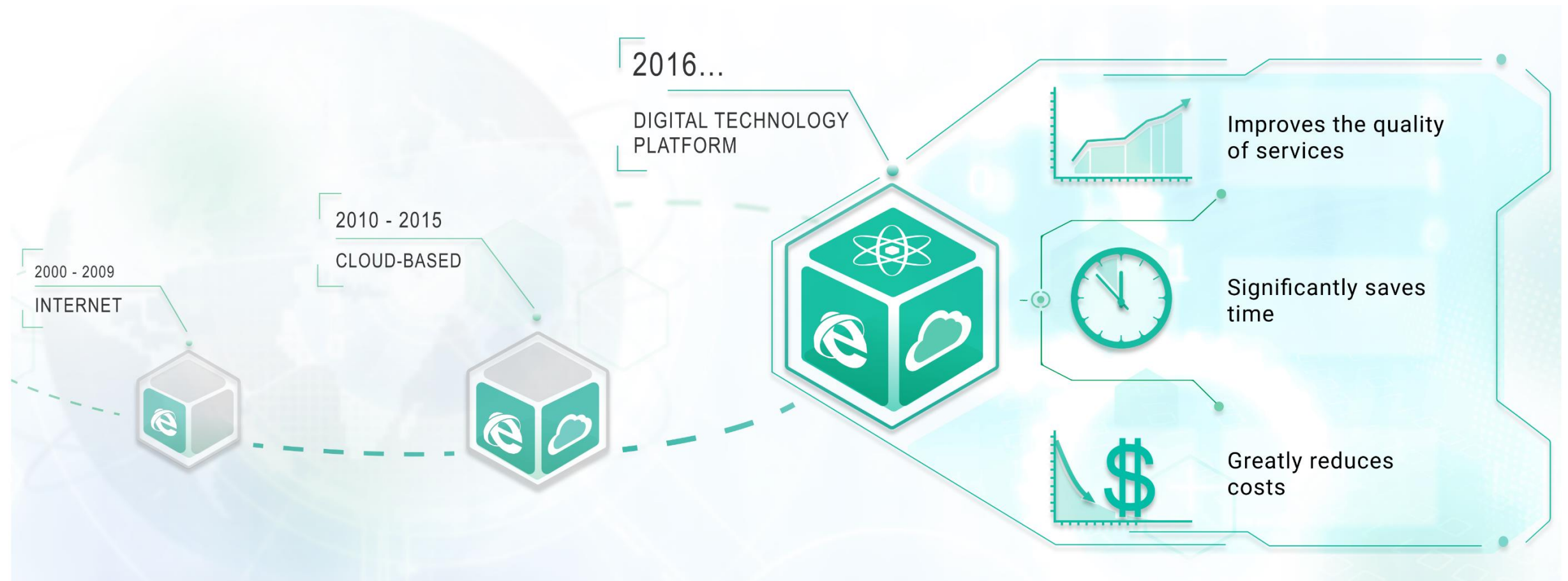# NUMEDY
DIGITAL MEDICAL PLATFORM

The Scientific and Technological Progress has resulted in new economic systems based on digital technology platforms. Entire sectors of the economy have been transformed, modifying the way consumers and manufacturers interact, and leading to a significant economic growth. Digital technology platforms dramatically improve the quality of services (and goods), significantly save time for consumers (and manufacturers), and greatly reduce cost of services and goods.
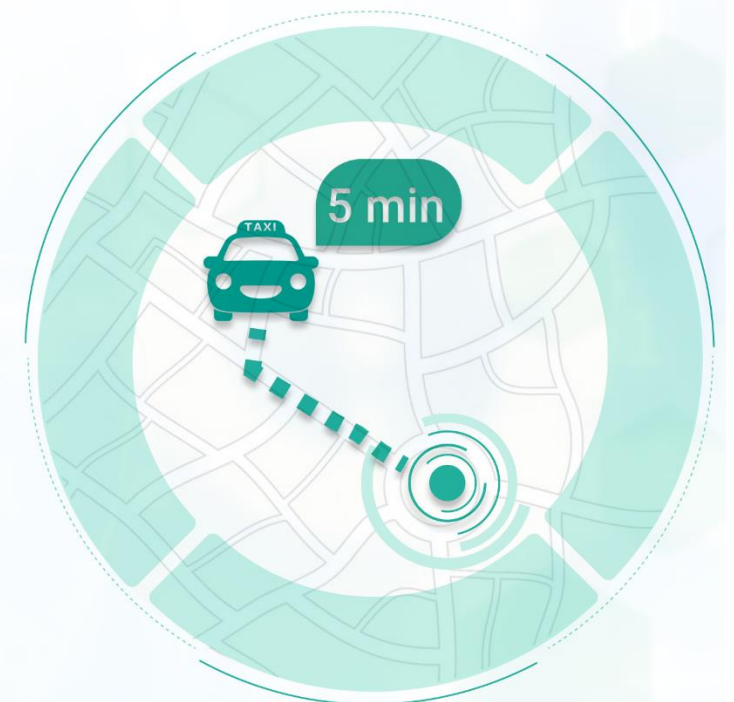
NUMEDY

CARS

DRIVERS

MASTER BASE

5 min

Multiple participants in a single unified consumer-oriented environment

Common information space

Real-time monitoring and feedback

If at least one of the principles is not followed, then the system cannot be considered to be a digital technology platform and therefore is not able to provide economic expediency.

The exceeding number of mobile devices and internet usage, as well as high demand in improving patient services, availability and sufficient cost of healthcare have determined the inevitable digital medical platforms progress.

In digital medical platforms, the main participants of the processes are patients, medical personnel, and means of production (equipment & tools, special materials, pharmaceuticals, and clinics). Business partners, state entities, insurance and pharmaceutical companies are all users or contractors, but not participants. The main focus here is on the patient.
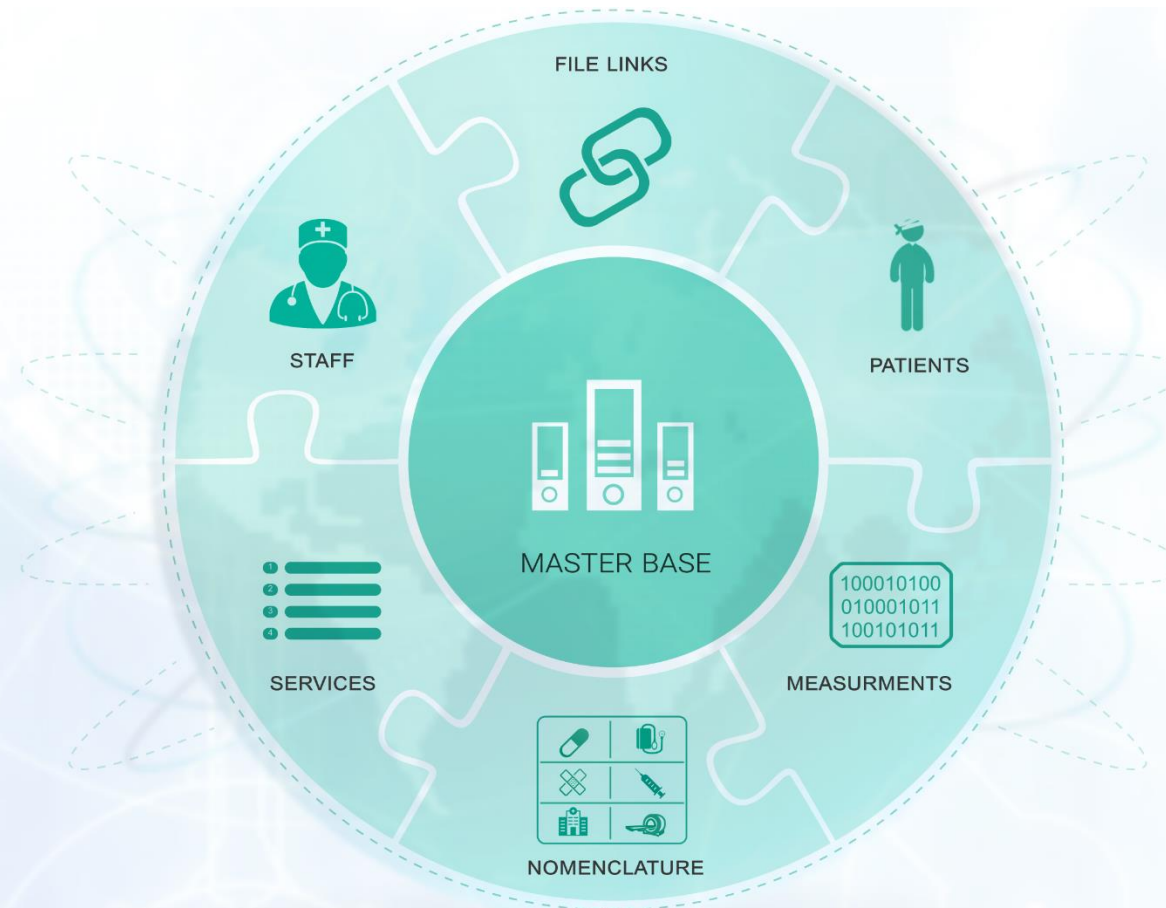
In digital medical platforms, directories (master base for patients, staff, services, medical measurements, nomenclature, and file links) and their complex relationships and interdependencies are the basis of the common information environment, where information gaps, duplication, or incorrect connections could not exist. Thus, digital twins of clinics and patients are created.
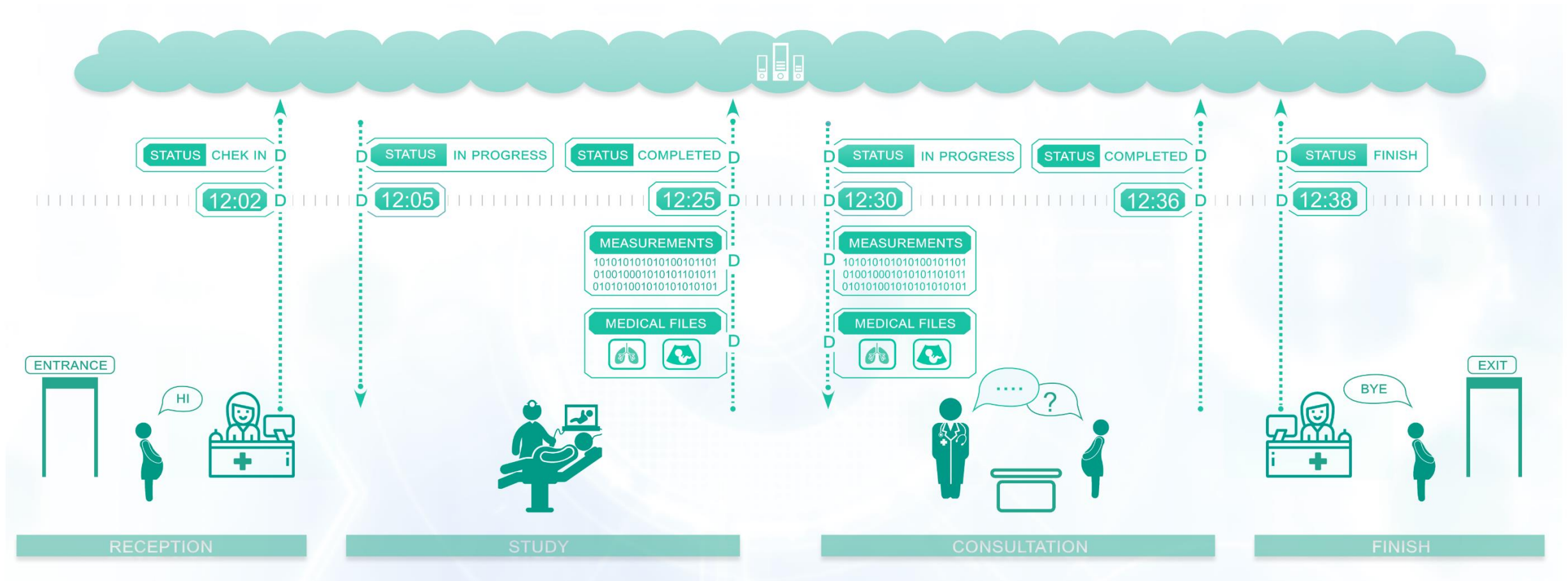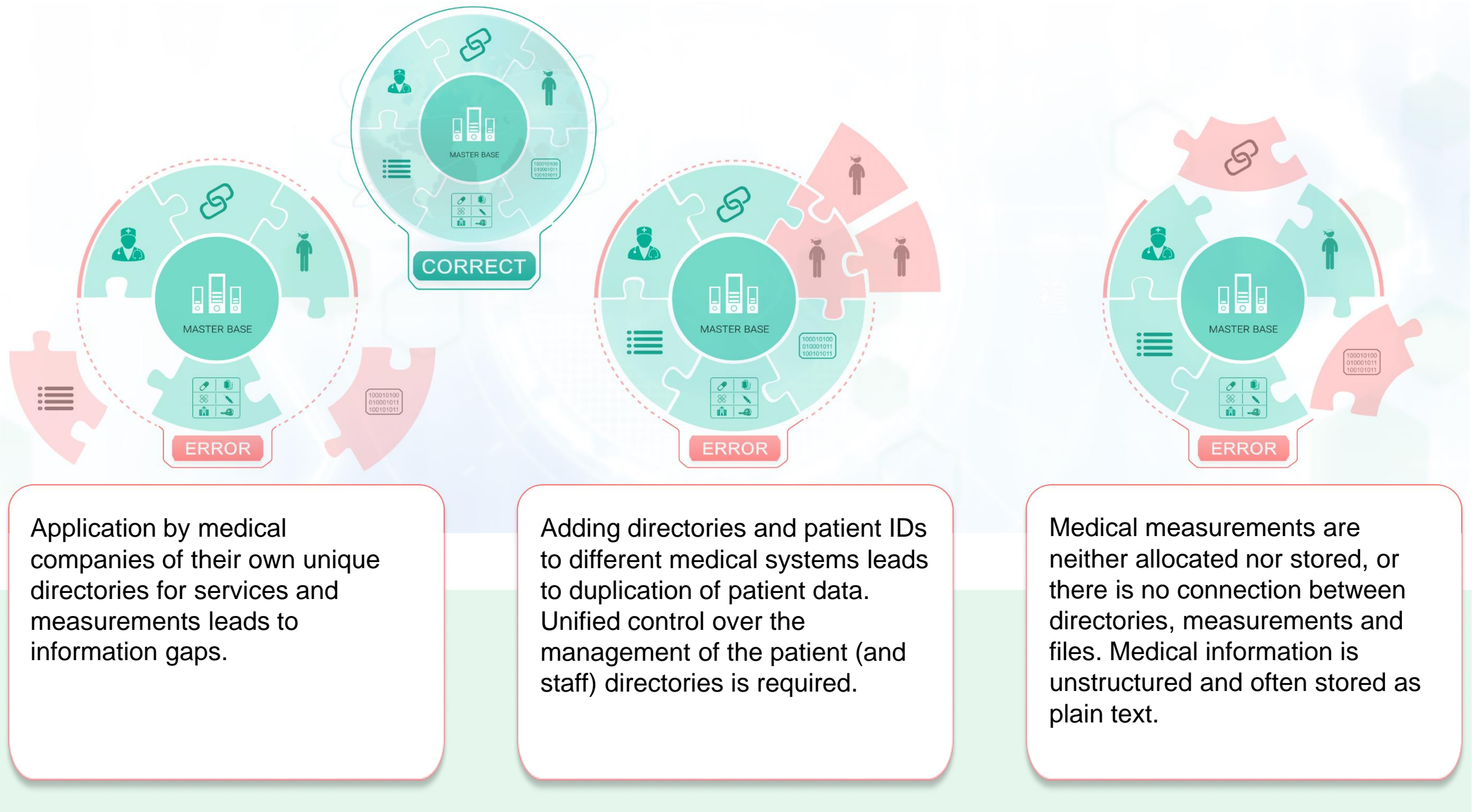
Healthcare is nearly the only industry where the patient is both a consumer and an object of a medical service. Therefore, in order to perform monitoring and receive feedback in real time, as in any workflow, it is important to fully digitize every step of the service delivery
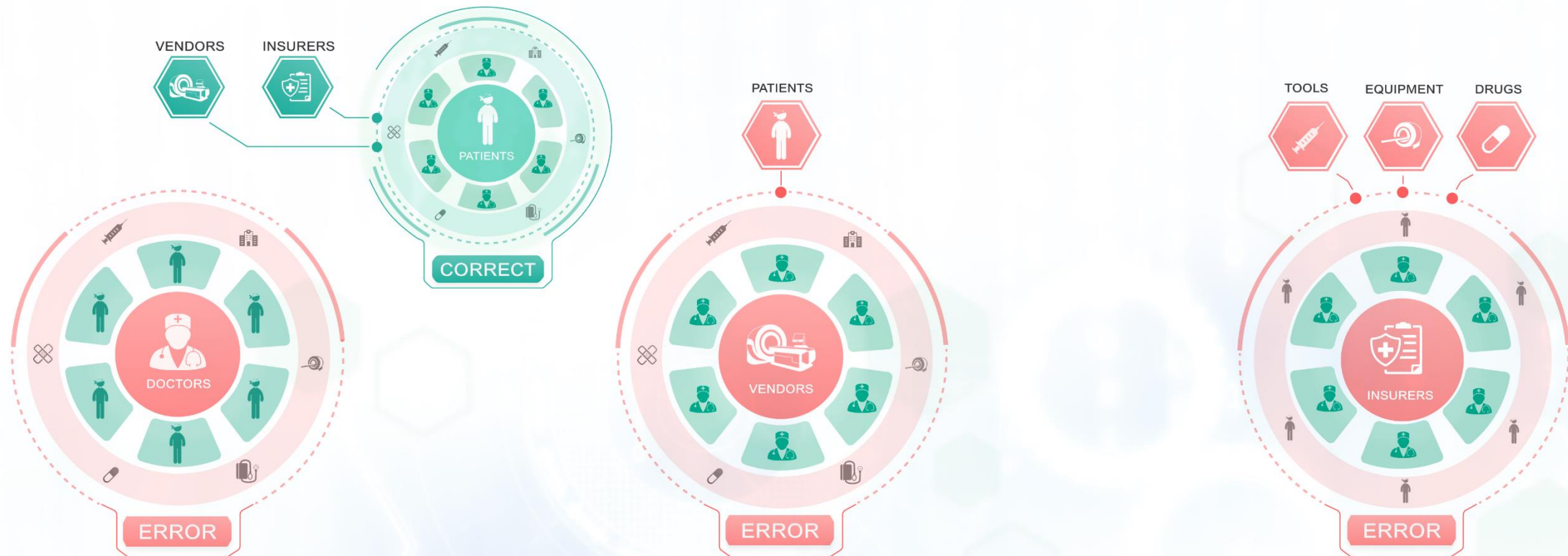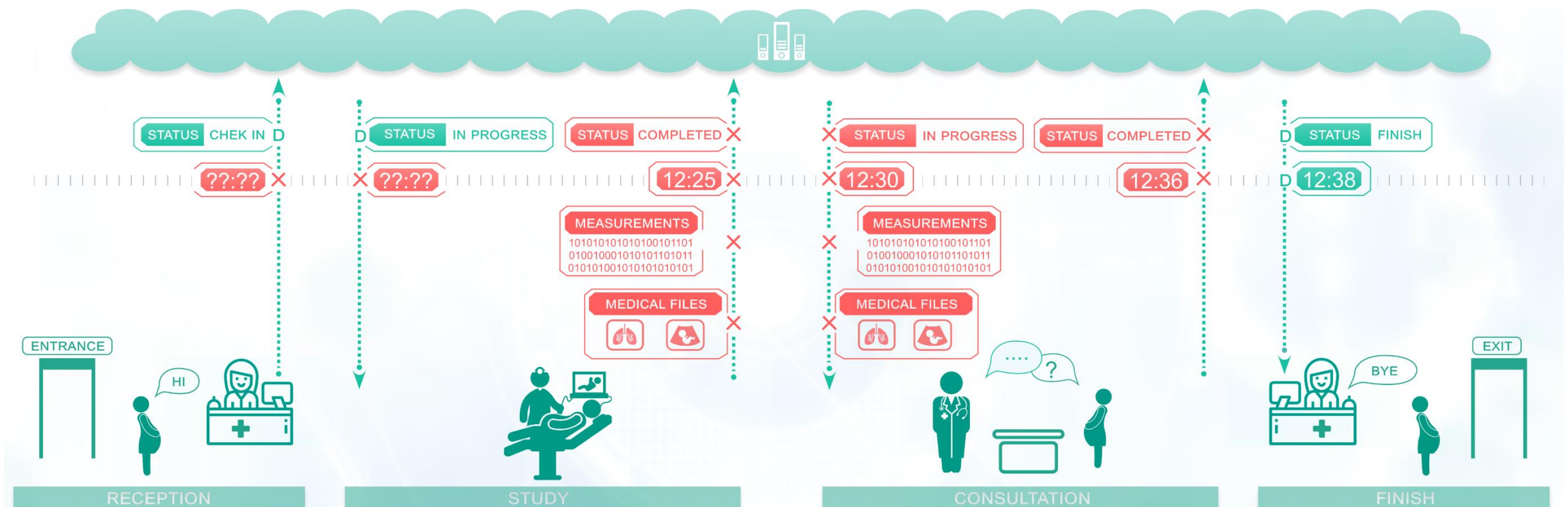
Medical information systems are localized, medical personnel-oriented solutions, with a purpose of replacing traditional, error-prone, approach to medical documentation management.

Equipment manufacturers shift the focus from the patient to themselves, and develop or apply highly specific information standards.

Insurance and pharmaceutical companies develop directories and tariffication systems that are focused on finances and do not correspond to the actual processes of medical services.

Application by medical companies of their own unique directories for services and measurements leads to information gaps.

Adding directories and patient IDs to different medical systems leads to duplication of patient data. Unified control over the management of the patient (and staff) directories is required.

Medical measurements are neither allocated nor stored, or there is no connection between directories, measurements and files. Medical information is unstructured and often stored as plain text.

It is necessary to consider real-time information about the stages of medical services, which is ignored by most other systems.

It is necessary to receive the information of the measurement procedures and its results. In many cases either the equipment does not convey measurement results (or files), or systems do not accept it.

It is important to collect information in real time, but a lot of systems receive information with a significant delay.
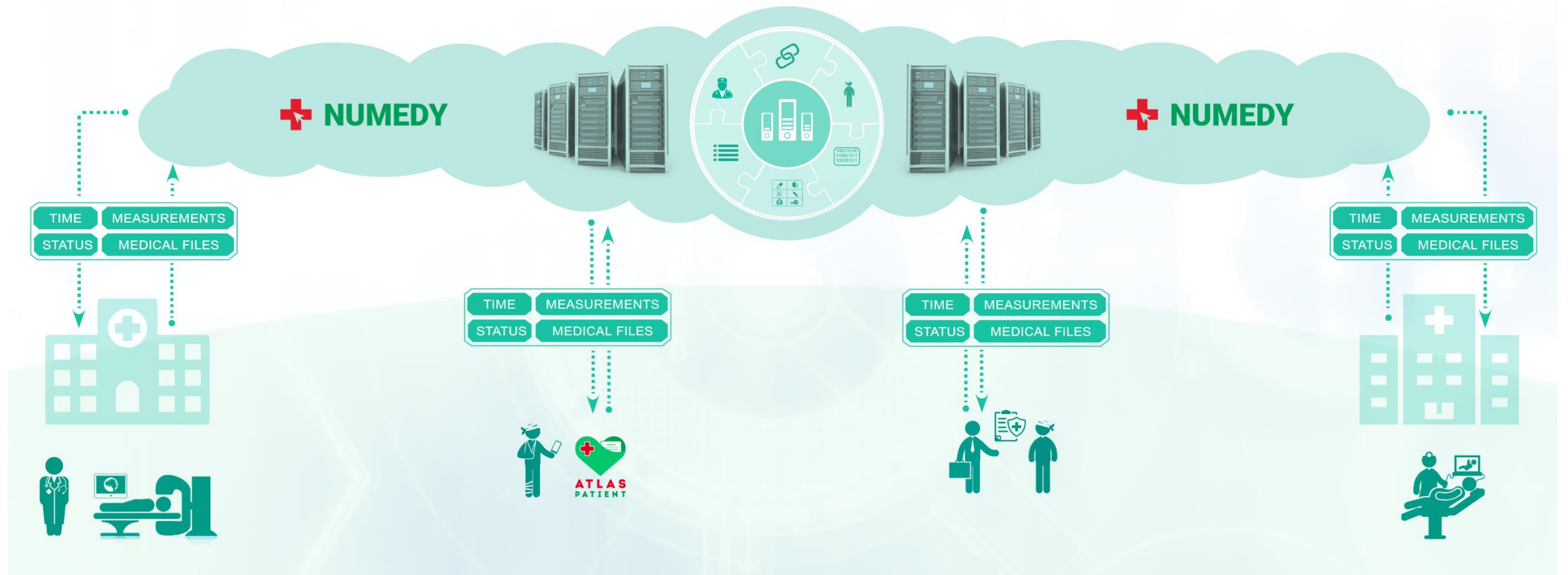
The term 'Digital Medical Platform' applies to Numedy because of the following three key principles that Numedy has implemented: Multiple participants in a single unified consumer-oriented environment, Common information space, Real-time monitoring and feedback.
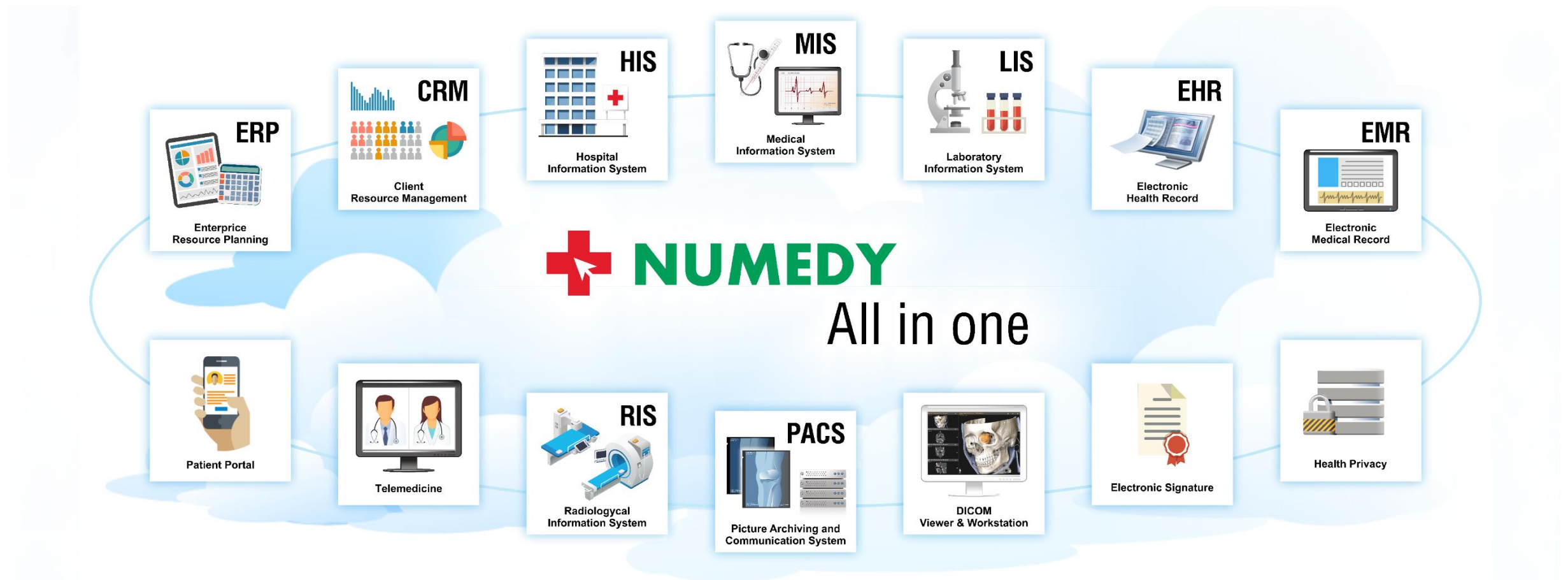
Numedy platform includes all possible software and services used in healthcare systems. Programs and services are installed at the data center and function as a part of the Cloud system, interacting with one another as a whole.
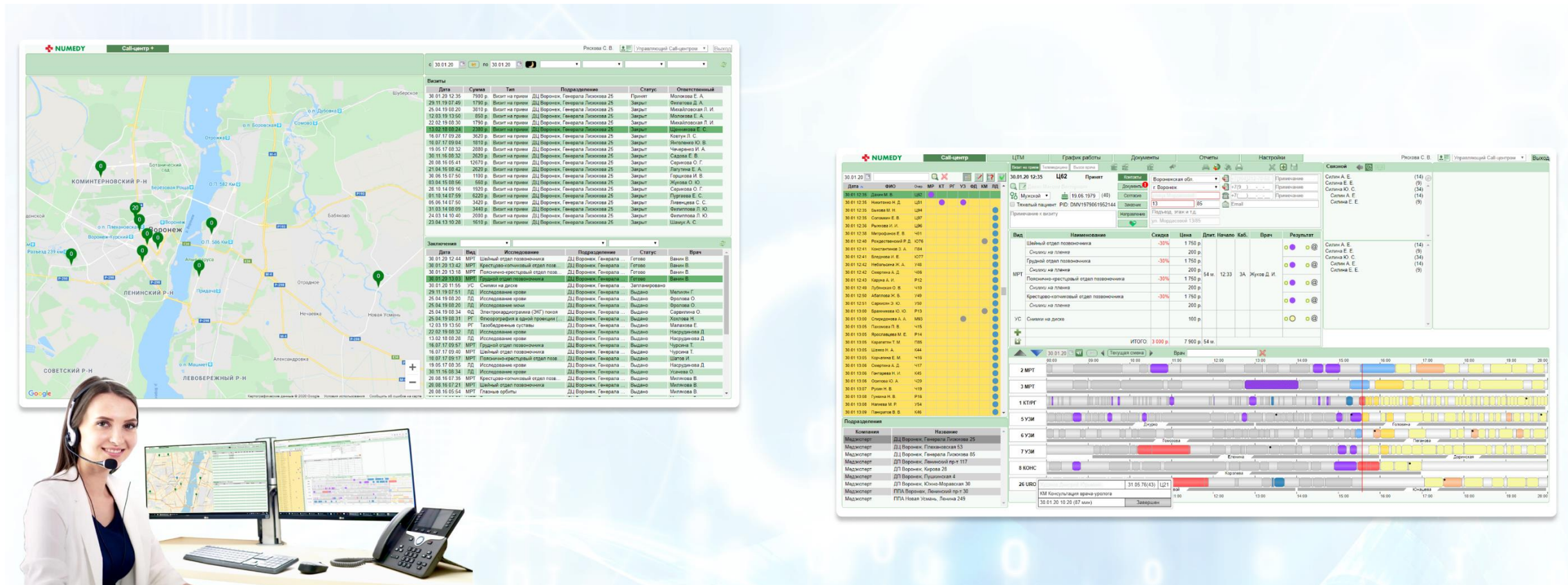
The Reception Desk is for managing the patient traffic system, check-ins, appointments, and schedules of medical services.

Viewer is a versatile tool for working with various file formats and data, adding comments, taking measurements, performing calculations and creating 3D models.

The virtual queuing system is a part of the patient flow management system. The flow management system uses algorithms for calculating optimal patient logistics in the clinic, for regulating the duration and order of the medical procedures, workload schedule of offices, and provides updates on the status of medical services. All the information on the number and status of each office, duration time of the medical service, patients' number and its' order in a queue system is shown on the virtual queue monitor.
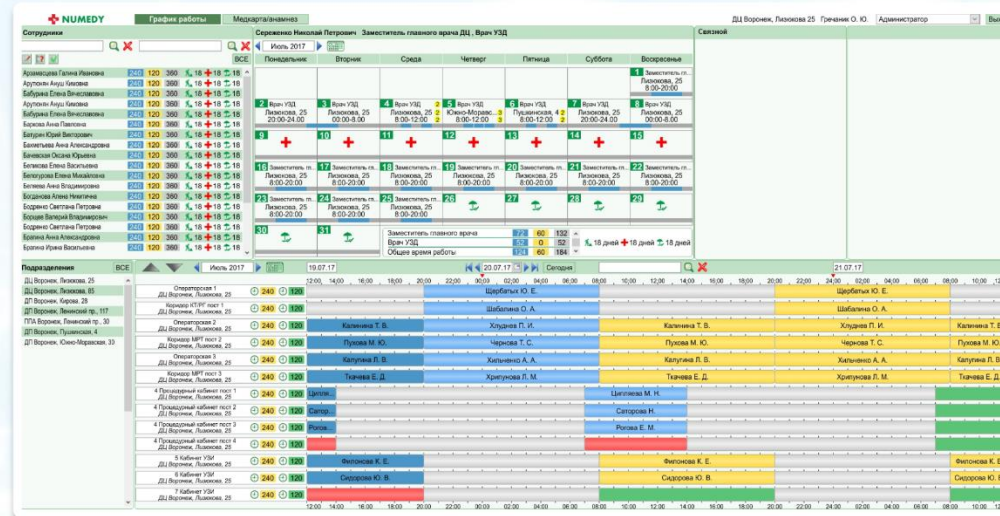
Workplace interface provides doctors with all necessary tools – creating and viewing medical protocols, office workload schedule, the Communicator module (managing phone calls, messages, video conferences).
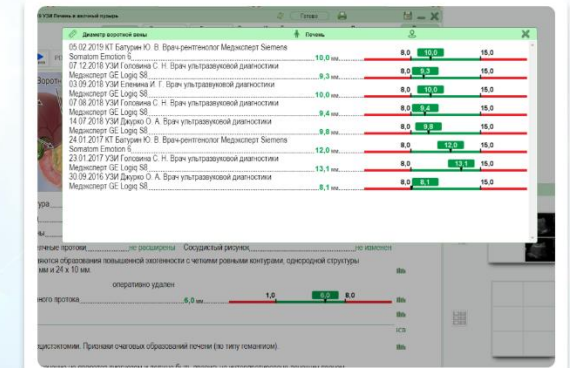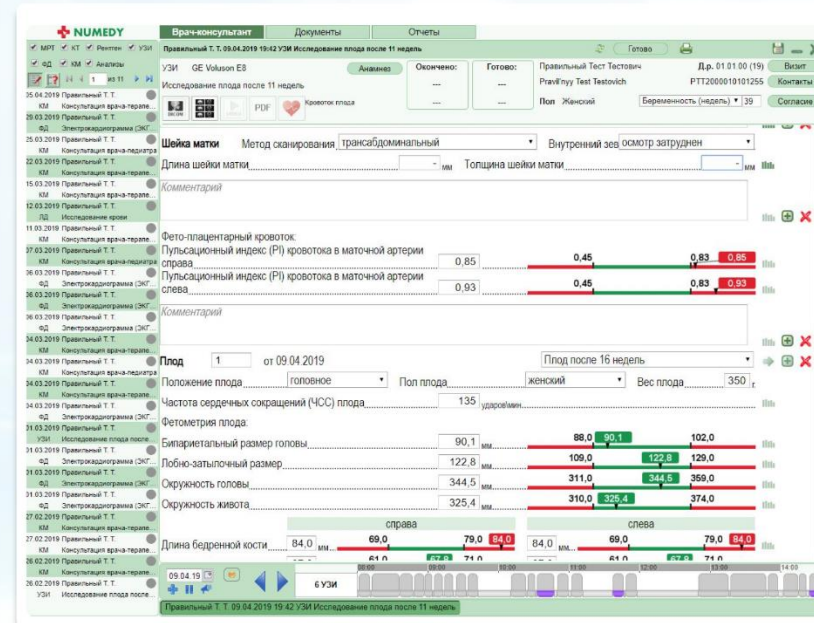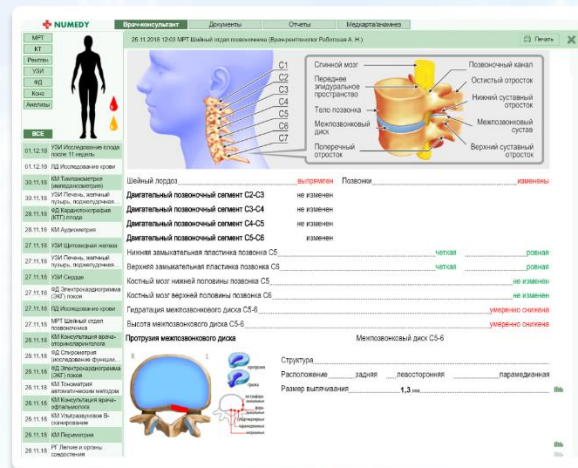
Medical protocols allow to work with patients' accurate medical data, study results and files. It also includes the dynamics of medical measurements results.

The Medical records feature allows to keep a record of the patient's health status and history, visualize dynamics in measurement results and comments, and manage data, including methods for calculating various health risks.

Video-conferencing allows medical staff and their patients to make and receive video-calls from each other, to record, view and save video-calls. A patient can book a video-conference with a doctor online using the Patient Atlas.

Medical stations are workplaces with specialized equipment (digitization station, functional diagnostics station, specimen reception station, etc.) designed for an accurate identification of patients, adding data, documents and files. Medical stations provide data transfer from the various medical equipment (audiometer, ECG, Holter, etc.).

The Digitalization station allows uploading files and digital copies of documents. At the digitalization station you can scan paper documents, transfer files from USBs and CDs, and make digital copies of an X-ray film.

Photo/video capture service allows to take pictures and record videos, as well as to broadcast video-calls to a monitor.
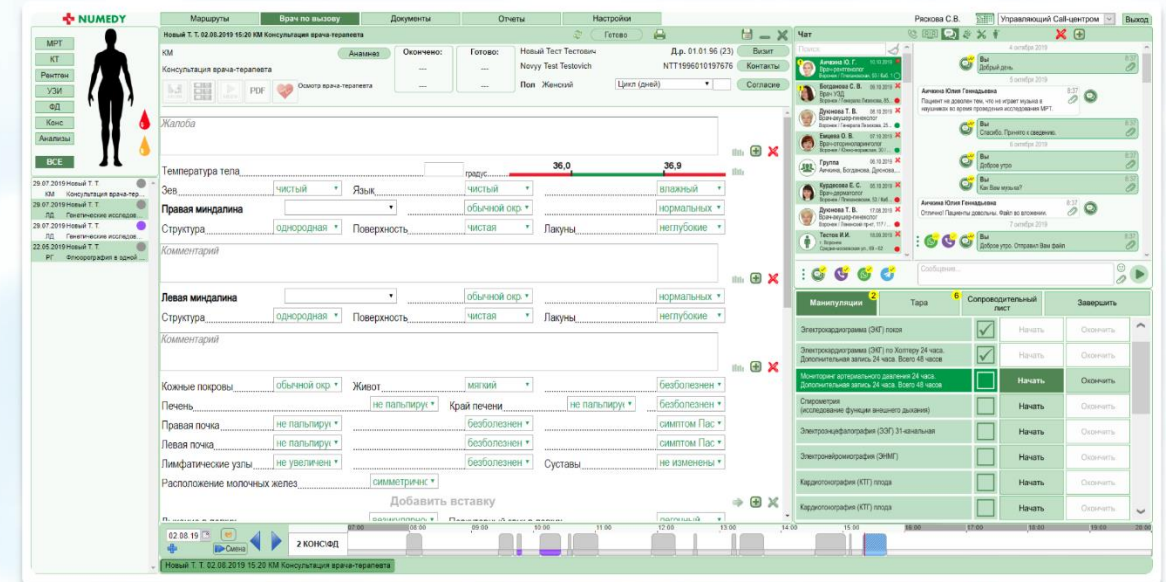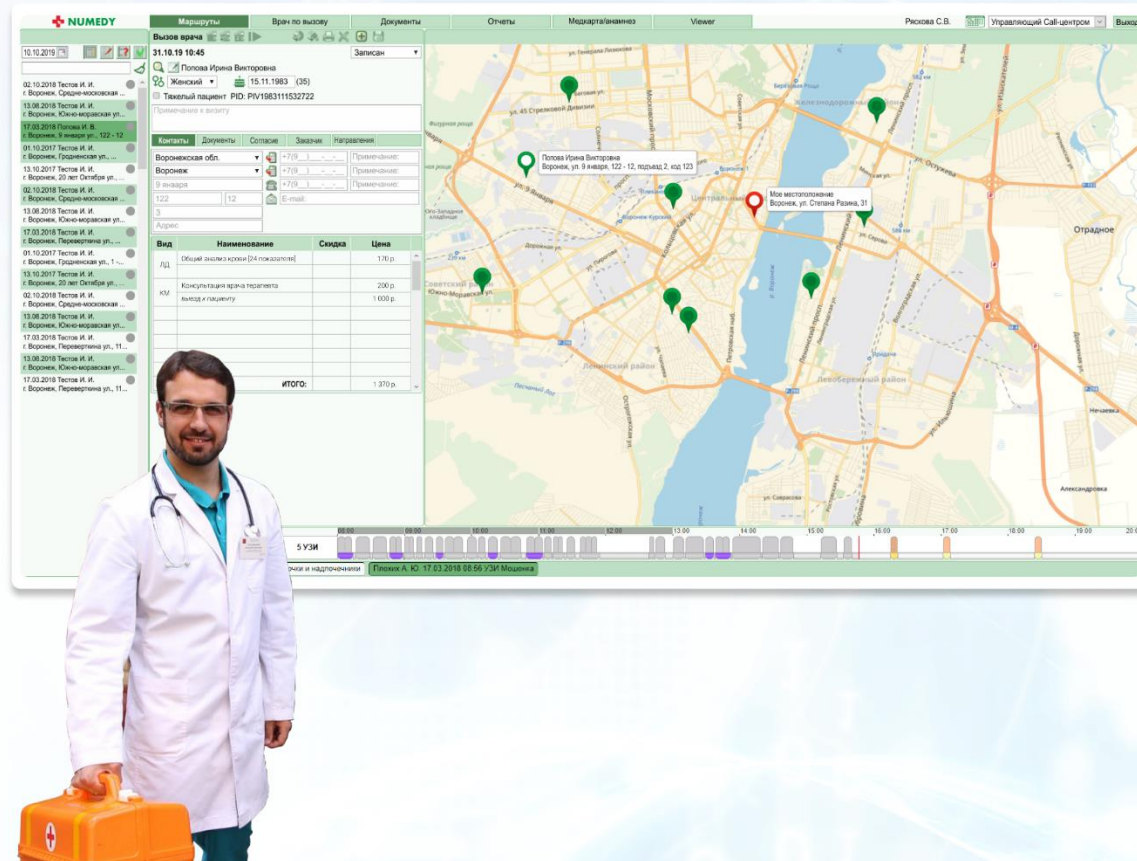
The Doctor on call workplace interface contains all the necessary functions for fast, high-quality examinations outside the clinic. The Doctor on call service provides optimal logistics for at-home medical care.
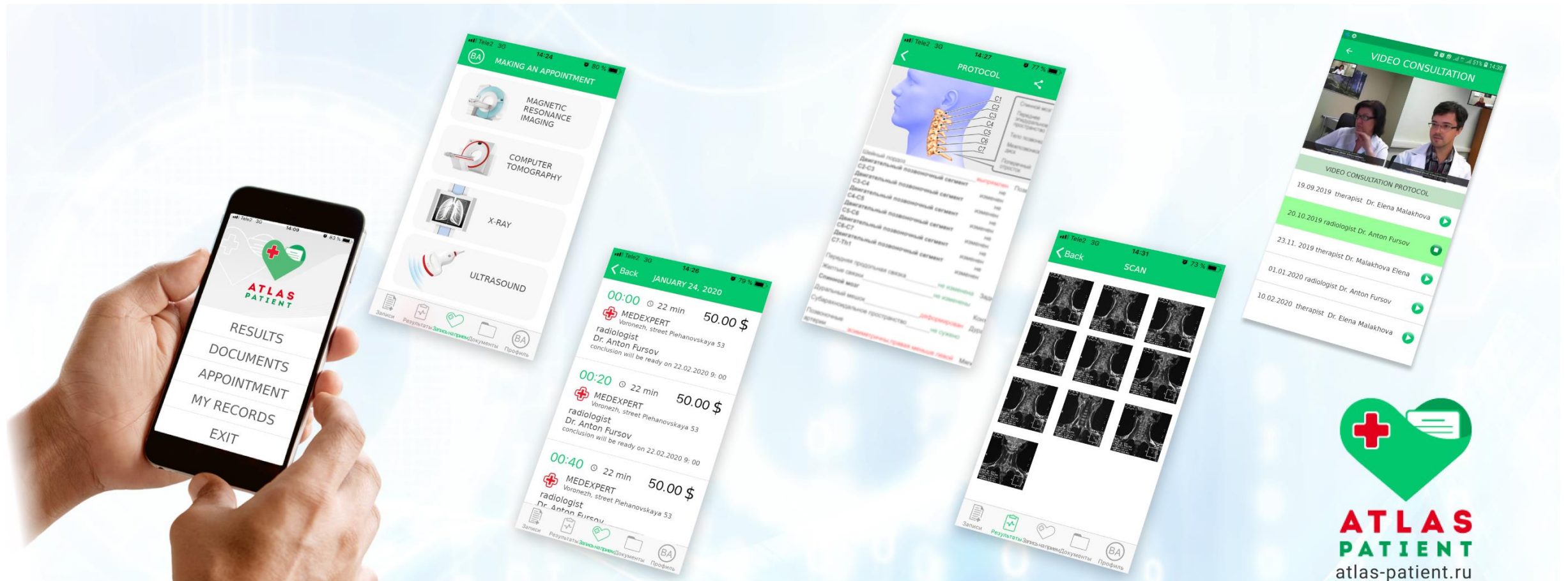
The Patient Atlas service gives patients access to their data, allowing to view medical protocols, the dynamics of medical measurements, images, videos, graphs, to upload files, to have video-consultations, to make online booking and to call a doctor.
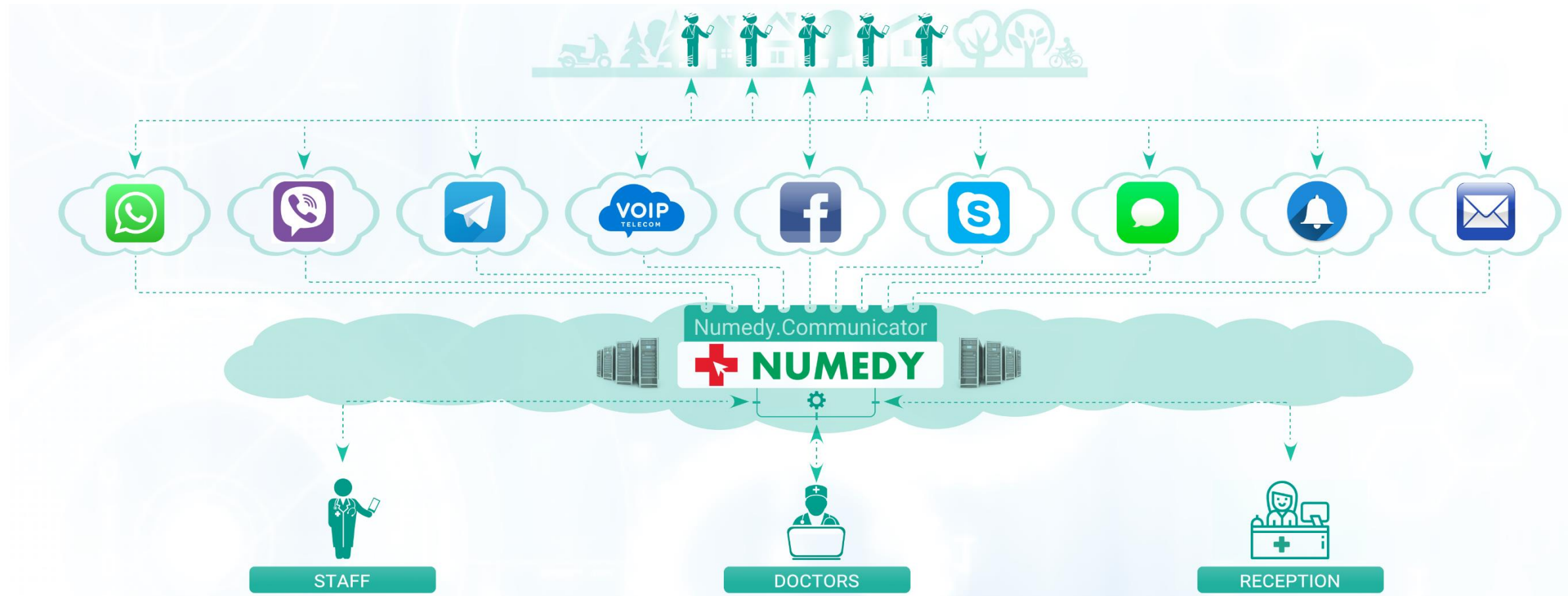
Numedy Communicator service is a link between the platform and various messengers or communication systems.
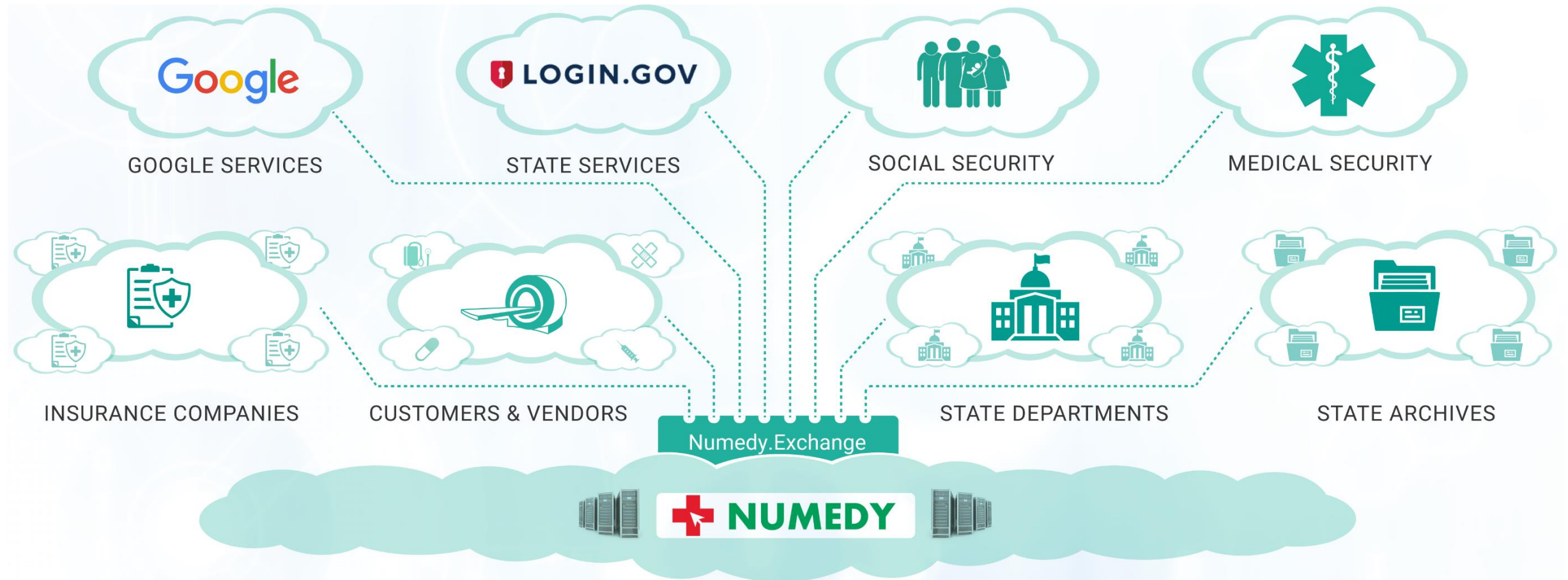
External resources (government systems, Google maps, authorization systems etc.) are linked via Numedy. Exchange service.
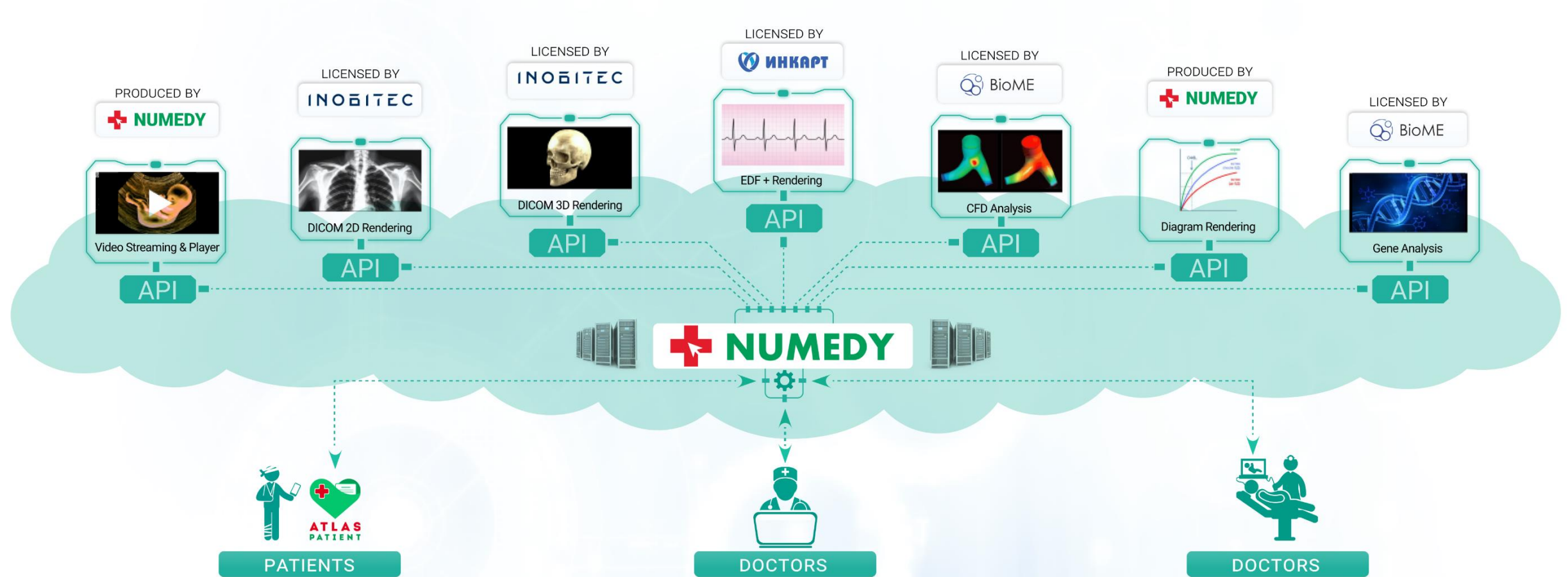
A variety of image rendering and data analysis software can be connected to enable quick and easy user access. This creates a separate market for developers of such software.
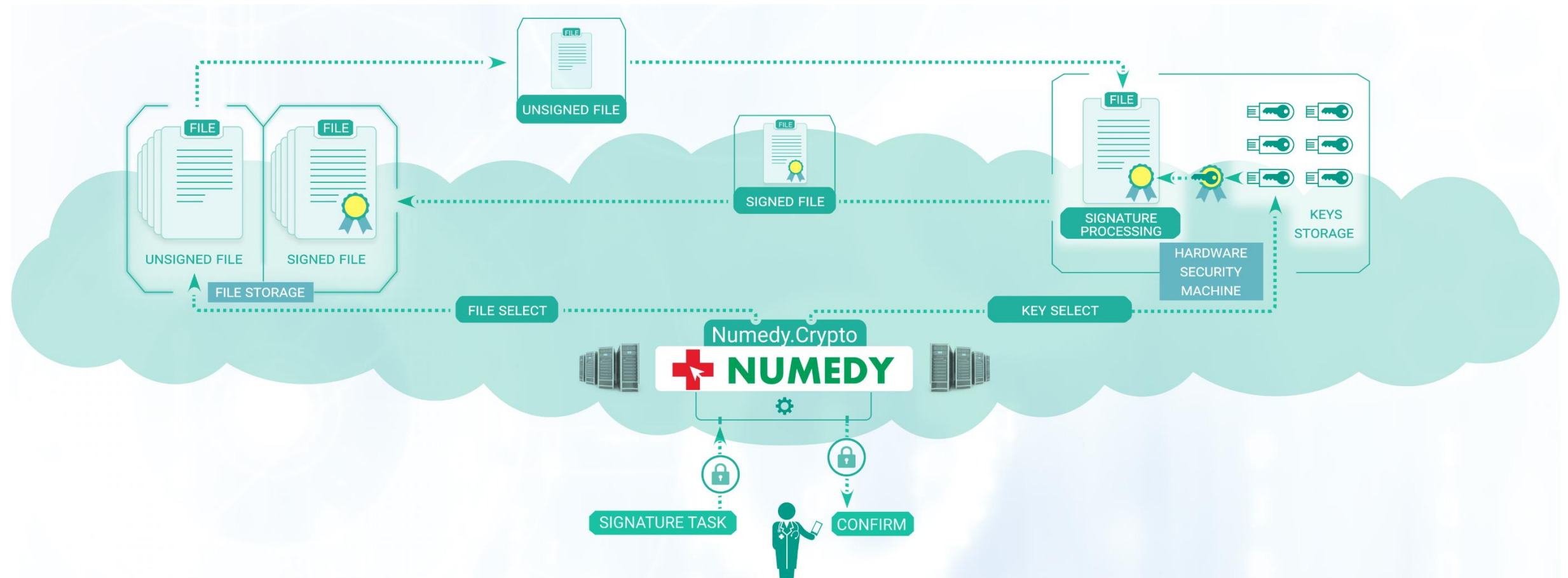
The Electronic signature is issued and utilized in a cloud environment, with private and public electronic signature keys and the information to be signed not being transferred to users' devices. Simultaneously, the necessary legal confirmation of medical documents is being done.
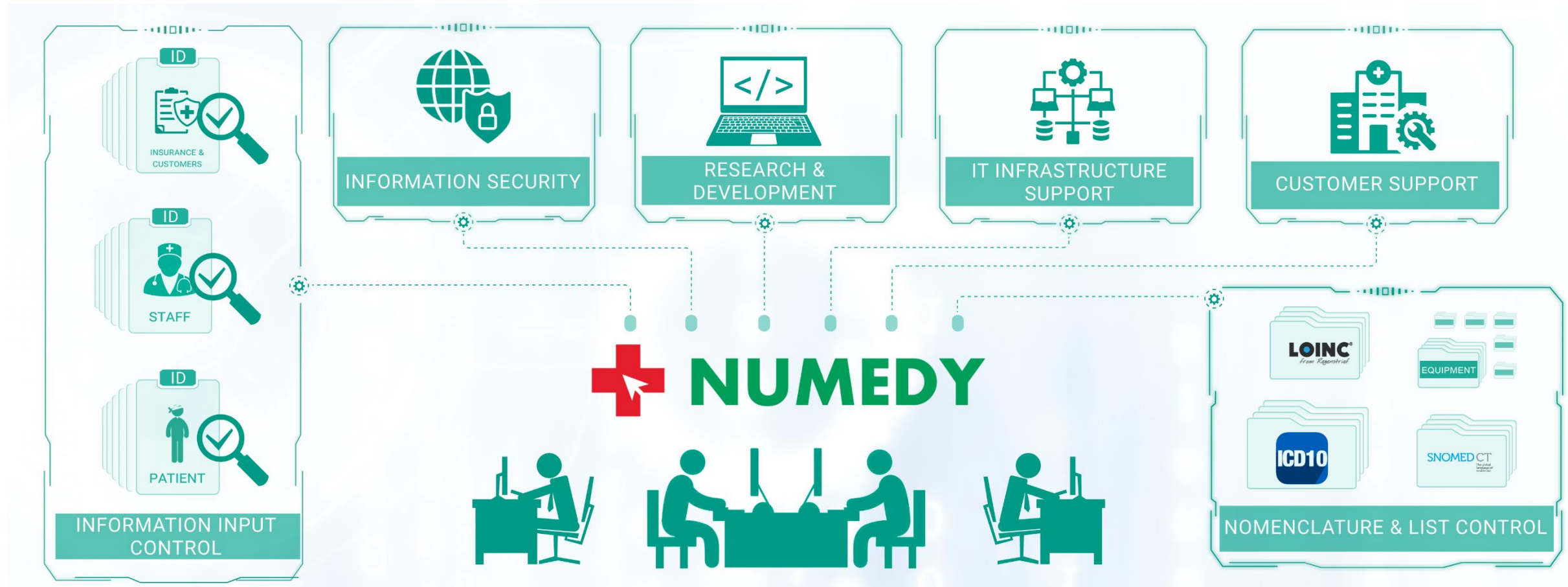
To support the functionality of the platform and the data being processed, the team of the medical data provider performs all the necessary functions, including monitoring the entry of patient and the staff directories and correcting medical information.

The number of served patients has almost doubled over a fixed period of time.

The flow of patients more than doubled with the same number of senior medical staff and medical offices, after installing Numedy.
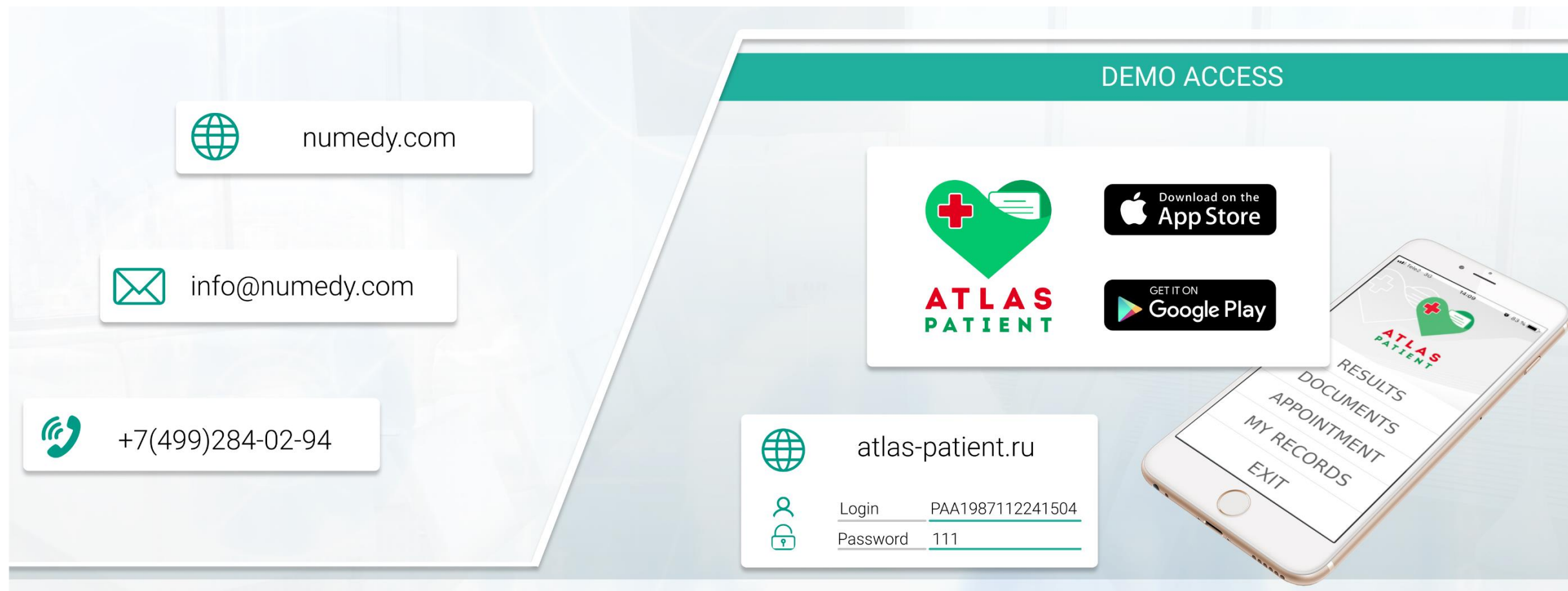
Reducing the probability of medical errors to zero.

Medical decision audit in clinics showed that the proportion of medical errors decreased from 4% to 0,01% after installing the Numedy platform.
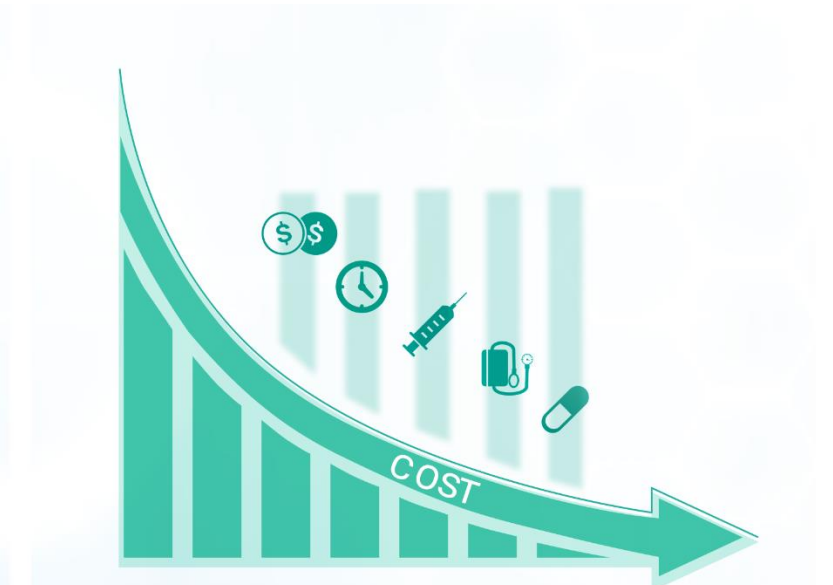
Significant reduction in costs and expenses.

Assisting and junior medical staff numbers reduced, and consumption of materials decreased approximately by 50% after installing the Numedy platform in clinics.

NUMEDY

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RESULTS
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APPOINTMENT
MY RECORDS
EXIT