

Identità digitale: cos'è e perché è il new black della cybersecurity

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CONFINDUSTRIA TRENTO



UNIVERSITÀ
DI TRENTO

CYBERSECURITY TALKS



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Cos'è l'identità digitale?

- Identità = collezione di **attributi** relativi ad un'entità
- Attributo = caratteristica o proprietà di un'entità che permette di descriverne l'apparenza, lo stato o altre sue caratteristiche
- Identità digitale = identità i cui attributi sono memorizzati, trasmessi e processati in formato digitale



email



telephone
number



name



age



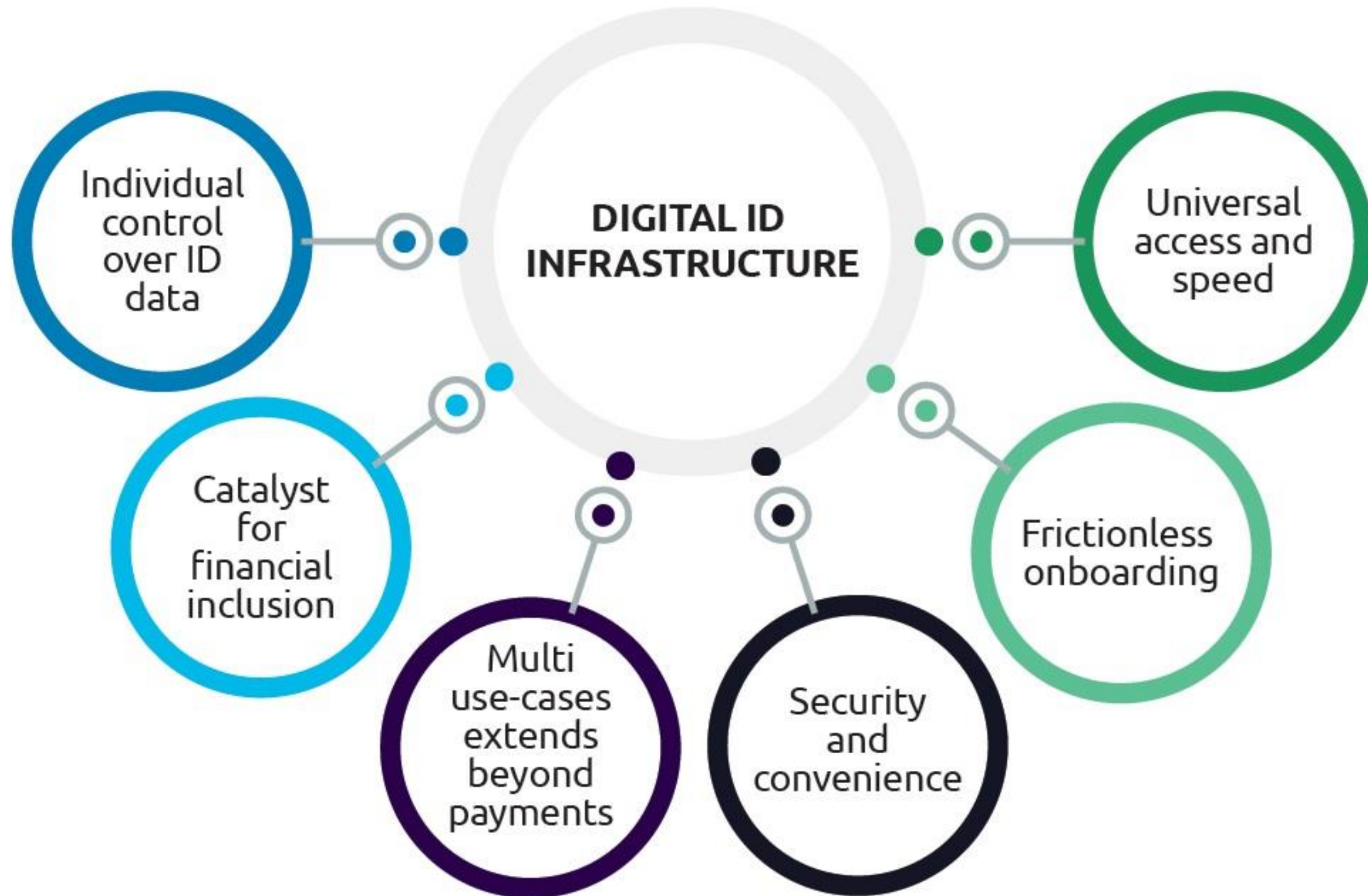
address



health
records



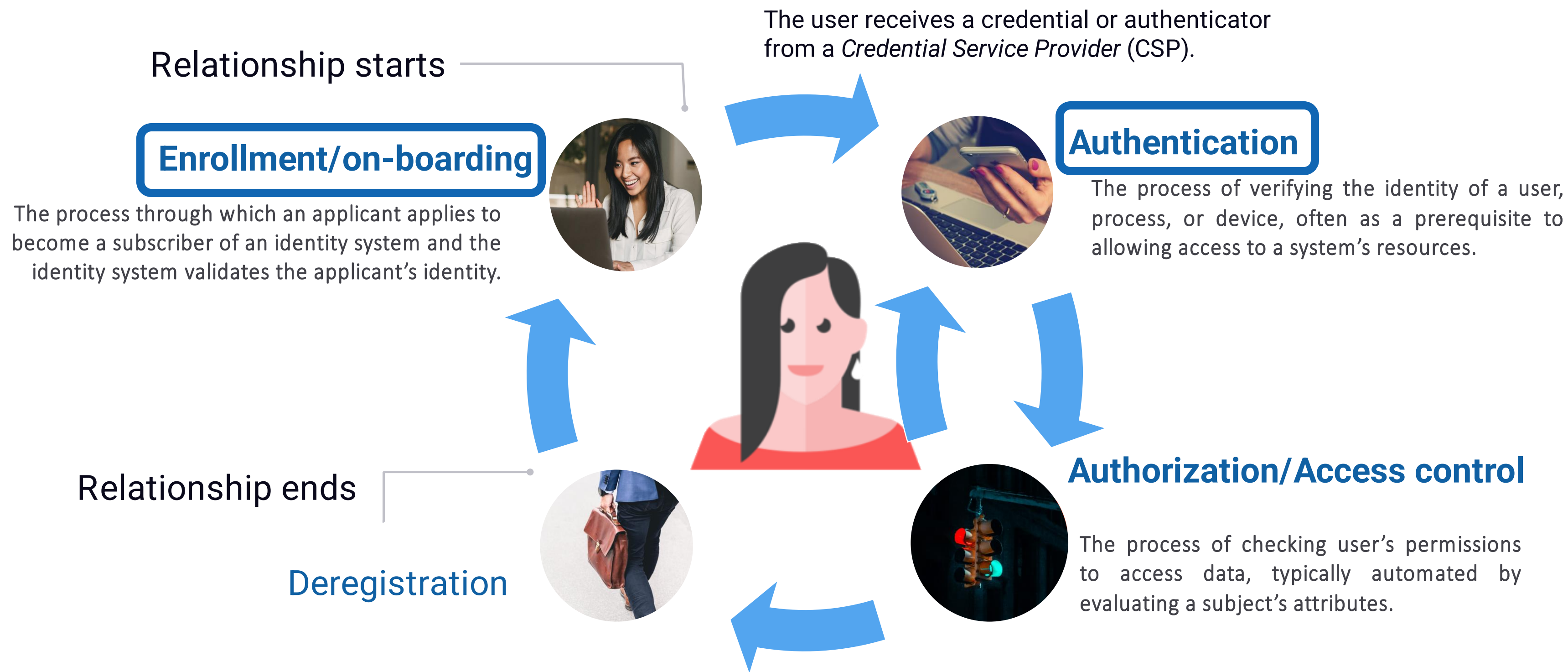
Perché è importante l'identità digitale?



Vediamo più da vicino...



Ciclo di vita dell'identità digitale



Furto di identità



- > Attach vectors (data breaches, malware / illegal intrusion and interception)
- > Social engineering (phishing, phone scams; business email compromise)

- > Dark web
- > Surface-web
- > Other (peer-to-peer networks or applications using end-to-end encryption)

- > Fraud against individuals / companies
- > Libel / public defamation
- > Facilitation of terrorism
- > (S)extortion

<https://op.europa.eu/en/publication-detail/-/publication/f85399b3-abed-11ec-83e1-01aa75ed71a1>

Qualche dato



https://www.ftc.gov/now-leaving?external_url=https%3A%2F%2Fpublic.tableau.com%2Fapp%2Fprofile%2Ffederal.trade.commission%2Fviz%2FConsumerSentinel%2FInfographic&back_url=https%3A%2F%2Fwww.ftc.gov%2Fnews-events%2Fdata-visualizations%2Fexplore-data

CRIME	PREVALENCE RATE	NUMBER OF VICTIMS IN EU-27 (age 15+) (in millions)
Identity theft (impersonation)	6%	19
Phishing/vishing/pharming ¹⁷¹	31%	113
Hacking (email/social network profile)	11%	35
Malware (installing virus)	27%	88
Bank card/payment fraud	6%	25

Source: ICF elaboration based on Eurobarometer data.

*Estimates reflect the number of victims among EU-27 citizens that use the internet and are aged at least 15.

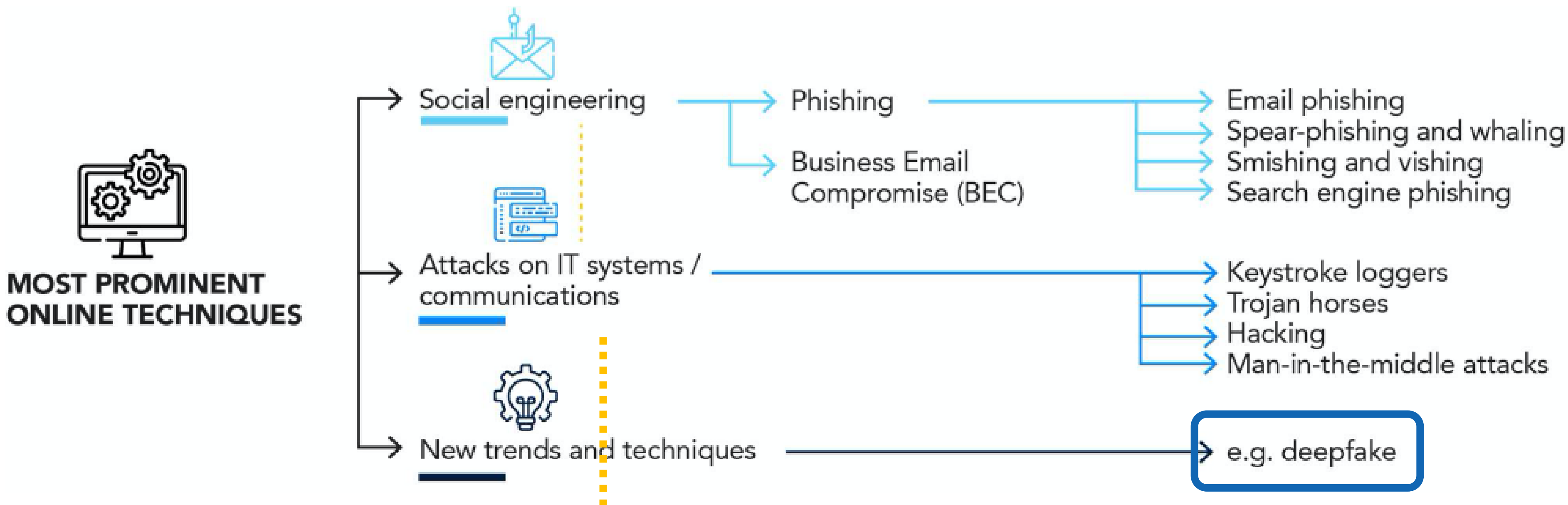
<https://op.europa.eu/en/publication-detail/-/publication/f85399b3-abad-11ec-83e1-01aa75ed71a1>

Recentemente...

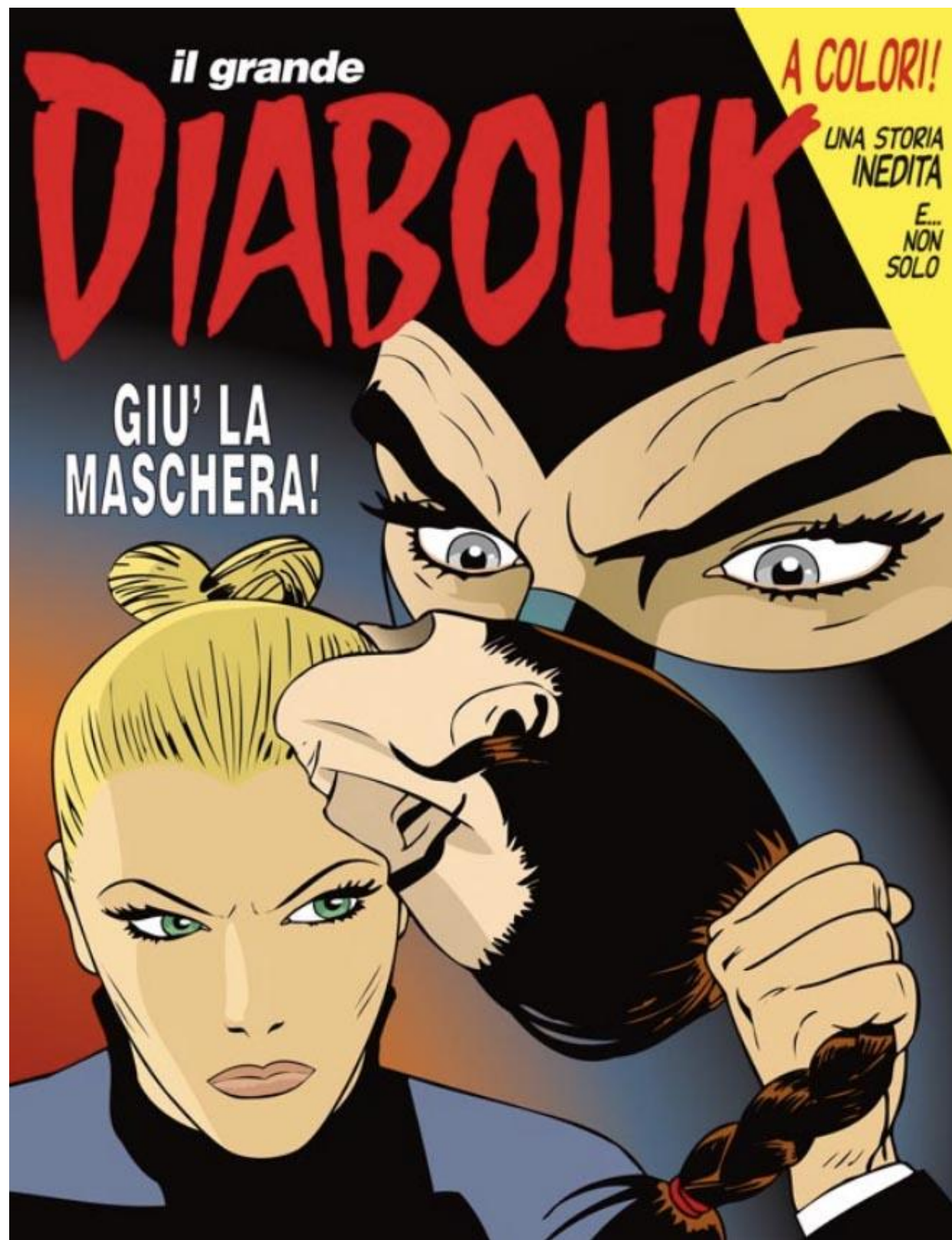
- Su forum in lingua russa, in vendita 270 carte di identità fronte/retro
 - 500 dollari l'una
- Inoltre, **disponibile “selfie” della persona che mostra carta in mano**
- A cosa servono?
- Apertura conti bancari, acquisto di beni o servizi a nome della vittima
- Esempi: registrazione a bet365 e revolut

<https://www.redhotcyber.com/post/carte-di-identita-con-selfie-di-italiani-in-vendita-ora-puoi-aprire-un-conto-online-anonimo-con-500-dollari/>

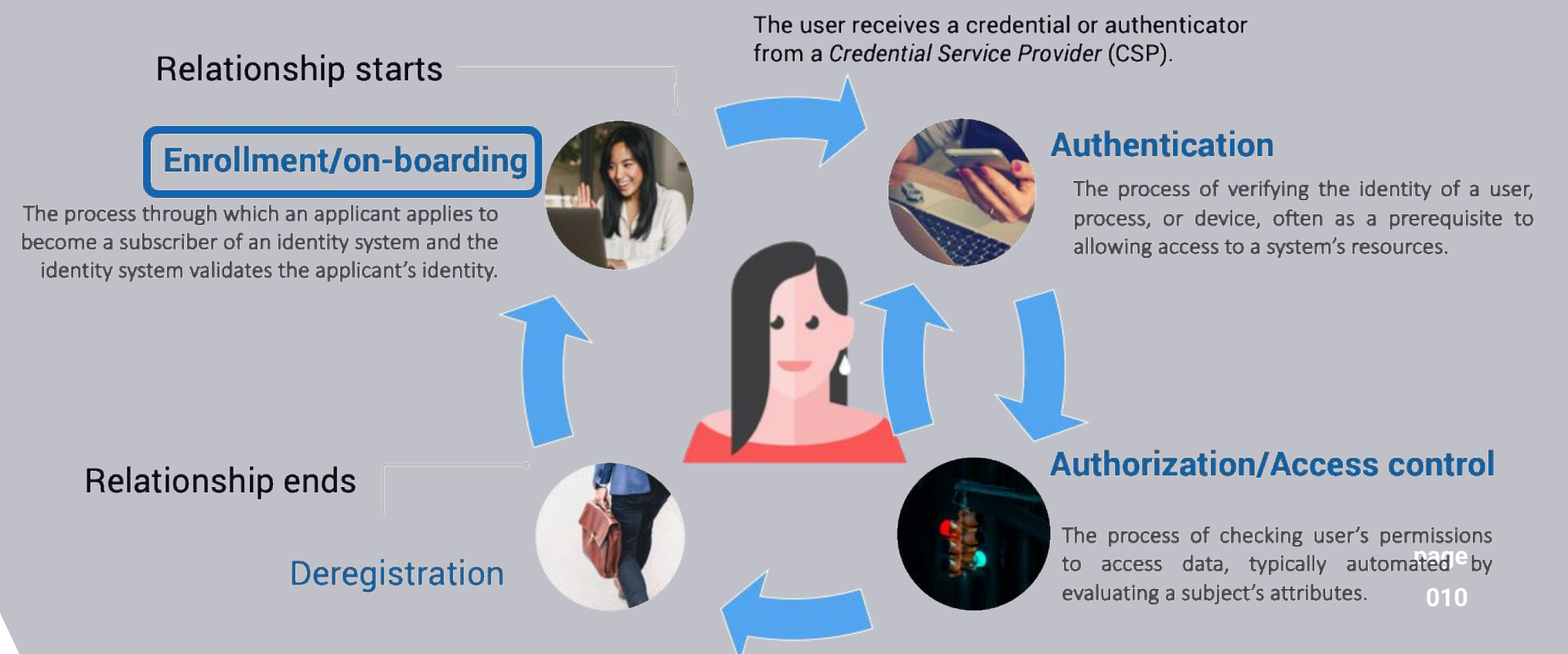
Tecniche per il furto di identità



<https://op.europa.eu/en/publication-detail/-/publication/f85399b3-abed-11ec-83e1-01aa75ed71a1>



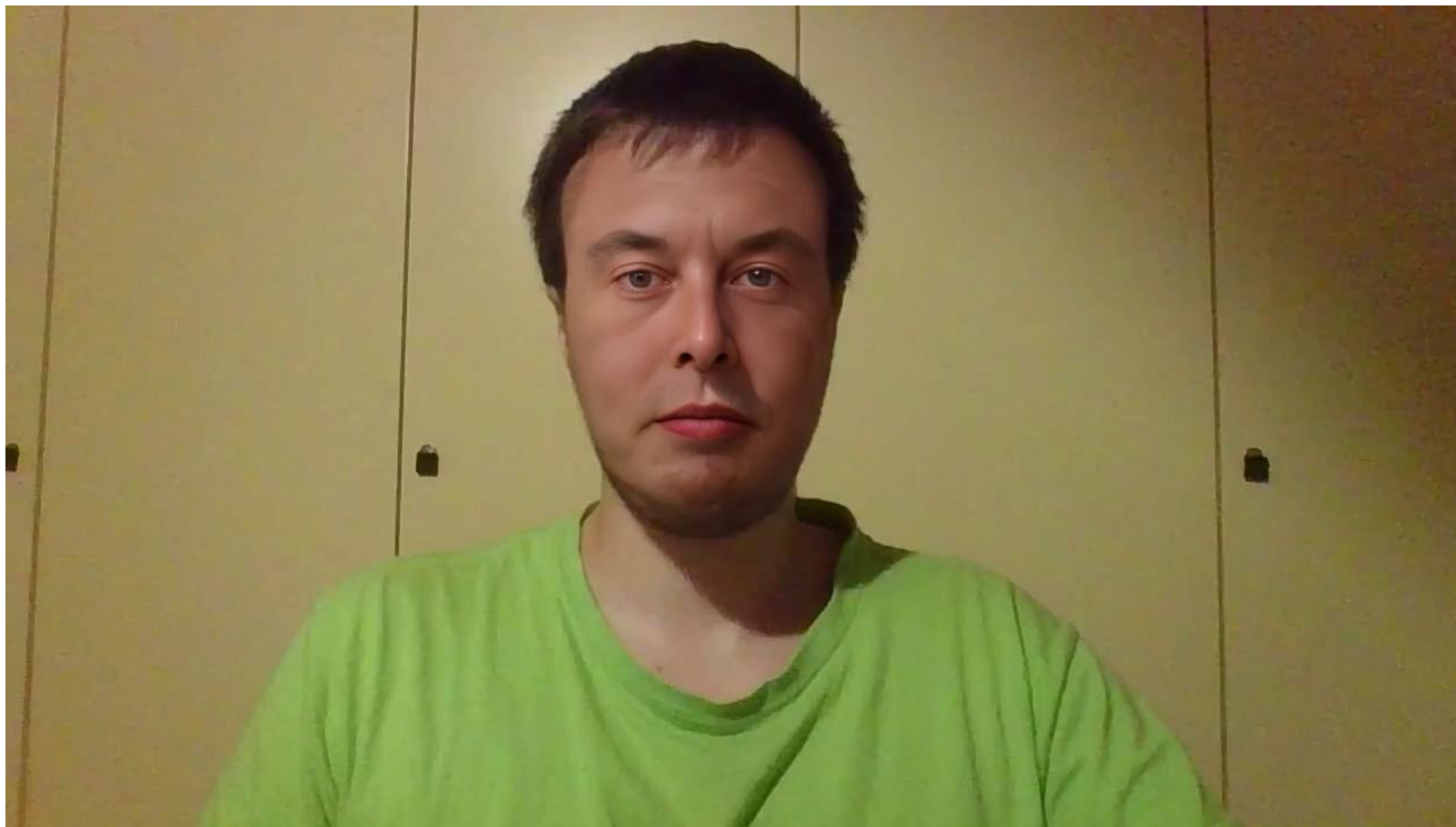
Un esempio



**Conoscete questo
uomo?**

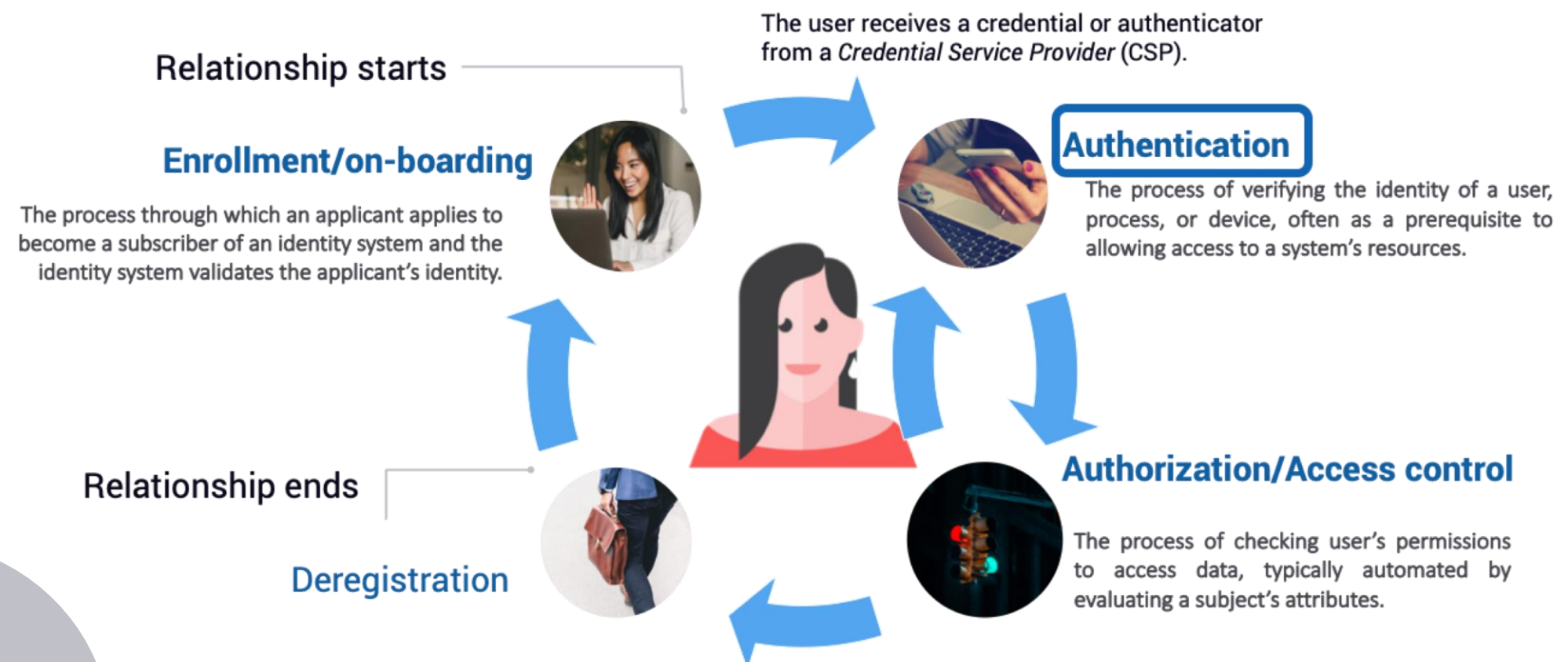


Siete sicuri?





Un altro esempio



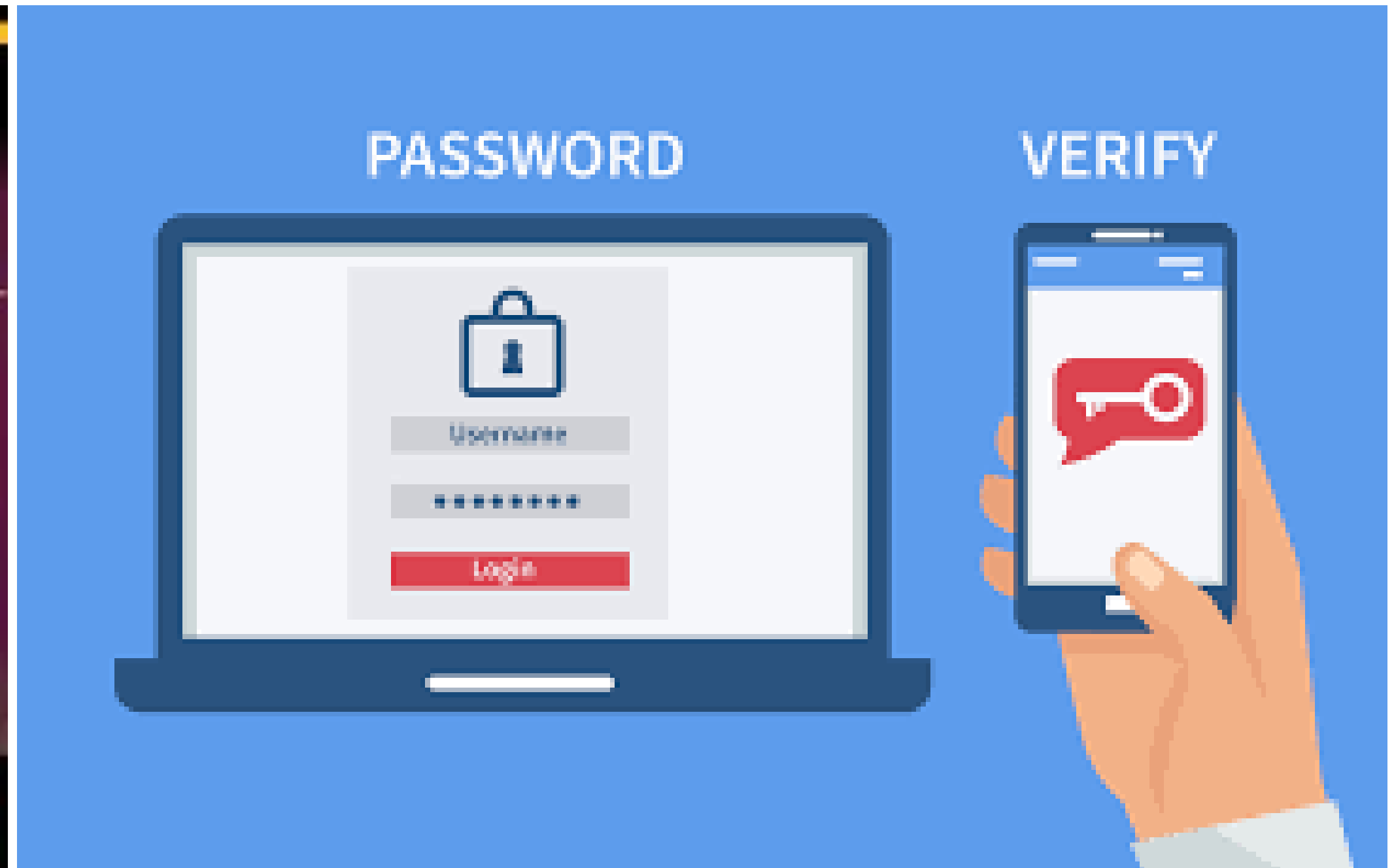
Il problema delle password deboli

Un altro problema: il riuso della stessa password

TOP 10 MOST COMMON PASSWORDS IN 2022

Rank	Password	Time to crack it
1	password	< 1 Second
2	123456	< 1 Second
3	123456789	< 1 Second
4	guest	10 Seconds
5	qwerty	< 1 Second
6	12345678	< 1 Second
7	111111	< 1 Second
8	12345	< 1 Second
9	col123456	11 Seconds
10	123123	< 1 Second

<https://www.helpnetsecurity.com/2022/11/29/most-common-passwords-2022/>



Due consigli



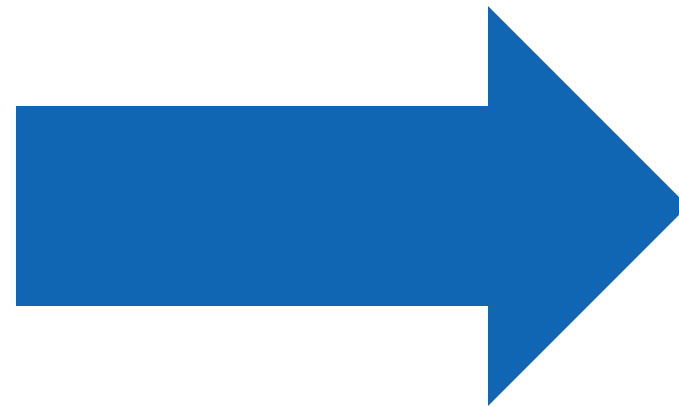
Aforismario

Il futuro ci tormenta,
il passato ci trattiene,
ecco perché
il presente ci sfugge.

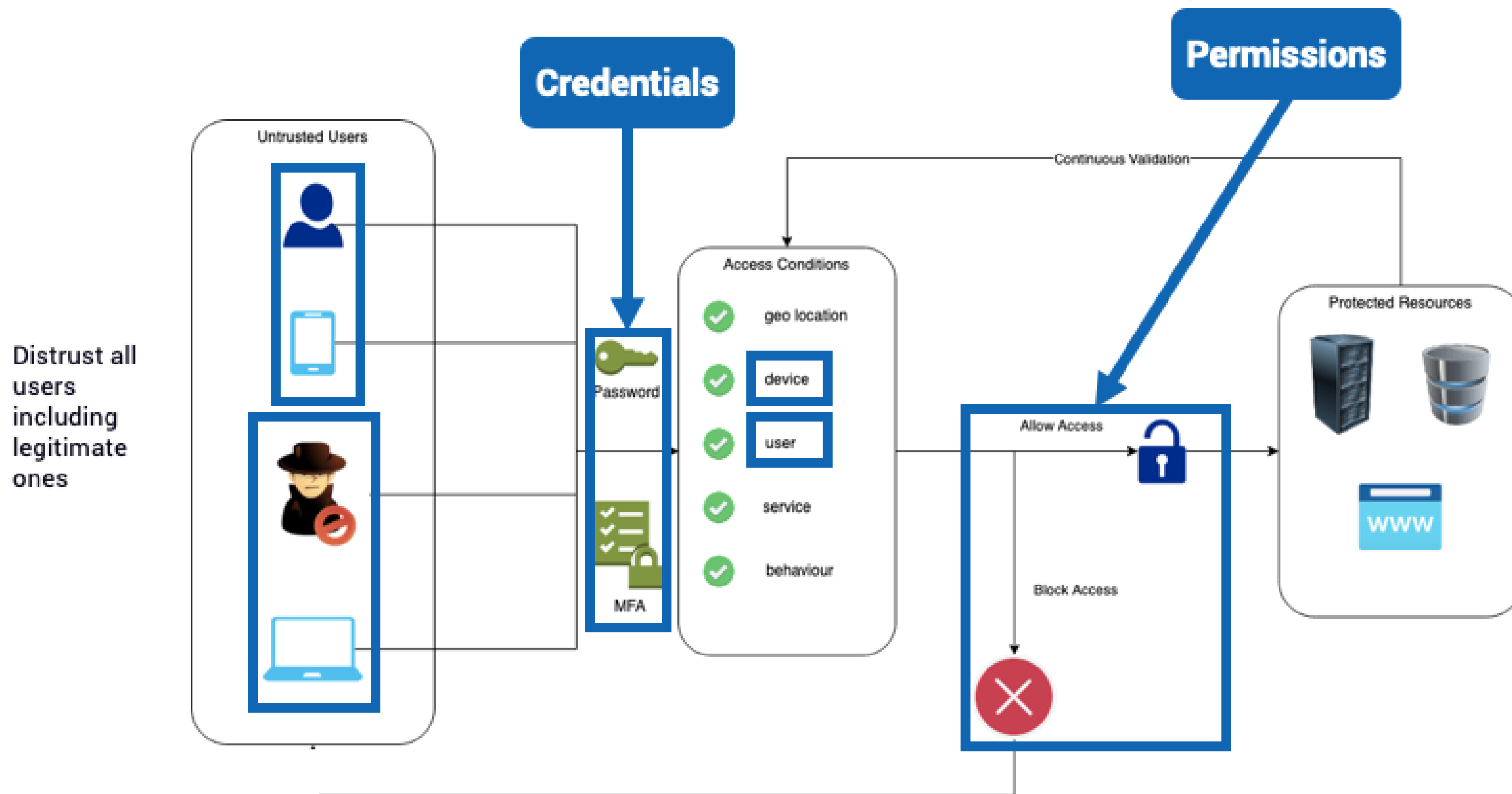
Gustave Flaubert

Aforismario

Zero trust ovvero perché è importante l'identità digitale - 1



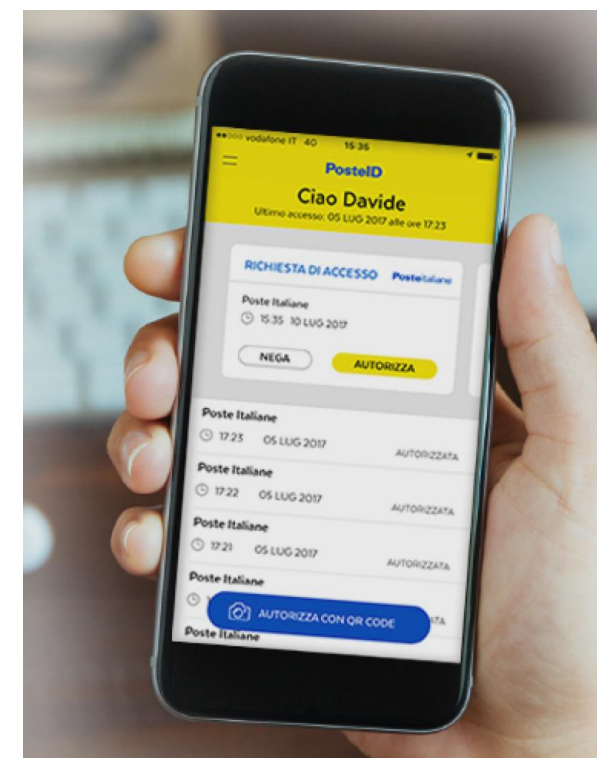
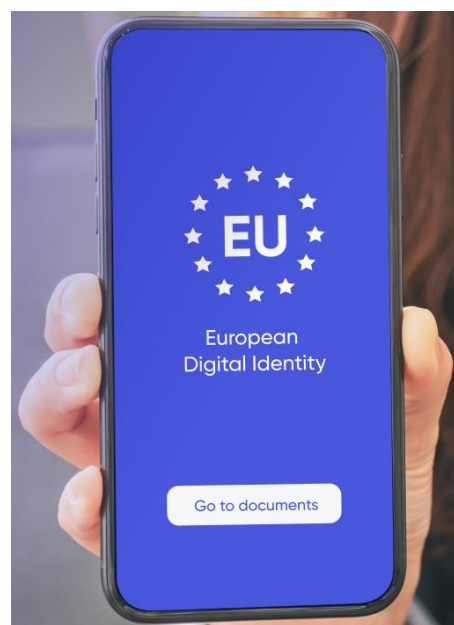
Zero trust ovvero perché è importante l'identità digitale - 2



<https://fusionauth.io/blog/2021/10/05/zero-trust-idps/>

Alcuni progetti

Identità digitale



Prevenzione furto identità



Large Scale Pilots on EUDI Wallet

Projects:

Potential



Cosa fa l'Europa?



EFFICIENT DIGITAL LIFE

SECURE DIGITAL LIFE

eSignature
Will help me to sign legal documents and email without printing any paper.

Qualified Web Authentication Certificate (QWAC)
Will let me know that the websites and apps I like using are trusted and safe.

eTimestamp
Will give me proof that I have bought my concert tickets.

eSeal
Will guarantee that the football tickets are real and are not counterfeit.

eID
Will allow me to open a bank account in another country with my national ID card.

Electronic Registered Delivery Service (ERDS)
Will guarantee that my son's birthday present arrives safely.

Take advantage of cross-border business opportunities
Increase efficiency & security of your business + improve user experience

eSignature
expression in an electronic format of a person's agreement to the content of a document.

eTimestamp
electronic proof that a set of data existed at a specific time.

eID
A way for businesses and consumers to prove their identity electronically.

Qualified Web Authentication Certificate (QWAC)
ensure your website is trustworthy and reliable.

eSeal
guarantee both the origin and the integrity of a document.

Electronic Registered Delivery Service (ERDS)
protects against the risk of loss, theft, damage or alterations when sending documentation.

ENHANCED DOCUMENT TRACKING

GREATER ACCOUNTABILITY

EXPANSION OF CUSTOMER BASE

COST AND TIME SAVING

TRUST IN CROSS-BORDER TRANSACTIONS

CONVENIENCE FOR BUSINESS AND CUSTOMER

REDUCED COSTS AND TIME THROUGH STREAMLINED PROCESSES

MORE INNOVATIVE BUSINESS PROCESSES

CONVENIENCE FOR BUSINESS AND CUSTOMER

INCREASED CONSUMER TRUST

HELPS AVOID FISHING, PROTECTING THE REPUTATION OF YOUR BUSINESS

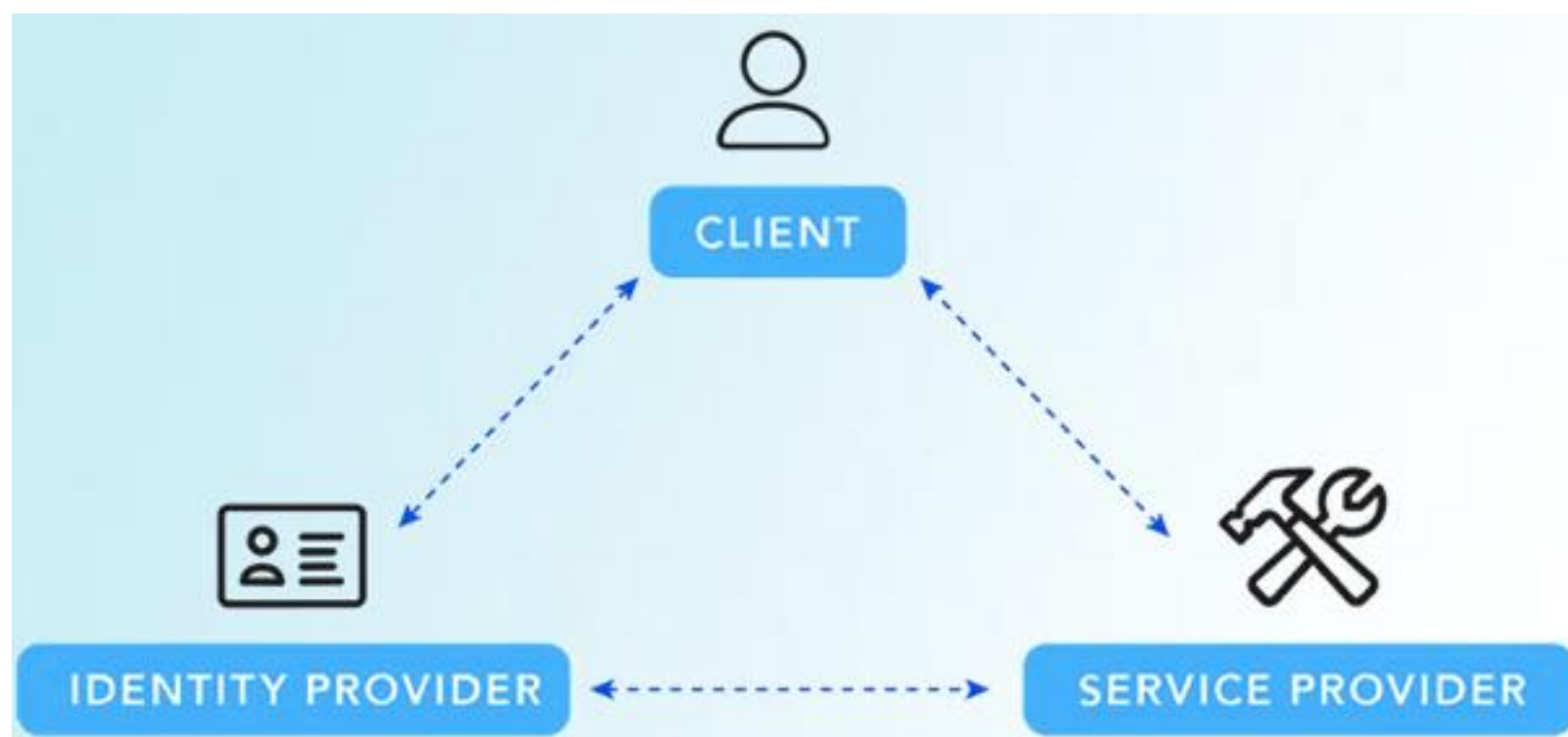
REDUCED TIME AND COSTS IN DOCUMENT EXCHANGE

INCREASED EFFICIENCY AND TRUST

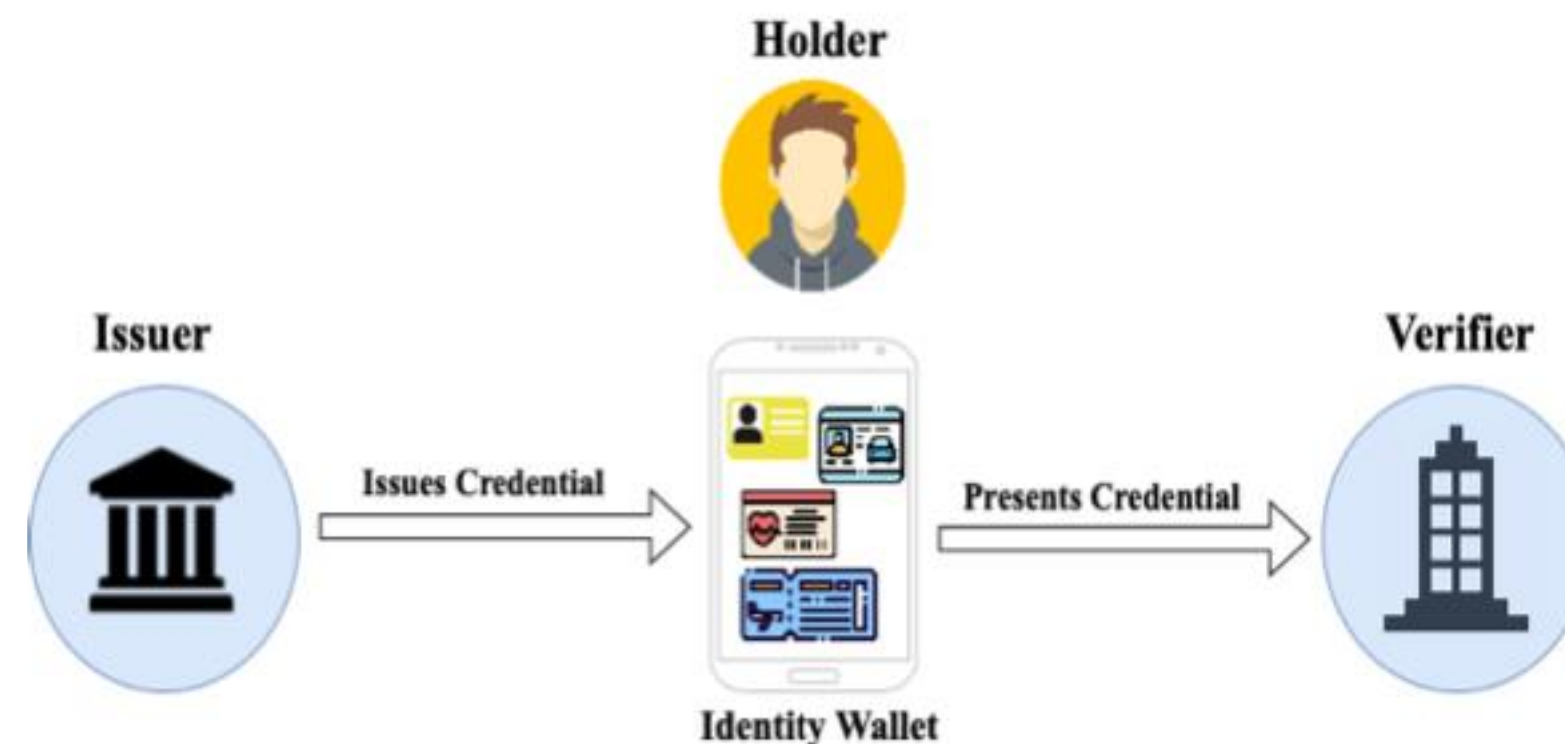
ENHANCED DOCUMENT TRACKING

Centralizzato vs Decentralizzato

Authorization, controlled sharing of data



Centralized



Decentralized

Evitiamo...

