AP-HP Clinical Data Warehouse (AP-HP CDW)

Good Practices	cloud, the A massive heal activities tha component Data Warehouse a Authority, er than 11 milli health syster In the field of solution (IB) by the care t and universi i2b2 solution building of " making their interoperable authorized b running on t developmen New service Clinical Rese	y an institutional secured and high-performance P-HP data space integrates a large amount of thcare data collected during care and research t can be leveraged for secondary use. The major of the AP-HP data space is the AP-HP Clinical ouse (https://eds.aphp.fr), first Clinical Data authorized by the French Data Protection nabling the processing of health data from more on patients to facilitate research, improve the n, make it more efficient and more personalized. of piloting, the common Pilot portal (Cognos M)) enables activity and performance monitoring eams and strategic departments at headquarters ty hospital groups. In the field of research, the n, soon to be replaced by cohort360, enables the 'cohorts" by identifying targeted patients and 'healthcare data FAIR (findable, accessible, e and reusable). More than 160 research projects, by the AP-HP Institutional Review Board, are he AP-HP healthcare data (observational studies, t and external validation of AI/ML algorithms). s aiming at leveraging EHR data to accelerate earch with EHR data are under construction.		
Organization*	 AP-HP (Assistance Publique Hôpitaux de Paris (AP-HP), Greater Paris University Hospital) is a globally recognized university hospital center with a European dimension welcoming more than 10 million sick people in its 39 hospitals in consultation, in emergency, during scheduled hospitalizations or in hospitalization at home. AP-HP Innovation & Data department, at the heart of our institutional Learning Health System, is offering tools and services to a broad set of users in the AP-HP supporting patient care, piloting and research activities. 			
Name of expert& Position in the Organization	Dr. Christel Daniel, Associate Director of Data and Innovation			
What was the interoperability challenge for health care providers that you have addressed? (What & Why, Scope of interoperability project)*	reusability for other purposes such as reporting, improving own practices and exchanging data for clinical and public health research.			
How was this challenge addressed?*	Infrastructur 5 year duration	re + software development (cohort360) Year completed: 2022		

What were the major enablers and pre- conditions?	National interoperability frame work (multi terminology server), availability of interoperability specifications (OHDSI OMOP, HL7 FHIR), previous experience (EHR4CR, EHR2EDC)			
	Direct Award of Contracts			
What type of tender did you	Prior Consultation			
use ?*	Public Call			
	Invitation by Grant Agreement			
	Other:			
	Information exchange for cross border patient			
	care			
Cross Border Relevance (if	Information exchange for public health and \checkmark			
any)*	secondary use			
	Information exchange for the patient			
	Laboratory orders/res	1	\checkmark	
	Imaging orders/result		\checkmark	
	Medication Prescriptio		\checkmark	
	Discharge letters	,	\checkmark	
	Patient summaries		\checkmark	
Which interoperability use	Patient referrals			
cases have you addressed?*	Teleconsultation (patient/doctor)		\checkmark	
	Telecollaboration (docto	or/doctor)		
	Public health reporting(reportable diagnosis & key interventions)		\checkmark	
	Other: <i>e.g. Clinical Research</i> ✓			
	Other: e.g. enter your UC name			
	Other: e.g. enter your UC	name		
	Laboratory			
	orders/results			
	Imaging			
	orders/results Medication			
	Prescription/dispen			
	sation			
	Discharge letters			
	Patients summaries			
	Patient referrals			
What interoperability standards and profiles have	Teleconsultation			
you used for each of the	(patient/doctor)			
above use cases?*	Telecollaboration			
	(doctor/doctor)			
	Public health			
	reporting			
	Other: <i>e.g. Hospital</i> <i>Admissions/Bed</i>			
	Management at the			
	regional level			
	Other: <i>e.g. enter</i> OHDSI OMOP, HL7		FHIR	
	your UC name			
	Other: <i>e.g. enter</i> your UC name			
	your o'C name			

	They were created by the project based on our own selection of standards and profiles		✓
	We referenced/reused the national interoperability framework		
	We ask the main vendor to set these specifications		
How did your project define its interoperability specifications?* Other:		We create our own selection of standards and profiles in collaboratio n with ANS (French National Standardisati on Agency), hospital eHealth network (InterHop) and vendors (InteropSant e)	
What interoperability testing strategy have you	Used a project mandated specific set of interoperability test tools before systems where		✓
employed?*	 interconnected? Reused an existing set of interoperability test tools that were customized before systems were interconnected? Tested the point of care systems by connecting them to a lab version of central systems 		
	Other: Spent a lot of time to connect		
What were the main	each point of care systems When interoperability issues occured, it was complex to decide which system is at fault		
implementation challenges you encountered	We had long discussions on which standards to select		
	8 2		nantic perability
	Other: <i>e.g. enter your UC name</i>		
Who were the perceived	Citizens/patients (e.g. improved can outcomes, improved citizen experie		
beneficiaries of your interoperability initiative?	Health Professionals(e.g. improved workflow, access to information, re-use of data in research)		Directly

	Hospital administration (e.g. reduction of wast, cost savings, improved monitoring) Financial and social factors (e.g. eHealth Mmarket competitiveness, more jobs)		
	Health System (improved efficiency, quality and effectiveness, supporting learning systems)		Indirectly
Did your project used the ReEIF5 layer model to analyse its interoperability?	No		
Based on your experience, what can you recommend to others?	Small healthcare organizations (doctors, pharmacies, etc.		
	Large healthcare organizations	share interoperability resources, expertise and implementation experience	
	Policy makers at EU level		
	Policy makers at Member State Level		