

eHealth

The eHealth DSI supports EU and EEA countries associated to the programme in the cross-border exchange of patient data in the form of ePrescriptions and Patient Summaries. By doing so, it increases the continuity of care, patient safety, their access to highly specialised care and the sustainability of health systems.

In addition, eHealth supports the creation of European Reference Networks (ERNs), virtual networks involving healthcare providers across Europe. ERNs aim to facilitate discussion on complex or rare diseases and conditions that require highly specialised treatment, and concentrated knowledge and resources.

The eHealth DSI aims to support Health Professionals. These services pave the way towards delivering sustainable eHealth systems exchanging health data and services cross-border.

The Core Service Platform for ePrescriptions and the Patient Summary support the development and maintenance of the artefacts necessary to enable cross-border exchange of ePrescription and Patient Summaries by the eHDSI deploying countries.

Generic Services for ePrescriptions and the Patient Summary supported EU and EEA countries associated to the programme to set up their National Contact Points for eHealth to start exchanging cross-border ePrescription and Patient Summary data.

The Core Service Platform for the European Reference Networks (ERN) includes the Clinical Patient Management Systems (CPMS) and ERN Collaborative Platform (ECP) allowing secure sharing of patient data and secure communication and information delivery.

Generic Services projects for ERNs served to set up the customized Operational Helpdesk that serve as a first line help for all ERN members and facilitates their use of the CPMS.

The eHealth DSI is in line and supports the provisions on the application of patients' rights in cross-border healthcare contained in the European Directive 2011/24/EU, which promotes the cooperation and the exchange of information among EU and EEA countries associated to the programme aiming at delivering sustainable eHealth systems and services and providing interoperable applications at European level.

Enhancing the interoperability of electronic health records in line with the Commission Recommendation on a European Electronic Health Record exchange format (C(2019)800) of 6 February 2019 should further help expanding the datasets currently being exchanged within the eHDSI to include valuable information concerning laboratory results, medical imaging and reports, and hospital discharge reports. This would further enhance continuity of care.

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Highlights



Generic Services Projects

€27.2 million in all Member States and the United Kingdom
117 Generic Services Projects have been awarded to the eHealth.



Use

Since the start of 2019, **69,054 ePrescriptions** and **30,146 eDispensations** have been exchanged.



Deployment

In 2021, 1319 clinical centers, in **28 countries***, are actively participating in European Reference Networks.

More info on the Generic Services:

[HaDEA](#)

Indicators

As the CEF funding of the Core Service platform came to an end in Q4 2021, this is the cut off date for the last monitoring activities linked to this work strand. The monitoring of the Generic Services projects presents the state of play by Q4 2022. 59 generic services projects are still under implementation and are foreseen to be completed by 2024.

ePrescriptions, eDispensations and Patient Summaries Uptake

9

countries* with operational eHealth National Contact Points

270476

transactions using the eHealth National Contact Points

69054

ePrescriptions exchanged between countries*

30,146

eDispensations exchanged between countries*

20

operational services made available by eHealth Nati...

968

patient Summaries exchanged between countries*

European Reference Networks Uptake

28

countries* participate in European Reference Networks

1319

healthcare providers participate in European Reference Networks

3205

patient cases reviewed through European Reference Networks

6

IT support services deployed for the European Reference Networks

Service Availability

100%

Average uptime of the Configuration Services

100%

Average uptime of the Terminology Services

99.5%

Average uptime of the ERN IT Platform

Financial Monitoring

€ 17,720,799

CEF funding through Core Service Platform

€ 27,230,929

CEF funding through Generic Services Projects

CEF Building Blocks reused by ePrescriptions, eDispensations and Patient Summaries

eHealth, ePrescriptions, eDispensations and Patient Summaries are reusing eDelivery
ERN is reusing eID

* The mention "country(ies)" refers to "EU Member States and EEA countries associated to the CEF programme"

Indicators

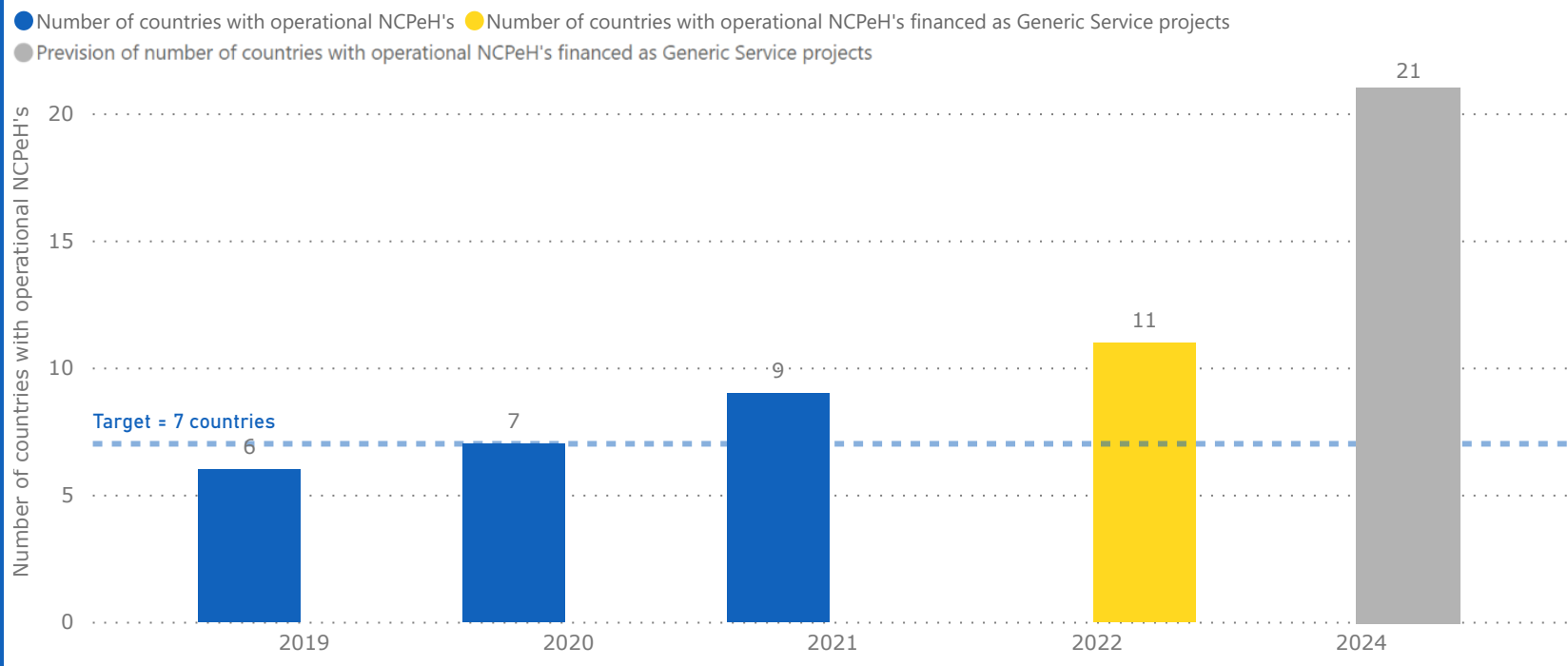
eHealth > ePrescriptions, eDispensations and Patient Summaries > Uptake > Countries with operational NCPeH


This indicator measures the number of **countries* with operational National Contact Points for eHealth (NCPeH)** at the time of yearly data collection.

National contact points (NCPs) for eHealth are organisations delegated by each participating country, acting as a bidirectional way of interfacing between the existing different national functions provided by the national IT infrastructures and those provided by the common European infrastructure, created in eHDSI. The NCP takes care of external and internal national communication and functions in eHDSI and the semantic mapping (if necessary) between information on either side. The NCP also mediate on legal and regulatory aspects. The NCP creates the conditions (by supporting trust, data protection and privacy) for a trusted relationship with other countries' NCPs.

A NCPeH is considered operational in this context when the NCPeH entered routine operations by acting as an organisational and technical gateway for the provision of eHealth Cross-Border Information Services.

Target
7 countries* with operational National Contact Points for eHealth, by the time all CEF funded projects are implemented.



 10 additional countries are expected to have an operational NCPeH's financed through Generic Services Projects by 2024.

* The mention "**country(ies)**" refers to "EU Member States and EEA countries associated to the CEF programme"

eHealth > ePrescriptions, eDispensations and Patient Summaries > Uptake > Transactions using the NCPeH

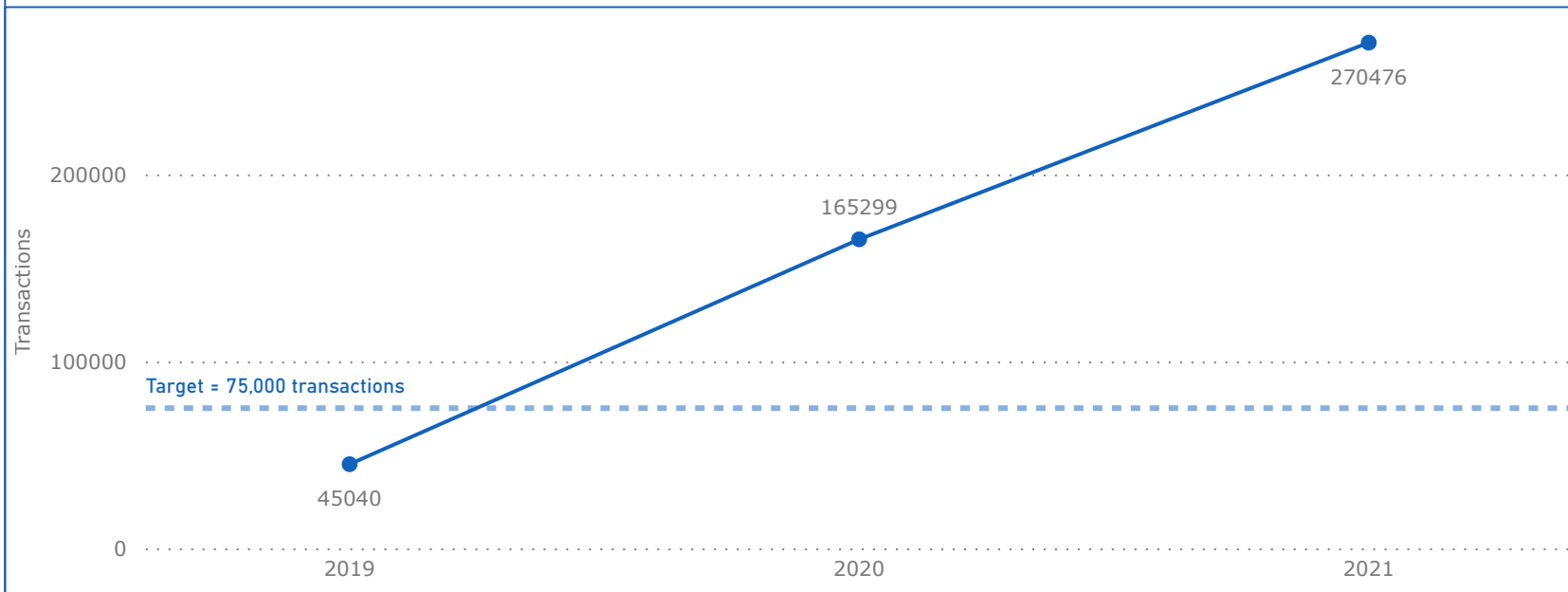
This indicator measures the number of **transactions between countries* using the National Contact Point for eHealth (NCPeH)** technical gateway. The baseline for this number is the operational launch of the eHealth Digital Service Infrastructure in Q1 2019 (11,482 transactions). This is counted as transactions between countries* using the NCPeH technical gateway

A transaction can be one of 3 types:

1. Patients demographics: query and response related with the patient identification.
2. Documents list: query and response about the clinical documents associated with a certain patient.
3. Documents exchange: clinical document exchanged between NCPeHs.

Target

75,000 transactions between participating countries*, by the end of 2020.



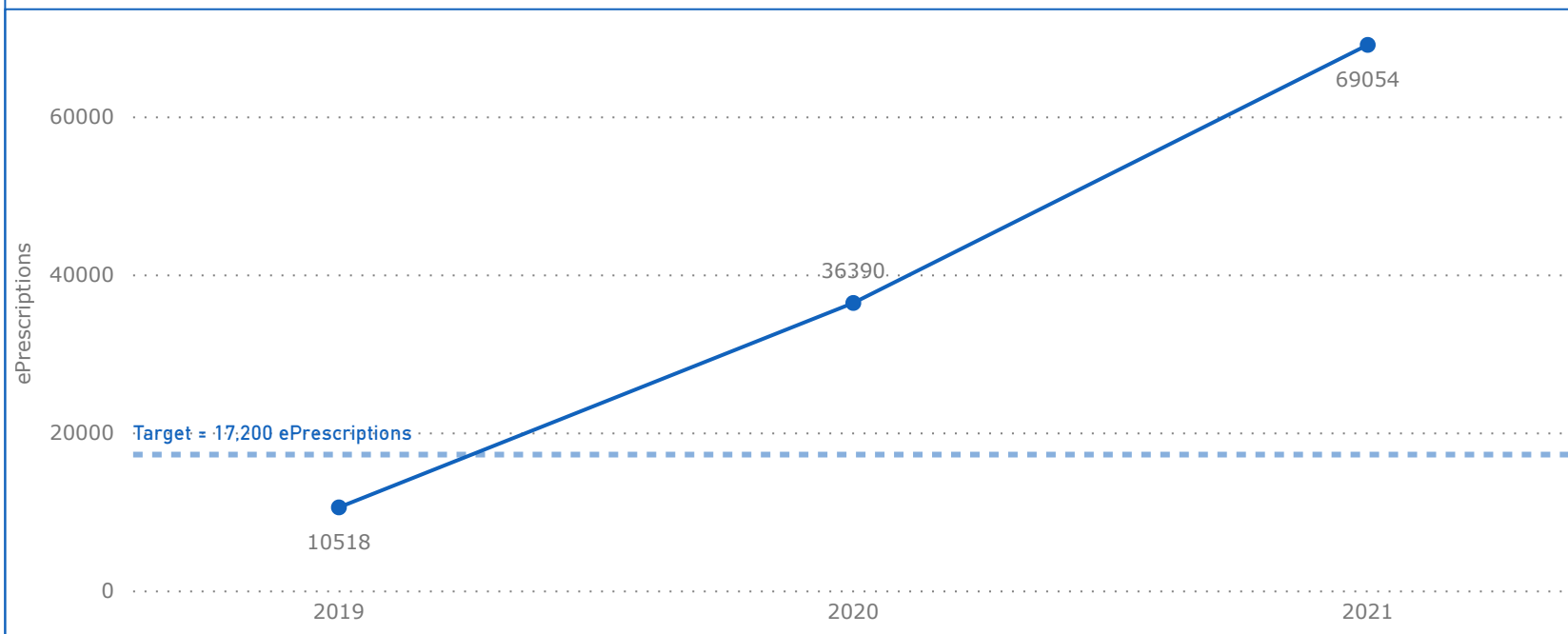
* The mention "**country(ies)**" refers to "EU Member States and EEA countries associated to the CEF programme"

📄 eHealth > ePrescriptions, eDispensations and Patient Summaries > Uptake > ePrescriptions exchanged between EU countries

This indicator measures the number of **ePrescriptions exchanged between countries***, i.e. the number of medicinal prescriptions issued and transmitted electronically between the National Contact Point for eHealth (NCPeH) of two countries*. The baseline for this number is the operational launch of the eHealth Digital Service Infrastructure in Q1 2019 (3,452 ePrescriptions issued and transmitted).

Target

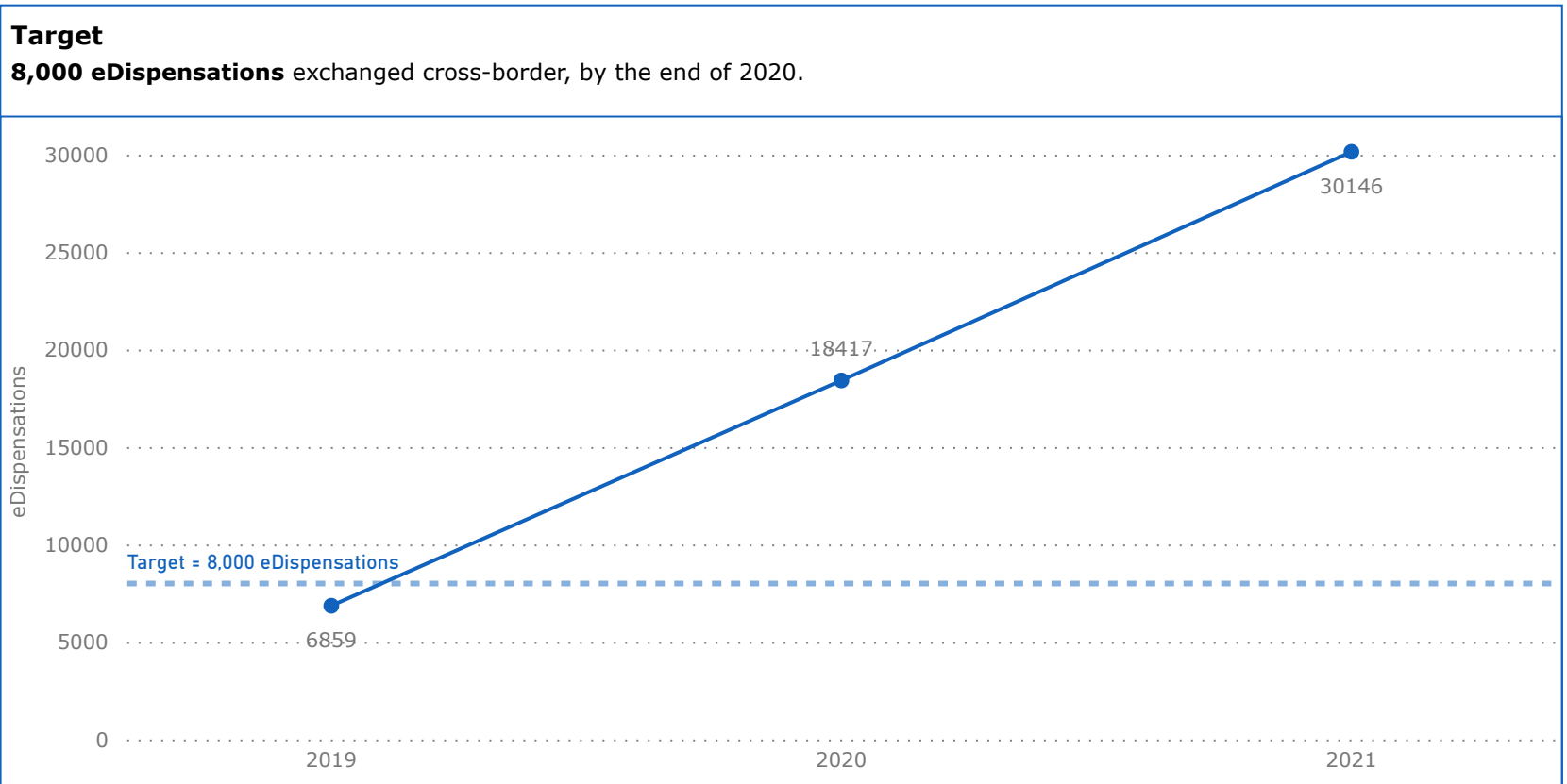
17,200 ePrescriptions exchanged between EU countries, by the end of 2020.



* The mention "**country(ies)**" refers to "EU Member States and EEA countries associated to the CEF programme"

📄 eHealth > ePrescriptions, eDispensations and Patient Summaries > Uptake > eDispensations exchanged between EU countries

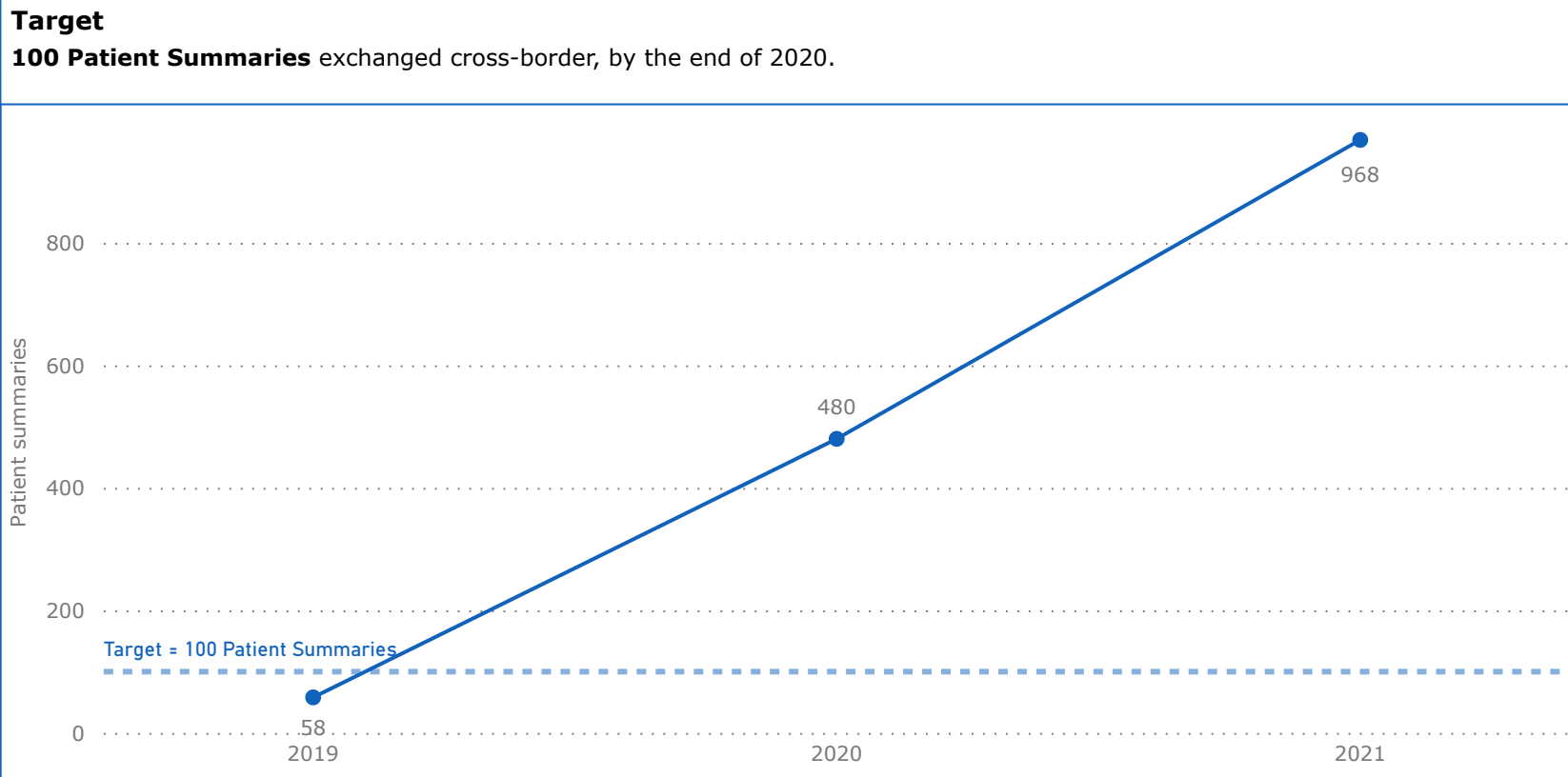
This indicator measures the number of **eDispensations exchanged between countries***, i.e. the number of medicinal dispensations issued and transmitted electronically between the National Contact Point for eHealth (NCPeH) of two countries*. The baseline for this number is the operational launch of the eHealth Digital Service Infrastructure in Q1 2019 (1,033 eDispensations issued and transmitted).



* The mention "**country(ies)**" refers to "EU Member States and EEA countries associated to the CEF programme"

eHealth > ePrescriptions, eDispensations and Patient Summaries > Uptake > Patient Summaries exchanged between EU countries

This indicator measures the number of **Patient Summaries exchanged between countries***. The baseline for this number is the first year of service operations in Q1 2019 (0 Patient Summaries). This is counted as exchanges in the EU and EEA.



* The mention "**country(ies)**" refers to "EU Member States and EEA countries associated to the CEF programme"



eHealth > ePrescriptions, eDispensations and Patient Summaries > Uptake > Operational services made available by NCPeH

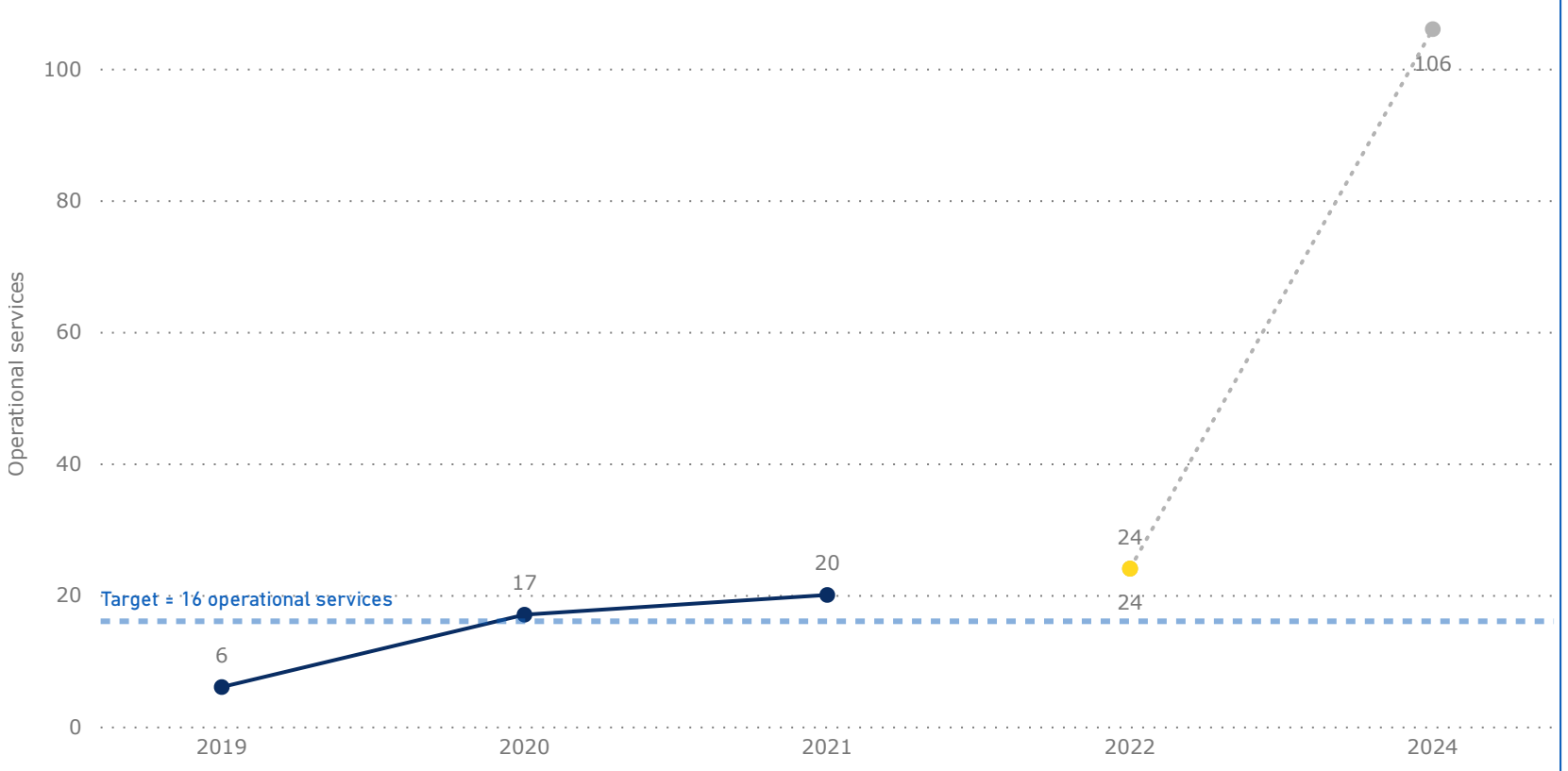
This indicator measures the number of **operational services made available by National Contact Points for eHealth (NCPeHs)** at the time of yearly data collection.

The services (4 in total) include the ePrescriptions/ eDispensations and Patient Summaries (emitting and receiving) services. A service is considered operational in this context when, after being authorised by the eHealth Network and all test and audit findings having been cleared, the service is made available to healthcare providers and citizens.

Target

16 operational services, by the time all CEF funded projects are implemented.

● Prevision ● Operational services ● Operational services financed by Generic Services projects



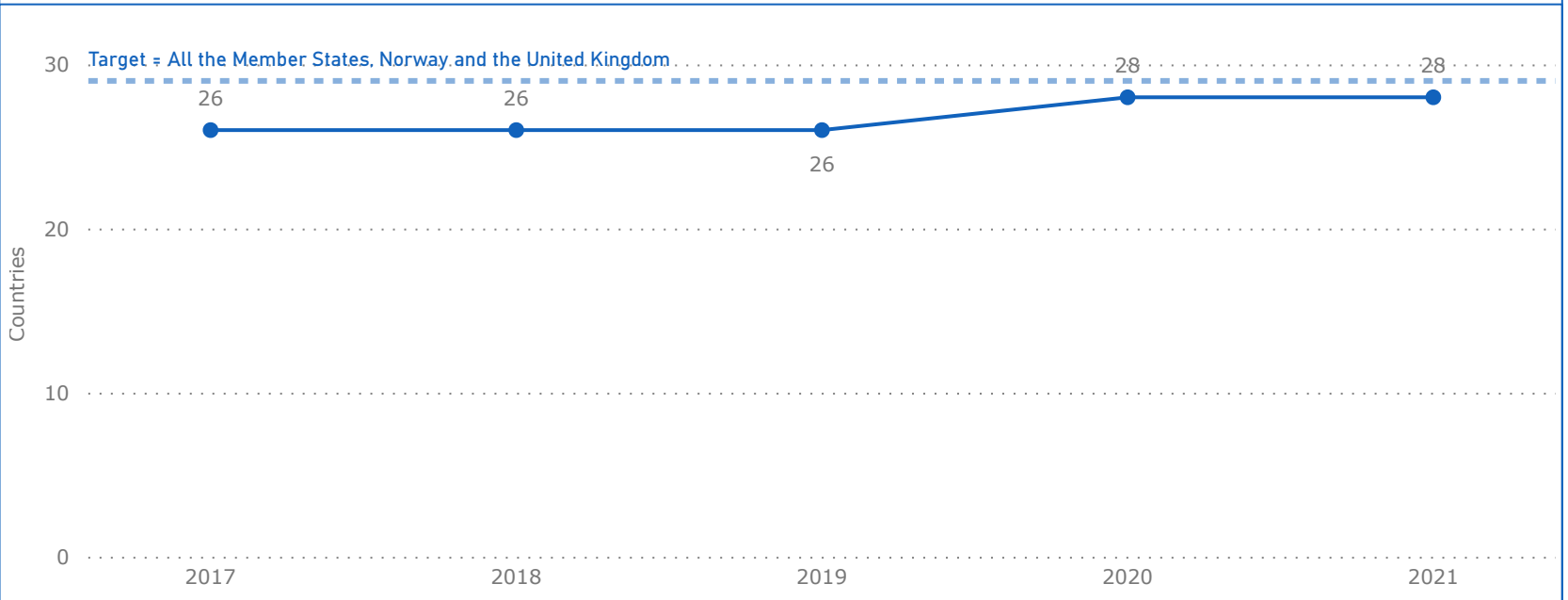
82 additional operational services are expected to be available through Generic Services Projects by 2024.

eHealth > European Reference Networks > Uptake > Countries participating in ERNs

This indicator measures the number of **countries*** with at least one healthcare provider (HCP) **participating in at least one European Reference Network (ERN)** at the time of yearly data collection.

A healthcare provider is a legal or natural person legally providing healthcare on the territory of a Member State (e.g. a highly specialised unit or department within a hospital, clinic, etc).

Target
All the Member States, Norway and the United Kingdom with at least one healthcare provider participating in at least one European Reference Network, by the end of 2020.



* The mention "**country(ies)**" refers to "EU Member States and EEA countries associated to the CEF programme"



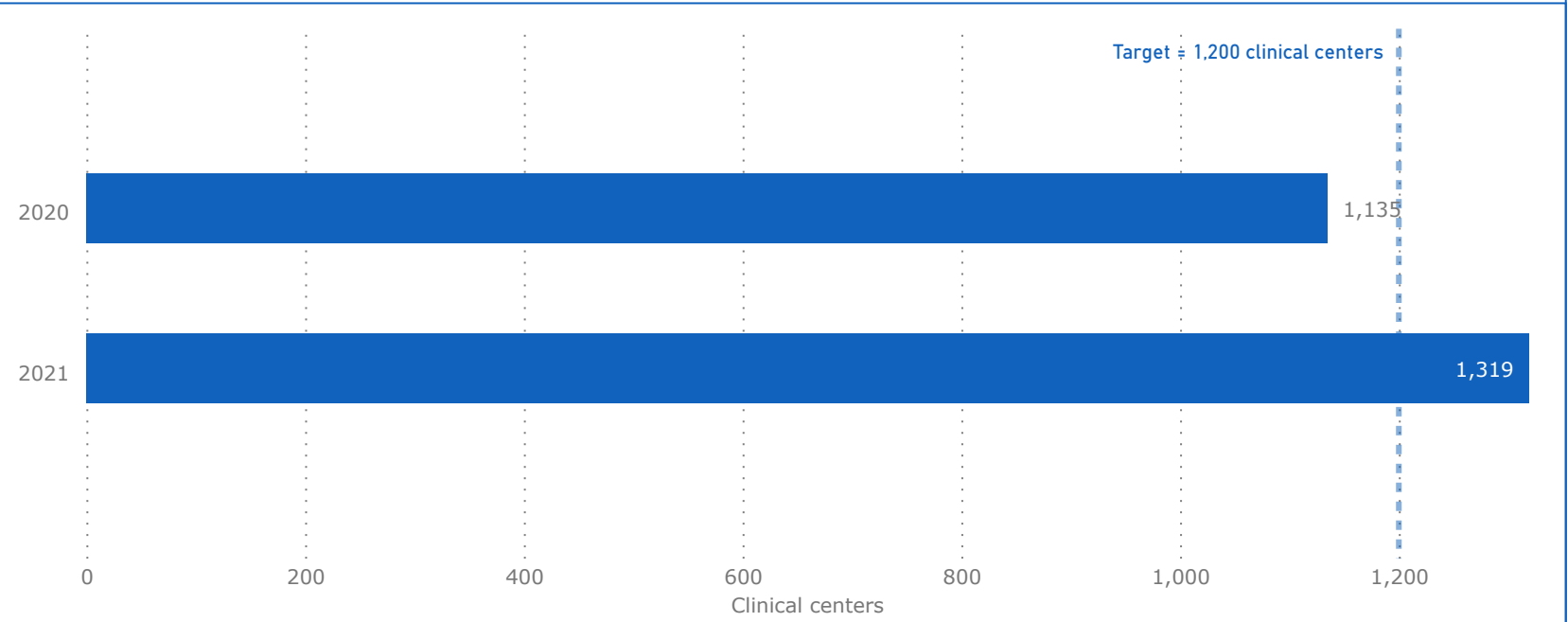
eHealth > European Reference Networks > Uptake > Clinical centers participating in ERNs

This indicator measures the number of **clinical centers participating in at least one European Reference Network (ERN)**, in EU and EEA countries associated to the programme, at the time of yearly data collection.

A clinical center is an unofficial virtual entity that corresponds to the link between a specific network and a service or department of an health care provider that is member of that network.

Target

1,200 clinical centers participating in one or more European Reference Network(s), by the end of 2020.



eHealth > European Reference Networks > Uptake > Patient cases reviewed through ERNs

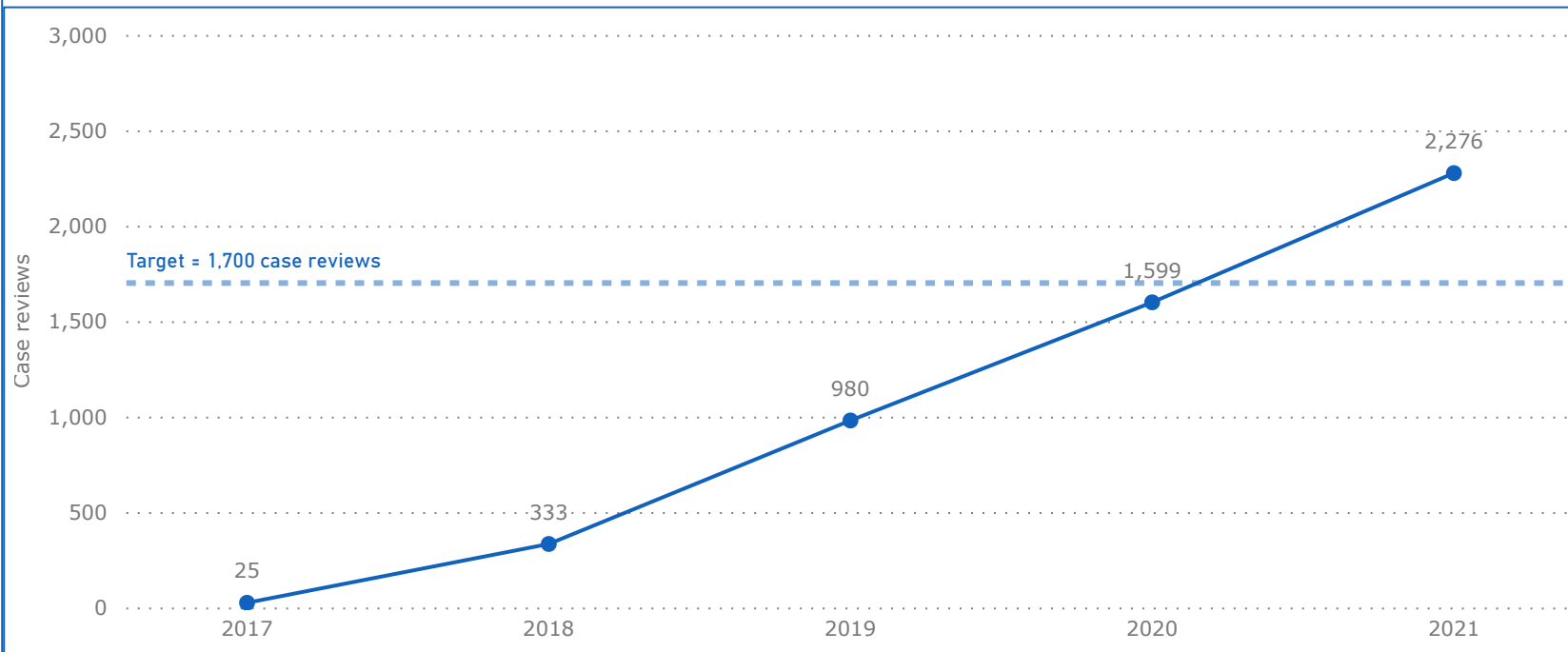
This indicator measures the number of **case reviews (panels) in the European Reference Network (ERN) Clinical Patient Management System (CPMS)**. The baseline for this number is the launch of the CPMS in Q3 2017 (0 case reviews).

Case reviews (panels) refer to the virtual consultation/discussion of patient cases through the CPMS by a panel of health professionals from healthcare providers (HCPs) participating in an ERN.

The CPMS aims at supporting ERNs in improving the diagnosis and treatment of rare or low prevalence complex diseases across national borders of Member States in Europe. The CPMS is a secure Software as a Service (SaaS) that enables health professionals to collaborate actively, share and discuss patient cases within and across ERNs.

Target

1,700 case reviews in the ERN CPMS, by the end of 2020.

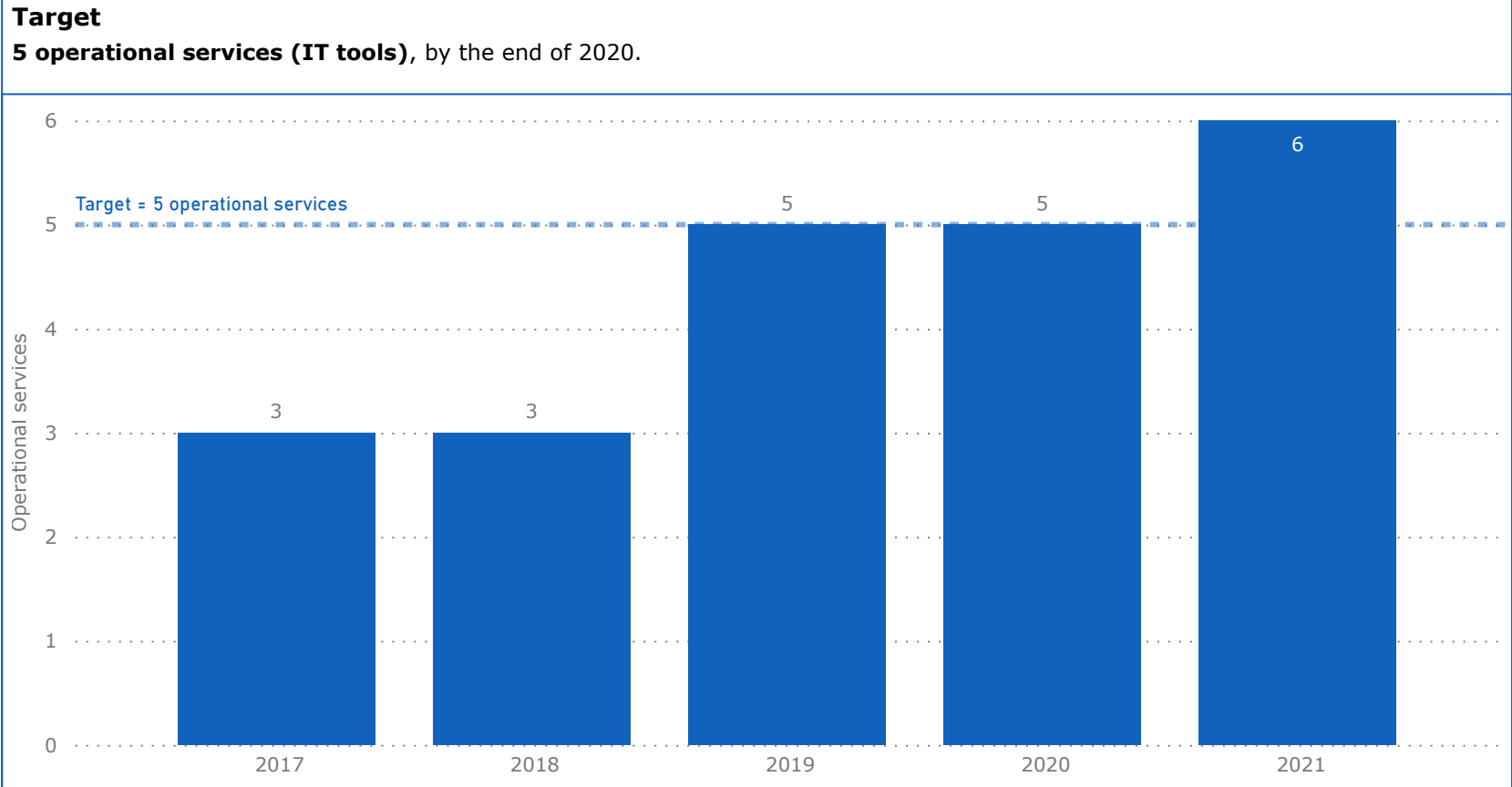


eHealth > European Reference Networks > Uptake > IT Support Services deployed for the ERNs

This indicator measures the total number of **services (IT tools) deployed in order to support the work of the Europe Reference Networks (ERNs)**.

The eHDSI-ERN IT Platform currently includes 5 services:

1. The Clinical Patient Management System (CPMS), for virtual consultations of patient cases within ERNs;
2. The ERN Collaborative Platform (ECP), for general discussion and sharing of non-sensitive information and best practices within the ERN community;
3. The Service Directory and Info Hub, for Commission management and updating of ERN information;
4. The ERN Indicators tool, for monitoring ERN performance and facilitating ERN KPI reporting;
5. The Healthcare Providers Application (HCPA) platform, to collect HCP applications for new membership to an ERN.



eHealth Milestones

All the **eHealth** milestones defined within the CEF Monitoring framework were successfully achieved.

A detailed overview of the milestones can be found in the table below.

Milestone title	Start date	End date	% complete	Status
Collaboration Services Go Live - Release 1	01 January 2016	01 November 2016	100	Completed
Communication Services Go Live - Release 1	01 January 2016	01 March 2016	100	Completed
Configuration Services Go Live - Release 1	01 January 2016	01 March 2017	100	Completed
NCPeH reference Implementation Operation ready release (V2.5.x)	01 January 2016	01 June 2017	100	Completed
Terminology Services Go Live - Release 1	01 January 2016	01 March 2017	100	Completed
1st eHDSI OpenNCP Boot Camp	01 July 2016	01 January 2017	100	Completed
Approval decision for Wave 1 of NCPeH Go Live	01 July 2016	01 June 2019	100	Completed
Communication Services Go Live - Release 2	01 July 2016	01 March 2017	100	Completed
Completion of the Audit for MS Going live in Wave 1	01 July 2016	01 April 2019	100	Completed
Interoperability Specifications - Release 1	01 July 2016	01 March 2017	100	Completed
Wave 1 of NCPeH Go Live	01 October 2016	01 June 2019	100	Completed
1st eHealth Interoperability Test marathon at EC	01 January 2017	01 February 2018	100	Completed
Collaboration Services Go Live – Release 2	01 September 2017	01 June 2018	100	Completed
Communication Services Go Live - Release 3	01 September 2017	01 June 2018	100	Completed
Configuration Services Go Live – Release 2	01 September 2017	01 June 2018	100	Completed
Interoperability Specifications – Release 2	01 September 2017	01 June 2018	100	Completed
NCPeH reference Implementation Operation ready release (OpenNCP V2.5.3)	01 September 2017	01 August 2018	100	Completed
Terminology Services Go Live – Release 2	01 September 2017	01 June 2018	100	Completed
2nd eHealth Interoperability Test marathon at EC	01 January 2018	01 February 2019	100	Completed
Collaboration Services Go Live – Release 3	01 September 2018	01 June 2019	100	Completed
Communication Services Go Live - Release 4	01 September 2018	01 June 2019	100	Completed
Configuration Services Go Live – Release 3	01 September 2018	01 June 2019	100	Completed
Interoperability Specifications – Release 3	01 September 2018	01 June 2019	100	Completed
NCPeH reference Implementation Operation ready release (V4.0.x)	01 September 2018	01 September 2019	100	Completed
Terminology Services Go Live – Release 3	01 September 2018	01 June 2019	100	Completed
Completion of the Audit for MS Going live in Wave 2	01 October 2018	01 August 2019	100	Completed
3rd eHealth Interoperability Test marathon at EC	01 June 2019	01 June 2020	100	Completed
Approval decision for Wave 2 of NCPeH Go Live	01 June 2019	01 November 2019	100	Completed
Wave 2 of NCPeH Go Live	01 June 2019	01 December 2019	100	Completed
Collaboration Services Go Live - Release 4	01 September 2019	01 June 2020	100	Completed
Communication Services Go Live - Release 5	01 September 2019	01 June 2020	100	Completed
Completion of the Audit for MS Going live in Wave 3	01 September 2019	01 August 2020	100	Completed
Configuration Services Go Live - Release 4	01 September 2019	01 June 2020	100	Completed
Interoperability Specifications - Release 4	01 September 2019	01 June 2020	100	Completed
NCPeH reference Implementation Operation ready release (V3.2.x)	01 September 2019	01 March 2020	100	Completed
Terminology Services Go Live - Release 4	01 September 2019	01 June 2020	100	Completed
IT maintenance: CPMS(Clinical Patient Management System), SD(Service Directory), IH(InfoHub)	01 October 2019	31 December 2019	100	Completed
Meetings: 2(ITAG)+2(Coord)+2(BoMS)	01 October 2019	31 December 2019	100	Completed
New IT developments: HCPA(HCP Applications), IND(Indicators)	01 October 2019	31 December 2019	100	Completed
Approval decision for Wave 3 of NCPeH Go Live	01 June 2020	01 December 2020	100	Completed
Wave 3 of NCPeH Go Live	01 July 2020	01 December 2020	100	Completed
IT maintenance: CPMS, SD, IH, HCPA, IND	01 October 2020	31 December 2020	100	Completed
Meetings: 2(ITAG)+2(Coord)+3(BoMS)	01 October 2020	31 December 2020	100	Completed