


Cyber Roundtable
Episode 3

CIAM: The Value of Customer Identity in Today's Digital-First World

 11 April 2023 | 4:15pm - 9:00pm

 Le Meridien, Kuala Lumpur



Welcome

Cyber Roundtable
Episode 3

CIAM: The Value of Customer Identity in Today's Digital-First World

📅 11 April 2023 | 4:15pm - 9:00pm

📍 Le Meridien, Kuala Lumpur



Richie Tan

Cyber & Forensics Partner, PwC
Keynote speaker

CYBER ROUNDTABLE | EP #3

Customer IAM (CIAM)

The Value of Customer Identity
in Today's Digital-First World

[Monday, 11 April 2023 | 4:30pm - 9:00pm | Le Meridien, Kuala Lumpur]

© 2023 PwC Consulting Associates (M) Sdn Bhd. All rights reserved. "PricewaterhouseCoopers" and/or "PwC" refers to the individual members of the PricewaterhouseCoopers organisation in Malaysia, each of which is a separate and independent legal entity. Please see www.pwc.com/structure for further details.

Hello, tomorrow.

A CIAM presentation

Welcome to our **third installment** of PwC Malaysia's cybersecurity roundtable event. Cybersecurity has always been about a journey and not a destination. We're happy to have you join is in this journey together in building a community towards creating safer ecosystems and making an impact in society.



The background of the slide is a photograph of a woman with curly red hair sitting at a desk in an office. She is looking down at a laptop with a concerned expression, her hand resting on her head. The office environment includes a printer, papers, and other desk equipment.

Threat actors are **significantly affecting** organisations in 2023 compared to 2022

PwC's 2023 Digital Trust Insights

“

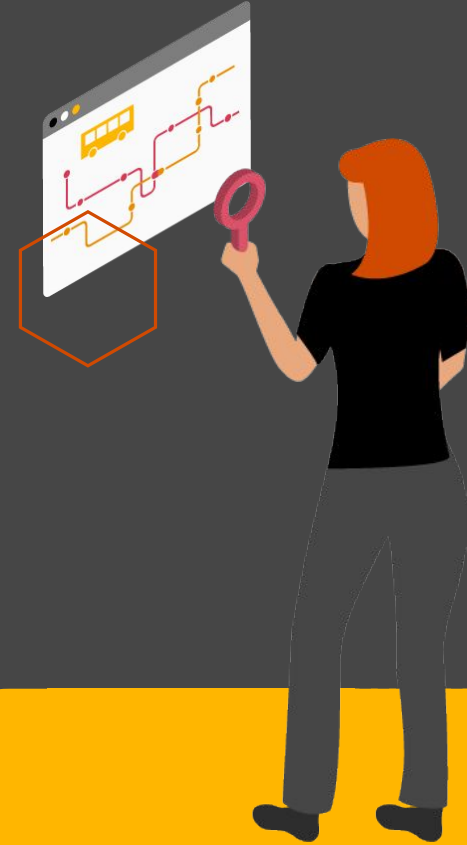
Threat vectors most organisations expect to *significantly affect their organisation* in 2023:

PwC's 2023 Digital Trust Insights
The Southeast Asia Perspective

 **46%**
Web applications

 **43%**
Humans/users (social engineering)

 **41%**
Software supply chain and access



The challenge

Customer identity is a moving target

In the world of customer experience, nothing stands still. New requirements, applications, capabilities, and tooling are introduced frequently in an ever-changing environment.

Success cannot be achieved by simply performing a one-size-fits all approach. One cannot simply approach the world of customer identity armed with a sledgehammer.



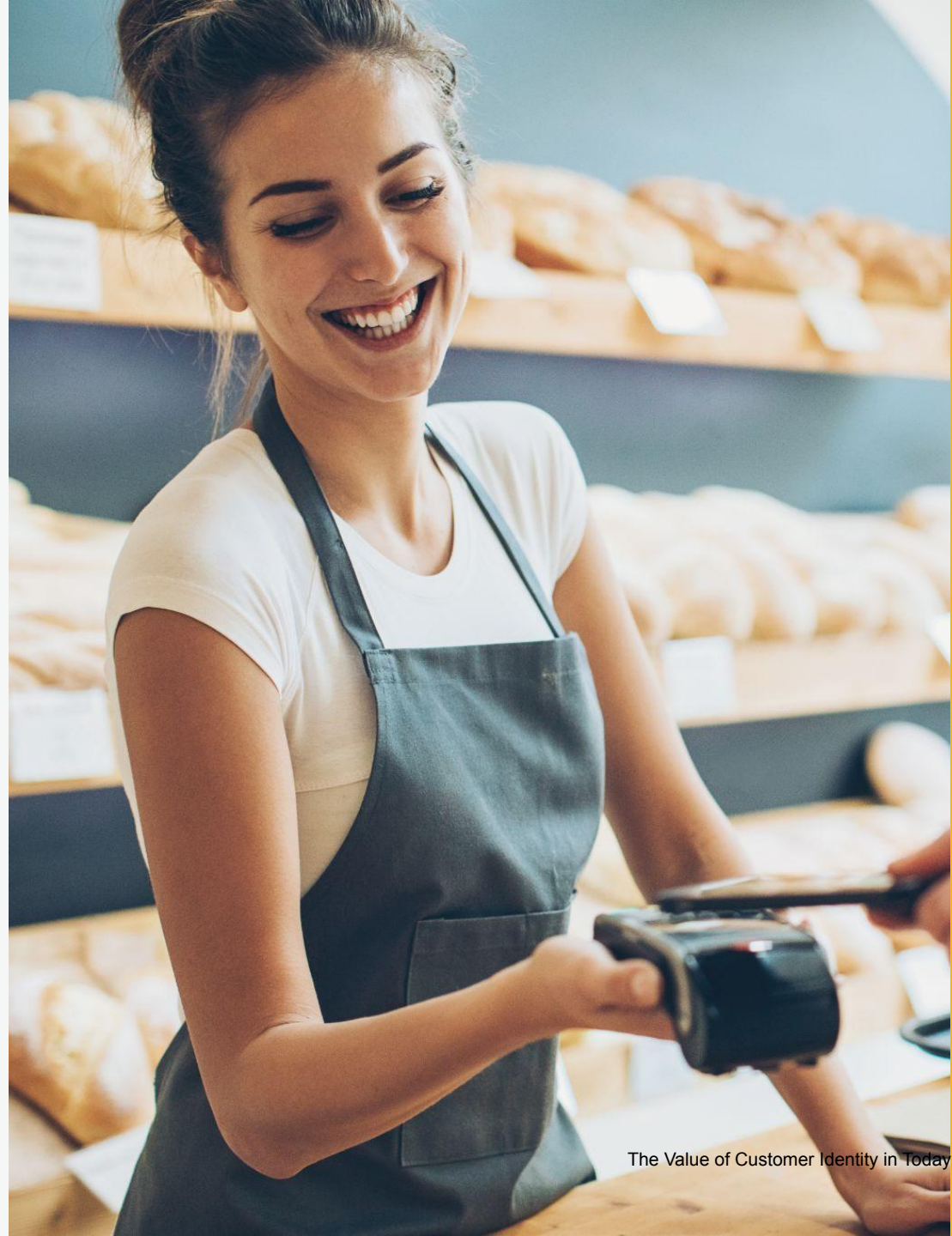
Questions to ponder

Customer identity as a moving target

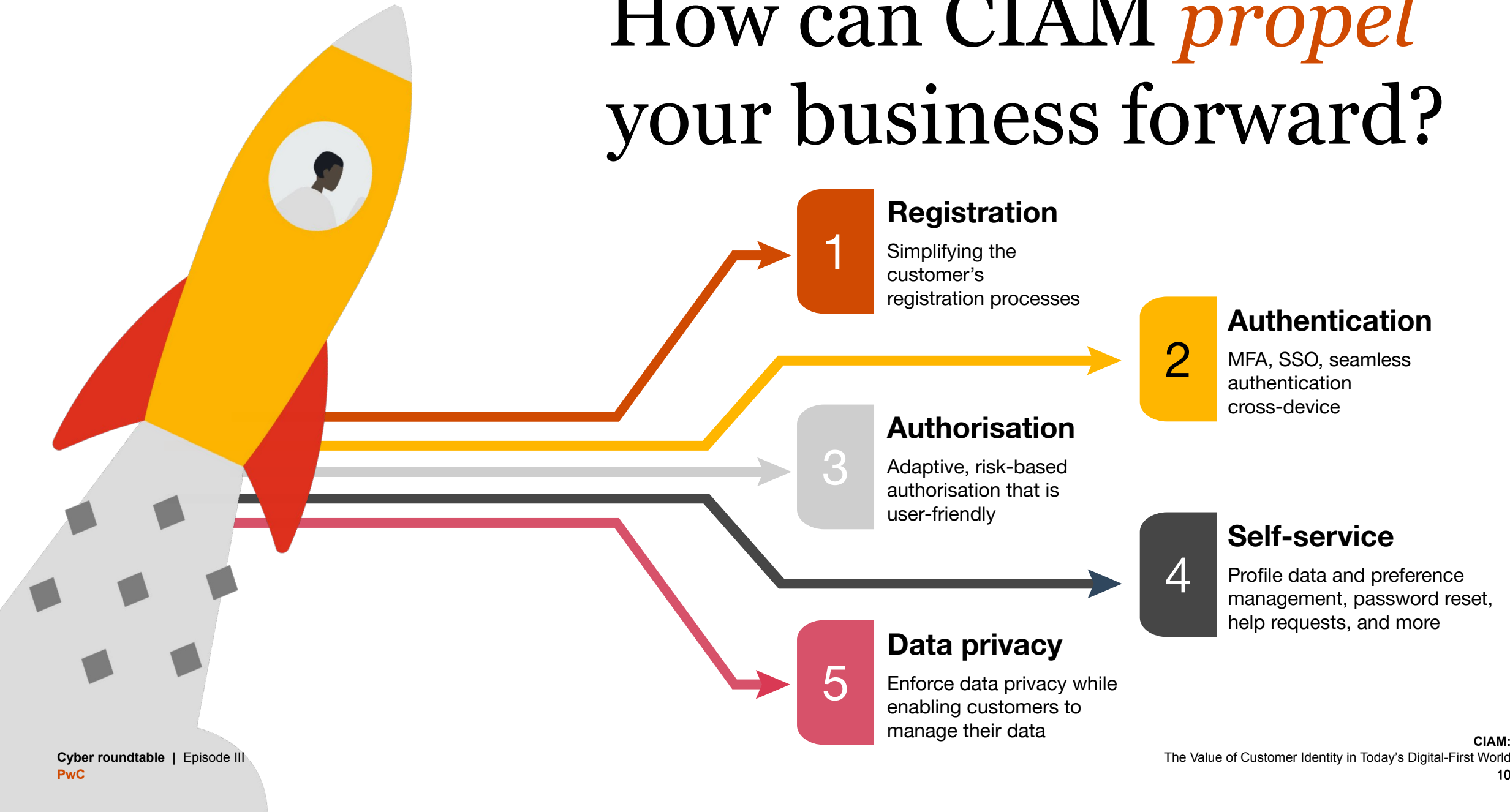
- 01 Do you have a **seamless and user-friendly experience** for customers **across multiple channels and devices**, while also ensuring security and privacy?
- 02 Do your existing customer authentication and authorisation platforms provide **multi-factor authentication, risk-based authentication**, and **fraud detection capabilities**?
- 03 **Are you compliant** (e.g. RMIT, PDPA, GDPR, PCI DSS), with the capability to cater to consent management, data access requests, and data portability?
- 04 Are you able to **scale sustainably** and have you projected forwards to cater to large numbers of customer identities and access requests while doing so **cost-effectively**?

Enter CIAM

Customer Identity Access Management (CIAM) is a type of identity technology that allows organisations to manage customer identities, providing security and an enhanced experience. The primary purpose of CIAM is to help organisations deliver a great experience to customers and to protect their user data.



How can CIAM *propel* your business forward?



So, why are we here today?



Explore new POVs on securing your customers' identity using by exploring new CIAM concepts and tools that can bolster your current identity security technology stack.



Question conventional wisdom to understand perspectives on customer identity from industry leaders and experts, to share ideas and challenge the common narratives.



Network and rub shoulders with industry peers, thought leaders, and executive leadership to expand horizons and build your connections while sharing bold, new ideas.



Thank you

We look forward to a collaborative partnership
in building a secure world.

pwc.com/my

© 2023 PwC Consulting Associates (M) Sdn. Bhd. All rights reserved. PwC refers to the Malaysia member firm, and may sometimes refer to the PwC network. Each member firm is a separate legal entity. Please see www.pwc.com/structure for further details. This proposal contains information that is proprietary and confidential to PricewaterhouseCoopers, and shall not be disclosed outside the recipient's company or duplicated, used or disclosed, in whole or in part, by the recipient for any purpose other than to evaluate this proposal. Any other use or disclosure, in whole or in part, of this information without the express written permission of PricewaterhouseCoopers is prohibited.

Cyber Roundtable
Episode 3

CIAM: The Value of Customer Identity in Today's Digital-First World

📅 11 April 2023 | 4:15pm - 9:00pm

📍 Le Meridien, Kuala Lumpur



Johan Fantenberg

Principal Solutions Architect - APJ,
ForgeRock
Speaker



The Modern Customer Identity & Access Management (CIAM)

Kuala Lumpur
Johan Fantenberg
April 11, 2023

Everything we do is digital.

The relationship between people and
technology is **existential**

CIAM: Consumer Identity and Access Management

78%

of consumers want digital versions of in-person experiences

90%

of B2C organizations will compete on the basis of customer UX by 2024

#2

market driver for CIAM is fraud reduction, security, and privacy

Gartner predicts the following: *“By 2025 adoption of CIAM with converged fraud detection and passwordless authentication will be able to reduce customer churn by more than half.”**

*Gartner. “Innovation Insight for Customer Identity and Access Management.” Gartner.com. 9 December 2021. Accessed June 2022

CIAM Provides Tangible Benefits

INCREASE CUSTOMER ACQUISITION

Customer On-Boarding



133%

Customer Conversion
Increase

Customer Experience



400%

Increased Customer
Engagement

REDUCE RISK

Security & Privacy



\$4.7M

Fraud Impact
Reduction

SAVE ON COSTS

Operational Efficiency



40%

Reduction in Security
Related Calls to Call
Center

**ForgeRock customers benefits over 3 years. Source: Forrester TEI Economic Study July 2022*

Experience & Security

INCREASE CUSTOMER ACQUISITION

Customer On-Boarding



Customers may abandon a difficult account registration process

Customer Experience



Customers may engage less after just one bad experience

REDUCE RISK

Security & Privacy



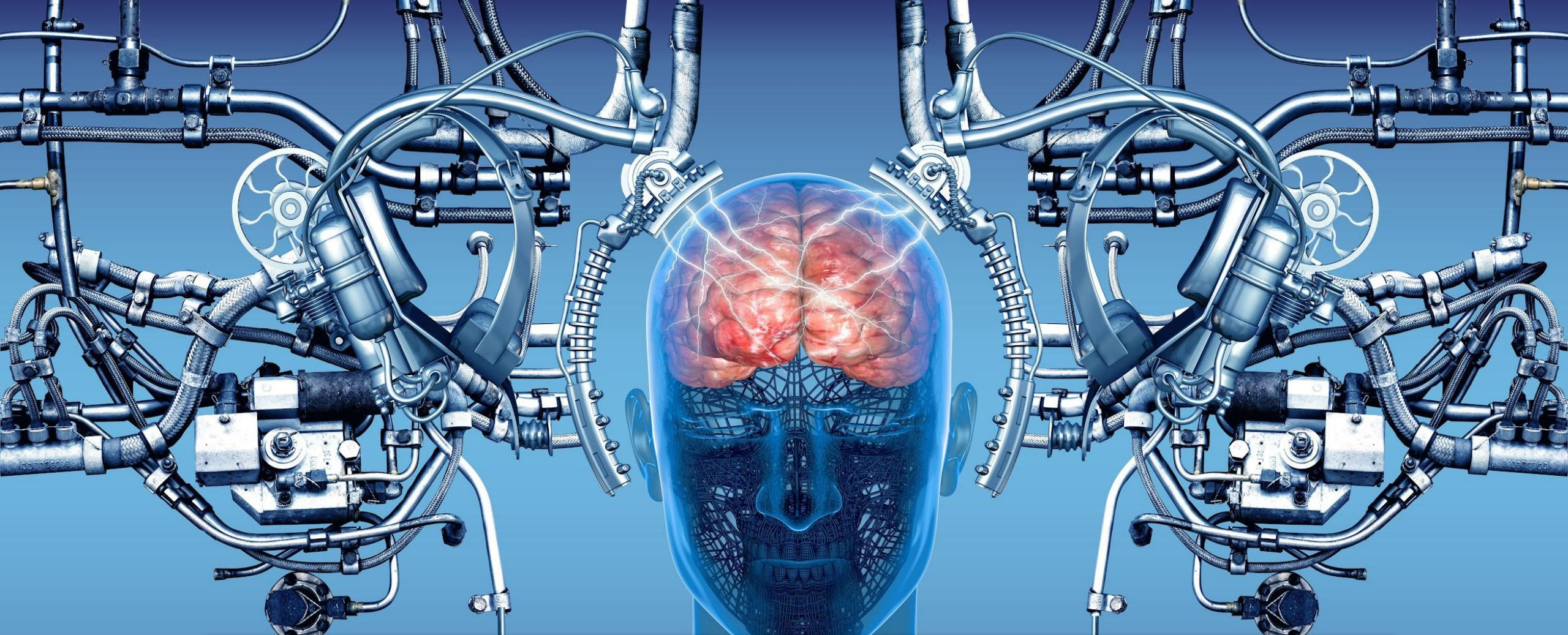
Most organizations will experience at least one data breach due to digital transformation

SAVE ON COSTS

Operational Efficiency



High helpdesk costs and limited developer resources to respond quickly to digital business needs



CIAM is the right place to unify
systems of intelligence

(Image credit: <http://csnblog.specs-lab.com/2014/05/25/neuroprosthetics-wearable-tech-inside-the-brain/>)

A dynamic, low-angle shot of a bowling strike. A red bowling ball is in the foreground, having just struck a cluster of white bowling pins with red stripes. The pins are flying through the air in various directions, creating a sense of motion and impact. The background shows the blue and white structure of a bowling alley.

Bad actors have perfected their game

The king of attack vectors is **unauthorized access**

50%

For the fourth consecutive year, **unauthorized access** was the leading cause of U.S. breaches, up from **45%** in 2020

24%

Method no. 2, with a bullet, was **phishing**

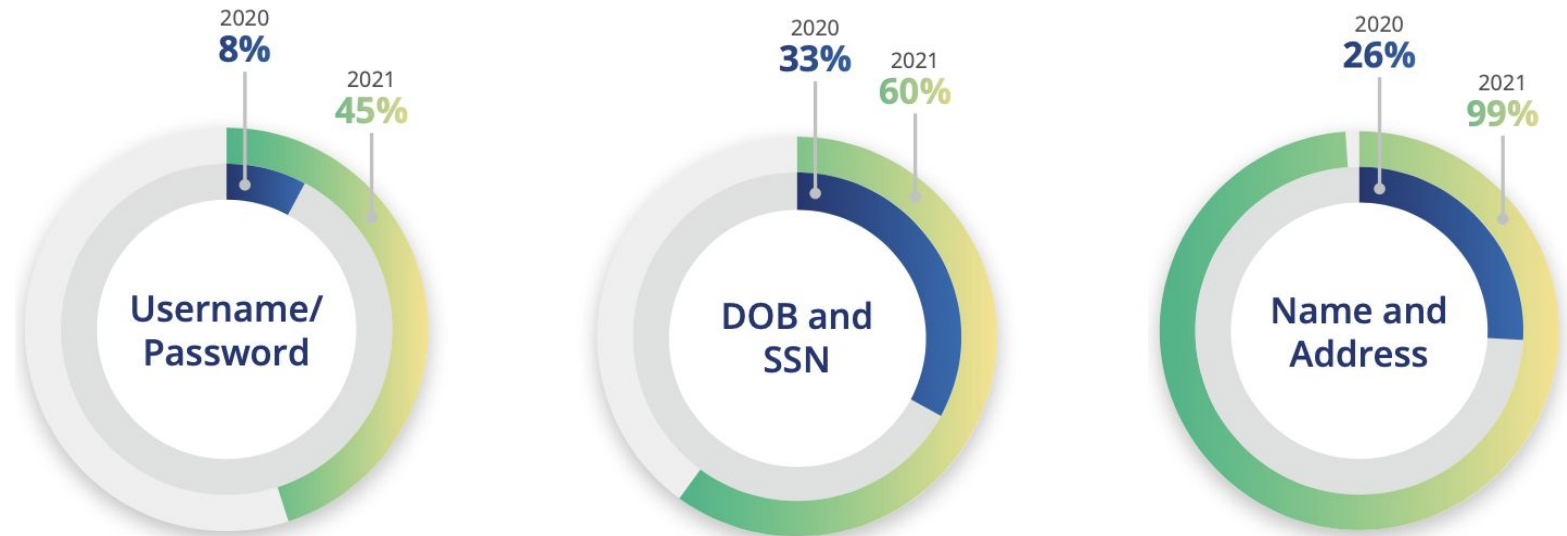
22%

Supply chain and third-party attacks grew **297%** to become method no. 3 – the cause of almost **500** breaches vs. **126** in 2020

It's a one-two punch

Credentials from previous breaches enable ever more data-rich breaches, widening the impact to users and businesses

60% of all records breached included SSN, DOB, or both — a sharp rise from the **33%** seen in 2020



*2022 ForgeRock Consumer Identity Breach Report published in July

Consumer trust has sunk, fast

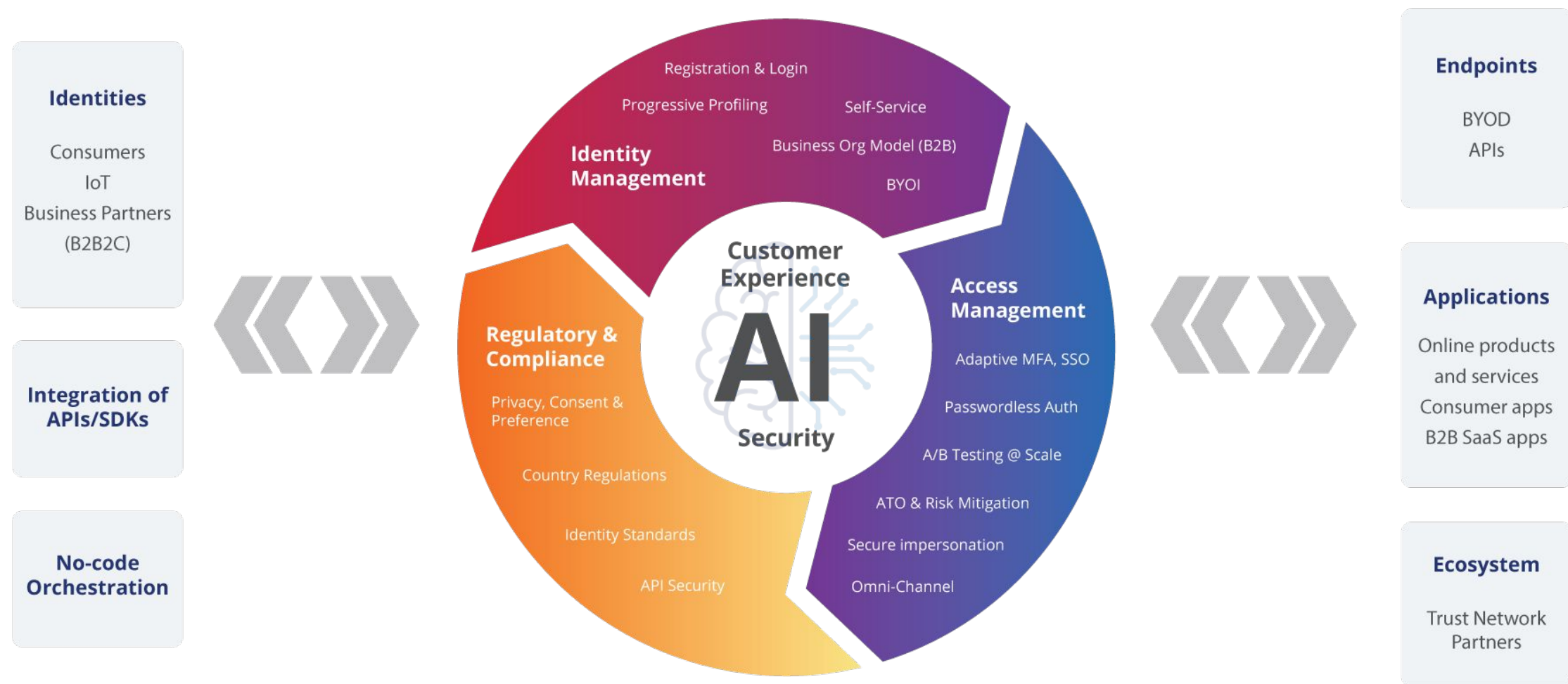
74%

of U.S. adults now **highly value** their data privacy

20+ points more than other typical ethical issues of the day

Power Safe, Simple Consumer Journeys With Identity

Focus on CX to create a loyal customer base with a positive life time value



What About Passwordless?

Passwordless Factor

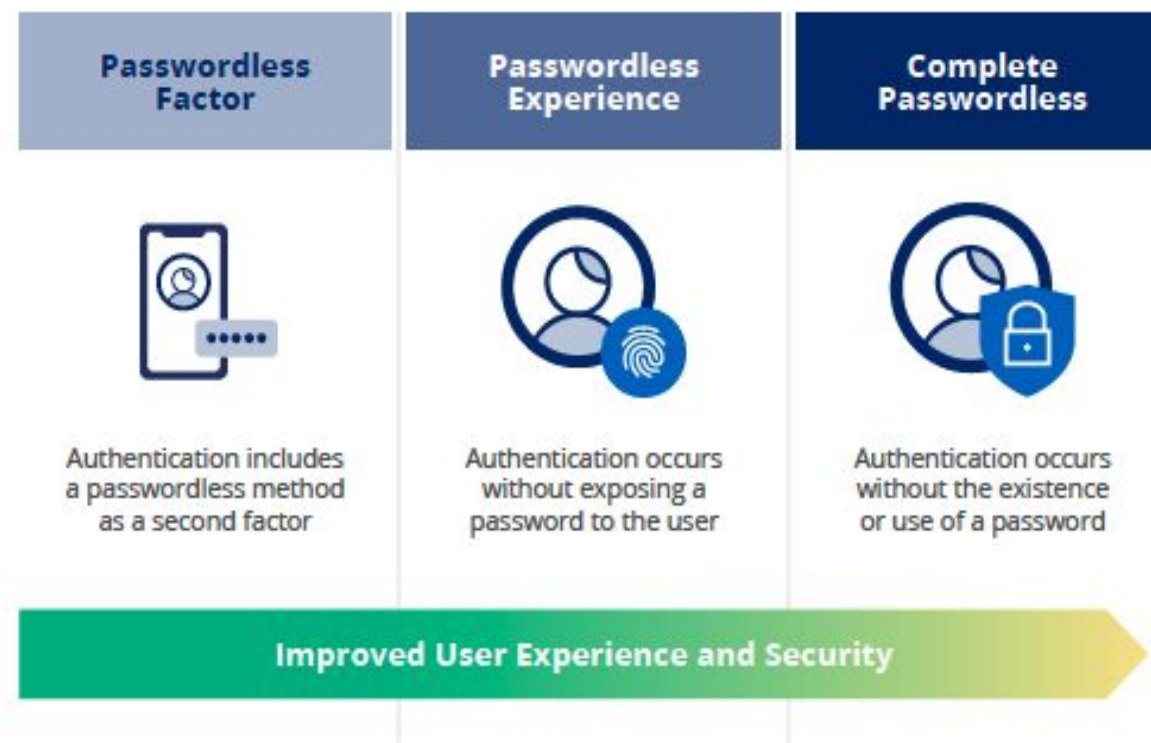
Use a passwordless method, such as a push notification or an emailed magic link, as an additional authentication factor beyond a password.

Passwordless Experience

Remove the password from the user experience and perform any password-based authentication securely in the background.

Complete Passwordless

Eliminate creation and use of passwords completely and perform authentication with biometrics or private-key cryptography.





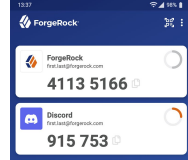
FIDO solutions are changing the game WebAuthentication & Passkeys

Passwordless Considerations

Passwordless Authentication Methods



WebAuthn/Passkey



OTP (OATH)



Push



Biometrics



QR Code

Orchestration (signal collectors and user journeys)



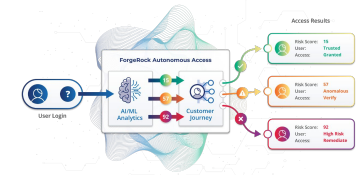
General Signals



Device Signals



Intelligent Signals



Intelligent Access

Application Integration



Standards (SAML, OIDC)



Gateway



Agents



SDK



Workstation & Servers



Radius



Remote Desktop



LDAP



REST

Five Big Ideas...and Two Foundations

We believe in...



Decentralized Identity & Wallets

Wallets as the last thing you may ever log in to

IDENTITY USERS



Privacy & Relationships

No data about you without you



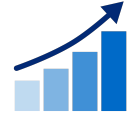
AI & Intelligent Decisioning

Enhancing experience and safety with intelligent automation



Orchestration & Ecosystem

Getting identity users and developers into the flow



Marketplace & Extensibility

A world of choice to make best better

IDENTITY IMPLEMENTERS



Security & Experience

The twin foundations of modern digital identity



Cyber Roundtable
Episode 3

CIAM: The Value of Customer Identity in Today's Digital-First World

11 April 2023 | 4:15pm - 9:00pm

Le Meridien, Kuala Lumpur



Tanvinder Singh

Cybersecurity Director, PwC
Speaker

CYBER ROUNDTABLE | EP #3

Customer IAM (CIAM)

CIAM Security and Compliance

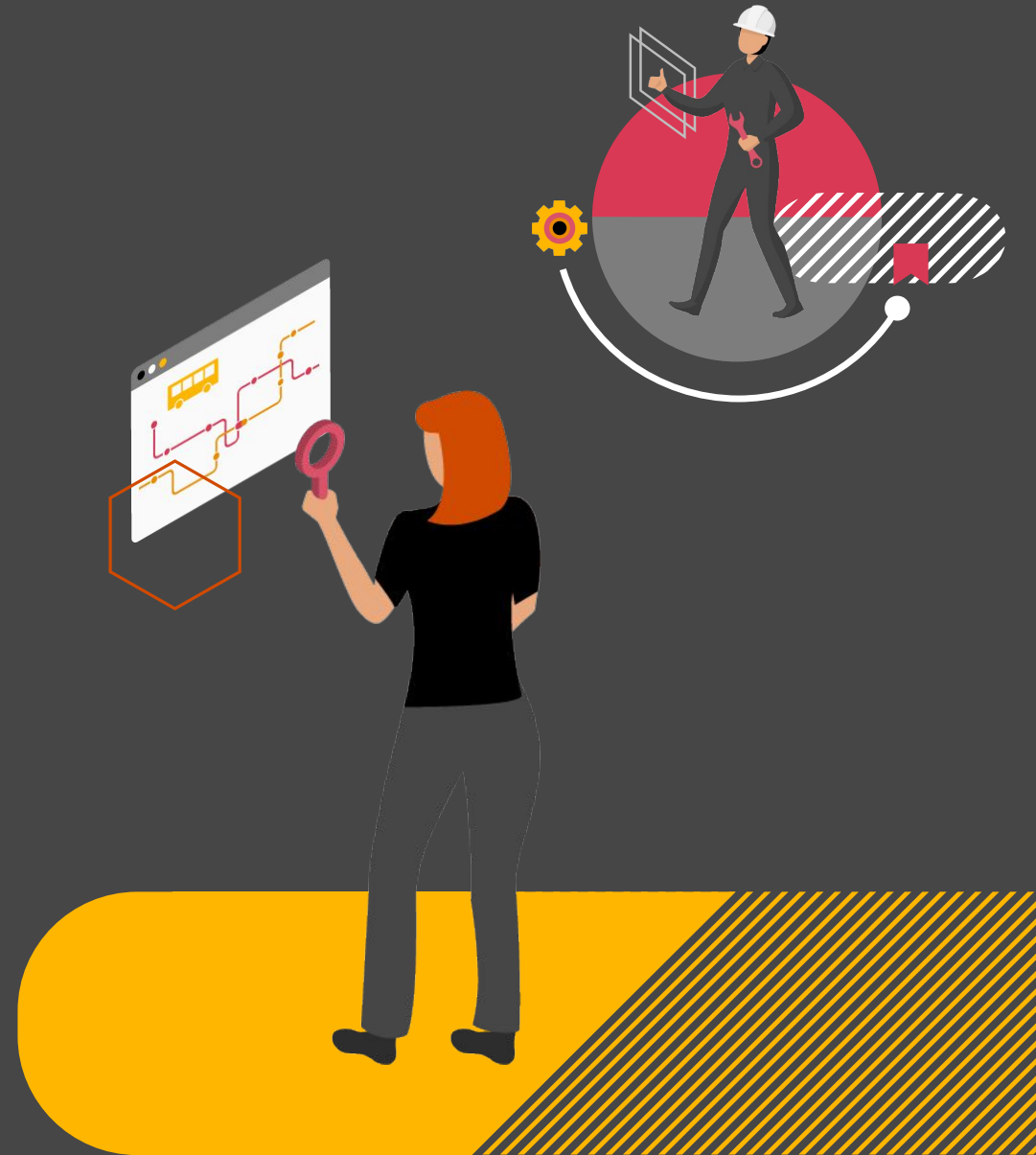
[Monday, 11 April 2023 | 4:30pm - 9:00pm | Le Meridien, Kuala Lumpur]

© 2023 PwC Consulting Associates (M) Sdn Bhd. All rights reserved. "PricewaterhouseCoopers" and/or "PwC" refers to the individual members of the PricewaterhouseCoopers organisation in Malaysia, each of which is a separate and independent legal entity. Please see www.pwc.com/structure for further details.

Customer identity

\ Kuh · stuh · muh Ai · den · tuh · tee \

1. The consumption pattern through which a consumer describes themselves.





We know what CIAM is

**But
why
use it?**



*CIAM is woven into **every stage** of the customer's relationship with your organization*



CIAM enables businesses to enable quick, convenient, secure and unified access across multiple channels.



Allows you to use customer data, including customer behavior, to **understand your target audience better** and tailor your service, products, and marketing

Frictionless security



Enables seamless authentication between people, systems, and things, while still remaining secure.



Enhanced user experience

Improved security

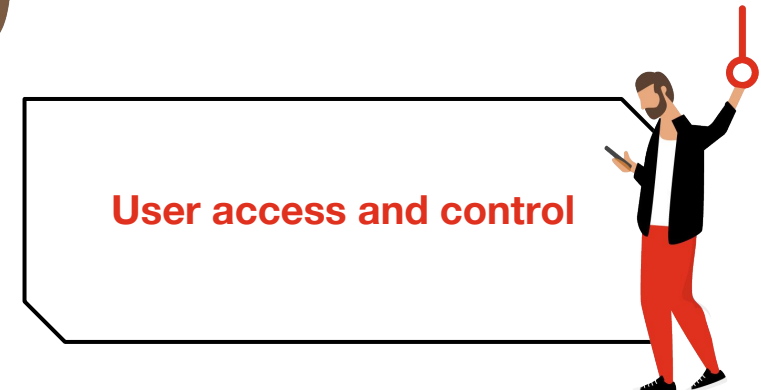
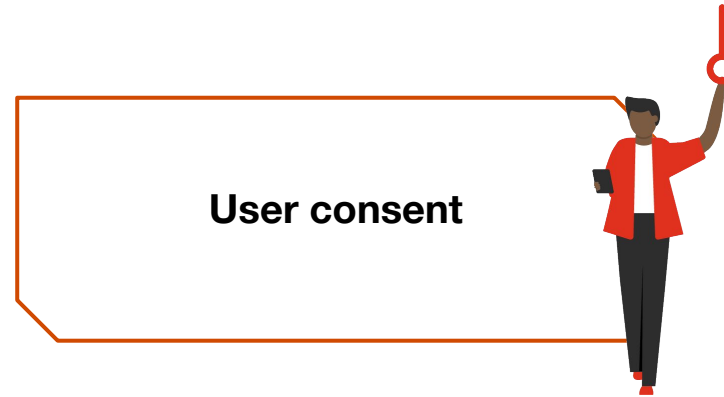
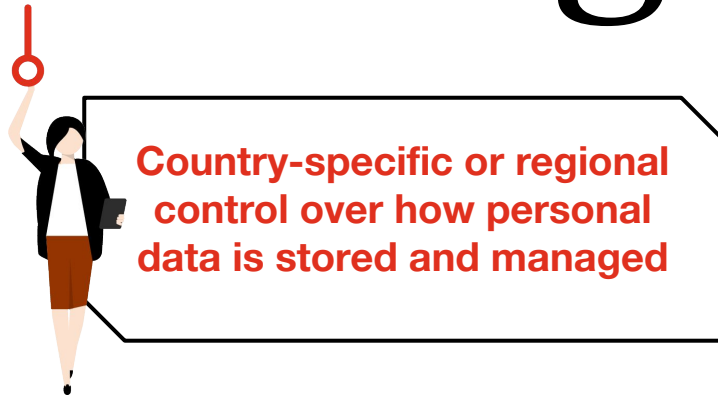
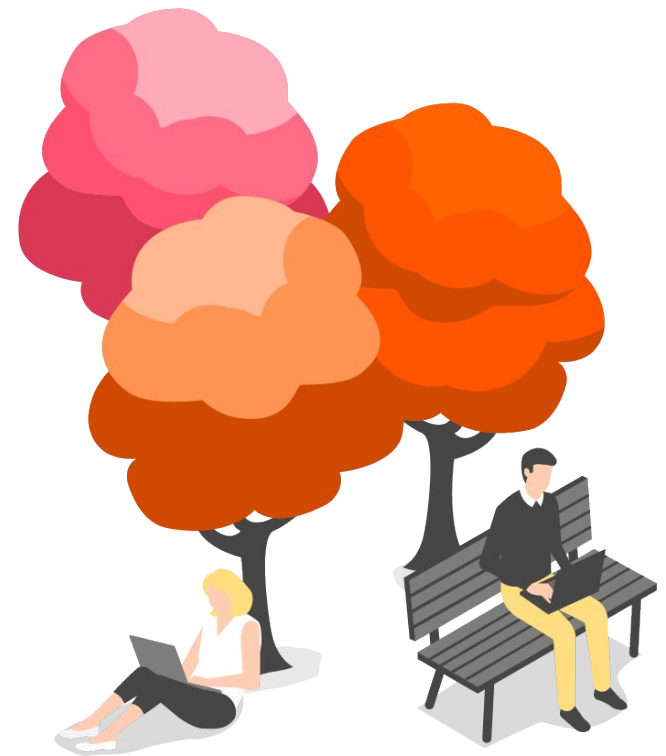


Better conversion rates

Tangible savings towards password reset / customer support



Strong privacy management



Customer *analytics*

- ↑ Personalised marketing
- ↑ Fraud Detection
- ↑ Cross-selling and upselling
- ↑ Improved customer retention



Integration with APIs



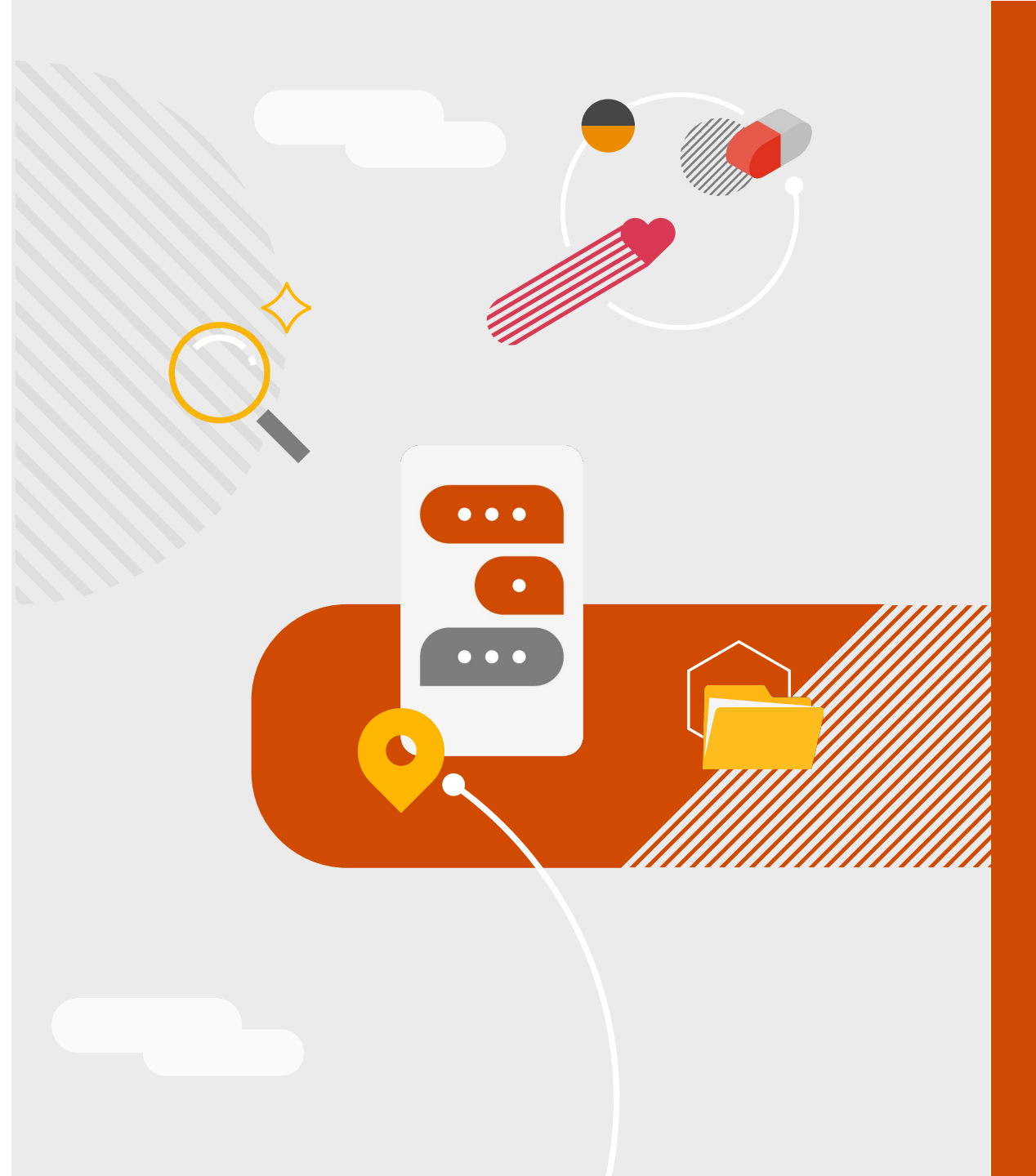
Connects all native and third-party applications that handle customer data



Create a seamless user experience across multiple channels and devices



Higher user satisfaction, improved engagement, and increased loyalty.



Data access control and *aggregation* *process*



Centralized control



Granular access control



Data aggregation



Compliance - consent
management, data deletion,
and data portability.



Maintaining compliance with **CIAM**

Frictionless security

Enables seamless authentication between people, systems, and things, while still remaining secure



Strong privacy management

Country-specific or regional control over how personal data is stored and managed



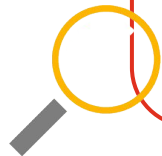
Integration with APIs

Connects all native and third-party applications that handle customer data



Data access control and aggregation process

Develops schemas flexibly so that data is securely protected yet available



Customer analytics

Advanced CIAM solutions have the ability to tie in customer analytics



What do the regulators say?



Bank Negara Malaysia stresses the importance of customer identity security



The **Risk Management in Technology (RMiT)** lists **14 clauses** that can be fulfilled with CIAM

RMiT requirements that **CIAM** can help you comply with

Adequate protection of customer data

Adequate measures to authenticate customer identity

Ensure legitimate transaction authorisation

Establish a set of factors reflecting the characteristics of financial transactions

Ensure sufficient and relevant digital service logs are retained

Key takeaways in the value of customer identity in today's digital-first world

Securing CI/CD pipelines in a multi-cloud enterprise can be a complex task, but DevSecOps and automation can bring a number of benefits to a multi-cloud environment, including:

1

CIAM enables a relationship between the customer and the organisation



2

CIAM provides a seamless digital experience for customers



3

Define your CIAM strategy



4

Leverage on CIAM to meet legal requirements





Thank you

We look forward to a collaborative partnership
in building a secure world.

pwc.com/my

© 2023 PwC Consulting Associates (M) Sdn. Bhd. All rights reserved. PwC refers to the Malaysia member firm, and may sometimes refer to the PwC network. Each member firm is a separate legal entity. Please see www.pwc.com/structure for further details. This proposal contains information that is proprietary and confidential to PricewaterhouseCoopers, and shall not be disclosed outside the recipient's company or duplicated, used or disclosed, in whole or in part, by the recipient for any purpose other than to evaluate this proposal. Any other use or disclosure, in whole or in part, of this information without the express written permission of PricewaterhouseCoopers is prohibited.