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# EUVAC as implementor of the vision for a European Digital Vaccination Card



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Coordinator organisation | Project  
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# EUVAC – Implementing the EU Digital Vaccination Card



EUVAC (EU4Health Grant 101183190) introduces the Vaccination History (VH) as a new MyHealth@EU Wave 10 service.

The project operationalises the policy vision of a European Digital Vaccination Card by:

- **Creating a structured, interoperable dataset for immunisation information**
- **Embedding it within MyHealth@EU infrastructure**
- **Preparing it for EHDS and EUDI Wallet integration**

EUVAC transforms standards and guidelines into deployable services.



# Why a Dedicated Vaccination History Service?



Vaccination History is intentionally designed as a standalone MyHealth@EU service, separate from the Patient Summary (PS) and Hospital Discharge Report (HDR).

This ensures:

Data minimisation: only immunisation data is exchanged

Faster clinical access to relevant vaccination information

Avoidance of overloading broader medical records

Scalability for administrative and cross-border use

It enables modular service design aligned with EHDS principles.





# Separate Service

1

## Different Scope

The Vaccination Card specifically tracks immunization records, ensuring continuity of vaccination schedules, cross-border disease control, and compliance with national vaccination policies

2

## Updates

Vaccination records require frequent updates as new vaccines are administered. Keeping vaccinations separate ensures real-time, dedicated management without interfering with broader health records

3


## Regulatory Considerations

Vaccination data may be subject to different legal and regulatory requirements than general health records.

4

## Principal functions

Vaccination status is often needed for travel, schooling, employment, and public health policies. A standardized Card across EU countries ensures smoother verification across borders.



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the European Union



**My health @ EU**  
eHealth Digital Service Infrastructure  
A service provided by the European Union

# Separate Service

5

## Non-Emergency Cases

The Vaccination Card is needed in routine care, travel, and preventive healthcare rather than urgent situations.

Separating the service ensures vaccination data is easily accessible when needed.

6

## Future-Proofing

A standalone vaccination service allows for scalability, integration with digital vaccination passports, and better alignment with future EU-wide public health strategies.

7

## International Recognition

A separate, standardized, and digitally verifiable vaccination card ensures easy recognition at contexts without exposing broader medical history. The WHO's Digital Health Certificate framework aligns with this approach for global compatibility.

8

## Accessibility

A separate mobile-friendly, wallet-storable digital document (e.g., QR code-based) ensures faster verification. Can be integrated into digital IDs, health apps, or EU-wide digital wallets.

# Use Case 1 – Cross-Border Vaccination Retrieval (FHIR-Based)

Use Case 1 enables healthcare professionals in Country B to retrieve the Vaccination History of a patient affiliated with Country A.

## Process:

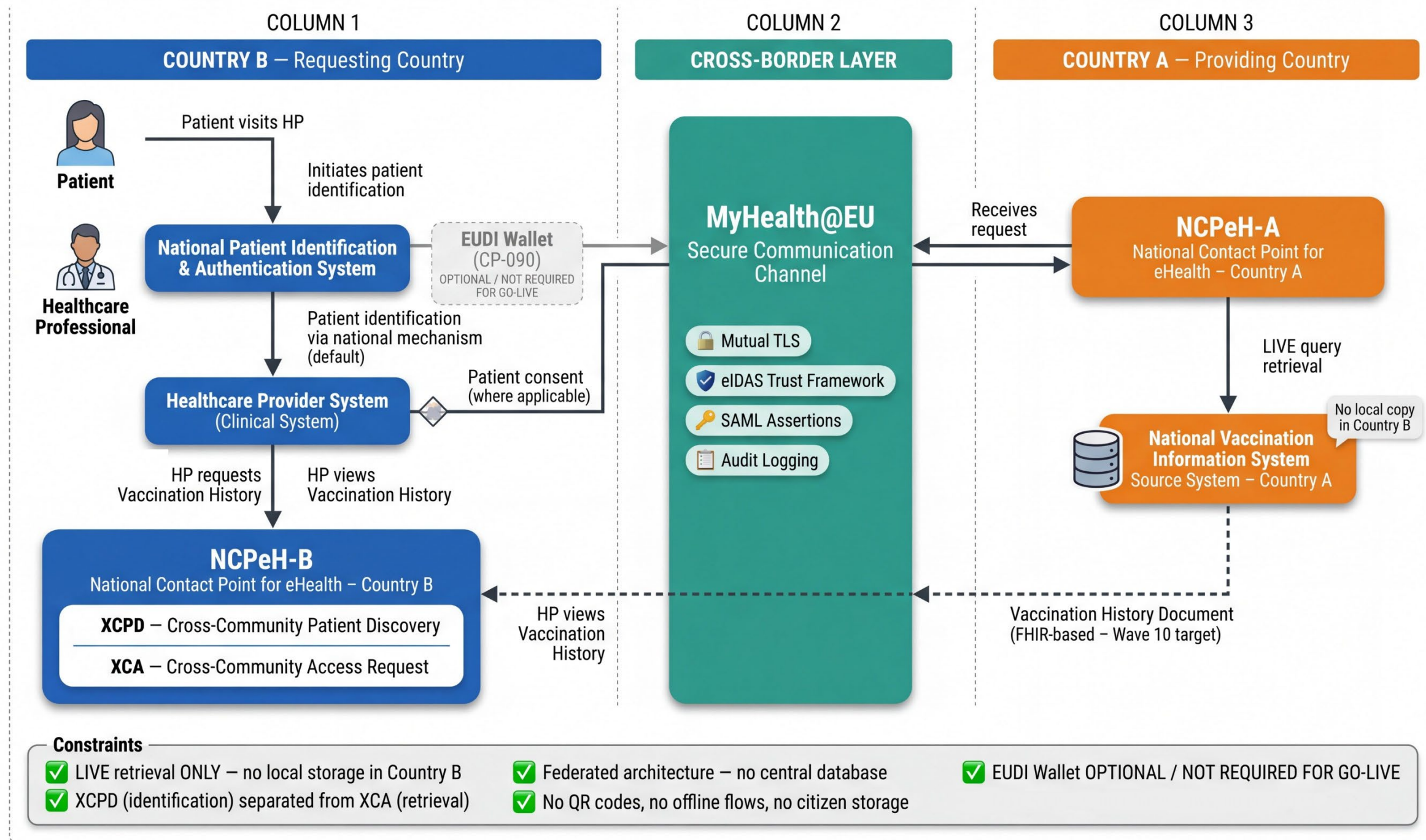
- The patient seeks treatment abroad.
- The healthcare professional requests vaccination data.
- NCP-B sends a request to NCP-A using the standard MyHealth@EU workflow.
- NCP-A returns the Vaccination History as an HL7 FHIR Bundle.
- The information is displayed via the FHIR Viewer to the health professional.

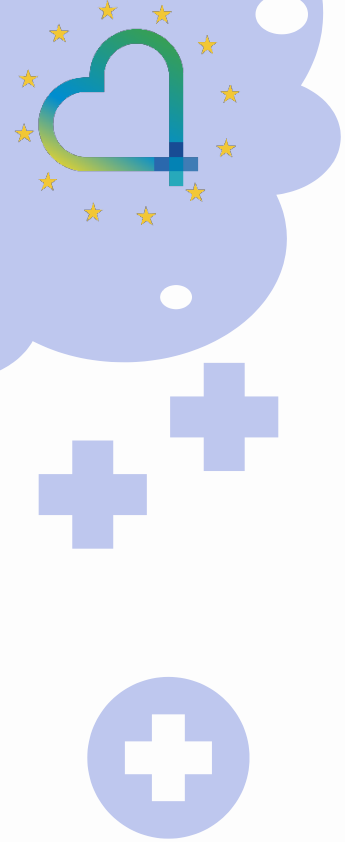
This use case is fully FHIR-based and built on MyHealth@EU infrastructure.

# Vaccination History as a New MyHealth@EU Service



## MyHealth@EU — Cross-Border Vaccination History Retrieval Use Case 1 – Go-Live · Production Architecture · Live Retrieval Only





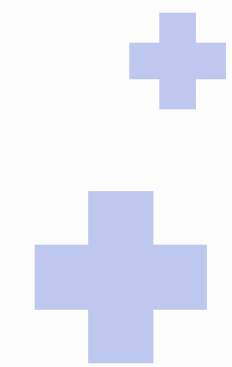
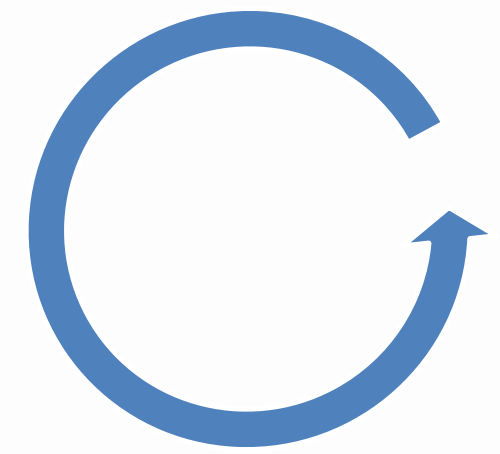
# Technical Foundation of Use Case 1

**This design avoids introducing new infrastructure and ensures interoperability continuity.**

**Technical elements:**

- HL7 FHIR R4 (Composition + Immunization resources)
- IHE XCA / XDS.b exchange profiles
- Master ValueSet Catalogue (MVC) and Common Terminology Services (CTS)
- ATNA audit logging

**The Vaccination History service is implemented in OpenNCP v10.x and reuses existing MyHealth@EU exchange mechanisms.**





# Structure of the Vaccination History Dataset

The dataset includes a harmonised header and body.

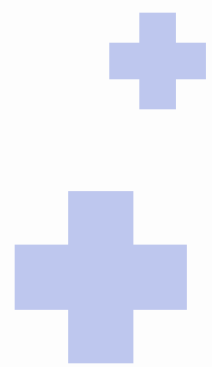
## Header elements:

- Patient identifiers (ISO TS 22220)
- Country of affiliation (ISO 3166)
- Organisation OID (ISO 6523)
- Report creation and update dates (ISO 8601)

## Body elements:

- Vaccine code (ECDC catalogue)
- Medicinal product identifier (EMA SPOR / IDMP)
- Disease targeted (SNOMED CT)
- Administration date, route, batch number
- Administering organisation

The dataset is structured, machine-readable, and semantically governed.

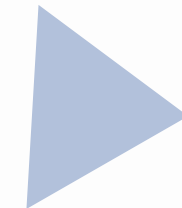


# Terminology Governance and ValueSet Management

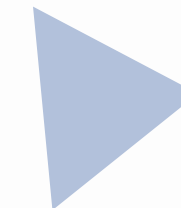


Vaccination History relies on European-level terminology governance:

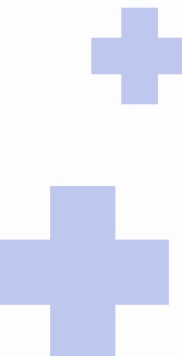
- ECDC Vaccine Code Catalogue
- EMA SPOR / IDMP
- SNOMED CT Global Vaccine Hierarchy subset
- ISO standards



All ValueSets are registered in MyHealth@EU MVC and maintained via the Change Management Procedure.



This ensures long-term semantic stability.



# Extending Beyond Provider-to-Provider Exchange



While Use Case 1 focuses on cross-border clinical retrieval, EUVAC also introduces citizen-centric extensions

Use Case 1 – Wallet-based identification  
Use Case 2 – National derivation and offline credential (EU Digital Vaccination Card)  
These use cases complement, not replace, the MyHealth@EU service.



# Use Case 1 (pilot extension) benefits



In collaboration with MyHealth@MyHands, Use Case 1 introduces EUDI Wallet identification at the point of care.

Process:

- The citizen authenticates using EUDI Wallet credentials.
- Identity attributes are verified via the wallet trust chain.
- NCP-B triggers the same FHIR-based VH request to NCP-A.
- The Vaccination History is retrieved through MyHealth@EU.

**Important:** The backend remains unchanged and fully FHIR-based.



# Benefits of Use Case 1



## Use Case 1:

- **Enhances citizen-controlled identification**
- **Supports future consent handling mechanisms**
- **Aligns with EHDS identity federation vision**
- **Maintains compliance and audit guarantees**

**Vaccination data continues to travel securely within MyHealth@EU.**



# Use Case 2 – National Derivation & Citizen-Mediated Sharing



Use Case 2 introduces a citizen-mediated access model in which the Vaccination History (VH) is retrieved from the national infrastructure of the Country of Affiliation.

In this scenario:

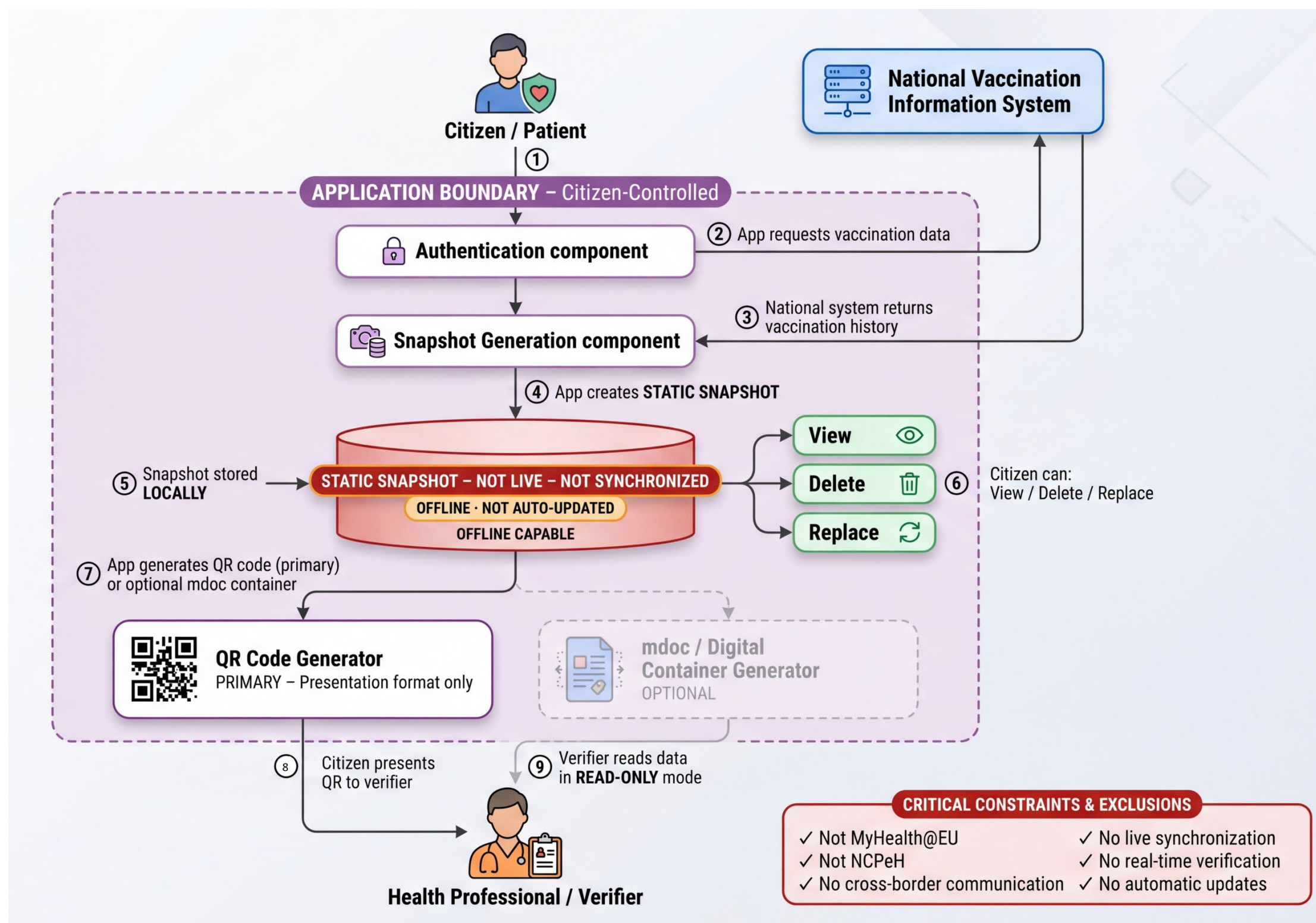
- The citizen requests access to their vaccination record.
- The data is derived from the national vaccination registry or competent authority.
- The Vaccination History is provided in structured (FHIR-based) format.

This flow may operate independently of the MyHealth@EU cross-border network, while remaining compatible with its semantic framework.





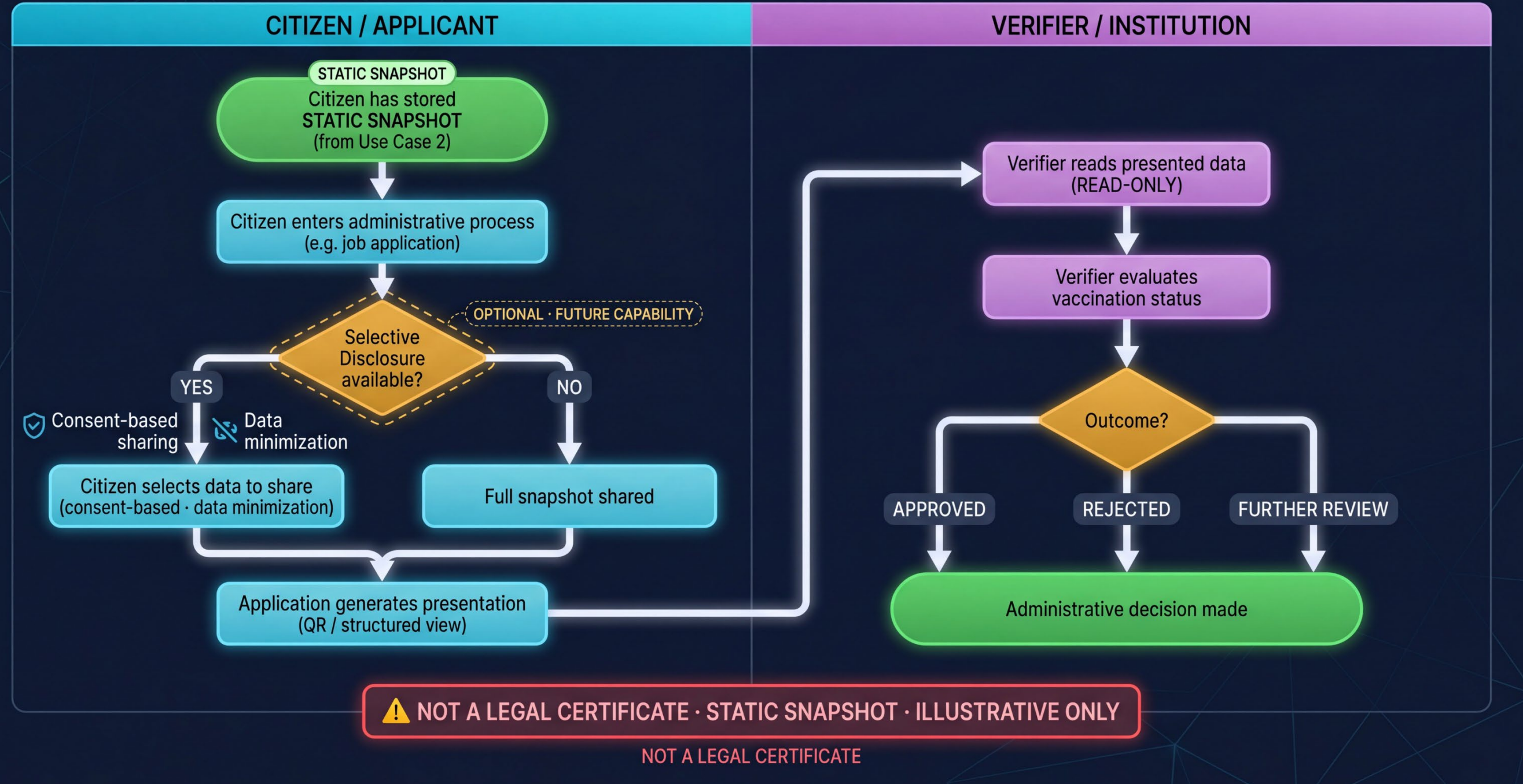
# European Digital Vaccination Card - Use Case 2





# EU Digital Vaccination Card – Future Cases

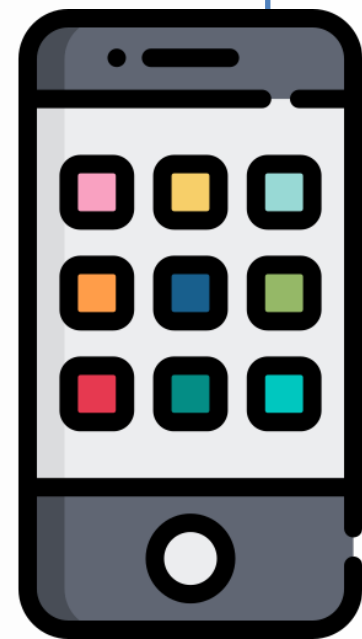
## Use Case 3 — Administrative Use of Vaccination Record (Illustrative · Future-Oriented)



# National Flow of Use Case 2



## Step-by-step process:



- Citizen authenticates in a health mobile app.
- App sends request to national vaccination registry.
- Registry returns VH in FHIR format.
- App applies semantic translation via ValueSet mappings (supported by MyHealth@EU).
- Citizen stores and displays the [subset of] Vaccination History.

This creates a portable, citizen-held version.

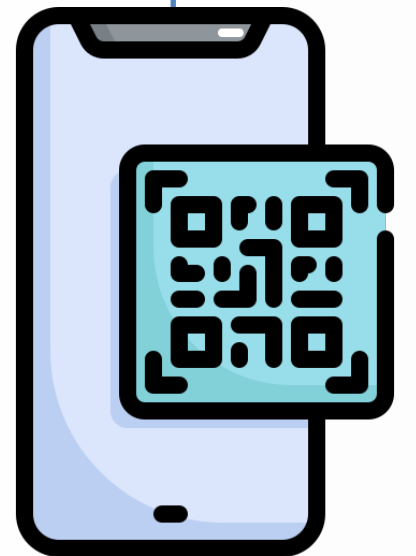


# Signed Representation and Verifiability



Where supported by national implementation, Use Case 2.2 may allow:

- **Generation of a digitally signed representation of the Vaccination History.**
- **Encoding of a signed summary or secure reference (e.g., QR format).**
- **Verification against trusted endpoints or signature mechanisms.**



This enables controlled presentation of vaccination information while maintaining authenticity and data minimisation principles.



# Compatibility with Wallet and Credential Ecosystems / Subject to Governance



**The structured nature of the Vaccination History dataset allows:**

- **Potential storage in wallet-compatible formats.**
- **Alignment with emerging European Digital Identity Wallet specifications.**
- **Issuance of verifiable credentials using recognised standards (e.g., ISO-based models where applicable).**

**Such integration would remain subject to governance decisions and future endorsement processes.**



# Governance and Data Protection Principles



**Use Case 2 respects the following principles:**

- **No central EU storage of vaccination data.**
- **National responsibility for data accuracy, updates, and availability.**
- **Citizen-controlled access and selective sharing.**
- **Compliance with GDPR principles of purpose limitation and data minimisation.**

**The Vaccination data remains under national oversight at all times.**



# Potential Use Scenarios Beyond Clinical Care



While the primary objective remains safe healthcare provision, structured vaccination information may also support:

- Mobility-related verification contexts.
- Educational enrolment requirements.
- Travel-related vaccination checks.
- Occupational health documentation.

These scenarios are enabled by the structured and interoperable design of the Vaccination History dataset, without expanding the scope of MyHealth@EU governance.



# THANK YOU

QUESTIONS?

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