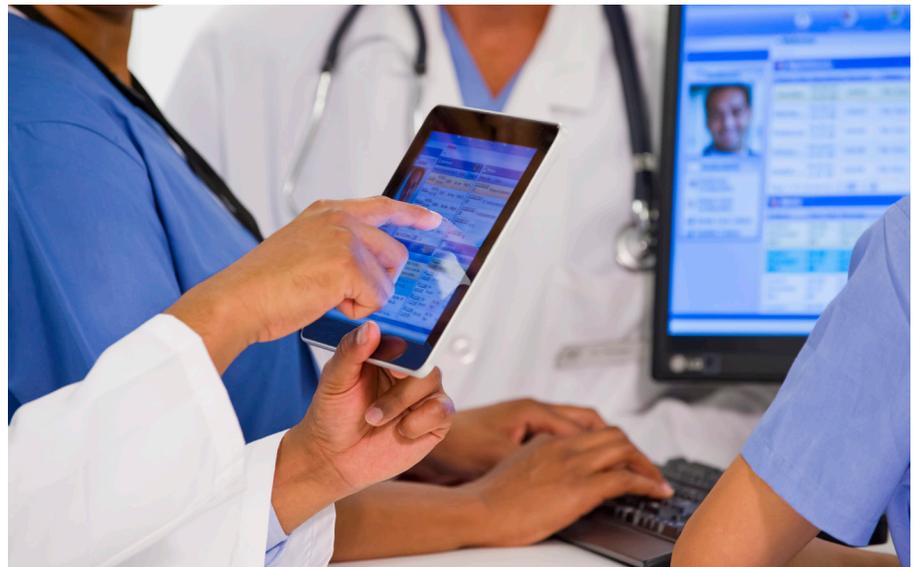


Powering the digital transformation in the healthcare sector

Connected, interoperable, private, flexible: **the innovative health technology solutions are offered by Atos in a unique framework**

Isn't it about time to start a new paradigm in the health sector? Imagine a framework integrating the latest technologies at the service of any user involved in the clinical care processes, patients checking their clinical records easily in their phones, doctors and health professionals improving the accuracy of diagnoses and reducing administrative tasks supported by a modern HDD and a standardized Health Digital Terminology, policy makers empowered by precise AI-based information during the decision making process and developers storing health records in an interoperable, knowledge enriched and secure way.

Health Suite enhances the efficiency, efficacy and effectivity of healthcare services in a complete secure environment, allowing the healthcare stakeholders to focus more on patient treatment and health.



Business challenge

Although the digital transformation reached other sectors years ago, the healthcare sector, due to the complexity and sensitivity of health-related data, has had certain obstacles to integrate technological developments into the health systems, medical professionals, insurers, policy makers and patients.

The current market situation is as follows:

- Multiplication of health applications today, 325,000 health applications in 2017¹, and

the offer continues growing. However, the growth in demand has stagnated and currently, by contrast, there are thousands of private and specific applications that do not allow data transfer between them or between different health centres.

- 50% of mHealth app publishers are using API aggregation services (Research2Guidance, 2017-2018)².
- One of the main obstacles that publishers face are regulatory barriers, different for each country/region.

- Broad penetration of the Smartphone in the market and in the world population: 9,322 million of mobile connections, according to GSM data³.

In this new context, the Health Suite framework allows us to go one step further to a patient-centric model of care in the health sector, providing them with the tools to access their information in a learning process and guaranteeing the data privacy and protection.

¹ (Research2Guidance, mHealth App Economics - Current Status and Future Trends in Mobile Health -2017/2018).

² (Research2Guidance, mHealth Economics - Connectivity in Digital Health - 2017/2018).

³ (Groupe Speciale Mobile, Mobile Connections data - October 2019).

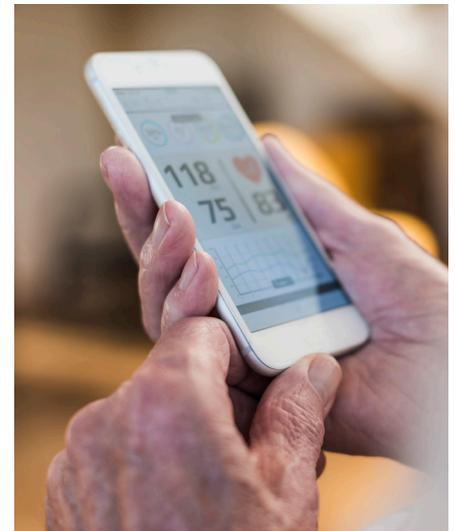
What Health Suite offers you

Health Suite aims to empower patients and involve them in their own health management process. Thus, Health Suite develops a new way of how healthcare stakeholders interact, where the patients have the whole information in their smartphones (Pocket mHealth app) synchronized with healthcare organization systems, the policy makers have real data and practical reports about the community health (AI-based data analysis) and the doctors and health professionals have the full clinical history of the patient (an interoperable Health Data Hub (HDD)), acquiring all of them the power in decision making (supported by semantic knowledge of the standardized Health Digital Terminology).

Who else can benefit from Health Suite? Any stakeholder (app developers, integrators, consultants or researchers) who needs to store health records in an interoperable, knowledge enriched and secure compliant way. By using the Health

Suite services, organizations can enable seamless integration of their health systems and applications using a standard-based product that complies with the latest medical technologies standards. The Health Suite ecosystem offered by Atos includes:

- Standardized API that ensures:
 - Interoperability with standards that serves personalized solutions for medical or insurers.
 - Openness and availability of information to the appropriate participants.
 - Integration with other compliant health solutions and applications.
- Health model based on quality receive by user that puts him in the centre.
- Improvement in diagnosis and efficiency through the integration of Big Data and Artificial Intelligence, in the future the qualitative analysis of the data will be achieved to develop the AI.



Description of the solution

Built under SMART principles, the Health Suite framework improves your healthcare infrastructure by combining multiple integrated solutions and added value services:

- Develop smart-on-FHIR solutions, mobile health applications or healthcare digital services on any platform by using our **Health Data Hub (HDH)**. Core of the Health Suite ecosystem, our FHIR-based HDD aims to store and serve information from any clinical source in a standardized, safe and scalable way. The easy availability of clinical data (Big Data and quality model) allows the retrieval of information in a personalized and simple way. Additionally, our HDD incorporates BigEHR, which allow a flexible bulk data extraction ready for analytics or machine learning training, research or any data intelligence purpose.
- Use our **Health Digital Terminology** to have a set of semantic operations over medical terminologies, breaking the local terms and linguistic barriers, universalizing medical language.

- Keep your clinical records always with you with the **Pocket mHealth app**. This app brings and manages the Electronic Health Record (EHR) in your smartphone, always under the validation of medical professionals and designed on the patient-centered perspective.

Moreover, Atos guarantees a strong security model acting as data processor or as a technology facilitator of data process and complying with GDPR through authentication, authorization, confidentiality, integrity, availability and resilience mechanisms.



Why Atos

Health Suite gives Big Data capacity and clinic integration to health stakeholders and users, based on a quality and pedagogy model and allows an apps ecosystem to developers in order to standardise and create their own solutions. The integration of latest technologies to provide and guarantee business intelligence, efficient management and AI learning is positioning Atos as a good IT provider for health solutions.

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