ปรับตัวรับกับ E-Platform ไปพร้อมกับการเปลี่ยนแปลงในยุคดิจิทัล

....Or Go Digital: Right way or Wrong way?

What people want from E-Platform?

- Less paper!
- Less time
- Better integrity
- Traceability
- Save money *(in the long run)*

………Only if we do it right!

E-Platform is an ecosystem

- AKA: Digital platform
- Not a single app, but a group of apps (or systems) working together
- And it's about the mindset too

Transformation: The wrong way to go

- Technology first
- Serve no purpose
- Too little, too late
- Make life harder
- It's IT dept. job!

The usual transformation: eDocument

- 2-type of eDoc: Human readable and Machine readable

- How can eDocument help?

- It's all about data, not presentation

- Next step of "eDoc": Automation
  - The weakest link in digital transaction: Human

eDocument cycle

Hot issues: Document Integrity

- Unauthorized modification
- Signature forgery
- Date forgery

You need eSignature!

eSignature

- Basically, there are 3 types of eSig.
  - Basic, Cryptographic and Certified Cryptographic
  - Do not have to use the best (=most difficult) one – assess your risk first!
  - But only the cryptographic signature can *scientifically* preserve integrity!
- The goals of using eSig are:
  - Show intention
  - Maintain integrity
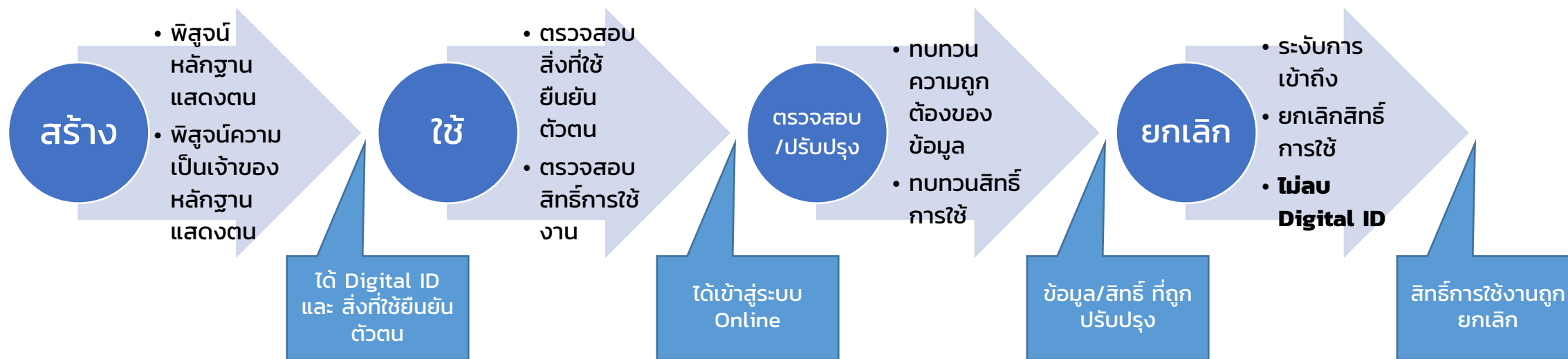- You can solve integrity problem with something else. Don't worry (too much) about it.

The gatekeeper: Authentication system

- Give the right service to the right people.

- Or ONLY give service to the right people.

- But how?
  - User/password?
  - OTP?
  - Biometric?

Authentication – too much or too little?

- Strong authentication is…. usually good.

- For multi-million THB transaction, 16-letter complex password with OTP and facial recognition might sound just right.

- But you don't need this kind of authentication when you want to order some pizza online!

- Don't let technology leads the way.

Digital ID Lifecycle*

สร้าง
- พิสูจน์หลักฐานแสดงตน
- พิสูจน์ความเป็นเจ้าของหลักฐานแสดงตน

ได้ Digital ID และ สิ่งที่ใช้ยืนยันตัวตน

ใช้
- ตรวจสอบสิ่งที่ใช้ยืนยันตัวตน
- ตรวจสอบสิทธิ์การใช้งาน

ได้เข้าสู่ระบบ Online

ตรวจสอบ/ปรับปรุง
- ทบทวนความถูกต้องของข้อมูล
- ทบทวนสิทธิ์การใช้

ข้อมูล/สิทธิ์ ที่ถูกปรับปรุง

ยกเลิก
- ระงับการเข้าถึง
- ยกเลิกสิทธิ์การใช้
- **ไม่ลบ Digital ID**

สิทธิ์การใช้งานถูกยกเลิก

Not really a cycle

Authentication ecosystem

- "Authentication as a service"
- Having user database on every system might not a good idea…
  - Because user database contains PASSWORD!
  - There are some effective measurements for this problem but……
- Ask some professional to do this for you!
  - Google and Facebook provide an authentication service for free.
  - And some others, for free or for fee.
  - They "speak" in standard language (protocol): OAuth2, OIDC or SAML

The heart of automation: Data Exchange

- Machines don't understand out language….

- Remember the Machine-readable document?

- Any format of Machine-readable data is OK, but…
  - It's must be agreed upon
  - Should be an open format
  - Being in use widely is nice….

- PDF is not the one

- XML, JSON, CSV are worth considering

Standard way or my way?

- It's not easy to follow a standard
  - Sometimes it's expensive too.

- But there are some benefits
  - Interoperability
  - Security
  - Less time to market
  - Good public image
  - Etc.

- Can you do it your way and get all the benefits above?
  - Yes, but….

Thank You

Question?

Join ADTE for more details!