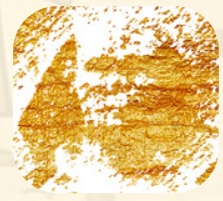


SPHINX

National ID system



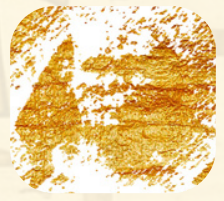


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National ID system introduction

This document presents a comprehensive National ID solution designed to securely manage citizen identity throughout its entire lifecycle. The system supports biometric enrollment, secure and intelligent data management, secured ID production, personalization, and verification within a scalable, auditable, and future-ready framework.

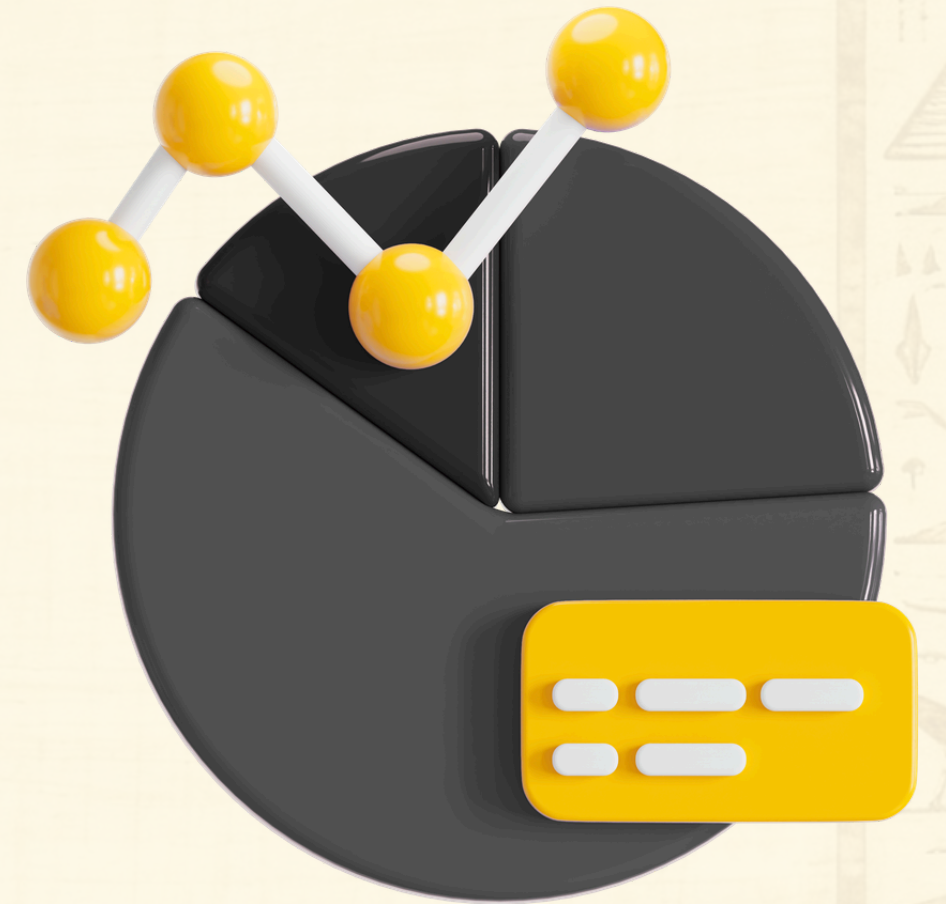


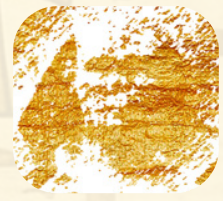


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National ID system overview

The National ID System is a fully integrated identity management and security solution. It enables centralized and decentralized data synchronization, fraud prevention through layered security, biometric validation, and controlled monitoring of identity processes.





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National ID system Key Capabilities

- Centralized and synchronized national identity database
- Multi-layer security
- Scalable, auditable, and configurable workflows
- Secure ID card production, data management and personalization





Sphinx Solution

The solution is delivered as a framework adaptable to national requirements.

Standard capabilities include:

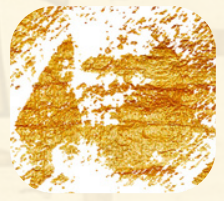
- ID Card production
- Biometric enrollment
- Database construction
- Personalization

Administrative visibility includes:

- Payment status
- Application progress
- Document personalization tracking (When and where it was issued / Delivered or not delivered)

Additional features:

- Encrypted communication between user interfaces and backend systems
- Secure client authentication
- Role-based access control
- Fully digital workflows accessible anytime and anywhere



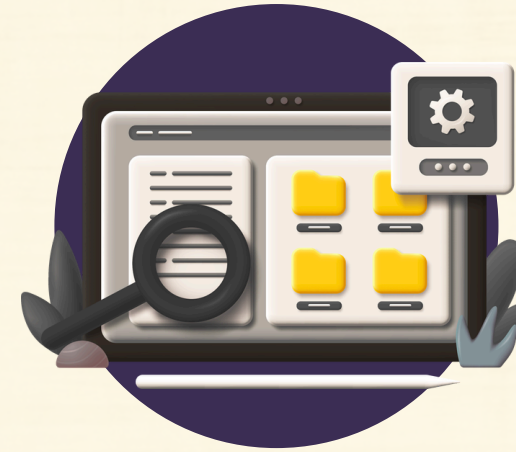
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National ID Security Solutions



Web-based application

Web-based solution supporting both online and offline operations



User-Friendly Interfaces

Intuitive interface for an optimal user experience



Scalable solution

Designed for national-scale security and resilience



Fraud Prevention

Advanced measures to deter unauthorized activities.

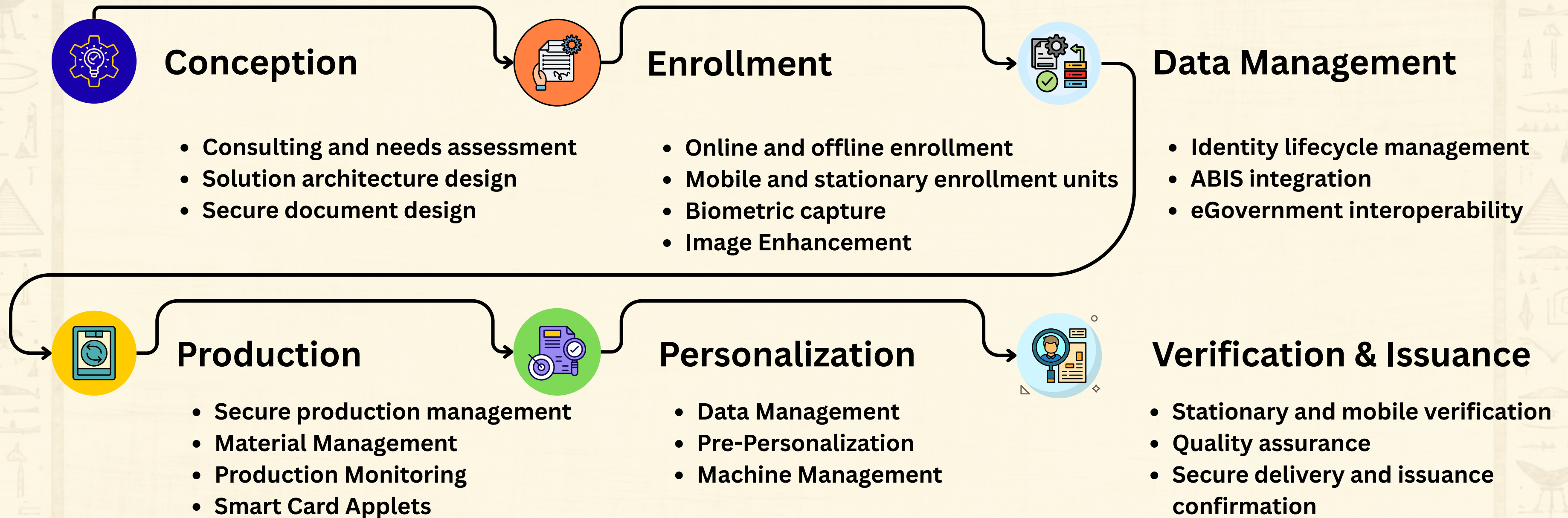


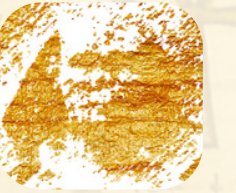
Security

Customizable security layers based on country requirements



ID System Creation steps





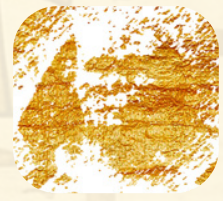
Enrollment & Data Capture

- Data Capturing unit (Fingerprint, Facial image, signature, etc...)
- Verify personal data from a specific external sources (Trust centre, Gov database, etc)
- Real-time quality checks and manual correction units
- Compliance with ICAO and international standards
- Configurable enrollment workflows

Features suggestions

- OCR/ICR - Machine and handwritten text recognition
- Signature enhancement - extracts, defines and enhances signatures
- Barcode recognition - supports 1D and 2D barcodes
- Fingerprint capturing - possible combined with background removal





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Image Enhancement & Biometric Processing

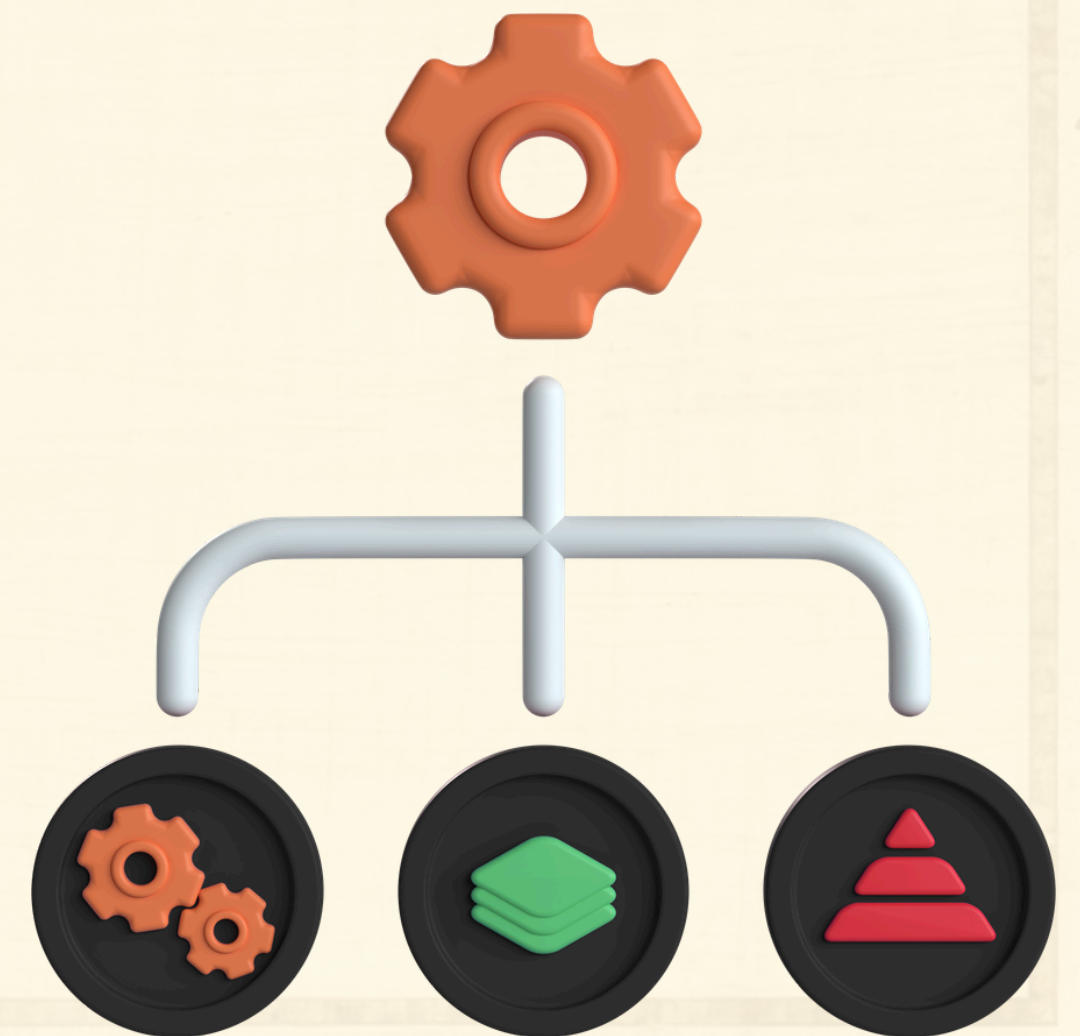
- Automated face detection and extraction
- Image cropping and position correction
- Position correction (horizontally and vertically)
- Color Correction: Adjusting white balance and shadow correction
- Checking and evaluating image quality according to ICAO recommendations
- Easy to integrate into any software solution

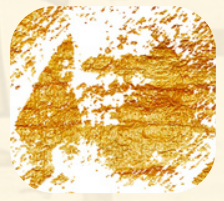




Production & Personalization

- Secure management of blank ID cards
- Secure personalization technologies supporting national requirements
- Material tracking by serial number and batch
- Controlled production workflows with real-time monitoring
- PKI integration for secure personalization
- Smart chip encoding and application loading
- Quality control at each production stage
- Full traceability from blank card to issued ID
- Secure handover to warehouse and distribution
- Support for secure applets and future applications

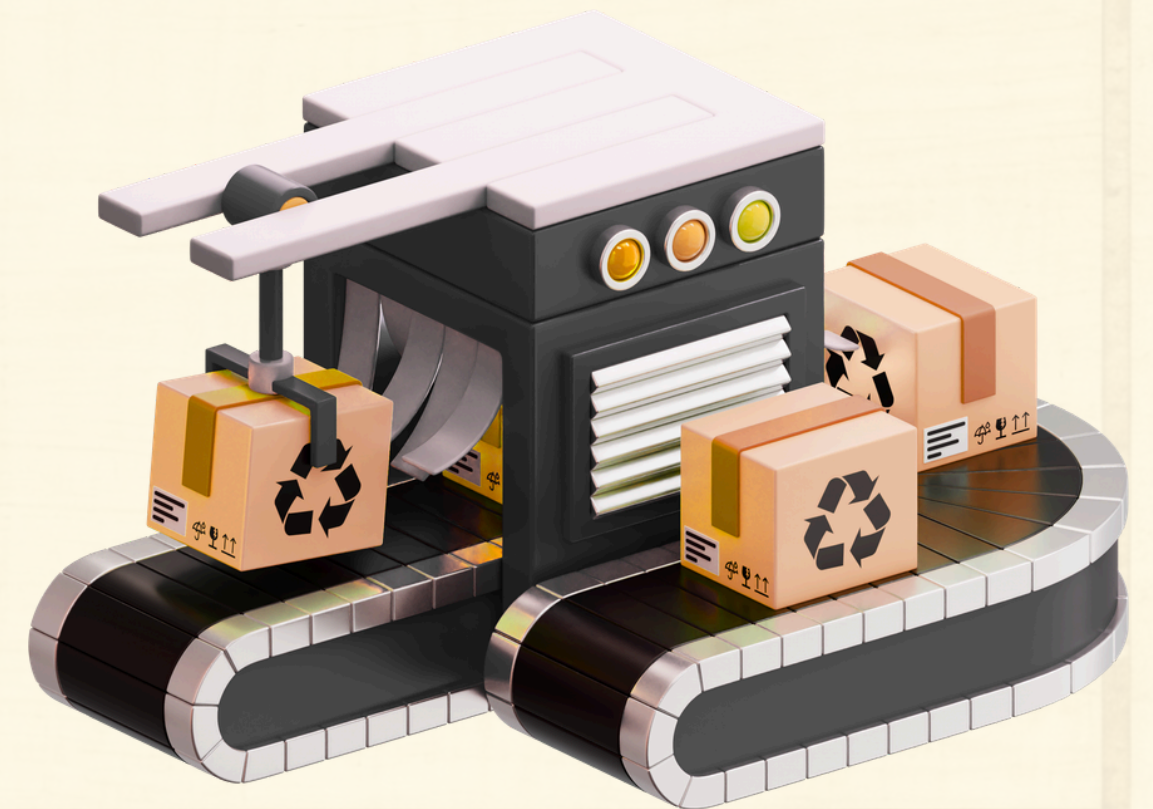


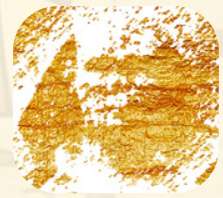


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Warehouse & Material Management

- Automated monitoring of material flow
- Quality control of incoming and outgoing materials
- Secure stock management and bookkeeping
- Tracking of blank, personalized, and issued documents
- Custody transfer and responsibility control
- Scalable across locations and document types



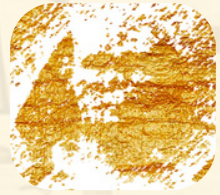


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Verification & Issuance

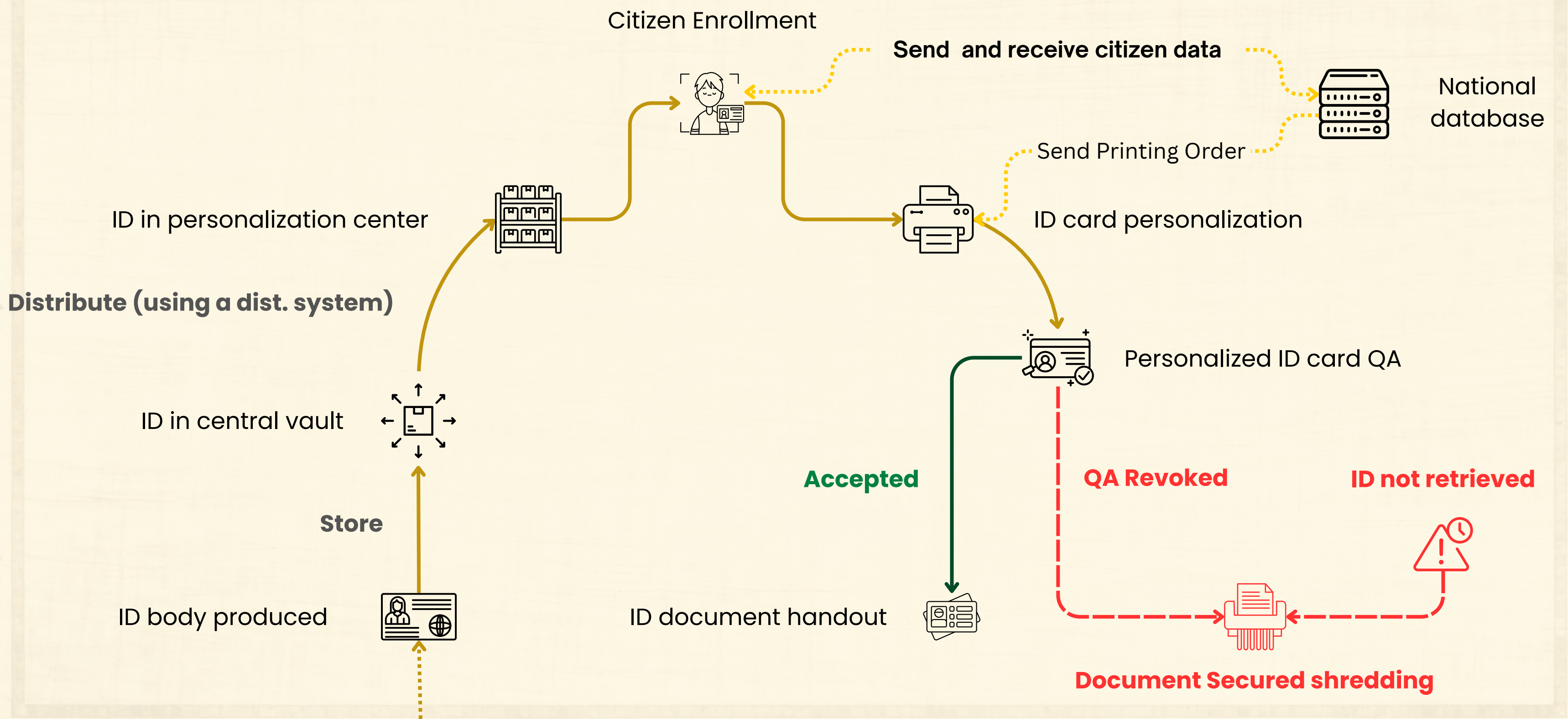
- Stationary and mobile document verification
- Biometric validation against central systems
- Card authentication and PKI validation
- Law enforcement and authority verification access
- Issuance confirmation and system status update
- Support for revocation, expiration, and secure destruction





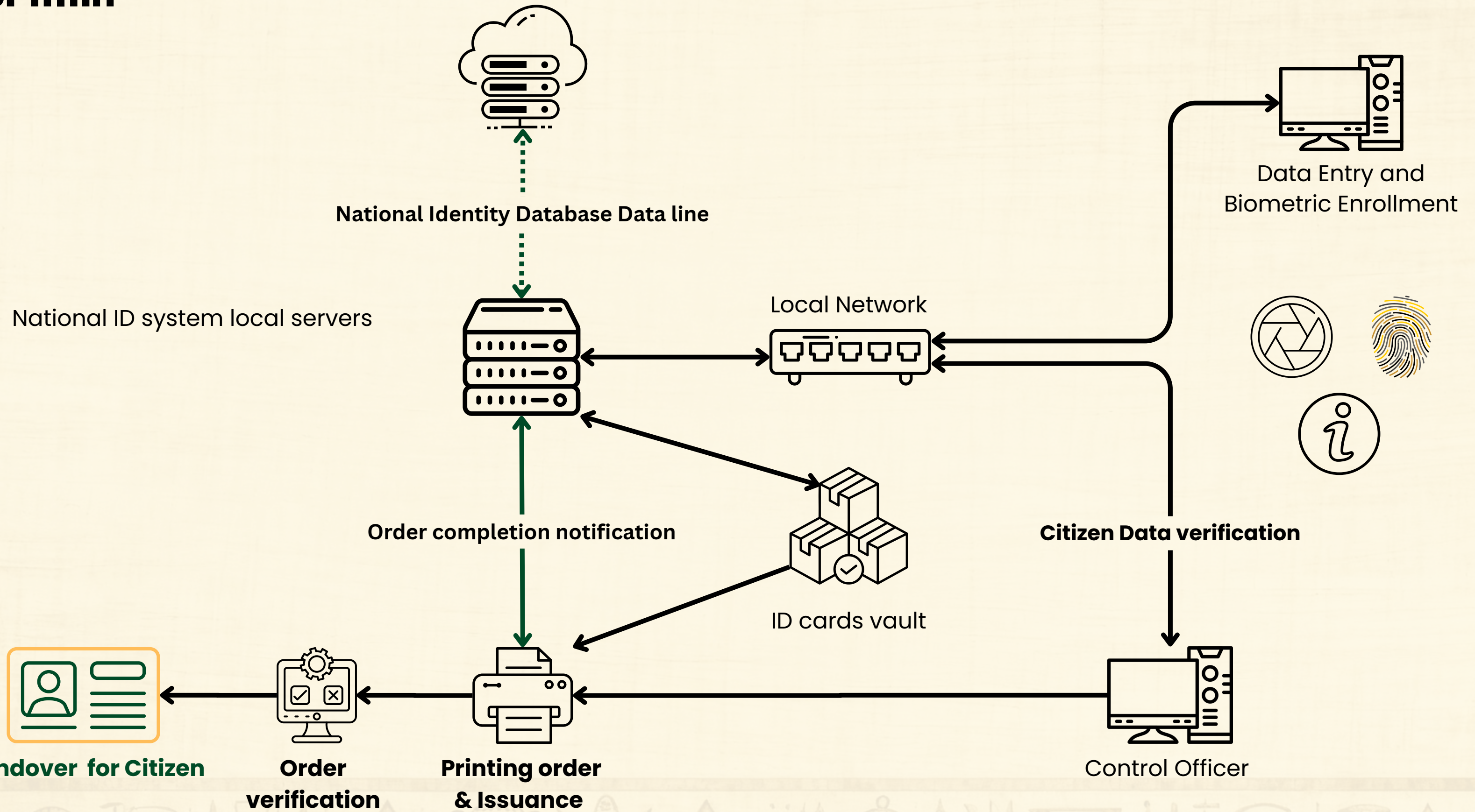
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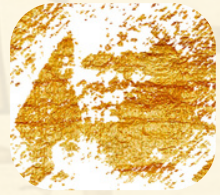
ID card creation process





Personlization Center model





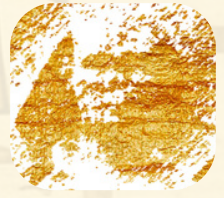
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Sphinx ID Solution

Software

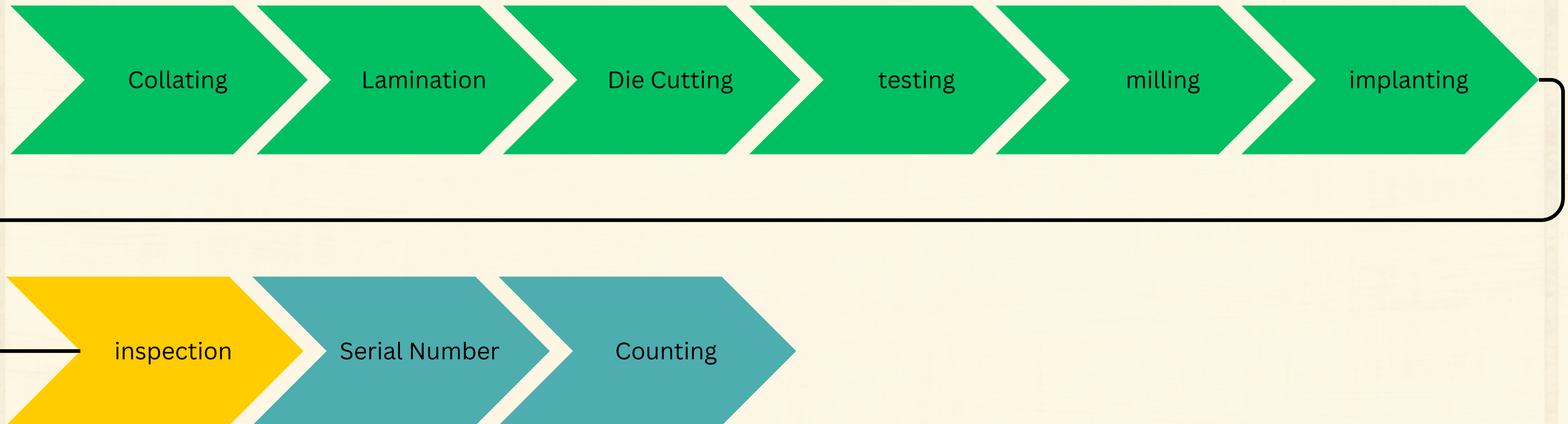


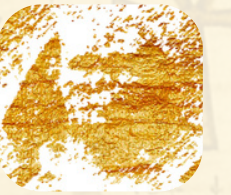
Hardware



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Smart ID Card preparation





Biometric enrollment device



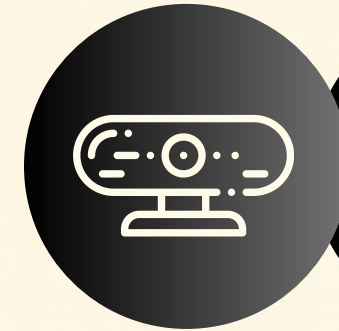
Contactless Card Reader NFC



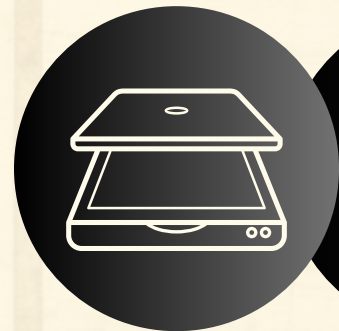
Fingerprint Multi-finger 4-4-2 500 PPI



Smart Card Reader PAM



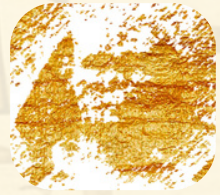
**Built-in Camera 13MP autofocus
External Logitech pro full HD**



**Passport MRZ Reader
& e-passport Reader**



Barcode Reader 1D & 2D Barcode Reader



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