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Generalitat de Catalunya

OCEAN health systems

The Potency of Collaborative Clinical Knowledge Governance

The mission of CatSalut, a healthcare facilities and medical research group, is **to guarantee comprehensive, quality health care** to Catalonians. They aim to provide health care services to the entire population of Catalonia, Spain; efficiently and effectively.

Catalonia is moving towards a future in which concepts such as **patient-centric, data-centric,** **longitudinal electronic health record, integrated care, open platform, and clinical knowledge management become routine practice.** A future in which the current barriers of interoperability are overcome to **move towards common semantics for the clinical knowledge domain.** All in all, with the idea to systematically harness the power of data and deliver patient-centric care.

The CatSalut Knowledge Modelling team faced significant challenges before implementing CKM:

Before integrating Clinical Knowledge Manager (CKM), the **team did not have any platform for the collaborative development and version tracking of clinical models**, relying on network storage, online openEHR editors, and email for communication.

This resulted in **a lack of verification of clinical models**, missing visualisation of large and complex templates and the tedious task of version tracking when working with a group of internal and external developers.

When the team saw the international potential of CKM to **reduce errors and enhance the traceability** in the development of clinical models, adoption was a no-brainer.

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25 YEARS

CKM CLINICAL KNOWLEDGE MANAGER

Let's unpack the key benefits that implementing CKM brought to the CatSalut team:

- Introduction of a specialised repository of clinical models **solving development and publication needs in a single platform**.

- The possibility of **sharing development** and engaging in an open discussion about the models.

- Rolling out **peer review of templates and archetypes**, executed by professionals from different fields, results in better models for a better working health care system.

- CKM is a **solid model repository and version control tool**.

- CKM REST API **enables the CatSalut team to develop in their own software tools and access the repository content directly** further optimised their workflow.

- **Being a part of the openEHR community** and publishing clinical knowledge models, collaborating to **achieve a clinical data standard at a global scale.**

- They enjoyed **efficient customer support** at their fingertips

> " CKM's already helped us address some of the challenges we faced by serving as a solid model repository and version control tool. This has simplified our work and created a cleaner and leaner workflow. "
>
> - Martin A. Koch
>   Healthcare Data Modeler, CatSalut

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More about CKM

This sophisticated tool allows domain experts to:

· share data models,
· contribute to modelling discussions, and
· provide reviews anytime, anywhere.

CKM International is used by more than 2500 people in over 100 countries.

CKM **implements advanced governance workflows** allowing high-quality data models and associated documentation for clinical system implementation to be published. CKM manages data models developed using openEHR's two-tier modelling where archetypes based on the openEHR reference model are combined into templates that represent the data requirements for specific use cases. Based on a standard architecture for future-proof health information, openEHR offers a path from silos of data to longitudinal, patient-centred care, for life.

The purpose of the service is to provide a Clinical Knowledge Manager solution for the deployment, management, and publication of clinical knowledge artefacts, based on the openEHR standard.

> Having our own instance of CKM will allow us to socialise our clinical knowledge artifacts with the Catalan ecosystem and the wider openEHR community which will help us to achieve adoption and advance in the implementation of our digital health strategy.
>
> - Jordi Piera Jiménez
>   Director of the Digital Health Strategy Office at Catalan Health Service

More about openEHR

openEHR is a non-profit organisation that publishes technical standards for an Electronic Health Record (EHR) platform along with domain-developed clinical models to define content.

The principal architectural concepts include the lifelong, patient-centric shared health record, future-proof data and clinical process support.

Clinical Knowledge Manager (CKM), is a comprehensive repository and collaboration environment for managing openEHR archetypes, templates, terminology subsets and related artefacts.

OCEAN HEALTH SYSTEMS: A Case Study for CKM and CatSalut

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- Share data models,
- Contribute to modelling discussions, and
- Provide reviews anytime, anywhere.

The main aim is to integrate all clinical data related to the Catalonian citizens with a longitudinal lifetime view and make them available to all the health ecosystem through the use of semantic standards.

It's easy to get started with CKM!

Getting started with CKM's clinical data modelling tools was **a straightforward process.** The user-friendly interface has eased the CatSalut team's adaptation and **helped in the creation of comprehensive data models**, with the help of Ocean Health Systems and a bit of training. CatSalut looks forward to sharing their CKM journey and one-stop solution with other departments.

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