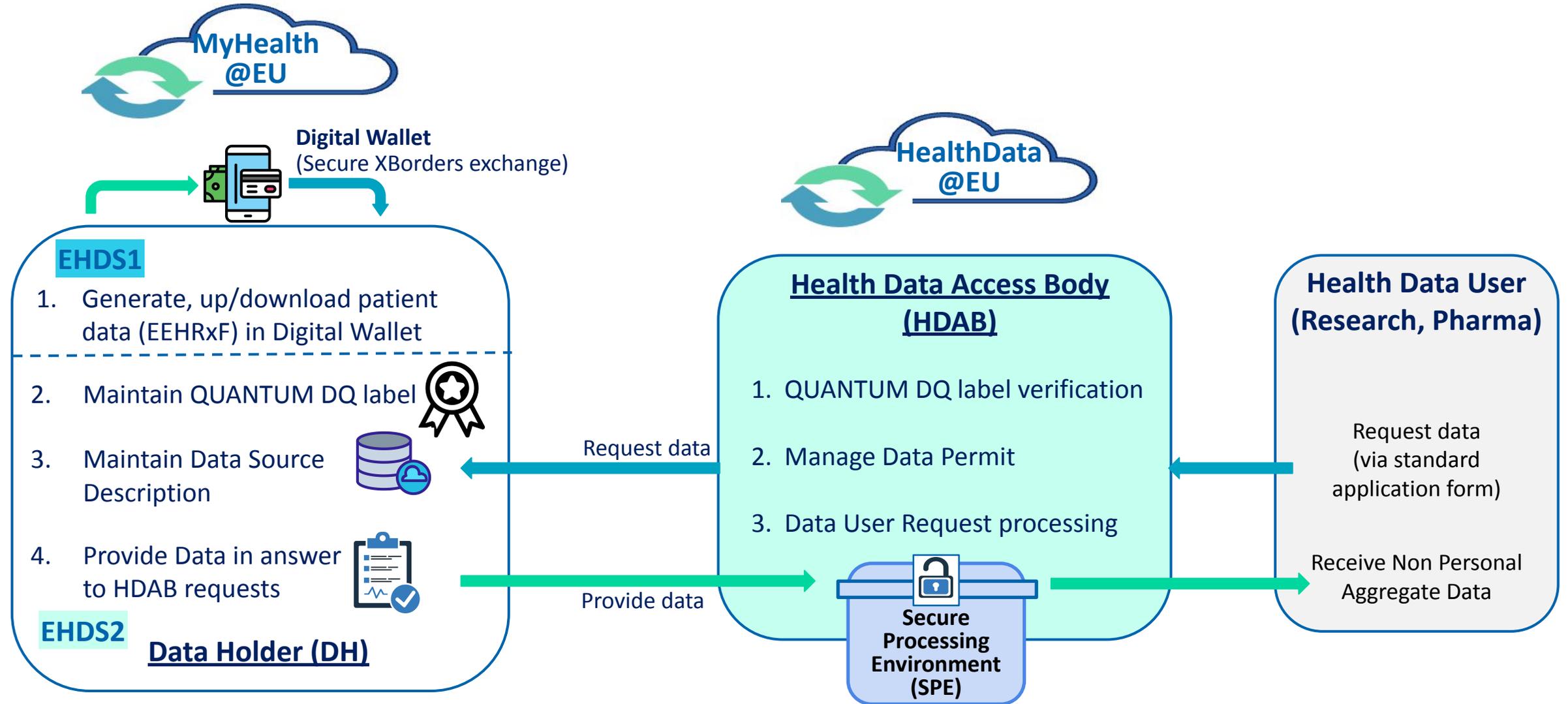


Is EHDS affordable

- Current data flows
- Requirements for data holders and authorities
- Cost estimates

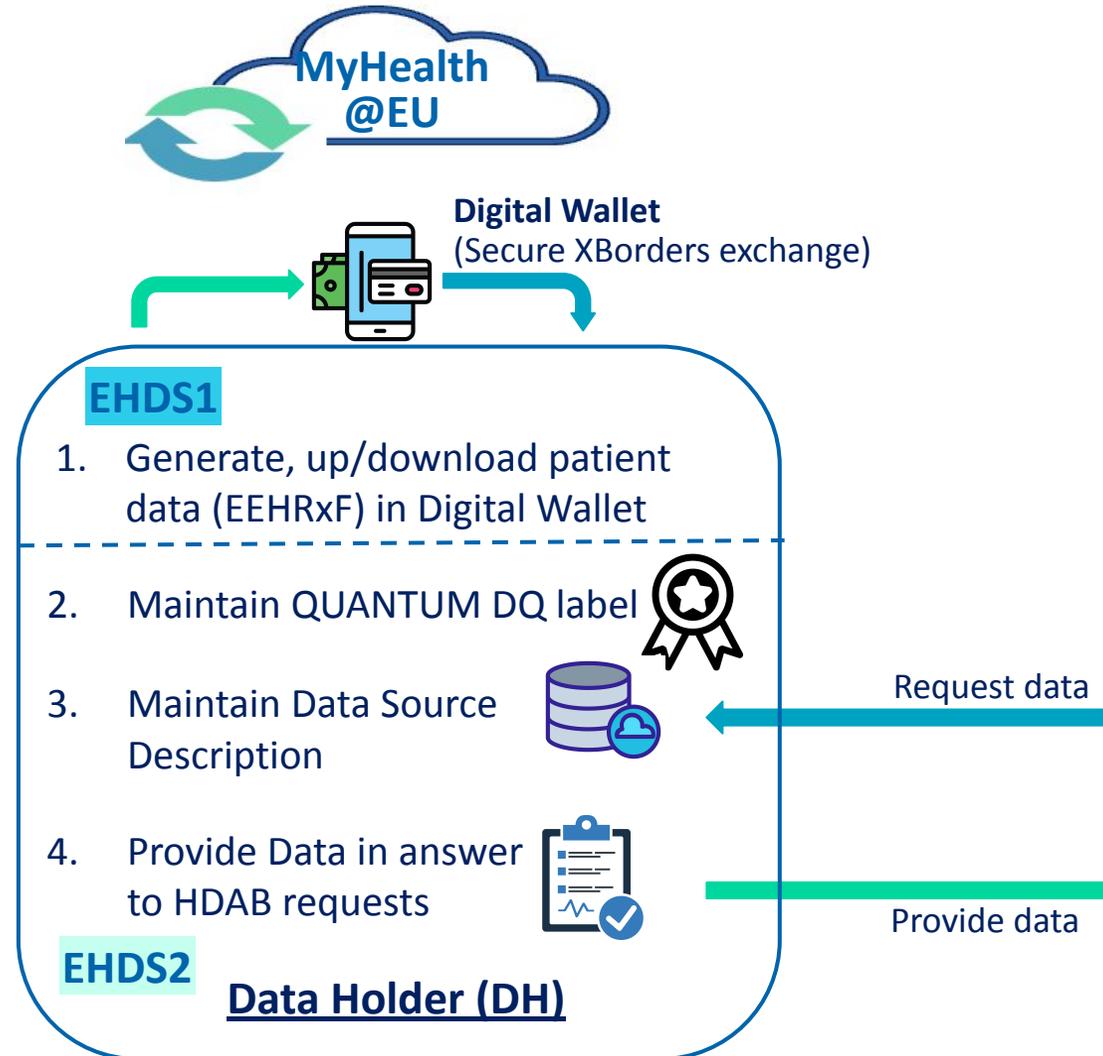
Deep dive in EHDS Data Flows

Overview



Deep dive in EHDS Data Flows

Requirements for Data Holders



Needed by Data Holders

- In depth understanding of data (attribute level) across all hospital's IT subsystems
- **Provide EEHRxF compliant data**
Develop/buy tools for
 - data extraction of a patient relevant data
 - **(manual ?) data quality checks**
 - transformation into HL7 FHIR (EEHRxF) format
- **Provide data in answer to HDABs request**
Develop/Buy Tools to support
 - extraction of data on demand
 - **transformation/curation in required format**
- **Needed skills:** HL7 FHIR, data scientists

In case of vendors managed systems,

- Pay for additional services required by EHDS
- May require integration across vendors (& managing inconsistencies)

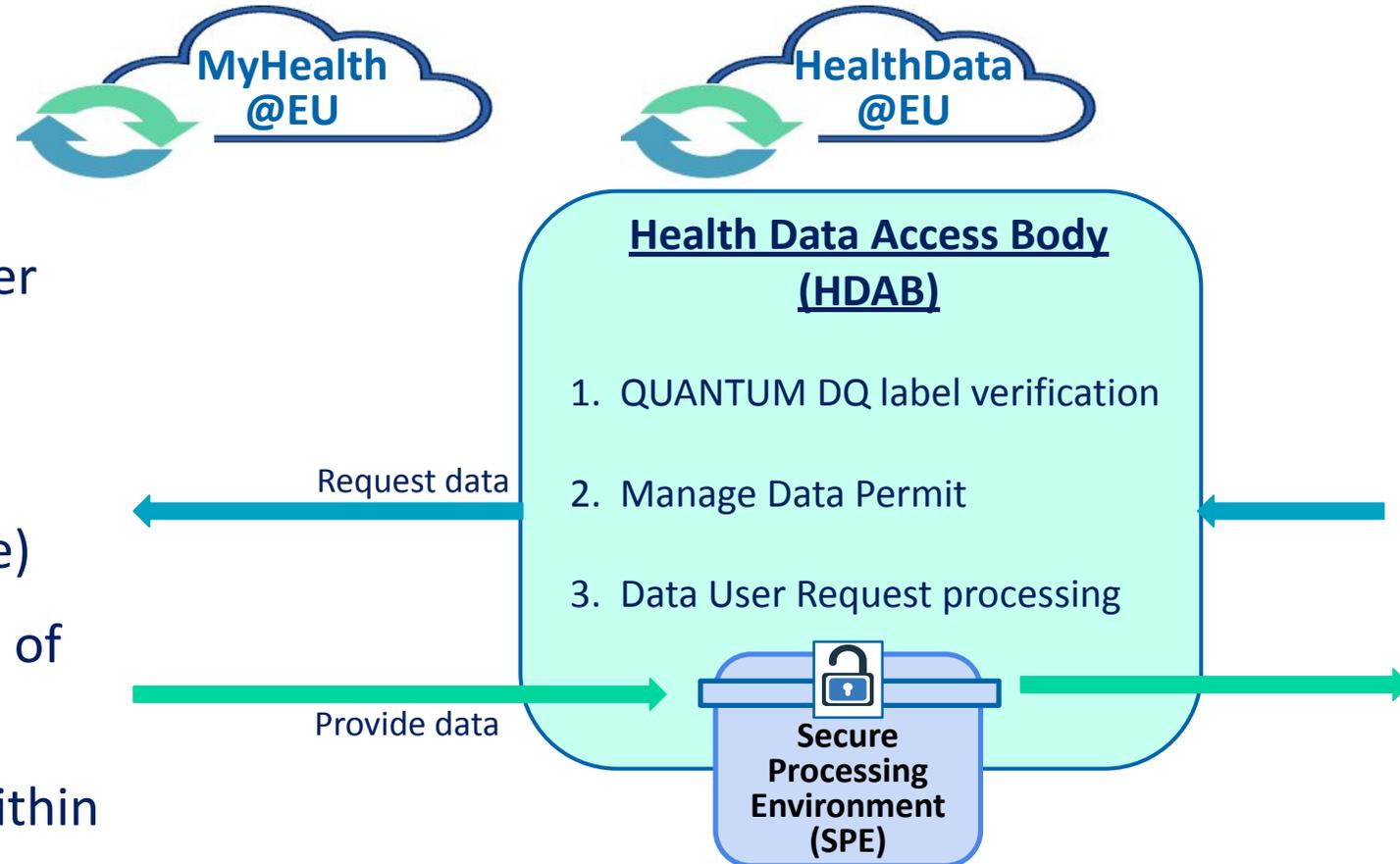
Deep dive in EHDS Data Flows

Overview - Primary & Secondary Use



Needed by Authorities

- Set up organisations (HDABs & SPEs)
- Set up EU infrastructure for cross border exchanges
 - Digital Wallet (EUDI/ eIDAS)
 - MyHealth@EU (for primary use)
 - HealthData@EU (for secondary use)
- Support development and deployment of EEHRxF implementation guides
- Support / supervise implementation within Data Holders (training, funding)



Cost ESTIMATES:

10 hospitals, 5 years, per year: 1250 records, 1250 EEHRxF, 100 HDAB queries



		Cost estimates (KEUR)				
	Steps	One of	Per unit	Yearly	Total Period	%
Data Holders	Curation	€0	€0	€0	€0	0.0%
	EEHRxf	€300	€0.10	€425	€2,125	43.5%
	Dataset Description	€50	€0.25	€52	€258	5.3%
	Answer to queries	€0	€5	€500	€2,500	51.2%
	Total/Data Holder				€4,883	
TOTAL ALL DH					€48,825	
HDAB						
	Curation	€0	€50	€5,000	€25,000	
TOTAL (KEUR) 10 hospital/ 5 years						
					€73,825	
TOTAL (Billion EUR) 10.000 hospital/ 5 years						
					€738	
TOTAL (Trillion EUR) 10.000 hospital/ 5 years						
					€0.7	

Numbers in red: assumptions being verified

Cost ESTIMATES:

10 hospitals, 5 years, per year: 1250 records, 1250 EEHRxF, **200** HDAB queries



		Cost estimates (KEUR)				
	Steps	One of	Per unit	Yearly	Total Period	%
Data Holders	Curation	€0	€0	€0	€0	0.0%
	EEHRxf	€300	€0.10	€425	€2,125	28.8%
	Dataset Description	€50	€0.25	€52	€258	3.5%
	Answer to queries	€0	€5	€1,000	€5,000	67.7%
	Total/Data Holder				€7,383	
	TOTAL ALL DH				€73,825	
<hr/>						
HDAB	Curation	€0	€50	€10,000	€50,000	
<hr/>						
TOTAL (KEUR)	10 hospital/ 5 years				€123,825	
<hr/>						
TOTAL (Billion EUR)	10.000 hospital/ 5 years				€1,238	
TOTAL (Trillion EUR)	10.000 hospital/ 5 years				€1.2	

Numbers in red: assumptions being verified

EHDS implementing acts push a lot of requirements on 'data holders' (and more specifically hospitals). This makes sense as hospitals are the 'holders' of the patient data, at the core of health systems.

However, without supporting tools and automation, the additional burden (cost, needed skills) to hospitals might be unbearable for most and lead to EU digital divide in health. In addition, the cost rises proportionally with the number of requests.