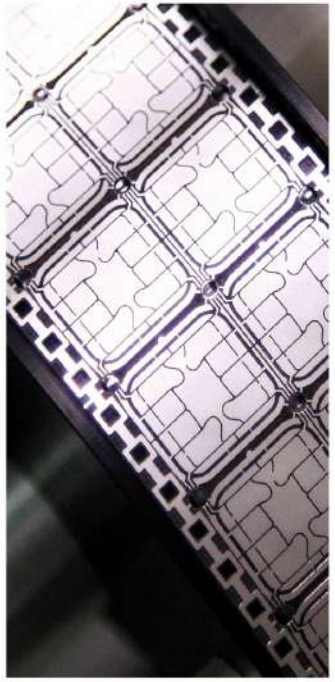
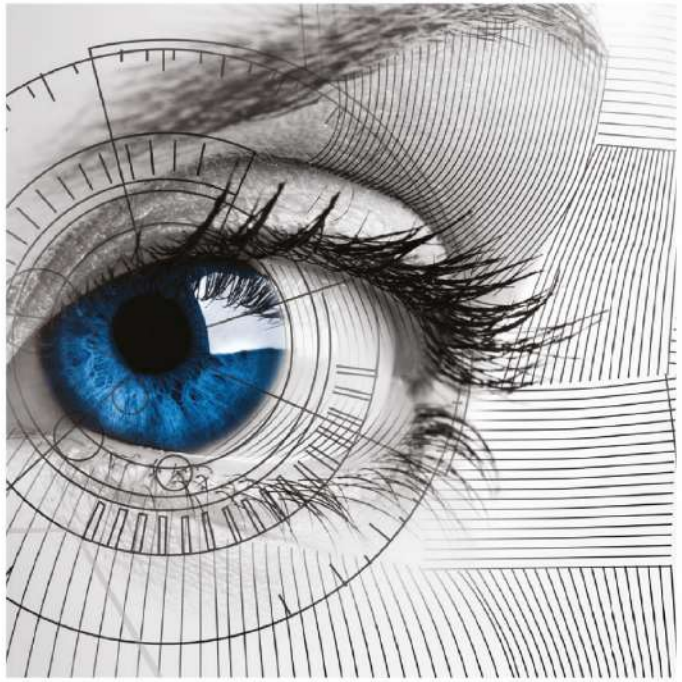
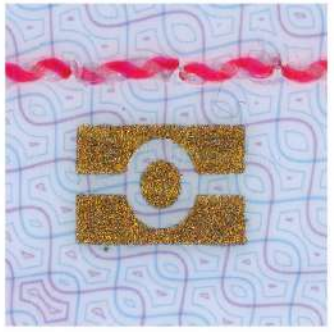


PWPW
POLISH SECURITY
PRINTING WORKS



BIOMETRY IN IDENTITY DOCUMENTS ECOSYSTEM



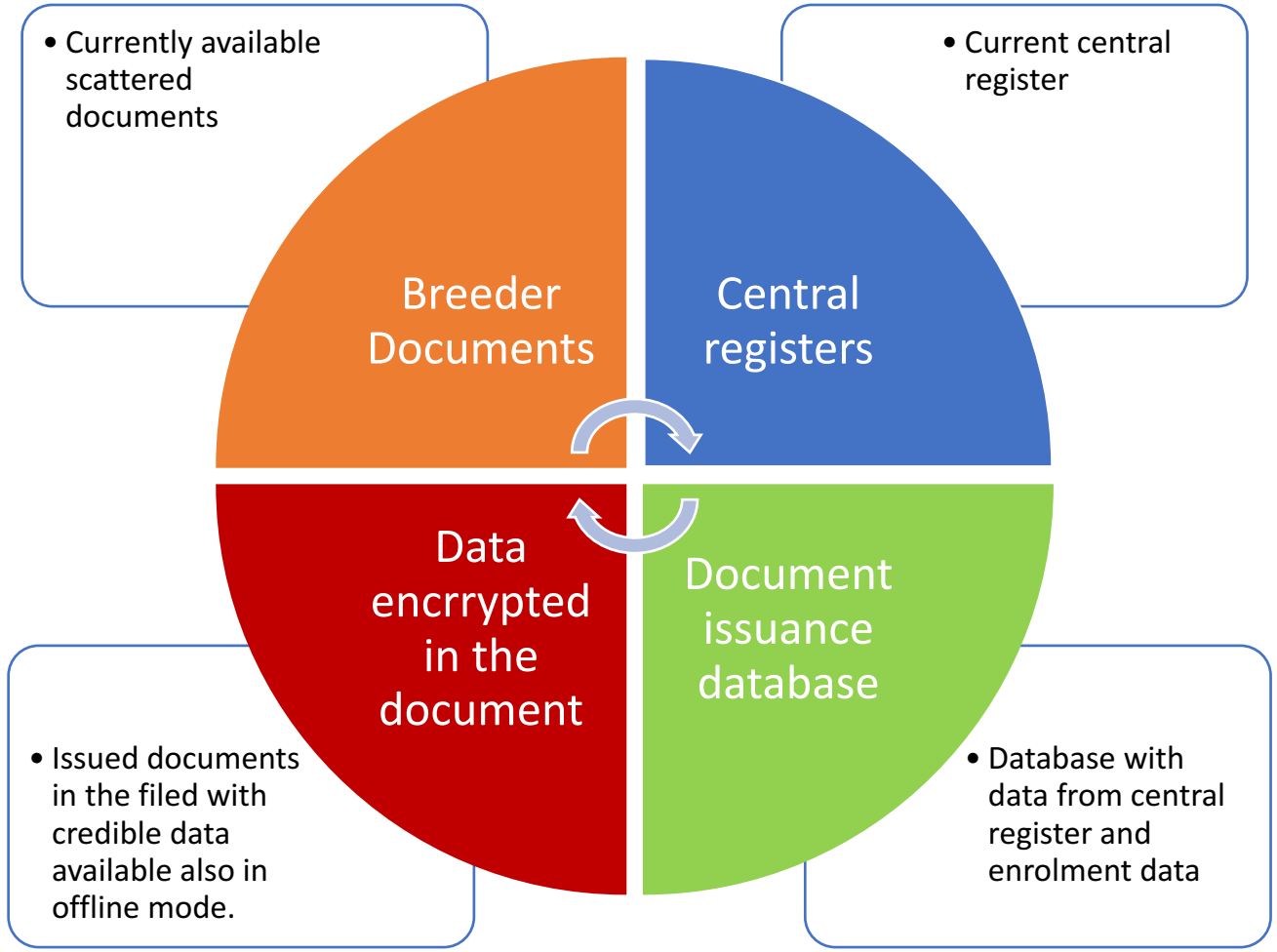
AGENDA

- **Why ID document is that important**
- **Biometry as indispensable feature of modern ID documents**
- **Examples of comprehensive issuance system and its main components**
- **Not only biometry that matters**

WHY ID IS THAT IMPORTANT

- ID document is crucial for building efficient state administration

- ID document is the focal point of citizens identity records stored and managed by the State



WHY ID IS THAT IMPORTANT

Having ID document is basically the prerequisite of:

- The right to use all services rendered by the State / Municipal authorities
- The right for health care and social care services
- The right to vote
- The right to cross borders

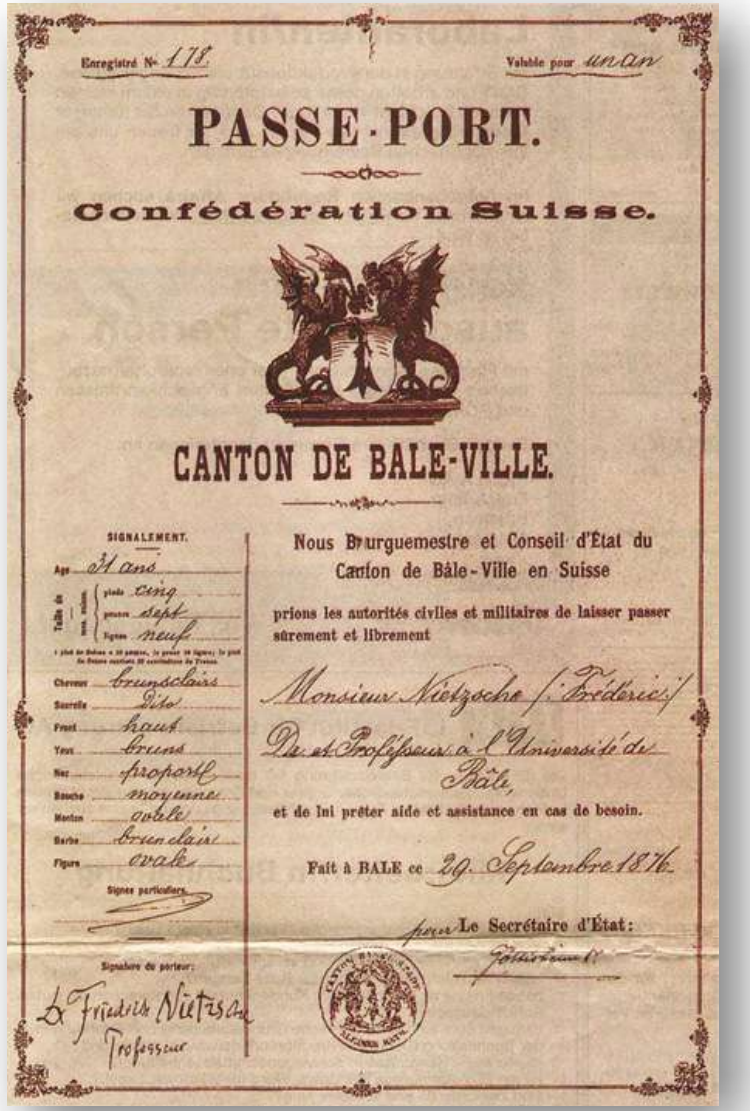
ID documents facilitate:

- Security Measures / Law Enforcement
- Payments and taxes
- Proper management of privacy question

Biometry as indispensable feature of modern ID documents

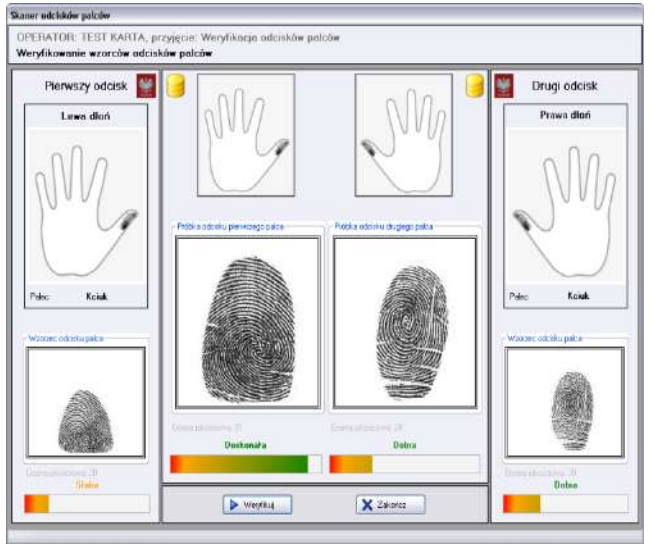
Is such a passport still consivable:

Would you still be willing to issue such a document as Fridrich Nietzsche used:



Biometry as indispensable feature of modern ID documents

- **Face**
- **Fingerprints**
- **Iris**



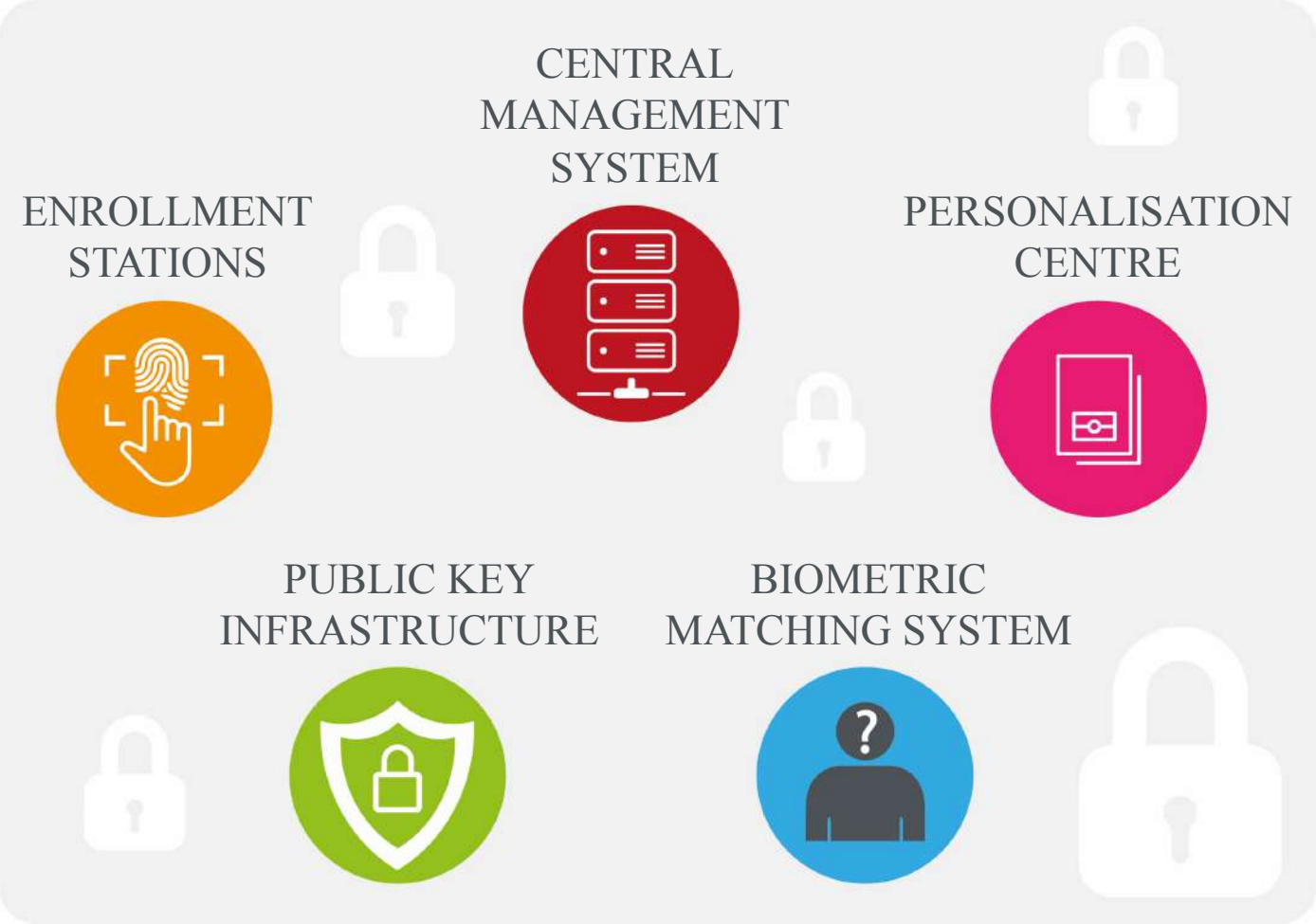
Natural link between a physical document and a real person – especially when used together.

E-DOCUMENTS STAKEHOLDERS

- Globally interoperable biometric
- Contactless chip
- International standardized Logical Data Structure

CHARACTERISTICS AND ARCHITECTURE OF THE ISSUANCE SYSTEM

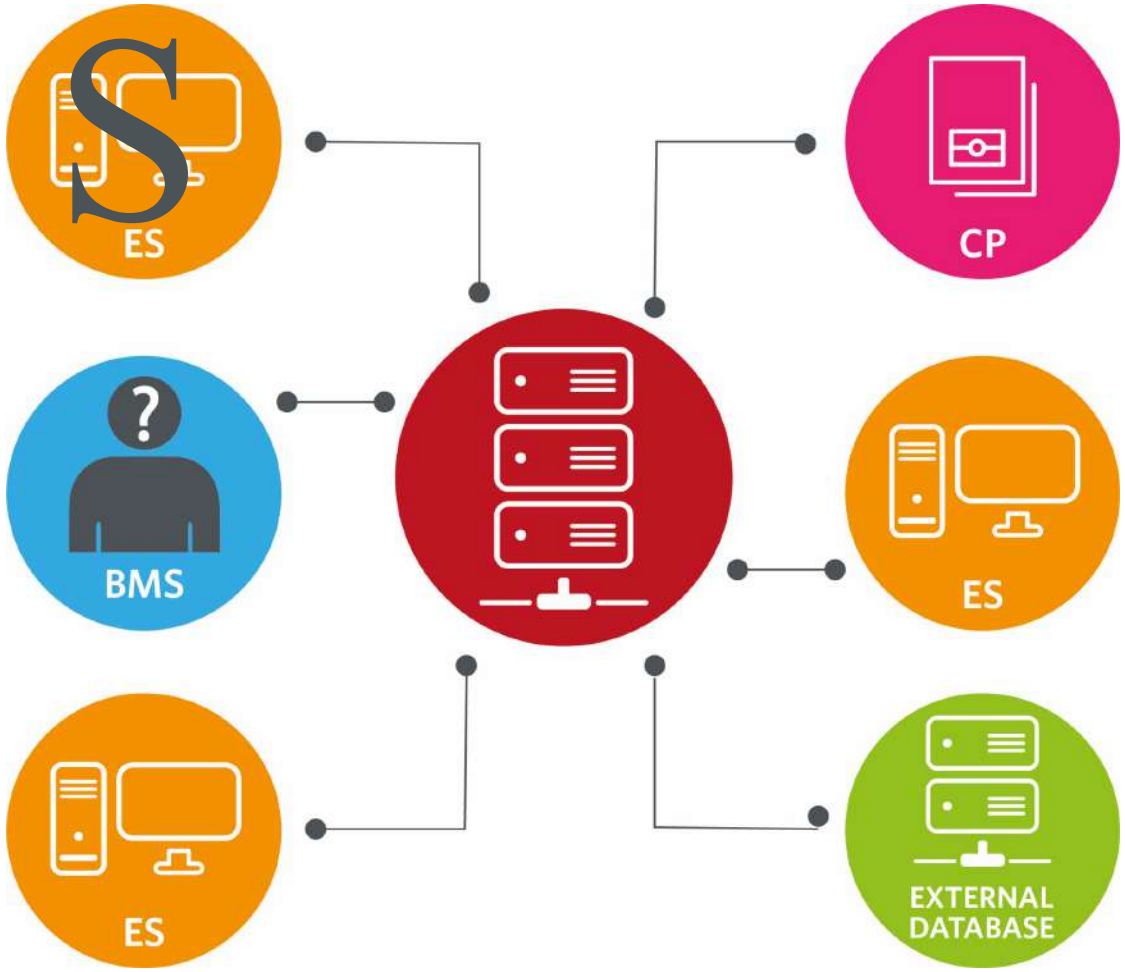
- ICAO and ISO compliant
- Secure solutions
- Three biometric features
- Functions in online/offline mode



IES | ENROLLMENT STATION

- Collection of all data required for issuance of an eDocument
- Emission of the document after personalization
- Verification before emission with biometric data

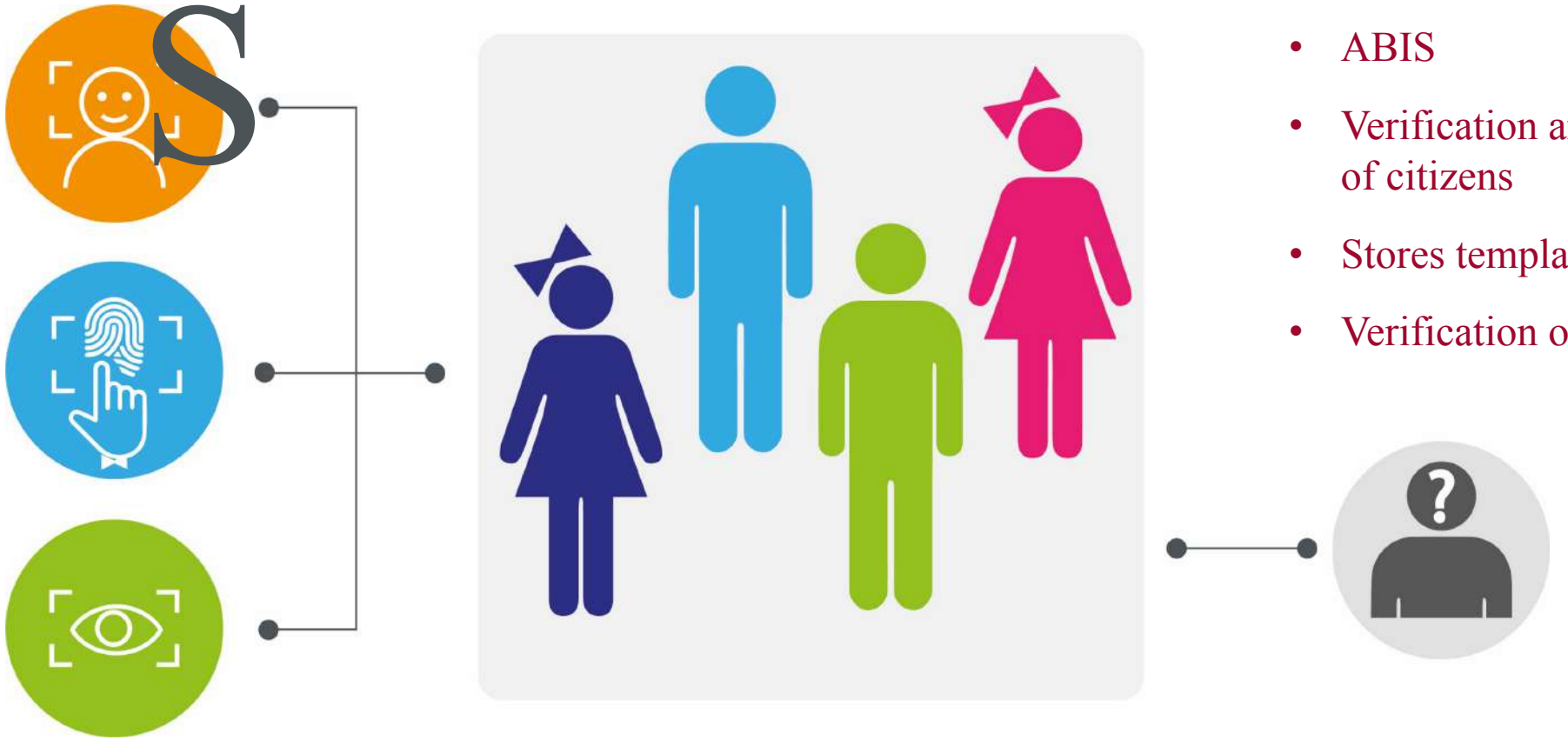
II CM | CENTRAL MANAGEMENT SYSTEM



- Principal module for management
- Storage of all applications
- History of an application
- Communication with external databases

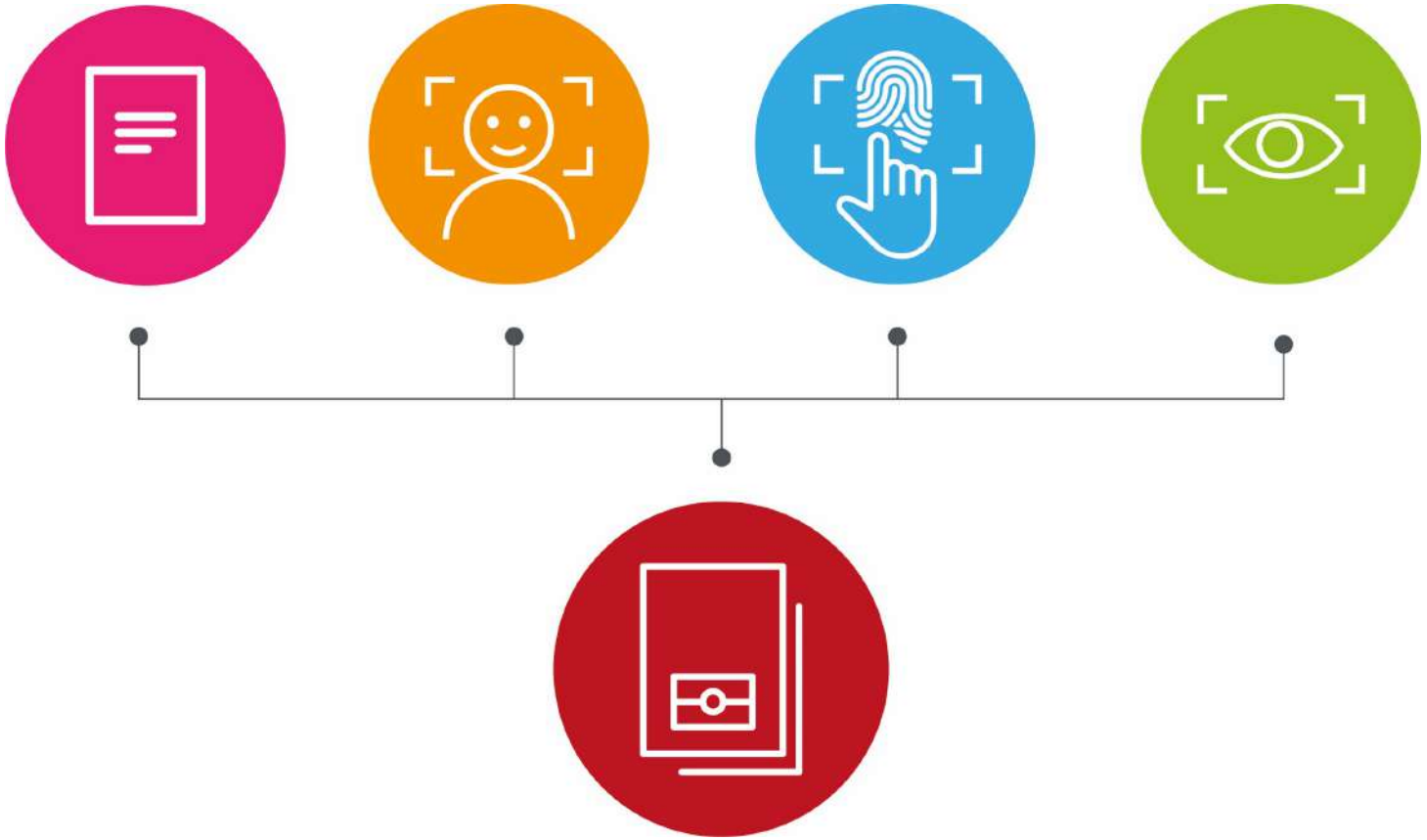
II BMS

BIOMETRIC MATCHING SYSTEM



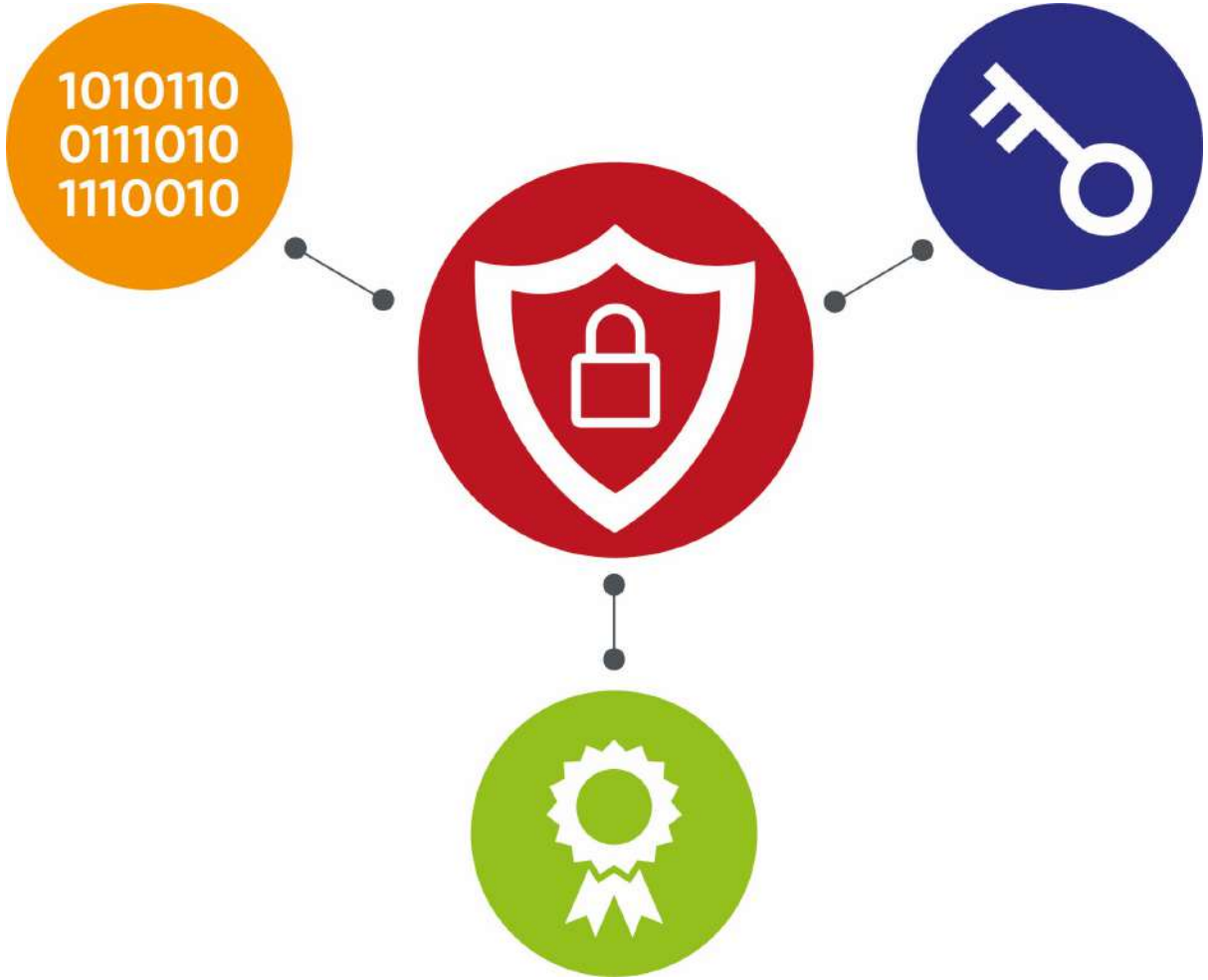
- ABIS
- Verification and identification of citizens
- Stores templates
- Verification of duplicity of entries

I CP | PERSONALISTION CENTRE



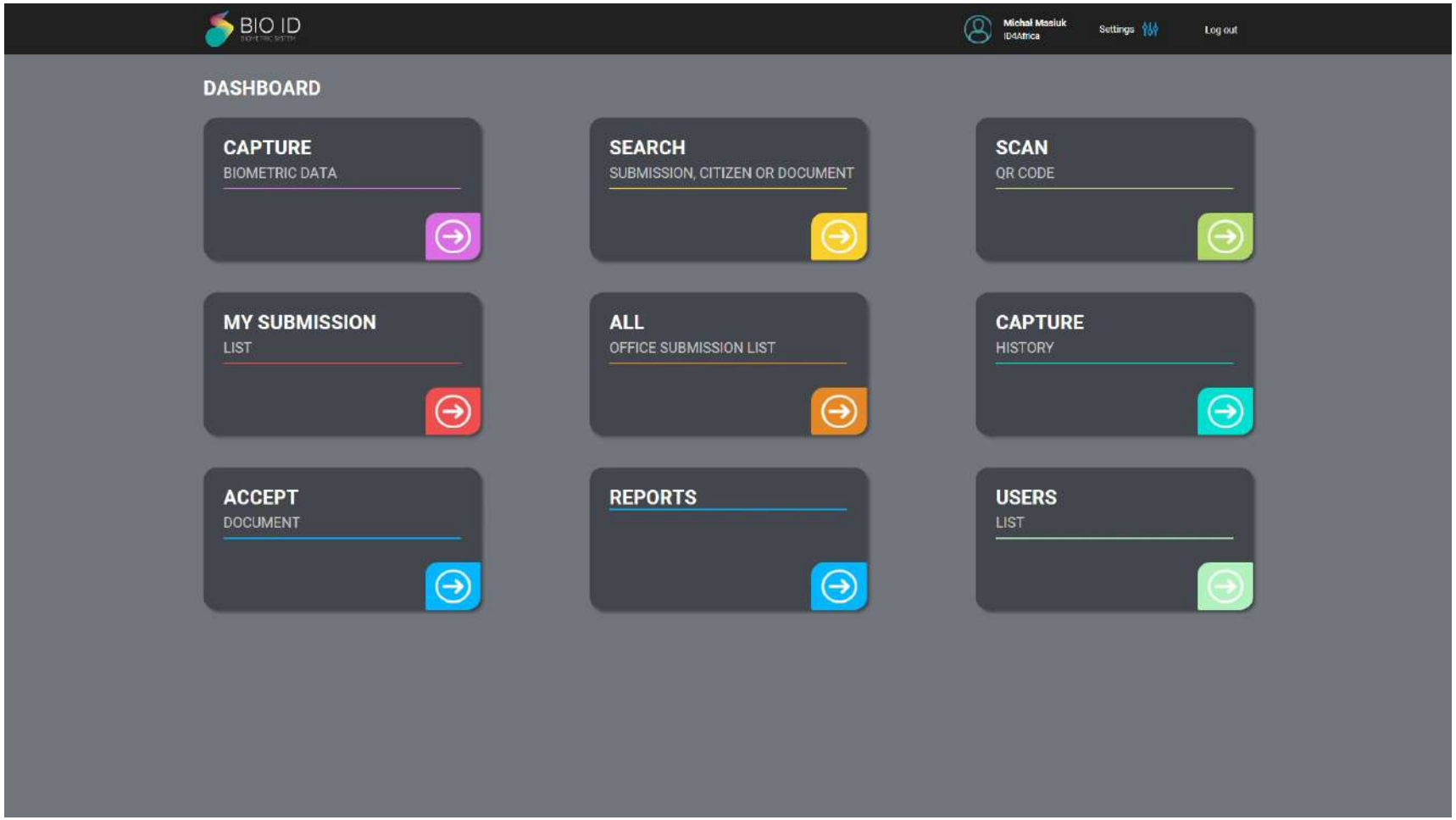
- Personalization of a physical document
- No limits to the machine type or style of personalization
- Quality assurance of the document
- Packing unit and dispatch

PK | PUBLIC KEY INFRASTRUCTURE

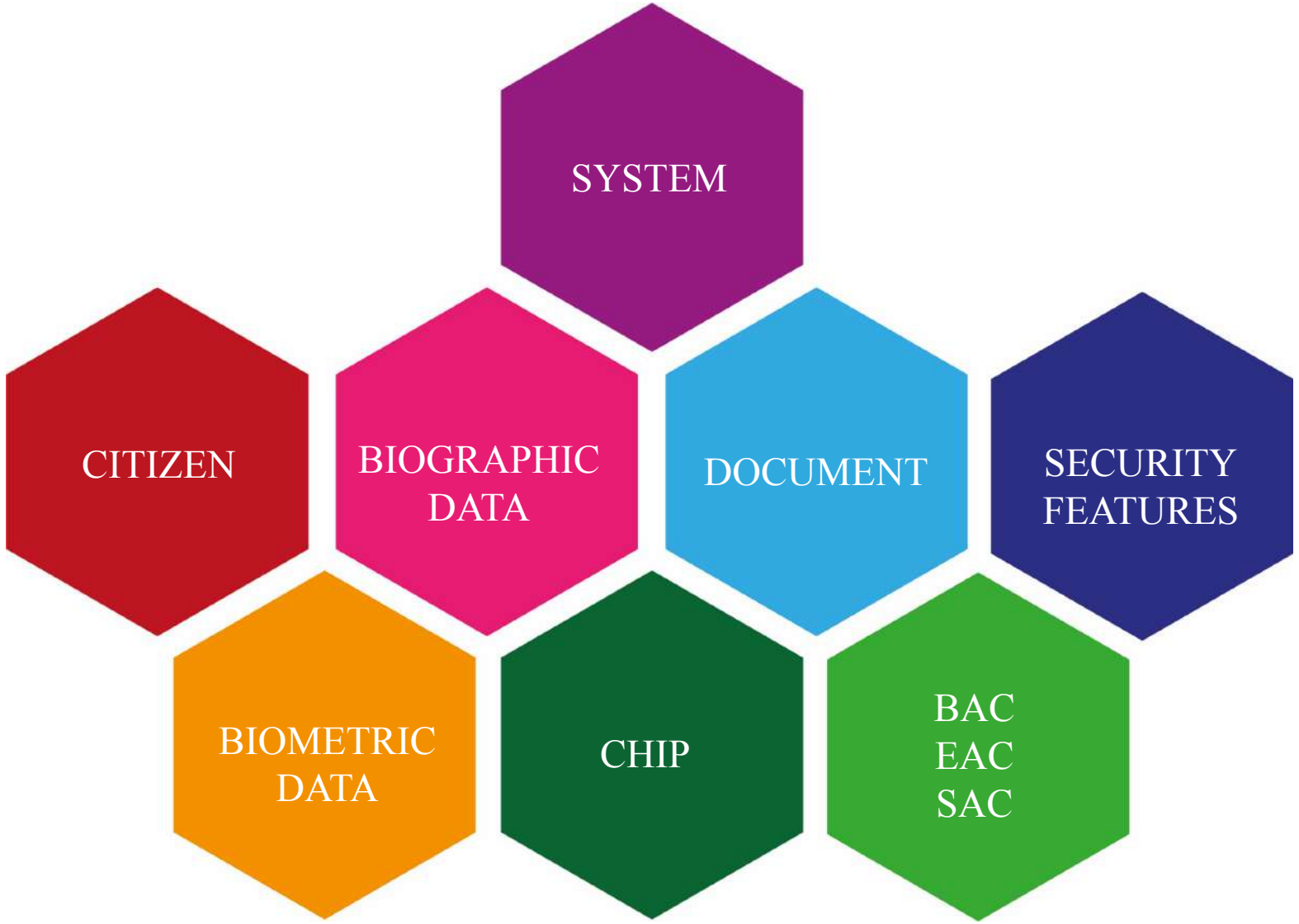


- Generation of certificates
- Verification of passports, expiry dates
- Confirmation of certificate validity

INTERFACE, FUNCTIONALITY AND ICAO COMPLIANCE



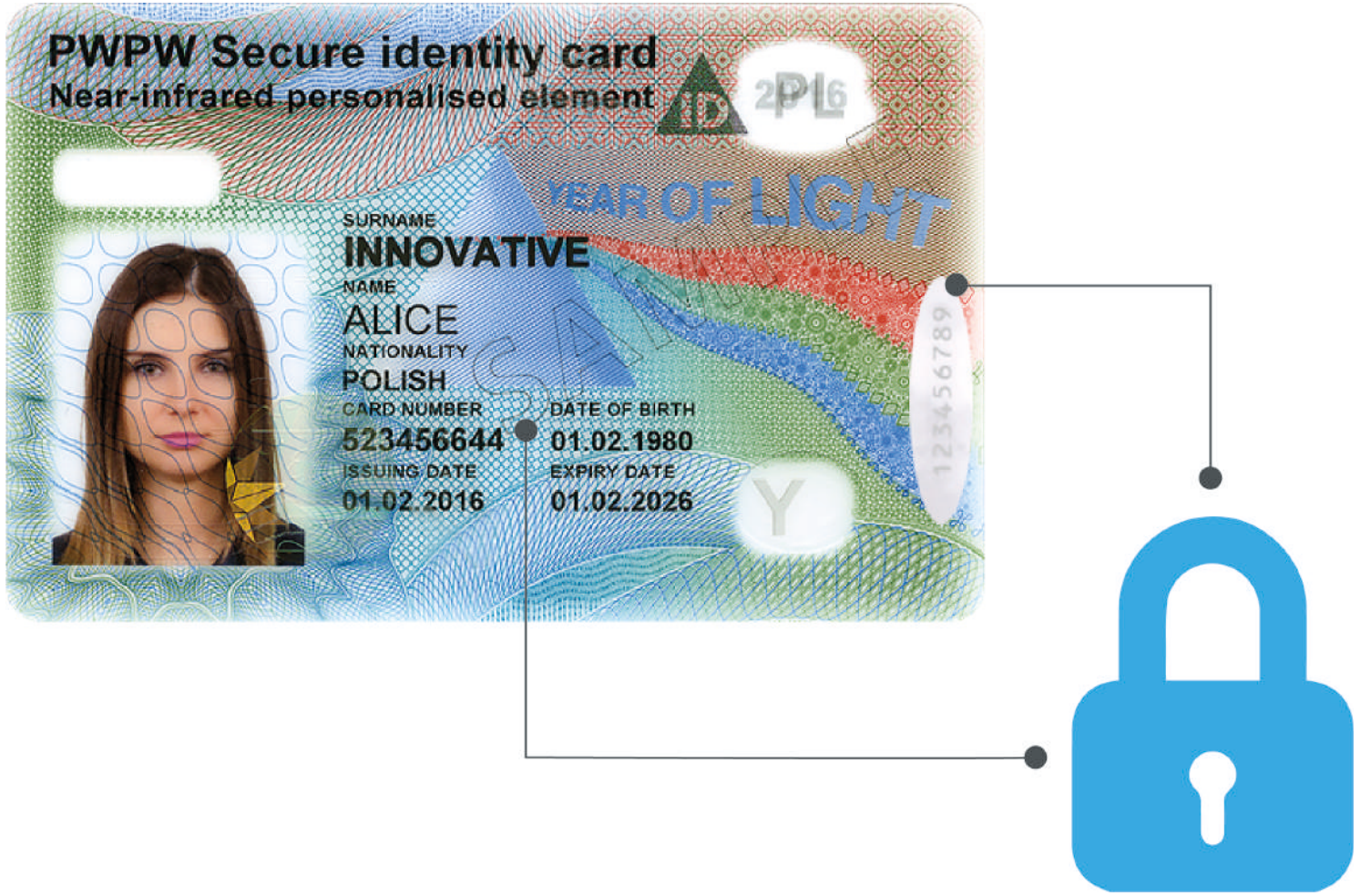
ISSUANCE SYSTEM INTEGRITY



MACHINE READABLE FEATURES – VERSO ID

- Origination from security feature well-known to majority of citizens
- Bases on personalized data
- No additional personalization machine needed

MACHINE READABLE FEATURES – NIR TIMESTAMP



- Near-infrared absorbing and inactive in daylight
- Detected by standard devices and sensors
- Possibility of printing variable data & images
- No additional space needed
- Blank cards eliminated

CONCLUSIONS

SECURITY

- Elaborating unique security features
- Merging sophisticated document production techniques with advanced IT / chip solution

COMPLIANCE

- Comprehensive customer needs analysis
- Full adherence to international standards – ICAO / ISO / BSI

EFFECTIVENESS

- Creating complete issuance systems from document production and data collection to personalization and delivery

PWPW

POLISH SECURITY
PRINTING WORKS
SINCE 1919

SEE YOU
AT BOOTH

D14

THANK YOU FOR YOUR ATTENTION

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