



The laboratory information exchange service based on HL7 FHIR

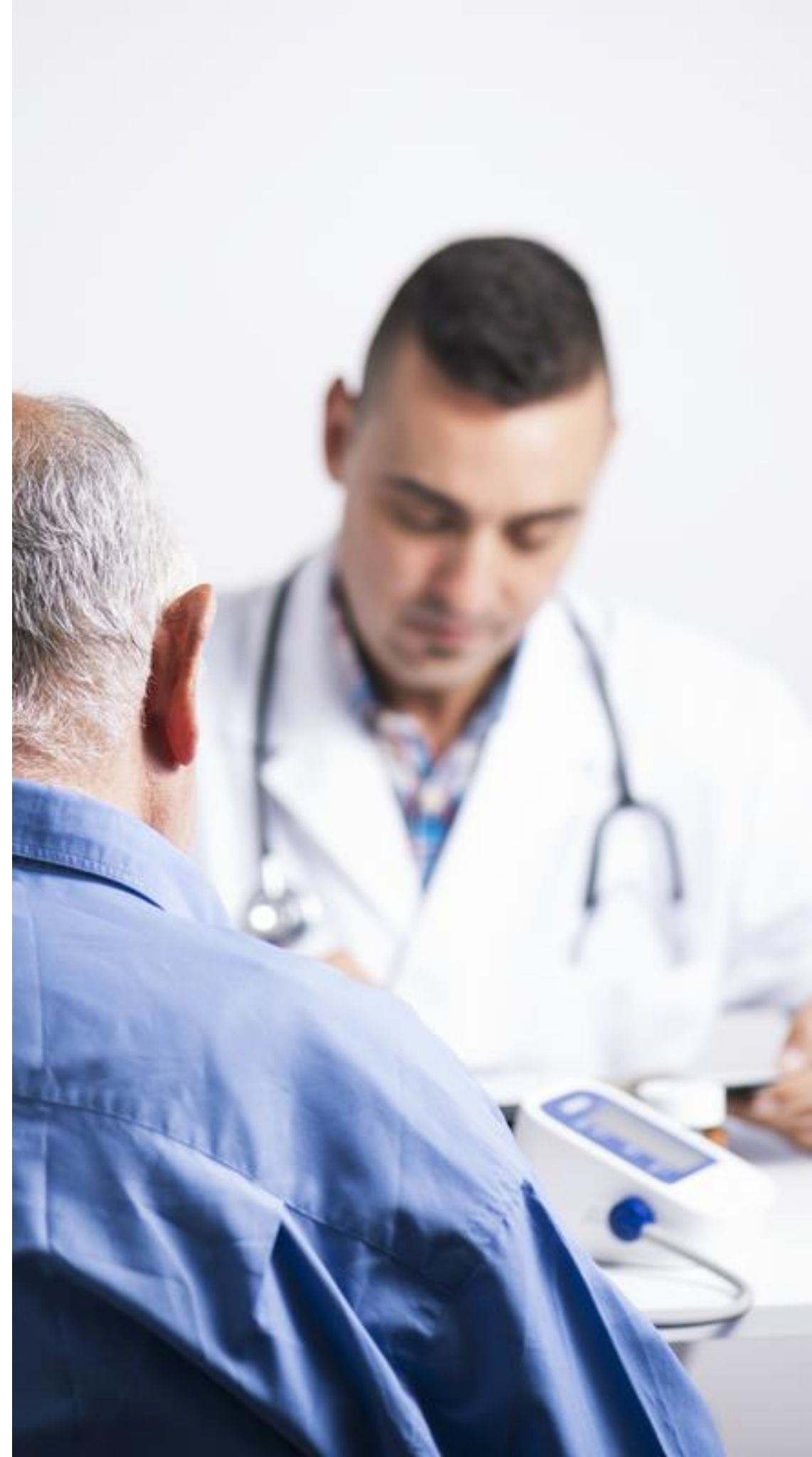
May 2019

Physicians need lab test results fast. Faster!

According to research, physicians receive as much as 60-80% of information about a patient's condition from laboratory research data. Lab test results lay ground for a correct diagnosis and treatment strategy.

Electronic flow between EHRs and LIS can help cut results waiting times, reduce human error and drive down unnecessary costs.

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LIS - EHR integration challenges

While most EHRs can receive and display lab test results, the task becomes much less straightforward when a hospital operates several LIS. The systems may use different coding systems and data exchange standards.

Integration may require cumbersome mapping algorithms and significant effort to keep the system up-to-date. This makes the process expensive and difficult to manage.

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How does the N3.Laboratory information exchange service help?

The service helps centralize and manage the information exchange between HIS/EHR and LIS. It offers unified terminology and data exchange rules based on HL7 FHIR to all connected systems.

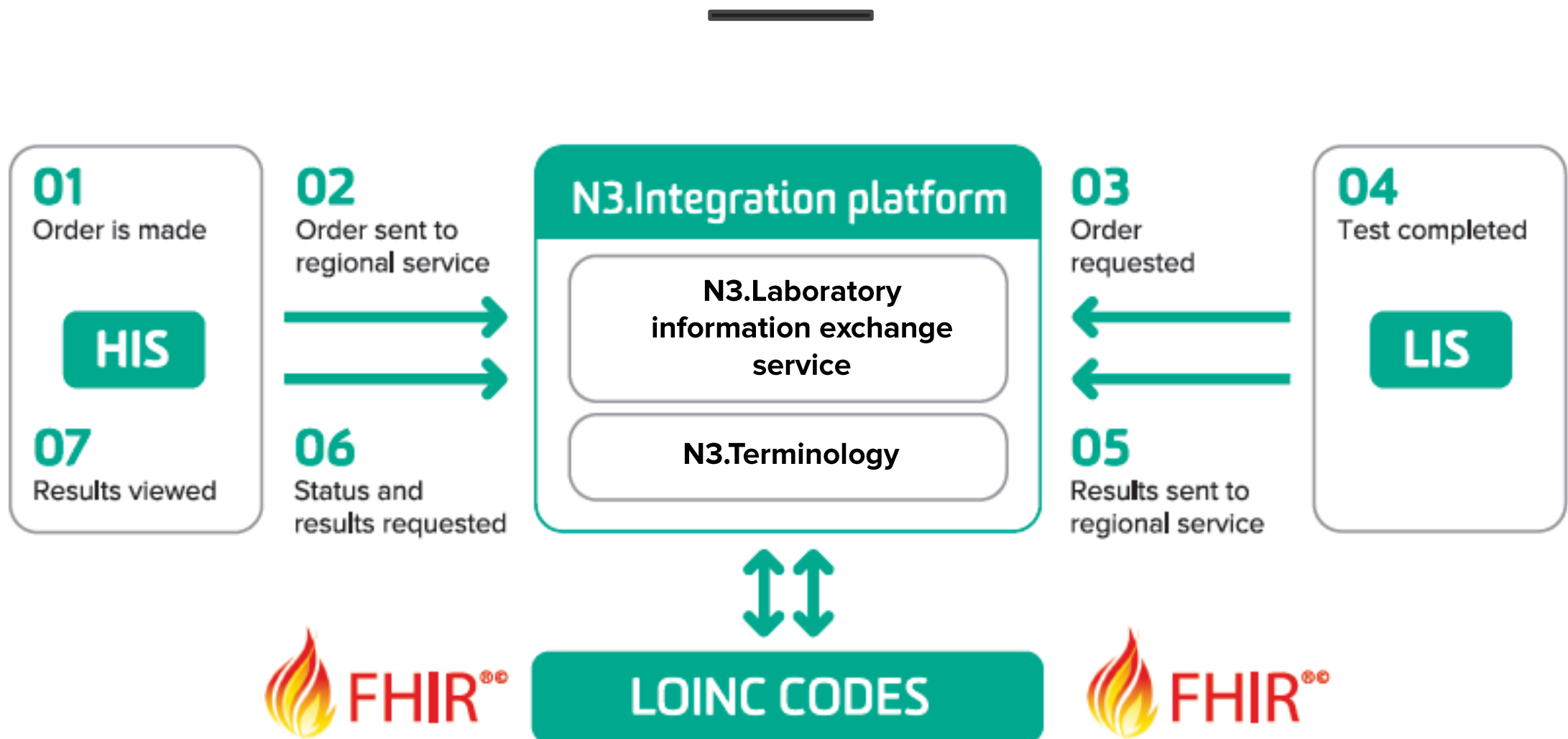
The [N3.Laboratory information exchange service](#) delivers laboratory test results to the medical care team and patients as soon as they are ready via any interfaces, such as EHR, patient portals or mobile apps.

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How does the

N3.Laboratory information exchange service work?



Semantic interoperability

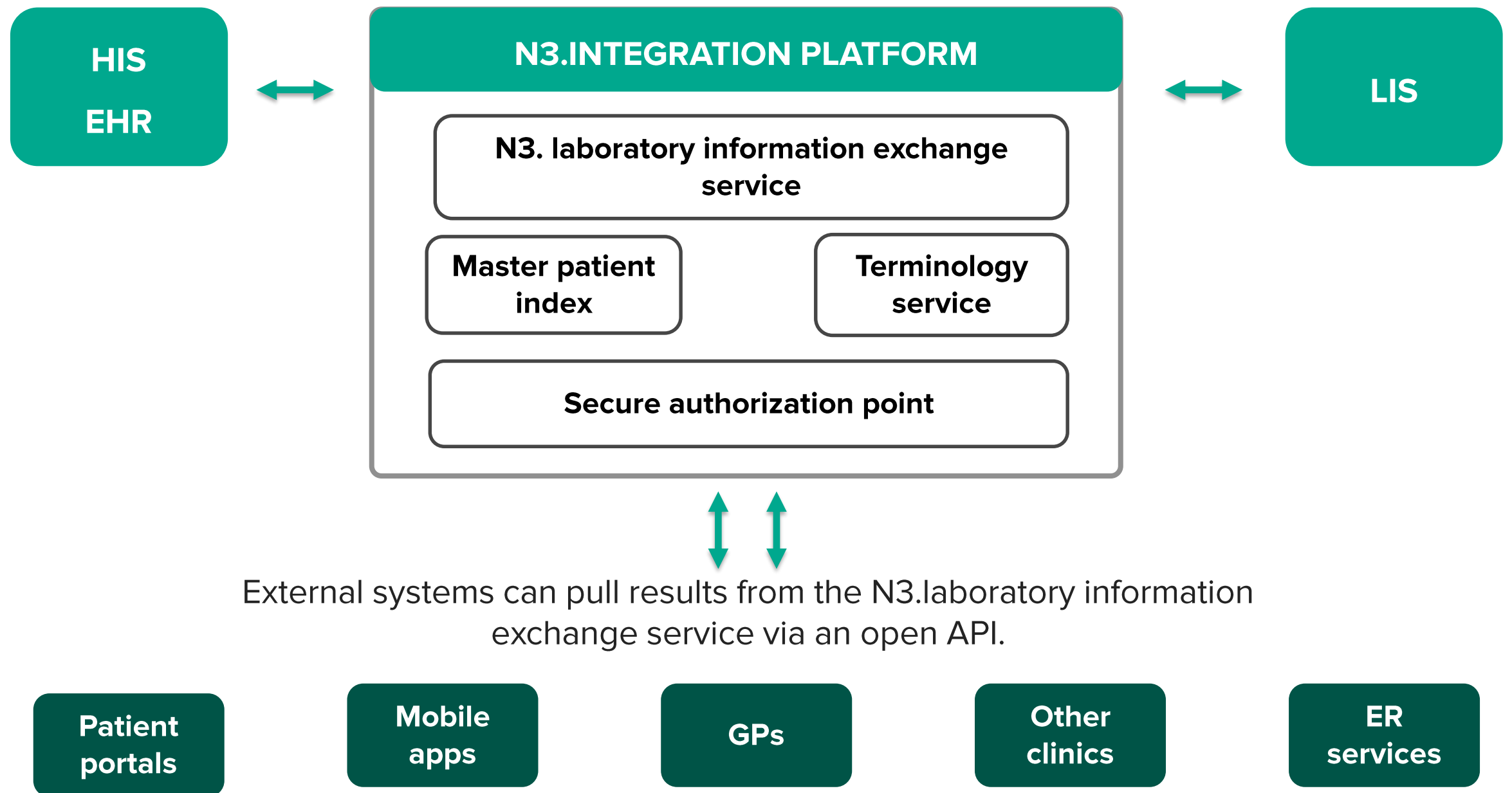
The [N3.Laboratory information exchange service](#) is integrated with a FHIR-based Terminology service, a comprehensive tool which is used to harmonize vocabulary and semantics across multiple systems.

Semantic interoperability is based on an advanced database of codes for clinical laboratory tests and services called LATEUS[®]. The LATEUS codes database was developed by the St. Petersburg Medical and Analysis Center in 2015.

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Sharing lab test results



Over 5M people use the N3.Laboratory information exchange service in St.Petersburg, Russia

In St. Petersburg, the 2nd largest Russian city, the N3.Laboratory information exchange service connects over 300 polyclinics and GP offices with 14 cross-district clinical laboratories.

At the start of the project in 2015, multiple local point-to-point integrations were used to exchange lab test orders and results. Overall, 19 EHRs and LIS from different software suppliers participate in the information exchange.

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IMPLEMENTATIONS

St. Petersburg

Krasnodarsky region

Altay region

Leningradskaya oblast

Archangelsk region

Murmansk region

Novgorod region

Tambov region

Kursk region

Kemerovo region

Khabarovsk region

Zabaikalsky region

Project results 2015 - 2019

1 day

Is the average waiting time for the test result

600 000

Tests orders per day are delivered via the **N3.Laboratory information exchange service**

20%

decrease in double or unnecessary tests compared to decentralized and paper-based workflow

The N3.Laboratory information exchange service is a valuable source of data on

- Population health
- Laboratory service economics
- Hospital department needs for specific types of tests

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