

Unlocking RWE In The EU



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A.I. & NLP Are The Key To Generating RWE At Scale

Need for:



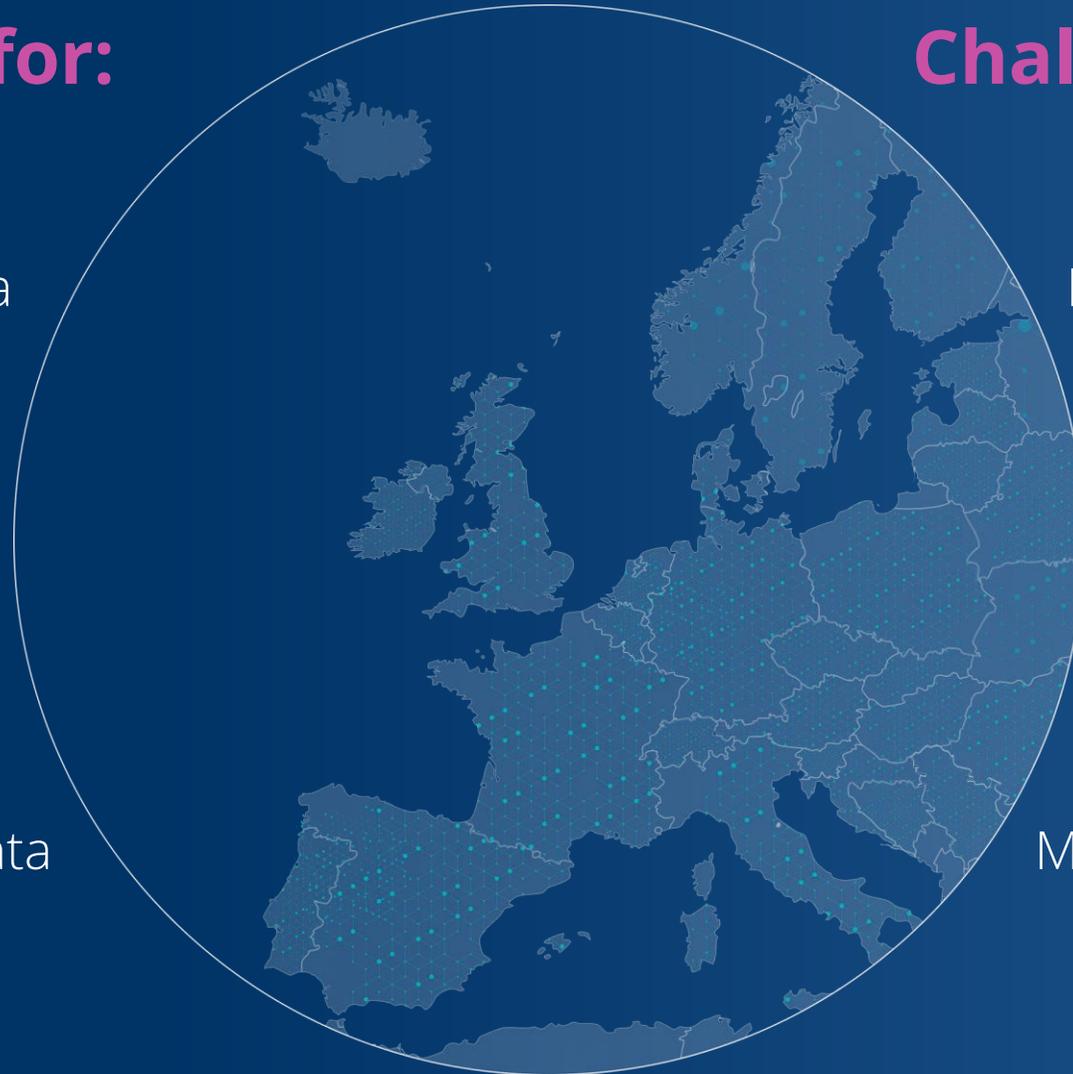
Granular data



Qualitative data



Up to date data



Challenged by:

Many languages



Many systems



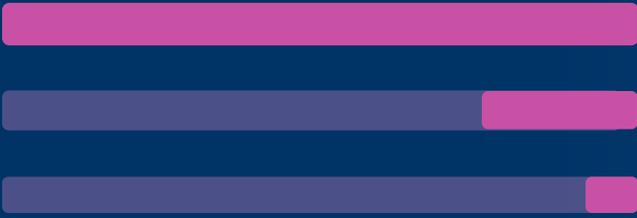
Many silos



The New Way Of Generating Hospital RWD

A.I. automates the manual processes in RWE questionnaires, chart review, ...

Traditional RWE



93%

20

Difficulty to access

Relevance

Scalability

Accuracy

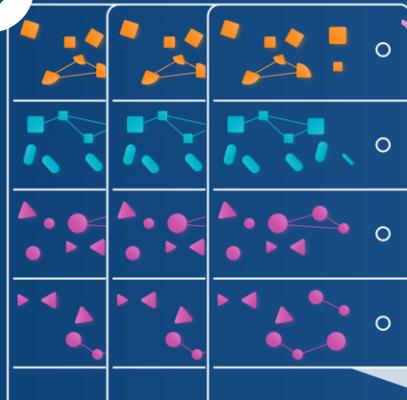
Records/day

AI Extraction



94,5%

>200.000



Our Approach To Collaborative RWE Generation

3 key requirements for RWE generation in Europe

End-to-End Data Infrastructure

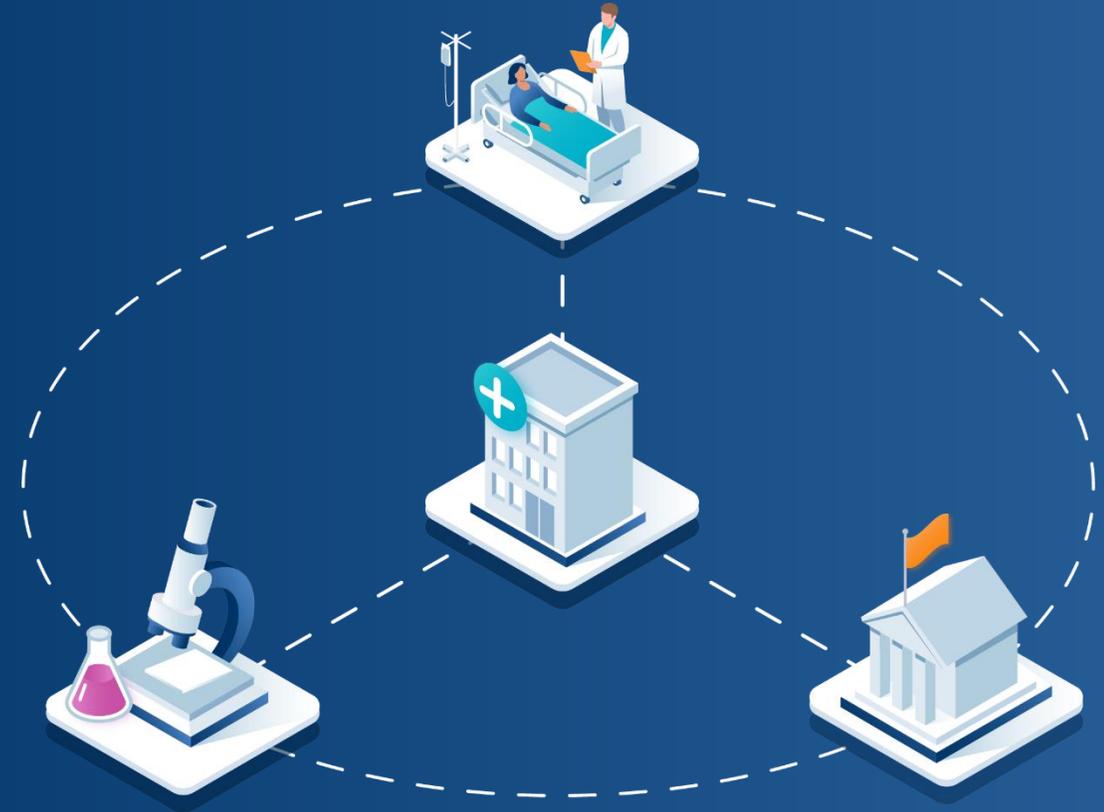
Multilingual AI algorithms & data sovereignty

Collaborative Business Model

Federated evidence generation network

Legal & Ethical Framework

GDPR, CNIL, EDPB, ...



Driving Value For All Stakeholders

Hospitals

“We are no longer relying solely on lessons learned from scientific studies, we now base our decisions on deep, accurate and aggregated real-time data.”

Dr. Marc Vanderheyden, Cardiologist at OLV hospital

#ImprovingMedicalCare #PopulationInsights

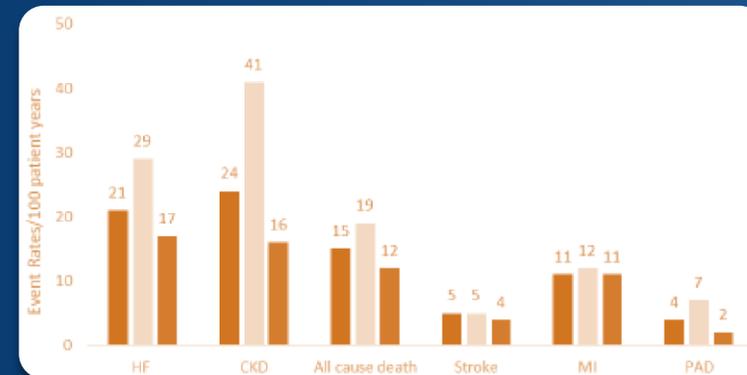


Big Pharma

“LynxCare technology helped us to unlock the potential of unstructured RWD data and collect the answers we needed for our research questions.”

Isabelle Fovel, RWE manager Belgium & Luxembourg

#MarketAccess #RWE #Guidelines #SyntheticTrials



How We Transformed Belgium Into An RWE Hotspot

From limited RWE studies to running 25+ studies in parallel in '22-'23



Strategic RWE collaboration with BE university & non-university hospitals



Clear data governance framework with sector organizations



Technology to overcome 8+ HER's, 30+ data systems, 3+ languages, ...



Clear "open data" policy

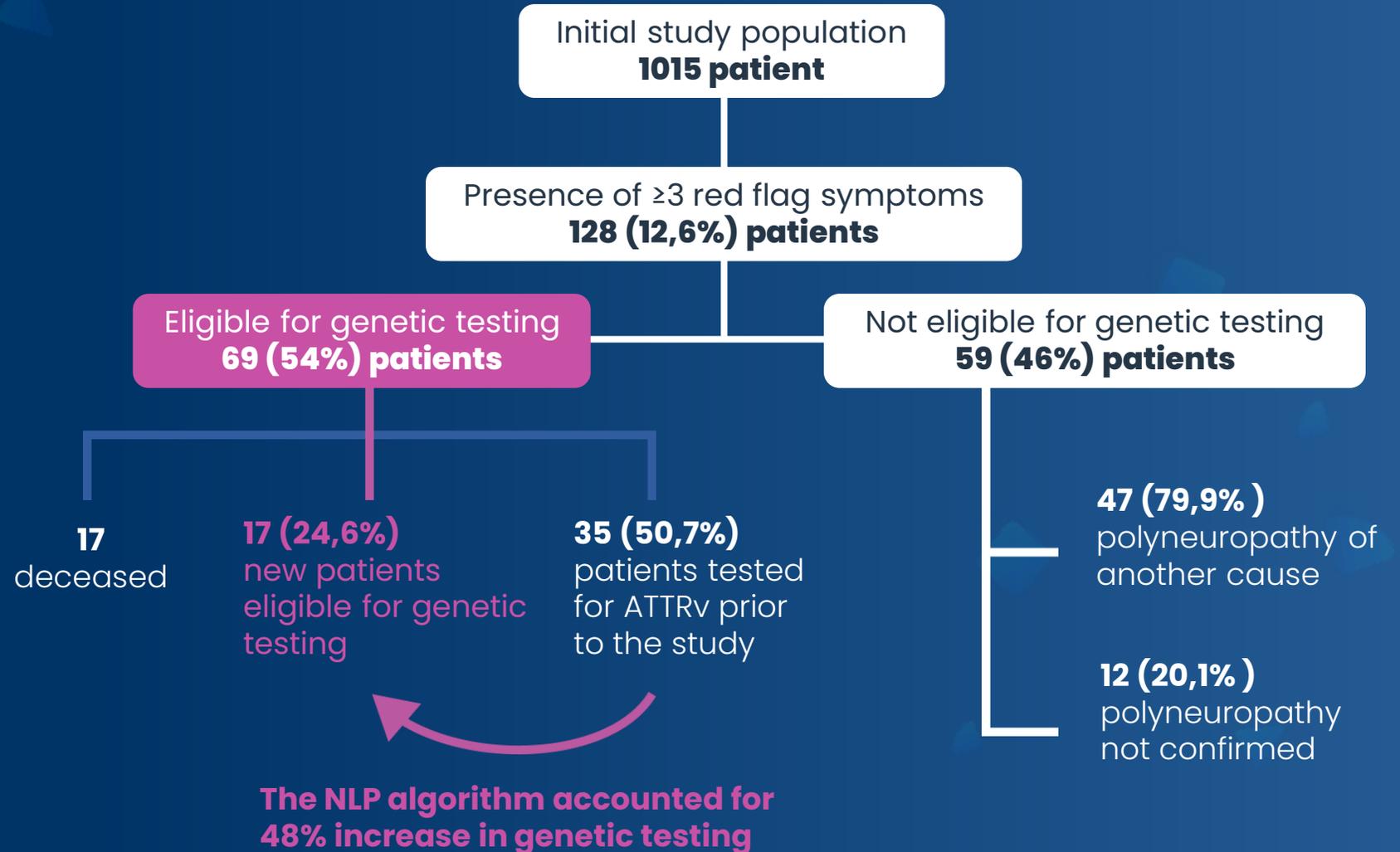
Results ATTRv



Over **60+** different clinical manifestations

Avg. **6 years** diagnostic delay
Avg. **6-12 years** survival

50'-70' years old
1.8/100.000 persons [1]



ATTR – CM: Find The Undiagnosed Patients



Damage to soft tissues
particularly myocardium

Avg. **3-4 years** diagnostic delay
Avg. **2-6 years** survival

20'-70' years old
1/1.000.000 persons [2]

Clinical phenotype ATTR CM (OR > 2)	Number of patients in the control group at risk for underdiagnosis
Carpal tunnel syndromex	113
Heart block, joint disorders, combined systolic and diastolic HF	196
AF, heart block, CKD, soft tissue disorders, combined systolic and diastolic HF	80
AF, heart block, joint disorders, osteoarthritis, soft tissue disorders	79
Total patients at RISK , having > prognostic clinical phenotype for ATTR CM *	71

1

Analyse the non-attr cm population based on predictors for ATTR CM (OR>2) (71 patients)

2

Clinical review & Invite for a bone scan or dedicated echocardio

3

If positive, put them on **Tafamidis** treatment which will impact HRQL of these patients drastically

Automated Coding Of Variables For The Belgian Cancer Registry (BCR) In 3 Types Of GI Tumors



Rare
2022

3 oncology contexts

7 data formats

150-200 data points per patient for ~50 variables

24.450 clinical records processed

Precision >90%, recall >88% for all variables

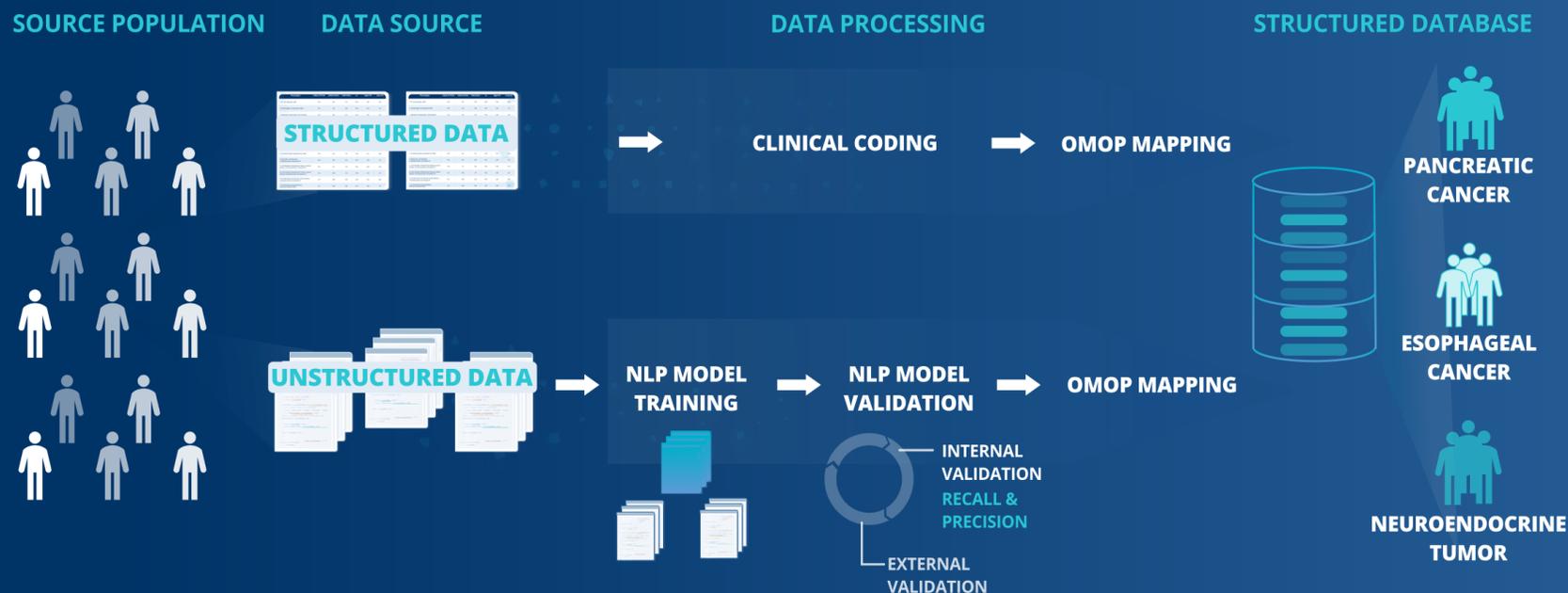
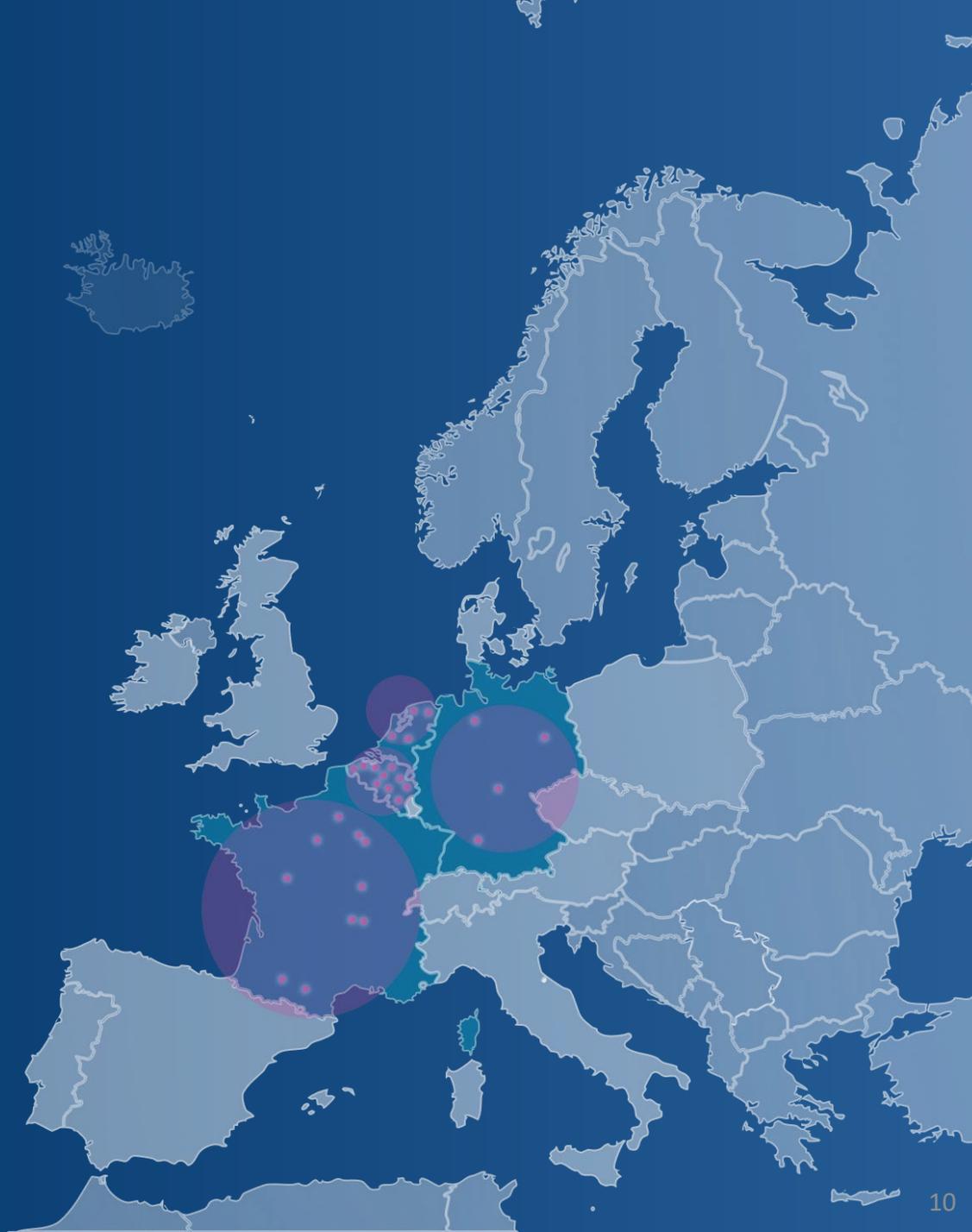


Figure 1. Visualisation of the systematic framework including data extraction from EHR of three different cancer types, validation of NLP algorithm and data storage into structured databases using OMOP CDM.

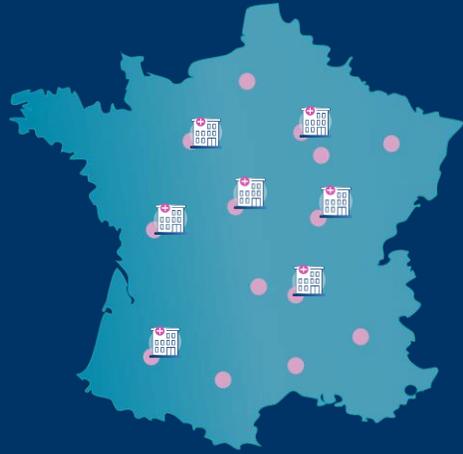


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Redefining hospital RWE collaborations in France



A Favorable Context In France



Governmental priority



+70% of FR hospitals (1000+)



A facilitating legal framework



Manages national claims data
PMSI (SNDS)

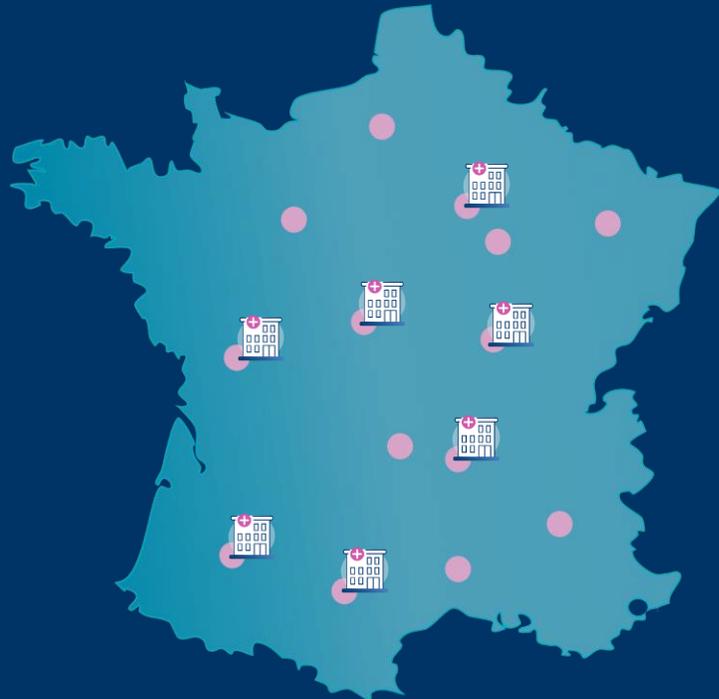


Financial: call for proposals



Secure medical data hosting
capabilities within FR regulation

Lynxcare X PSIH: A Partnership Dedicated To Your Clinical Data Warehouse



For 20 years

**Structured data monitoring
(Monitoring and business
intelligence softwares)**

**Get deeper analysis
of hospital structured data**



LYNXCARE

For 5 years

**Data Warehouse roll-out
and improvement with NLP**

**Enrich hospital with unstructured
data for electronic medical
records and AI algorithms**

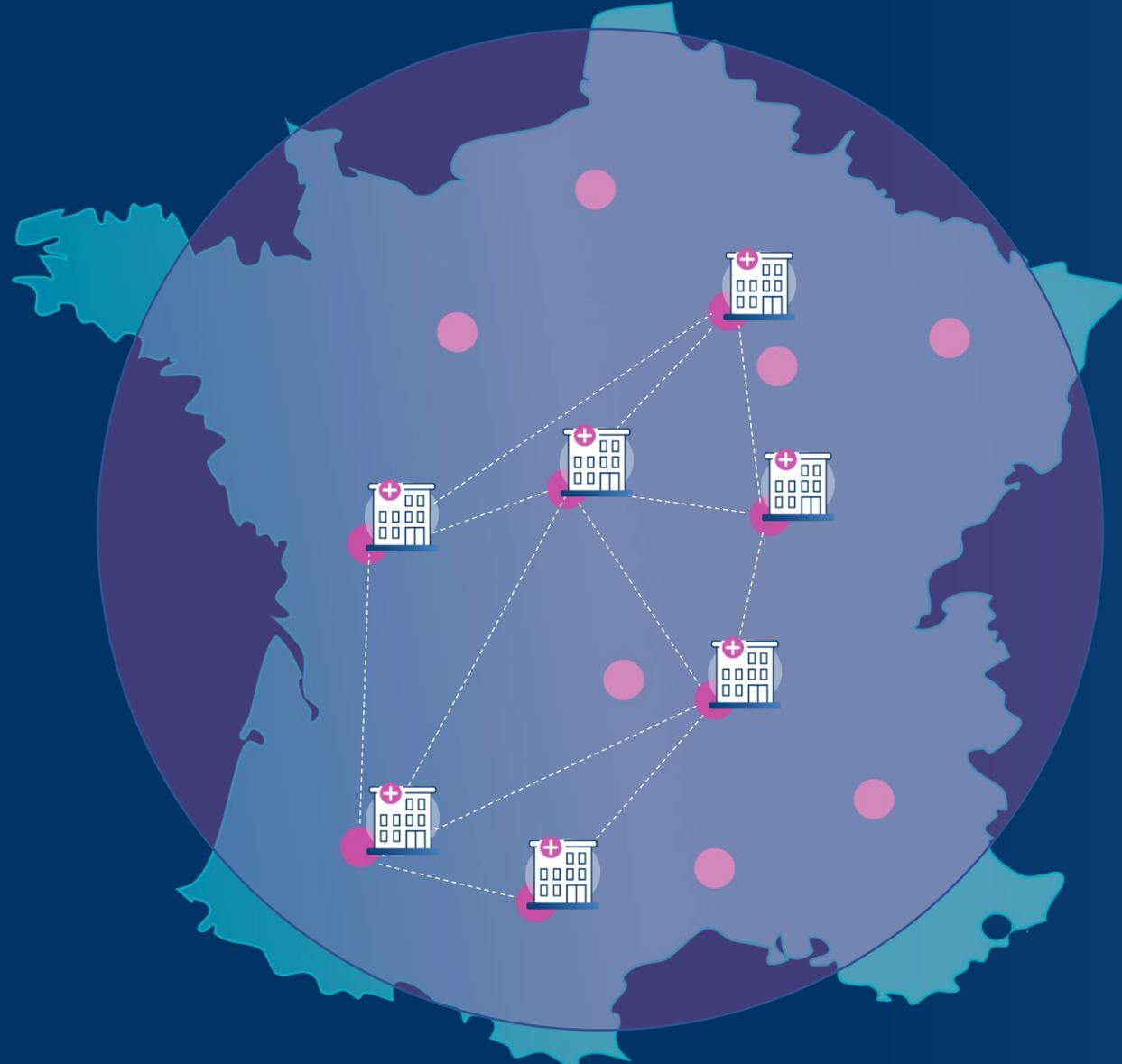


For 10 years

**Hosting and secure
health data**

**High level of
infrastructures and
recognized partners**

French RWE Network In 2023



Ready for RWE projects in
France 2023?

Get In Touch

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