor, and the article was published on 16 Sep 2021. The article text states: "Over 61 million fitness tracker records from both Apple and Fitbit were exposed online in a recent wearable device data breach, according to a [report](#) from *WebsitePlanet* and independent cybersecurity researcher Jeremiah Fowler." On the left side of the article, there are social media sharing icons for Facebook, X, and LinkedIn. On the right side, there is a blue sidebar with a microphone icon and the text: "Featuring guests from legal, provider, payer, government and other organizations".

techtarget.com/healthtechsecurity/news/366594948/61M-Fitbit-Apple-Users-Had-Data-Exposed-in-Wearable-Device-Data-Breach

News Features Webinars White Papers Sponsored Sites

Security Cybersecurity Data access & privacy Data breaches Data threats & exploits HIPAA compliance & regulation

NEWS

61M Fitbit, Apple Users Had Data Exposed in Wearable Device Data Breach

An independent cybersecurity researcher discovered a wearable device data breach that exposed the records of 61 million Apple and Fitbit users.

By **Jill McKeon**, Associate Editor Published: 16 Sep 2021

Over 61 million fitness tracker records from both Apple and Fitbit were exposed online in a recent wearable device data breach, according to a [report](#) from *WebsitePlanet* and independent cybersecurity researcher Jeremiah Fowler.

Featuring guests from legal, provider, payer, government and other organizations

Revolutionizing Retail Management with IoT-Powered Predictive Insights

By leveraging IoT-powered predictive analytics, retailers can gain valuable insights into consumer behavior, inventory management, and sales forecasting.

The Power of IoT in Retail Management

IoT devices, such as sensors and beacons, are being utilized by retailers to collect large volumes of data in real-time. This data is then analyzed using advanced algorithms to provide predictive insights that can help retailers make informed decisions. By combining historical data with current trends, retailers can anticipate consumer demand, optimize inventory levels, and **personalize** the shopping experience for customers.

- **Improved Inventory Management:** Predictive analytics can help retailers optimize their inventory levels by forecasting demand, reducing stockouts, and minimizing excess inventory.
- **Personalized Shopping Experience:** By analyzing customer data, retailers can **personalize** marketing campaigns, offer targeted promotions, and recommend products based on individual preferences.
- **Enhanced Customer Engagement:** IoT devices can track customer behavior in-store, allowing retailers to better understand their preferences and tailor their offerings accordingly.

The Benefits of IoT-Powered Predictive Insights

There are several key benefits that retailers can gain from implementing IoT-powered predictive analytics in their operations:

- **Increased Sales:** By accurately forecasting demand and offering **personalized** recommendations, retailers can increase sales and drive revenue growth.
- **Optimized Operations:** Predictive insights can help retailers streamline their operations, improve efficiency, and reduce costs.
- **Competitive Advantage:** By harnessing the power of IoT and predictive analytics, retailers can differentiate themselves from competitors and stay ahead in the market.

As retailers continue to adopt IoT technologies to drive their business forward, it is essential to recognize the significance of predictive insights in retail management. By leveraging IoT-powered analytics, retailers can gain a competitive edge, enhance the customer experience, and optimize their operations for long-term success.

<https://moldstud.com/articles/p-leveraging-iot-for-predictive-analytics-in-retail-operations>

With the ability to anticipate consumer trends, optimize inventory levels, and **personalize** the shopping experience, IoT-powered predictive insights are transforming the retail industry and shaping the future of retail management.



smart devices predictive analytics



All Images Products News Videos Web Books More Tools

Sponsored



Mastercard Services

<https://www.mastercardservices.com> > test-learn

Applied Predictive Analytics | Make Decisions with Confidence

Our product, formerly APT Test & Learn®, has helped hundreds of leading organizations. Test & Learn® identifies key drivers of business performance and actionable insights.

www.iotforall.com/enhancing-cx-in-insurance-with-iot-driven-predictive-analytics

Challenges In IoT-Driven Predictive Analytics

Data Privacy and Security

The primary purpose of IoT devices is to collect data, which has always been a source of challenge for privacy and security. Customers can show concerns about their personal and sensitive data. Insurers need a satisfying privacy policy and security measures to protect customer **data** and build trust.

Your data is already there



ECOVACS HOME Privacy Policy

Effective Date:2022.04.11

Chapter references

- We refer to operational logs, cleaning environment 2D map on your Device to supplement our user profiling on you, and optimize and personalize the content of the App accordingly. We will also customize our advertisements or third-party advertisements

Hackers take control of robot vacuums in multiple cities, yell racial slurs

By Julian Fell Story Lab Cyber Crime

Thu 10 Oct



The view from an **Ecovacs** robot's camera during a hacking demonstration carried about by the ABC. (ABC News)

abc.net.au/news/robot-vacuum-yells-racial-slurs...

Share article

Robot vacuums in multiple US cities were hacked in the space of a few days, with the attacker physically controlling them and yelling obscenities through their onboard speakers.

The affected robots were all Chinese-made **Ecovacs** Deebot X2s — the exact model that the ABC was able to hack into as proof of a critical security flaw.

WHAT INFORMATION DO WE COLLECT?

Example of Privacy notice

- Smart Hub interactions: such as **query terms**, ... clicks on buttons... **“Like,” “Dislike,”** and **“Watch Now”** buttons... other information you directly .. **your zip code**;
- With your separate consent, **recordings of voice commands**
- we obtain information viewed on your Device (including the **networks, channels, games, websites visited and programs**), as well as content **purchased, downloaded, or streamed** through Samsung application
- If you use Samsung IoT services, **device information from IoT devices** necessary to provide you with such services
- If you log into your Samsung account, **information associated with your Samsung account**, such as your Samsung account ID, **name, and age**
- We may, and may **allow third parties to, use third-party analytics services** such as Google Analytics and verification services, such as Campaign Manager 360. The information we obtain may be disclosed to or **collected directly by these providers and other relevant third parties**

Example of the notice how the information being used

- provide you with generic ads on your Device (for this purpose, we will process your PSID, Tizen ID for Advertising (TIFA), as well as other information such as generalized location and other estimated or inferred information (e.g., IP address, and estimated TV size based on Model ID));
- deliver advertising, sponsored content, and promotional communications including **personalized advertisements using information collected by us and third parties with your separate consent to Interest-Based Advertisements, such information as collected through Visual Information Services or data provided by advertisers and media agencies**
- generating **aggregated insights** relating to the use of the Device **for the use of business partners and advertisers**;



IBA + ACR? INTEREST-BASED ADVERTISEMENTS SERVICE PRIVACY NOTICE example

- **your device model, operating system versions, device configurations and settings, IP address, device identifiers, and other identifiers.**
- **Device Usage and Log Information.** We collect information about how, when, and for how long you use your devices, including your interactions with the IBA Service and Samsung and third party apps and services on the devices (such as a listing of apps on your devices).
- **Viewing Information.** Device **viewing history includes information about the networks, channels, websites visited and programs viewed on your Device** and the amount of time spent viewing them. ... information about the on your Samsung Device and the amount of time spent viewing them. We sometimes refer to this service as **Automatic Content Recognition (ACR)**.
- **Statistical Information.** ..**generalized location and estimated age group.**

https://smarthub.termnsprivacy.com/terms/NG_en/NG_en.html

How It Works

Samsung Smart TVs have built-in Automated Content Recognition (ACR) technology that can understand viewing behavior and usage including programs, movies, ads, gaming content and OTT apps in real-time.

It's a simple 3-step process:

- Let us know the brand and title of the commercial spot you would like to target for your TV Ad Retargeting campaign
- The selected commercial is recognized and instantly matched with our ACR data
- Retargeting campaign is activated for the selected TV commercial based on pre-aligned campaign parameters

SAMSUNG Ads

TV Ad Retargeting

Samsung Ads offers TV Ad Retargeting that allows brands to identify audiences who saw or missed their TV spots and reach them across any screen – mobile, tablet, desktop or OTT.

TV Ad Retargeting enables your business to:

- **Drive Media Effectiveness**
Reach those who missed your TV spot across any screen, including digital and OTT devices
- **Extend Reach**
Deliver your message to viewers of your TV ads on digital and OTT devices
- **Engage Audiences**
Reach viewers who saw your competitor's ads as quickly as 60 seconds after linear ad airing

- **Engage Audiences**

Reach viewers who saw your competitor's ads as quickly as 60 seconds after linear ad airing

gnition (ACR)
e including
l-time.



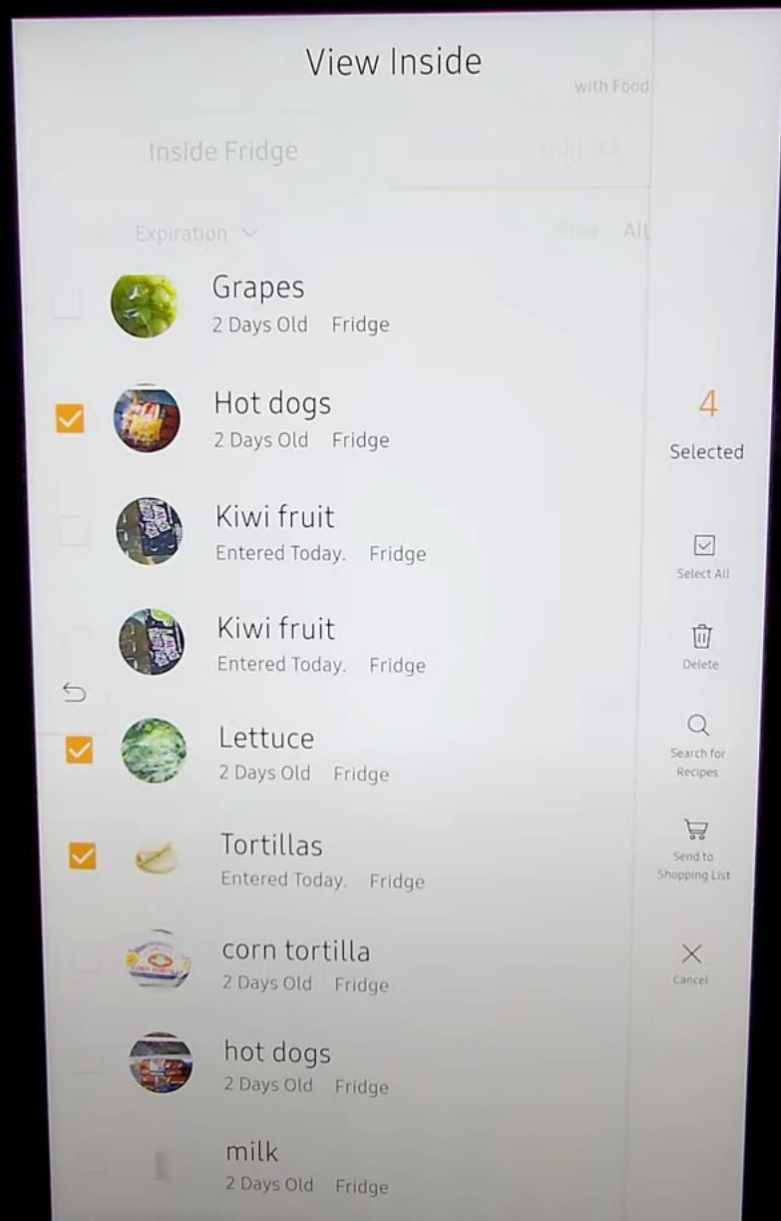
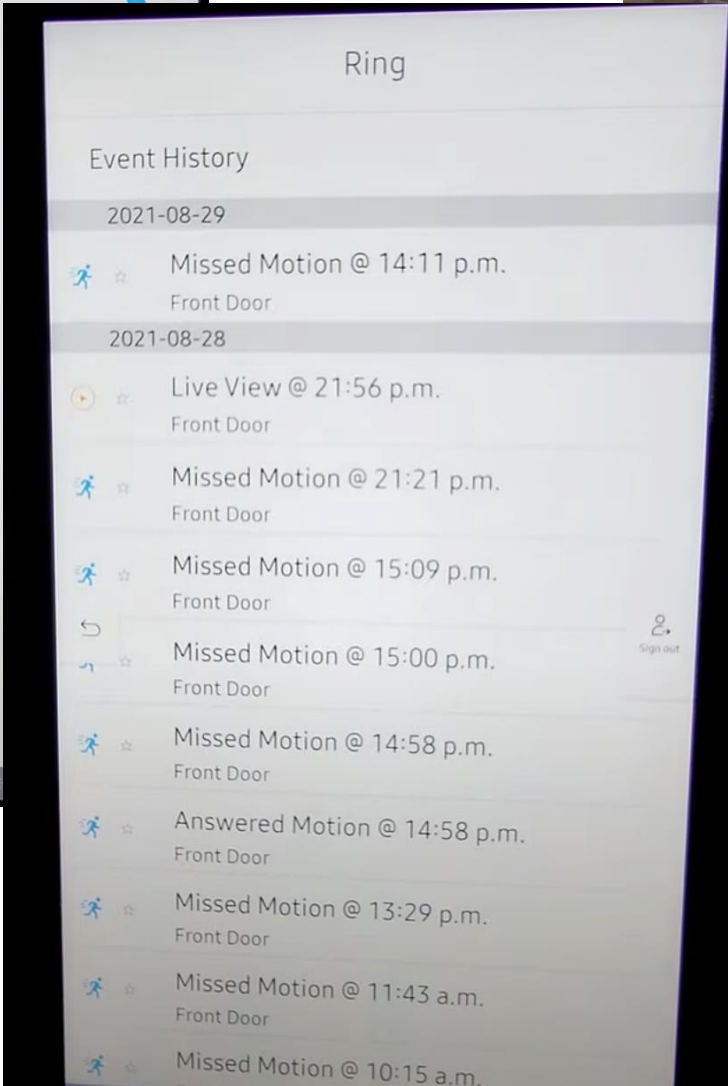
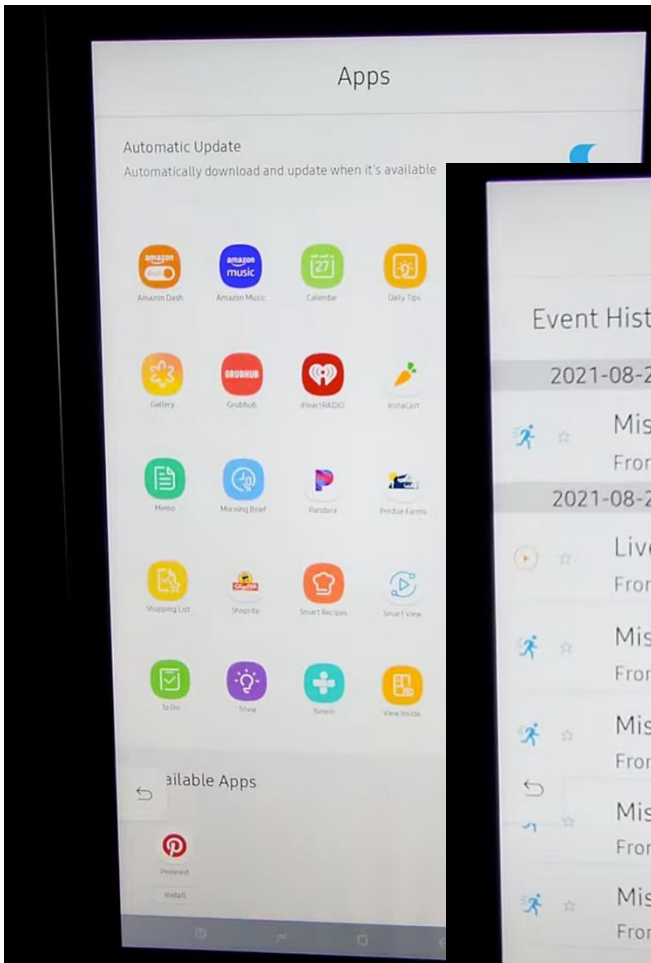
Partner with Samsung Ads

Partner with Samsung Ads
As the largest source of TV data with nearly 60% of the US ACR footprint, Samsung Ads offers unique advertising solutions for Addressable TV buyers.

Samsung Ads' proprietary Device Graph is able to identify more than 200 million connected devices within Samsung households to help advertisers reach audiences on desktop, mobile, tablets, media and gaming consoles offering holistic reach for our clients.

- Let us know the brand and title of the commercial spot you would like to target for your TV Ad Retargeting campaign
- The selected commercial is recognized and instantly matched with our ACR data
- Retargeting campaign is activated for the selected TV commercial based on pre-aligned campaign parameters

https://image-us.samsung.com/SamsungUS/samsungbusiness/samsung-ads/pdfs/SamsungAds_OneSheet_TVAdRetargeting_v7_feb2020.pdf

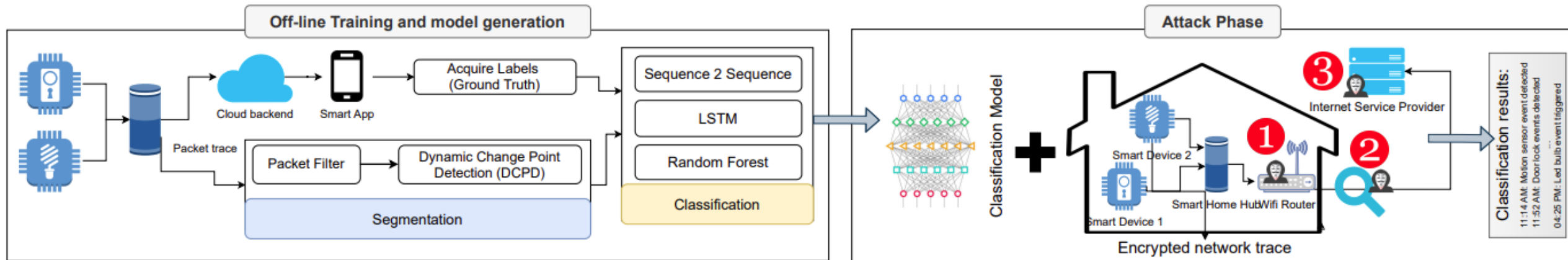


<https://www.youtube.com/watch?v=tBJvvidg1gU>

ChatterHub: Privacy Invasion via Smart Home Hub

Omid Setayeshfar^{*§}, Karthika Subramani^{*§}, Xingzi Yuan^{*}, Raunak Dey^{*},
Dezhi Hong[†], Kyu Hyung Lee^{*}, and In Kee Kim^{*}

<https://par.nsf.gov/servlets/purl/10298285>



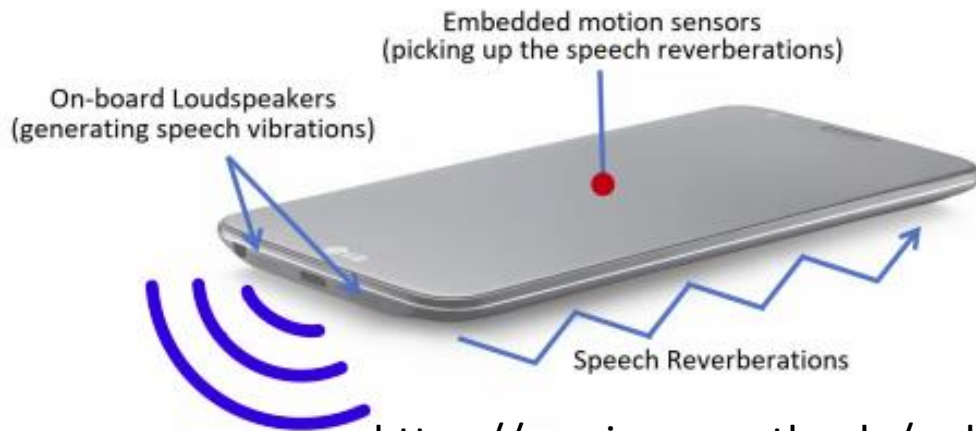
- Targeted Attack.
 - Attacker sniffs the outgoing traffic and can understand the smart-home devices' behaviors, identify household activities patterns, and use the patterns for physical assault.
- ISP-level Tracking.
 - Internet providers can learn the patterns of the households' daily life.
 - Such information can be used for **targeted advertising based on user behaviors or other activities**, potentially violating users' privacy
- Adds some value to manipulation capabilities?

IoT Sensors

Spearphone: A Speech Privacy Exploit via Accelerometer-Sensed Reverberations from Smartphone Loudspeakers

– How using the smartphone in speakerphone mode erodes your privacy –

S Abhishek Anand, Chen Wang, Jian Liu, Nitesh Saxena, Yingying Chen



	10-fold cross validation		Test and train	
	TIDigits	PGP words	TIDigits	PGP words
Gender classification				
Samsung Galaxy S6	0.91	0.80	0.87	0.82
Samsung Note 4	0.99	0.91	1.00	0.95
LG G3	0.89	0.95	0.85	0.95
Speaker classification				
Samsung Galaxy S6	0.69	0.70	0.56	0.71
Samsung Note 4	0.94	0.80	0.92	0.80
LG G3	0.91	0.92	0.89	0.95

<https://mosis.eecs.utk.edu/publications/anand2019spearphone.pdf>

ACComplice: Location Inference using Accelerometers on Smartphones

Jun Han, Emmanuel Owusu, Le T. Nguyen, Adrian Perrig, Joy Zhang
{junhan, eowusu, lenguyen, perrig, sky}@cmu.edu
Carnegie Mellon University

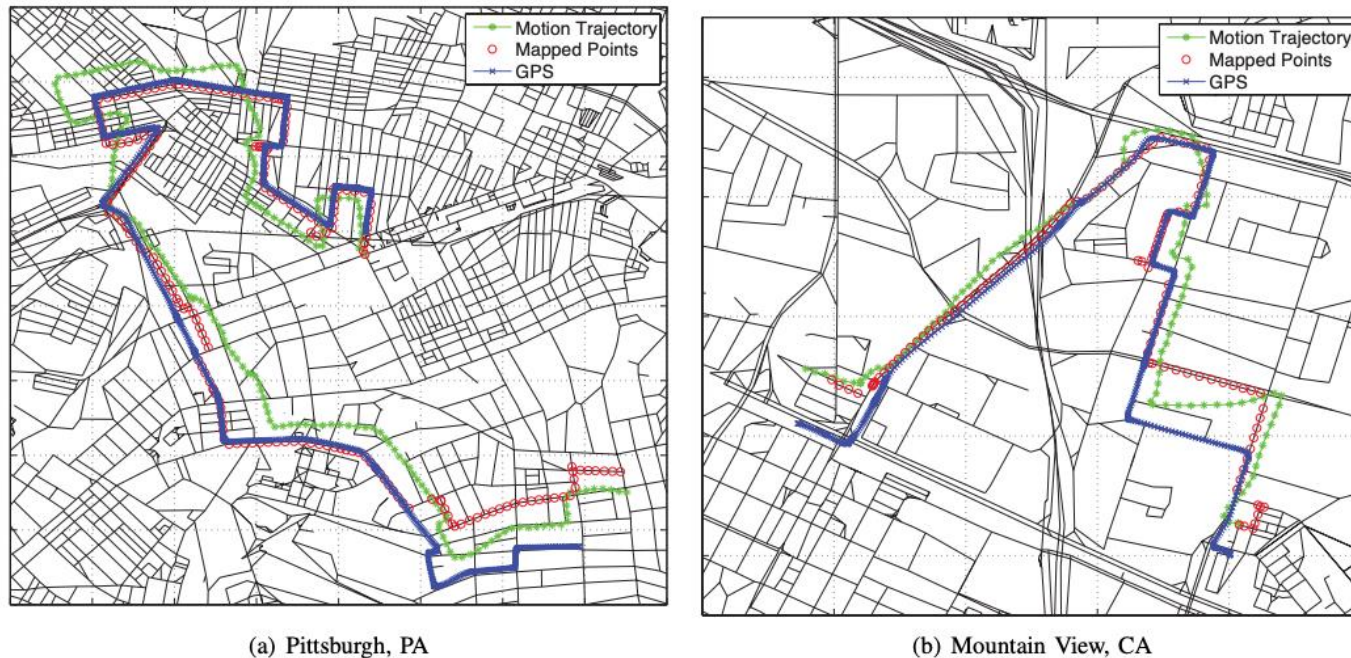


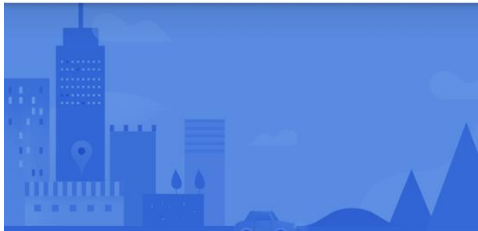
Fig. 7. Verification of map matching algorithm with the known starting point. (a) and (b) show Experiment 2a (Pittsburgh, PA) and Experiment 2b (Mountain View, CA), respectively. The green (star) curve indicates the motion trajectory obtained from ProBIN. The red (circle) curve indicates the mapped points. The blue (x-mark) curve indicates the ground truth (i.e., actual route traveled) obtained from GPS data.

https://netsec.ethz.ch/publications/papers/han_ACComplice_comsnets12.pdf

Adding Car as another IoT

```
→ audi ls
audi.ipynb      audi_connect_ha.ipynb  audi_test.py
→ audi ./audi_test.py --user @mail.de --pd
Unable to obtain the vehicle shortTerm tripdata of WAUZZZ
ortTerm?type=list&from=1970-01-01T00:00:00Z&to=2023-04-25
Unable to obtain the vehicle longTerm tripdata of WAUZZZ
gTerm?type=list&from=1970-01-01T00:00:00Z&to=2023-04-25T0
support_climater set to False: 403
support_charger set to False: 403
support_preheater set to False: 502
Audi Q8 Position (48.250985, 11.637983, '2023-04-25 15:02
Audi Q8 Last Update 2023-04-25T07:02:4
Audi Q8 Door lock Locked
Audi Q8 Model Audi Q8 45 TDI quattro tiptronic
Audi Q8 Mileage 9741 km
Audi Q8 Range 410 km
Audi Q8 Service inspection time 535 days
Audi Q8 Service inspection distance 20300 km
Audi Q8 Oil change time 313 days
Audi Q8 Oil change distance 11200 km
Audi Q8 Oil level 62.5 %
Audi Q8 Tank level 45 %
Audi Q8 Doors/trunk state Locked
Audi Q8 Parking light OK
Audi Q8 Windows Closed
Audi Q8 Doors lock Locked
Audi Q8 Doors Closed
Audi Q8 Trunk lock Locked
Audi Q8 Trunk Closed
Audi Q8 Hood Closed
Audi Q8 Left front door Closed
Audi Q8 Right front door Closed
Audi Q8 Left rear door Closed
Audi Q8 Right rear door Closed
Audi Q8 Left front window Closed
Audi Q8 Right front window Closed
Audi Q8 Left rear window Closed
Audi Q8 Right rear window Closed
```

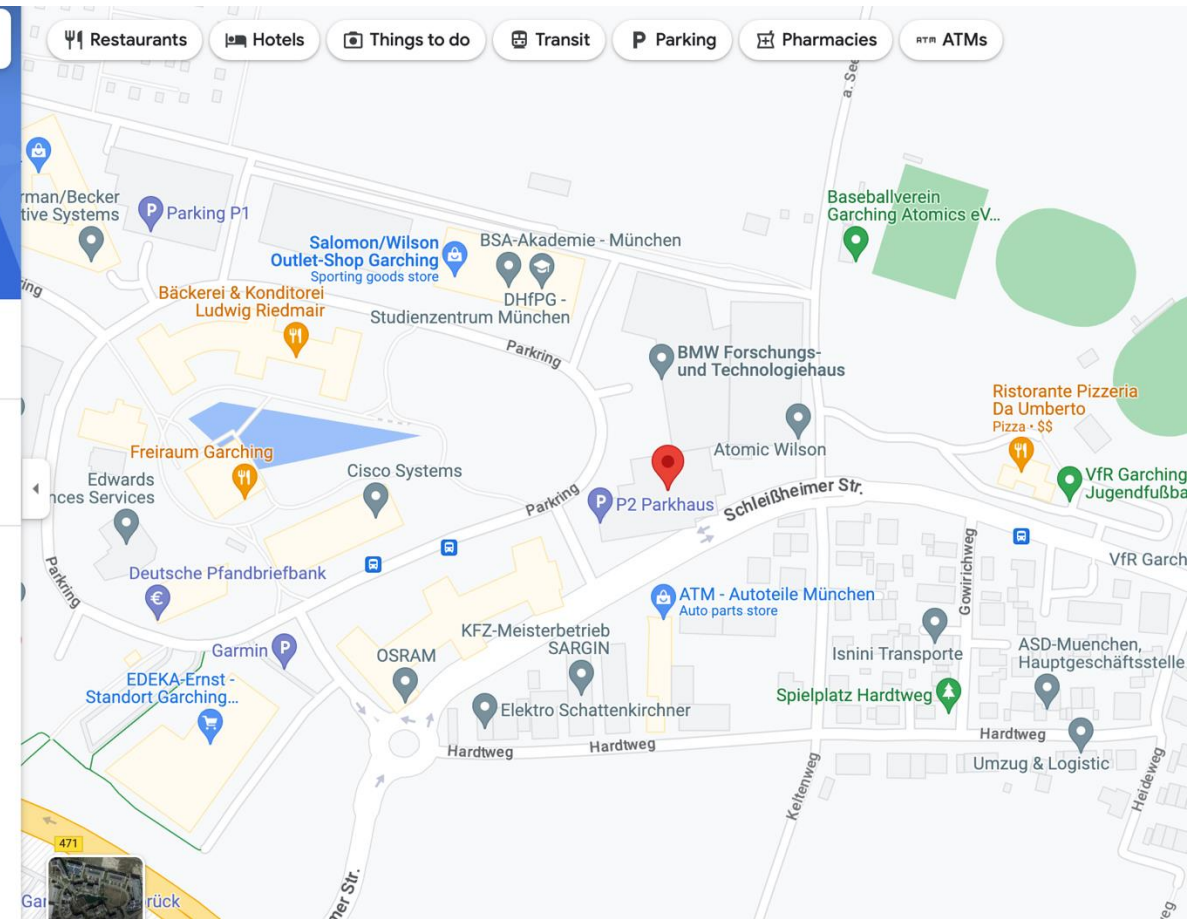
48.250985, 11.637983



48°15'03.6"N 11°38'16.7"E
48.250985, 11.637983

Directions Save Nearby Send to phone Share

- Parking 27, 85748 Garching bei München, Germany
- 7J2Q+95X Garching, Germany
- Add a missing place
- Add your business
- Add a label

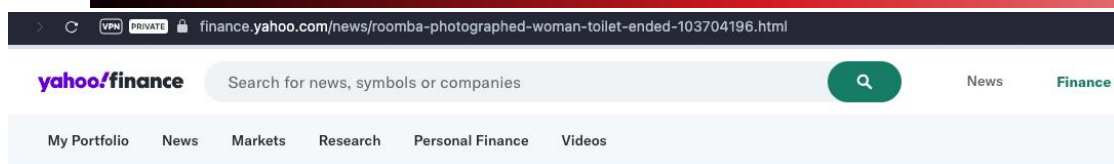


IoT vs older approaches



What	Old school	Social media networks time	IoT end global connectivity
Identity	C00lDude12	Nice_Helene	Ivan Danko
Location	Pretend where you want	Can pretend but exposed and verifiable time to time, mostly outdoors	High precision in location and timing indoors and outdoors
Habbits	What is exposed intentionally , can be faked and biased	Exposed intentionally or not intentionally, trough the human as a proxy who can control the scale	Real habbits in the physical world are sourced directly from the physical sensors, with limited human control on the scale, timing and precission
Virtula/Physical appearance	Virtual	Virtual/partly physical	Physical
Timing	Ocasionally	Regularly	Near real time data

Weaponization



FORTUNE

A Roomba photographed a woman on the toilet and it ended up on social media. Now A.I. experts have this warning about bringing tech into your home



Fortune · Bildquelle/ulstein bild/Getty Images

Eleanor Pringle

January 18, 2023 · 5 min read



COMPUTING

VR headsets can be hacked with an Inception-style attack

Researchers managed to crack Meta's Quest VR system, allowing them to steal sensitive information, and manipulate social interactions.

By Melissa Heikkilä

March 11, 2024



DOGBOY

Hyper-personalized targeting, tracking and social engineering attacks

ADINT: Using Targeted Advertising for Personal Surveillance

Paul G. Allen School of Computer Science & Engineering, University of Washington

Targeted advertising is at the heart of the largest technology companies today, and is becoming increasingly precise. Simultaneously, users generate more and more personal data that is shared with advertisers as more and more of daily life becomes intertwined with networked technology. There are many studies about how users are tracked and what kinds of data are gathered. The sheer scale and precision of individual data that is collected can be concerning. However, in the broader public debate about these practices this concern is often tempered by the understanding that all this potentially sensitive data is only accessed by large corporations; these corporations are profit-motivated and could be held to account for misusing the personal data they have collected. In this work we examine the capability of a different actor -- an individual with a modest budget -- to access the data collected by the advertising ecosystem. Specifically, we find that an individual can use the targeted advertising system to conduct physical and digital surveillance on targets that use smartphone apps with ads.

<https://adint.cs.washington.edu/#>

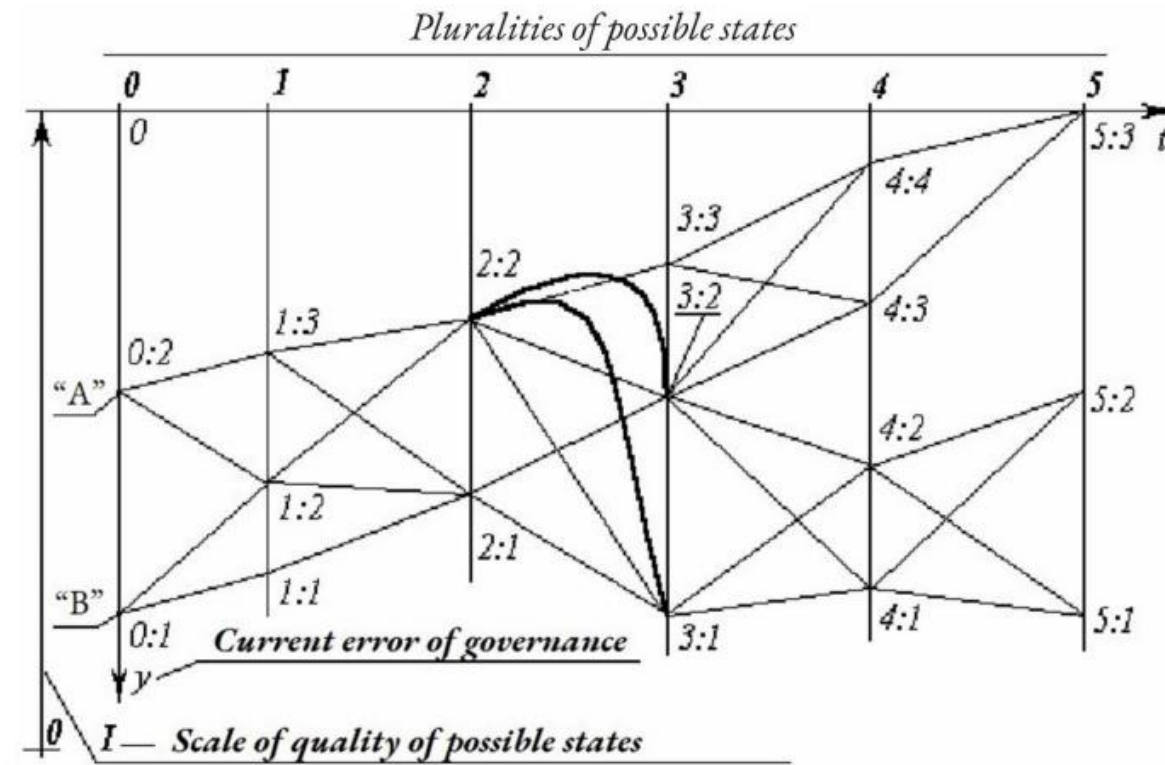
Man in the browser attacks

- **it's quite easy to push cognitive agenda directly to the readers, by faking impression and insights of particular humans about particular events **instead of redirecting financial transactions to the attacker owned accounts.****



IoT Sensing and feeding us with information, both are exploitable

- Targeting physical events
- Sensing ongoing situation
- Affecting the trajectories if needed



Information Bubbles at families, business entities, social groups level

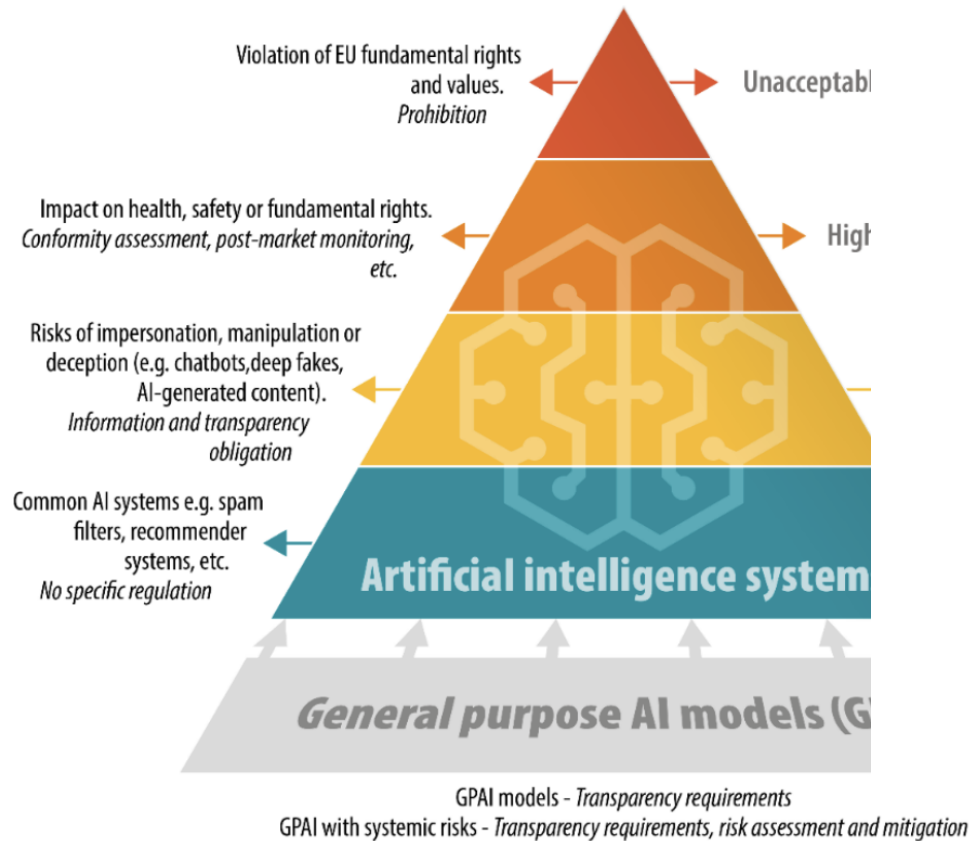
Political Map of the World, April 2001
AUSTRIA
Bermuda Dependency of area of special sovereignty
Stoly / AZORES Island / island group
★ Capital
Scale 1:35,000,000
Robinson Projection
standard parallels 30° N and 30° S



How to deal with it

AI in EU

EU AI act risk-based approach



➤ **Prohibited AI practices.** The final text prohibits a wider range of AI practices than originally proposed by the Commission because of their harmful impact:

- AI systems using subliminal or manipulative or deceptive techniques to distort people's or a group of people's behaviour and impair informed decision-making, leading to significant harm;
- AI systems exploiting vulnerabilities due to age, disability, or social or economic situations, causing significant harm;
- Biometric categorisation systems inferring race, political opinions, trade union membership, religious or philosophical beliefs, sex life, or sexual orientation (except for lawful labelling or filtering in law-enforcement purposes);
- AI systems evaluating or classifying individuals or groups based on social behaviour or personal characteristics, leading to detrimental or disproportionate treatment in unrelated contexts or unjustified or disproportionate to their behaviour;
- 'Real-time' remote biometric identification in public spaces for law enforcement (except for specific necessary objectives such as searching for victims of abduction, sexual exploitation or missing persons, preventing certain substantial and imminent threats to safety, or identifying suspects in serious crimes);
- AI systems assessing the risk of individuals committing criminal offences based solely on profiling or personality traits and characteristics (except when supporting human assessments based on objective, verifiable facts linked to a criminal activity);
- AI systems creating or expanding facial recognition databases through untargeted scraping from the internet or CCTV footage;
- AI systems inferring emotions in workplaces or educational institutions, except for medical or safety reasons.

ZeroTrust upsidedown

- Apply ZeroTrust like principles as an early warning of public opinion manipulation campaigns. Together with that maybe we can find other use cases for this.



Conclusion

Life in the bubbles is often more comfortable, choose you bubbles wise and jump outside at least time to time!

