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INTRO

The Institute of Analytics for Health (InAH) project, initiated by the **Walloon government**, tackles challenges in cost-effectiveness, data accessibility, and interoperability.

Join us in revolutionizing Belgian healthcare!

METHODS

InAH adopts a multifaceted approach to achieve its objectives.

At its core lies the utilization of the **OMOP CDM**, this model enables participating institutions to harmonize disparate data sources, facilitating seamless integration and analysis, and favors replicable clinical research on multiple care site.

This phase of **InAH** development brought together several partners which complementary expertises cover software development (**CETIC, Solstisse**), clinical data sciences (**DNALytics**), project management (**Solstisse** and **Walloon administration**) and funding (**Walloon government**).

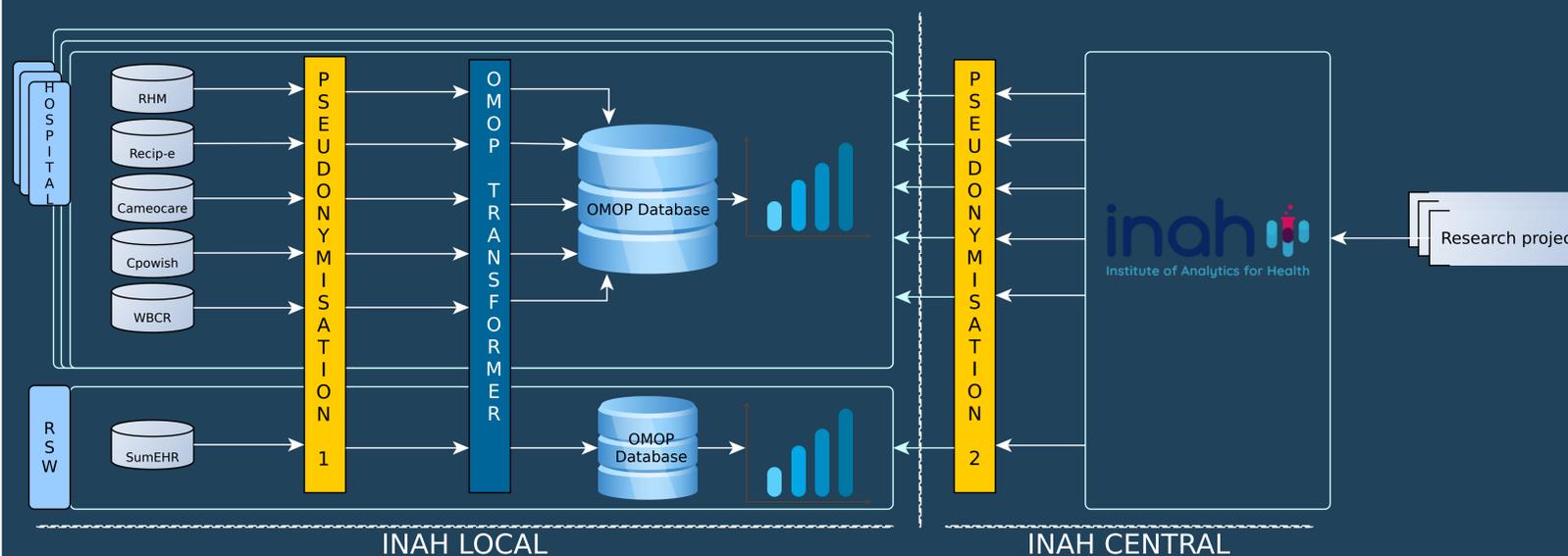
To demonstrate the system's feasibility and usefulness, **InAH** project collaborated with hospitals (CHU Charleroi, Grand hopital de Charleroi (GHdC), CHC Liège, CHU Liège) and the Reseau Sante Wallon to gather data and address practical use-cases in rheumatology, allergy, vaccination, and oncology.

RESULTS

The InAH project recently concluded an important milestone, showcasing the deployment of five connectors (**RHM, ComeoCare, Recip-e, Cpowish, WBCR, SUMEHR**) in multiple care institutions enabling the connexion to pieces of medical records from several hundred thousands of patients.

The project has established a dedicated data quality monitoring dashboard based on OHDSI open source Data Quality Dashboard. The project outperformed an international benchmark of 15 institutions in 10 countries in 2021. It conducted **1051** tests, exceeding the benchmark median, achieving a **99% success** rate in relevant tests, and ranking in the **98th** percentile.

InAH converted data from 5 connectors and SumEHR to OMOP CDM, established hospital databases, and implemented instances for diverse research services.



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Description of the currently available connectors

Connectors	Description
RHM	Résumé Hospitalier Minimum (RHM) provides information about the patient, visit, procedure, and condition.
ComeoCare	ComeoCare provides critical information regarding cancer treatment, specifically focusing on drug exposure, patient data, provider information, and measurements.
Cpowish	Cpowish allows the administrative department to manage the entire admission and billing process for patients. This connector provides information about the patient, visit, drug exposure, and provider.
Recip-e	Recip-e is a connector for electronic creation, dispensing, and consultation of outpatient pharmaceutical and referral prescriptions. This connector provides information for patient, visit, drug exposure, and provider.
WBCR	Web Based Cancer Register is an extract from the Belgian Cancer Register and provides information for patient, visit, condition, provider, procedure, measurements, and death.
SumEHR	Summarised Electronic Health Record contains health information (chronic illnesses, medical history, allergies, medications, etc.) defining the patient's health status.