

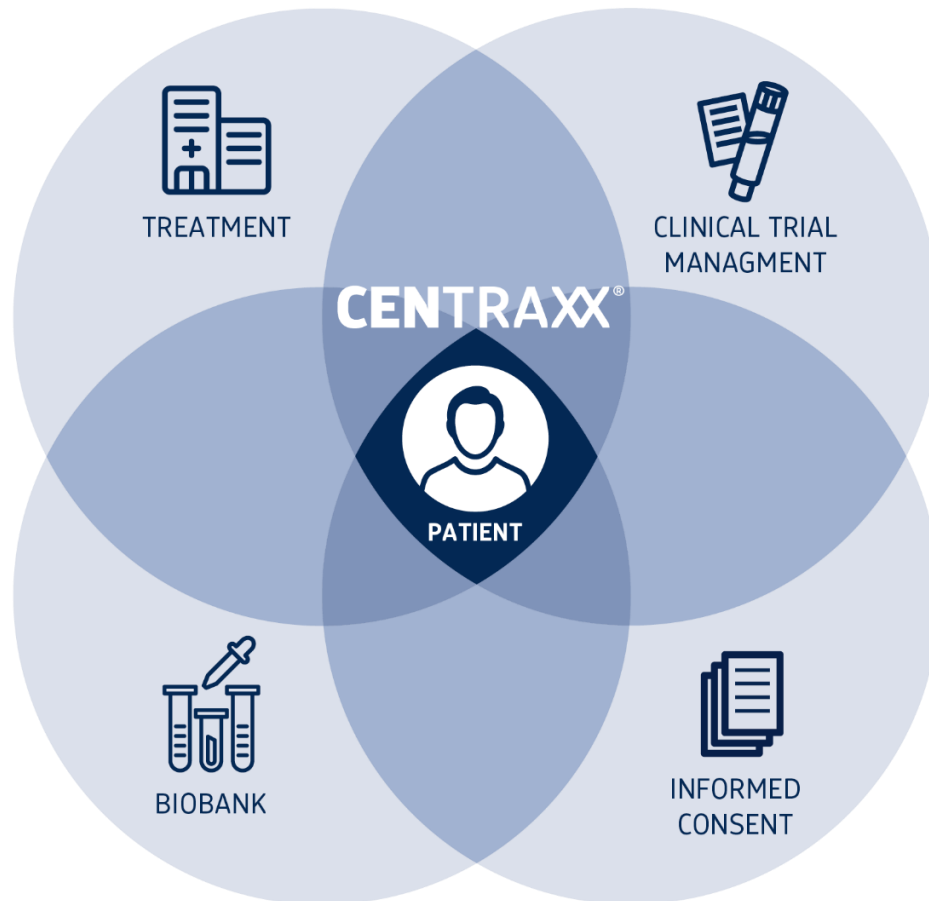
OVERVIEW OF THE KAIROS PRODUCT PORTFOLIO

BRIDGING THE GAP BETWEEN TREATMENT AND RESEARCH



KAIROS PRODUCT PHILOSOPHY

PATIENT-CENTRIC DATA INTEGRATION



- CentraXX delivers **harmonized, consented, validated** and **quality** approved data across healthcare settings.
- The platform provides **compliant** solutions that bridges the gap between treatment and research
- CentraXX balances the demand for data and **privacy** at the same time (installed on-premises).
- CentraXX allows **importing** data from primary sources, as well as structured **data capture** by end users (incl. the patients themselves).



CENTRAXX

PROVEN TRACK RECORD¹

>75

Ongoing, right-sized
Projects In-flight

>450

Production interfaces
supporting interoperability

>114M

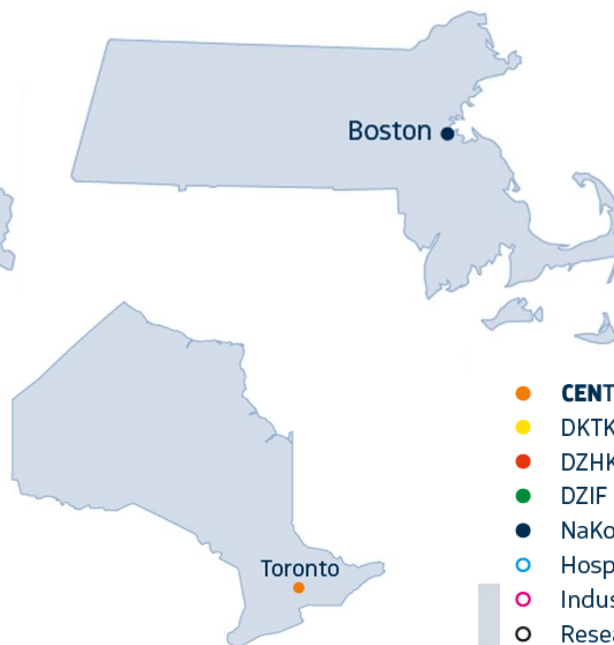
Samples (and their data)
tied to Consent

>4000

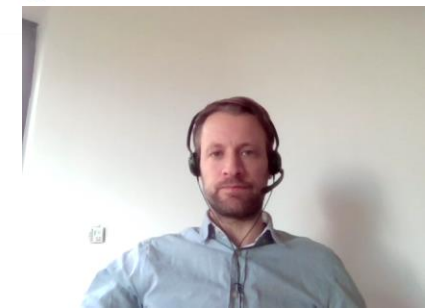
Trials harmonizing Research
& Treatment data

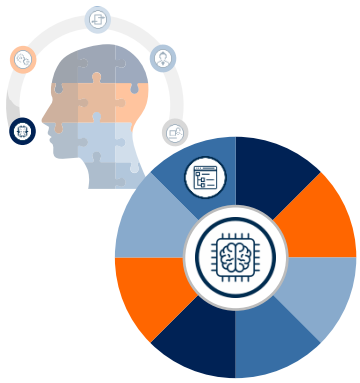
>6.5M

Electronic Patient Records
kept private



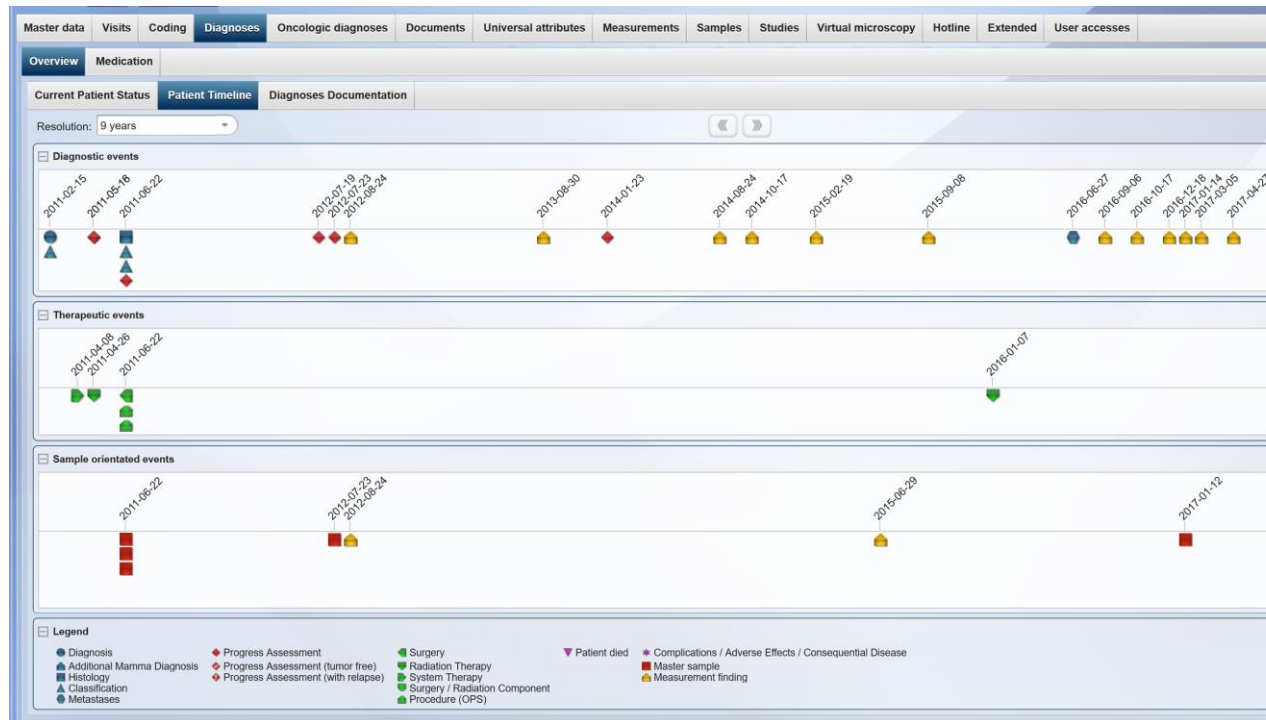
- **CENTRAXX** in University Hospitals
- DKTK sites
- DZHK sites
- DZIF sites
- NaKo Bio Repository/Study sites
- Hospital (specialty)
- Industry
- Research Center





CENTRAXX BOXX

CLEAR CLINICAL OVERVIEW / DETAILED PATIENT INSIGHTS



Core module with data dictionary, security, auditing, interface hooks



Comprehensive, clearly structured patient record with complete health history and research data

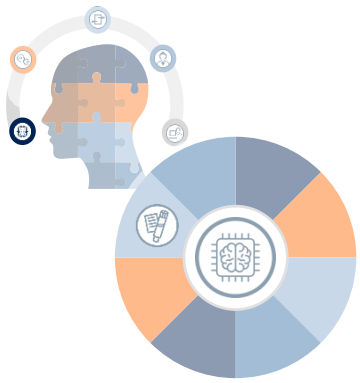


Detailed information about diagnoses, procedures and findings



Complete history, genealogy, & chain of custody of specimen





CENTRAXX BIO

HEALTH EMBEDDED BIOBANKING

Sample overview

Samples

► All

Please select...

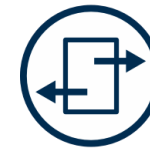
Description	ID	Code / Type	Available Amount	Date	Visit
► Liquid Sample (Stool (STL))	30841	Stool (STL)	1.00 pc	2017-09-06 09:50	2017-10-16)
► Liquid Sample (Stool (STL))	897866	Stool (STL)	0 pc	2017-09-06	63716_1 (Central Biobank, Baseline, 2011-03-25 until 2011-03-25)
► Liquid Sample (Stool (STL))	30819	Stool (STL)	10.00 g	2017-09-05 15:54	63716_1 (Central Biobank, Baseline, 2011-03-25 until 2011-03-25)
▼ Liquid Sample (Blood (whole) (BLD))	28622	Blood (whole) (BLD)	0 ml	2017-05-12 09:50	63716_2 (Central Biobank, Follow-up, 2011-04-08 until 2011-05-16)
▼ Liquid Sample (Serum)		Serum	3 / 4 Aliquots		63716_6 (Central Biobank, Visit 5, 2012-07-23 until 2012-07-23)
▼ Liquid Sample (Serum)	0098975197	Serum	0 ml	2017-05-12 09:55	63716_6 (Central Biobank, Visit 5, 2012-07-23 until 2012-07-23)
Abstraction amount: 5.00 ml	0098975197			2018-01-22 15:20	
▲ Liquid Sample (Serum)	0098975265	Serum	5.00 ml	2017-05-12 09:55	63716_6 (Central Biobank, Visit 5, 2012-07-23 until 2012-07-23)
▲ Liquid Sample (Serum)	0098977616	Serum	5.00 ml	2017-05-12 09:55	63716_6 (Central Biobank, Visit 5, 2012-07-23 until 2012-07-23)
▲ Liquid Sample (Serum)	0098975205	Serum	5.00 ml	2017-05-12 09:55	63716_6 (Central Biobank, Visit 5, 2012-07-23 until 2012-07-23)
► Liquid Sample (Blood (whole) (BLD))	111/2011-5	Blood (whole) (BLD)	0 pc	2012-07-23 09:30	63716_2 (Central Biobank, Follow-up, 2011-04-08 until 2011-05-16)

Legend

Close



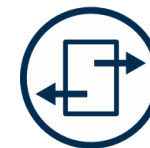
Harmonized clinical and scientific data



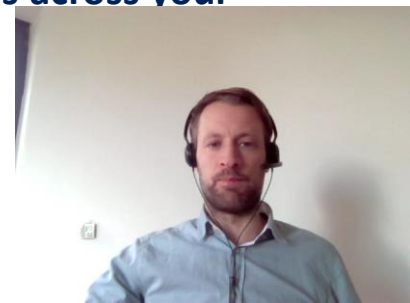
Simplified stock location management with interfaces to flatbed scanners and automated storage

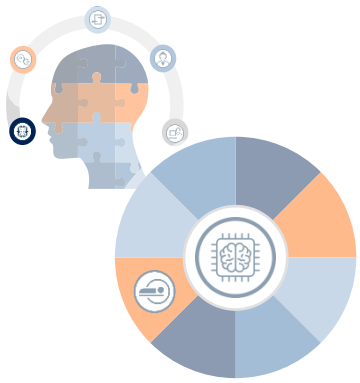


Complete sample genealogy, chain of custody and traceability of patient, study and consent



Interfaces with other systems (including imaging), tools, and partners across your biomedical landscape





CENTRAXX TRIAL

MANAGE THE COMPLETE TRIAL LIFECYCLE STARTING WITH THE TRIAL REGISTER



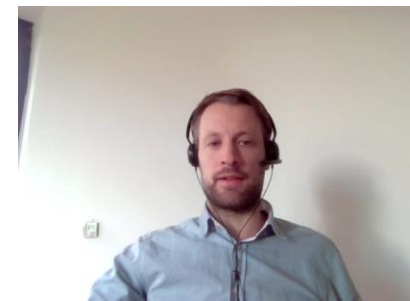
Complete control over study design, recruitment, reporting, form design (eCRF), data capture, randomization and SAE management

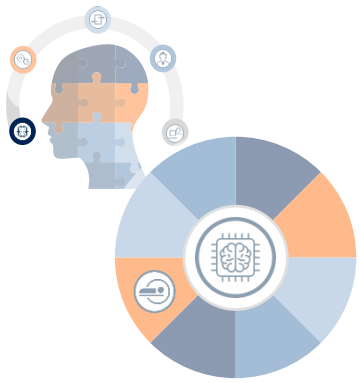


Retrieve data from the LIMS/biobank or electronic patient record accelerating studies



Run compliant, collaborative, and complex studies in a paperless environment





CENTRAXX TRIAL

STRUCTURED DATA CAPTURE

Edit CRF

Baseline Enrollment Data (Version: 6)

Sponsor

KAIROS

Subject

Subject Initials: DFS Subject ID: 23e42

Gender: Date of birth: MM/DD/YYYY

Date of informed consent: MM/DD/YYYY Date of enrollment: MM/DD/YYYY

Additional form notes: Additional collection notes:

Site Information

Site ID: 34

Baseline Symptoms

Select one or more if applicable and add duration in days below for selection/s

CRF Status: Final

Comments

Created on Comment Created by

Validation discrepancies

ID	Created on	Description	Status
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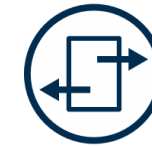
CRF linking

CRF CentraXX ID	Name	Extended description
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Save Save & continue... Approve Verified Lock Revoke Cancel



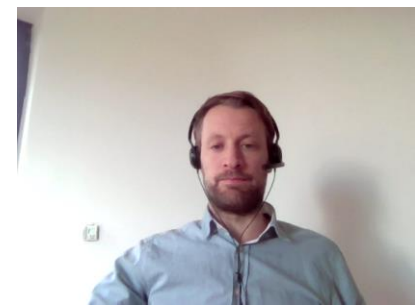
eCRF Designer allows for flexible design of forms required for study documentation

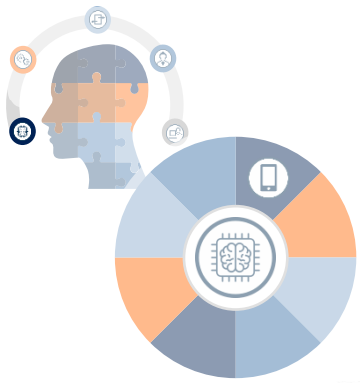


eCRFs can include data validation rules, functions, dynamic routing and controlled missings



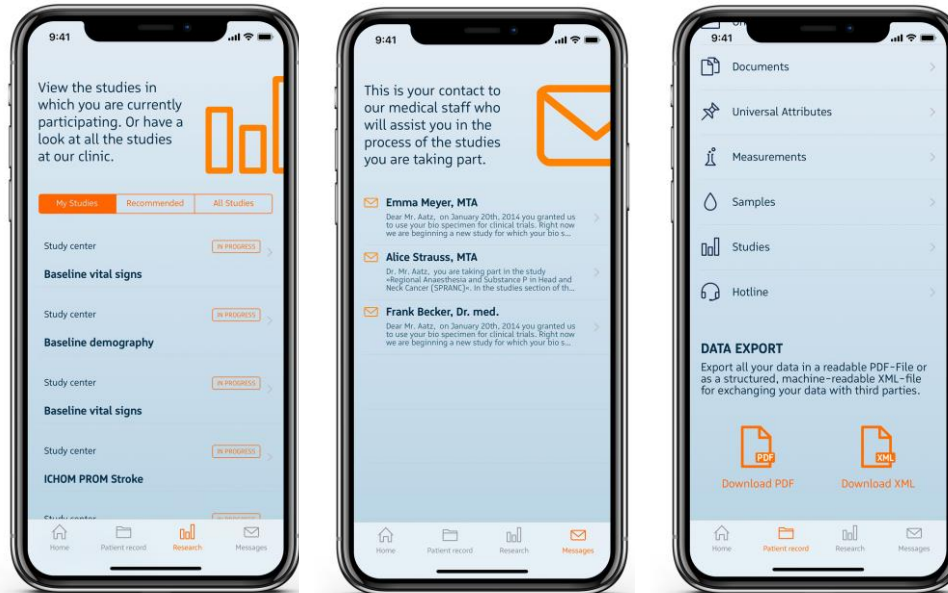
Centralized CRF library for cross-study consistency





CENTRAXX PATIENT APP

PATIENT EMPOWERMENT & DATA ENRICHMENT



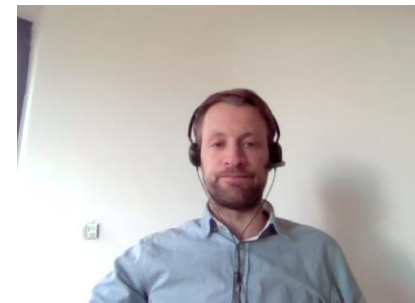
Recruitment for clinical studies

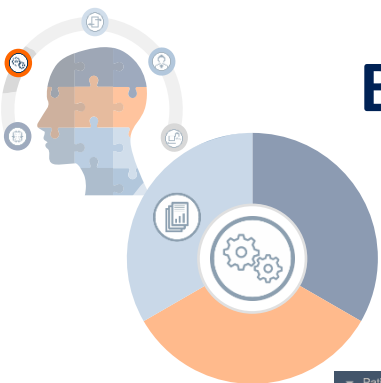


Secure messaging and scheduling



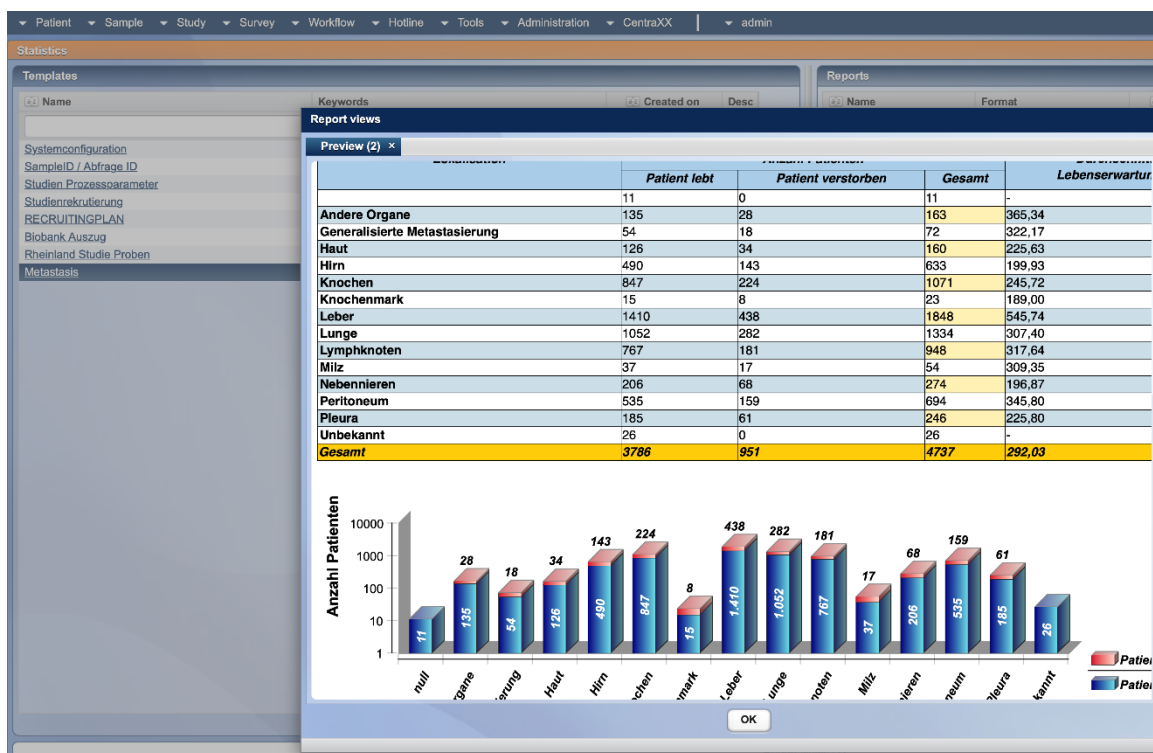
**Data transparency for patients:
complete access to research and
treatment record**





BUSINESS INTELLIGENT AND REPORTING TOOL (BIRT)

REPORTING AND DATA EXPORT



Create report template with or without parameters, run on demand



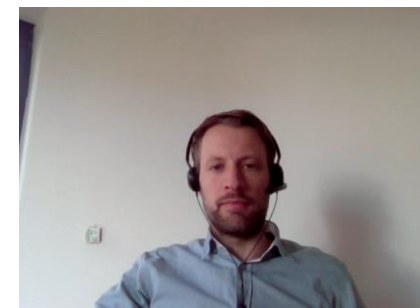
Build report template library



Run reports on demand or schedule for (repeated) execution

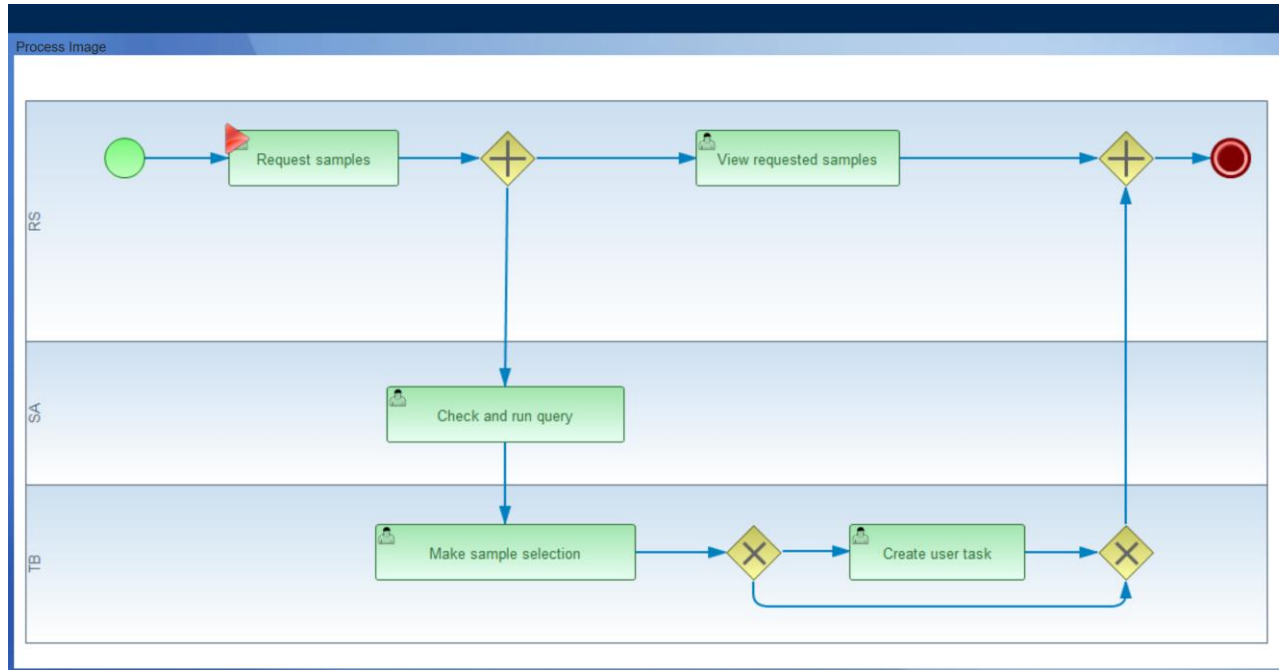


Use reports for data exports



WORKFLOW ENGINE JBPM

QUALITY BASED SOP-DRIVEN PROCESSES



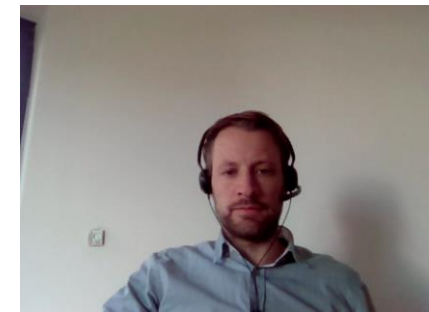
jbPM API for custom workflow development



Enforce role-based activities or custom logic



Build in-house or partner with KAIROS' workflow developers



ELASTICSEARCH

SEARCH CAPABILITIES BEYOND DATABASE QUERIES

Extended Search

☐ Search criteria

ICD Coding with ICD 10 Code: **C20** AND Patient with Age: > **60** AND ((Patient with Sex: **male** AND (Measurement finding with Measurement profile: **Small Blood Count** AND Measurement value (finding) with Erythrocytes: > **4**)) OR (Patient with Sex: **female** AND (Measurement finding with Measurement profile: **Small Blood Count** AND Measurement value (finding) with Erythrocytes: > **6**)))

AND

ICD Coding equal

Patient >

OR

Patient equal

AND

Measurement finding equal

Measurement value (finding) >

AND

Patient equal

AND

Measurement finding equal

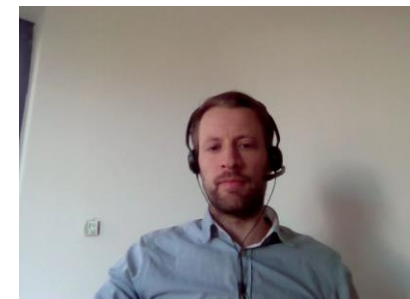
Measurement value (finding) >



Search for any data item within CentraXX leveraging the full data domain graph



Search quickly in 100s of millions of records and build high performance search cluster



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