D9.6

Dissemination and Communication Report – V1

ABSTRACT

This document reports on the implementation of the InteropEHRate Dissemination Strategy and Action Plan during the first two years (2019 and 2020). It describes the dissemination activities carried out by the InteropEHRate Consortium through the different project channels and monitors the impact indicators linked to the dissemination priorities. Finally, it evaluates the results and provides guidance for the next dissemination phase.

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LOG TABLE

Version	**Date**	**Change**	**Author**	**Partner**
0.1	15-12-20	Deliverable outline	Tino Marti	EHTEL
1.0	19-01-21	Development of chapters 1 and 2	Tino Marti	EHTEL
1.1	19-02-21	Development of chapter 3	Tino Marti	EHTEL
1.2	05-03-21	Dissemination scorecard	Tino Marti	EHTEL
1.3	06-04-21	Development of chapter 4	Tino Marti	EHTEL
1.4	28-04-21	Development of chapter 5	Tino Marti	EHTEL
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2.1	12-05-21	Internal review	Marc Lange	EHTEL
3.0	01-06-21	Final editing	Tino Marti	EHTEL
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3.2	11-06-21	Technical review	Marcela Chavez	CHU
4.0	06-07-21	Consolidation of reviews	Tino Marti	EHTEL
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ACRONYMS

Acronym	Term and definition
API	Application Programming Interface
CHU	Centre Hospitalier Universitaire de Liège
COVID-19	Coronavirus Infectious Disease 2019
D2D	Device-to-device protocol
DG	Directorate-general
EC	European Commission
EFN	European Federation of Nurses
EFPIA	European Federation of Pharmaceutical Industries and Associations
EHMA	European Health Management Association
EHTEL	European Health Telematics Association
ELO	EHTEL-like organisation
ENG	Engineering Ingegneria Informatica S.p.A
ESB	External Stakeholder Board
EU	European Union
EUPHA	European Public Health Association
FRAU	Fraunhofer Gesellschaft zur Foerderung der Angewandten Forschung E.V.
FTGM	Fondazione Toscana Gabriele Monasterio per la Ricerca Medica e di Sanita Pubblica
GDPR	General Data Protection Regulation
HIMSS	Healthcare Information and Management Systems Society
HL7	Health Level 7
ICIC	International Conference on Integrated Care
IESA	Interoperability for Enterprise Systems and Applications
ISA	Iatrikos Syllogos Athinon
IT	Information Technology
KPI	Key Performance Indicator
LOOST	Legal, Operations, Organizational, Semantics and Technical
Q1	Quarter 1
S-EHR	Smart Electronic Health Records
SCUBA	Spitalul Clinic de Urgenta Bagdasar-Arseni
SDO	Standard Development Organisations
SME	Small and Medium Enterprise
UNITN	Universita degli Studi di Trento
UNIVIE	Universität Wien
UPRC	University of Piraeus Research Center
WP	Work package

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1. INTRODUCTION

InteropEHRate is a 45-month Research and Innovation project with the aim to support people's health by opening them up to new ways to make health data available whenever and wherever needed. Key health data is managed in "patient's hands" through Smart Electronic Health Records (S-EHR) on mobile devices. Through open specifications and protocols, patients are in full control of their data and its routes.

In July 2019, a Dissemination Strategy and Action Plan of the project was released. It delivered a four-year strategy to support the achievement of InteropEHRate goals together with the project branding **[D9.1]**.

The plan is structured in three phases: awareness, understanding and action. Phase one aims to create awareness and greater visibility of InteropEHRate during the first twelve months. Phase two aims to facilitate understanding of InteropEHRate by focusing on the preliminary results and the initial release of tools. Phase three focuses on InteropEHRate overall consolidated results in the form of software components and ready-to-use technologies.

This report provides a detailed account of all communication and dissemination activities covered by phases one and two, carried out over the first 24 months.

1.1. Scope and objectives of the document

This report describes the activities organised to implement the dissemination strategy and action plan. It provides a detailed account of all communication and dissemination activities carried out over the first 24 months of the project. This reporting aims to inform the dissemination and communication work for the next dissemination phase of the project.

The specific objectives of this report are to:

- Describe the coordination mechanisms for organising InteropEHRate dissemination and communication activities.
- Provide an overview and report on the activities carried out during the first two years of the project.
- Compare the activity metrics with the targets set out at the beginning of the project.
- Assess progress and alignment with the Dissemination Strategy and Action Plan and identify areas where further effort is needed in the next dissemination phase.

1.2. Intended audience

This report is intended primarily for readers from the European Commission, InteropEHRate consortium partners, and those organisations involved in completing the project by contributing to key project activities.

1.3. Structure of the document

This report is composed of four chapters. Chapter 2 describes the organisational mechanisms to implement the Dissemination Strategy and Action Plan. Chapter 3 reports on the dissemination and communication activities carried out through the different dissemination channels. Chapter 4 summarises quantitatively the first two years of activities following the dissemination and communication monitoring system. Chapter 5 provides further guidance for the second half of the project.

1.4. Updates with respect to previous version (if any)

Not applicable.

2. MANAGEMENT OF DISSEMINATION AND COMMUNICATION ACTIVITIES

Based on InteropEHRate project goals and approach, a Dissemination Strategy and Action Plan was developed and made public in July 2019. As a dissemination strategic plan, it set out a three-phased plan to address technical and scientific objectives as well as health system and exploitation-related objectives. It also identified target audiences and mapped key stakeholders at European, national, and regional level. The plan aimed to guide all the project's dissemination and communication related activities and establish synergies with other projects.

Phase	Timeline	Audience
1. Awareness	M1-M12	**Wide dissemination** Open communication with multi-stakeholder ecosystems.
2. Understanding	M12-M45	**Targeted dissemination** Health professionals, providers, institutions, clinical researchers, health IC providers, privacy and security providers, health standardization bodies.
3. Action	M24-M45	**Stakeholder engagement** Citizens, health ecosystem, health authorities, SMEs and start-ups.

Table 1. Dissemination phases, timeline and audiences

2.1. Visual identity

As Appendix 1 of the Dissemination Strategy and Action Plan, it was delivered the Project Branding in July 2019 [D9.1]. The Project Branding included the logo and tagline, typography and designs for web, social media and official documents and presentations, providing communication coherence to all dissemination materials and channels. Presentation templates, a graphical charter for the portal, and other dissemination materials were designed following this guide.

2.2. Coordination mechanisms

All partners are involved in the dissemination, communication, and collaboration activities. To streamline coordination between partners in joint dissemination efforts, a WP9 committee was set out since the release of the Dissemination Strategy and Action Plan. Composed by representatives of all 17 partners, this committee addressed as the first priority the development of contents for the website together with other related dissemination tasks such as social media, publications and presentations.

In terms of InteropEHRate-related events, the Web Editorial Committee (see Annex 1) is responsible for organising and maintaining a dissemination log file of publications and events in which InteropEHRate partners have contributed. The Web Editorial Committee has supported promotion, content development, and further dissemination of events.

2.3. Monitoring system and "dissemination scorecard"

Eighteen (18) key performance indicators (KPIs), otherwise known as "impact indicators", were identified and adopted as the project's monitoring system. These KPIs are important metrics for the project's dissemination and communication activities and have defined annual targets for the entire project life cycle. A range of communication channels have been monitored, including the website, social media, publications, events, and synergies with other initiatives.

The following table displays the "dissemination scorecard" and lists the description of all 18 KPIs categorised by channels and the originally intended targets for 2019 and 2020.

KPI	Target 2019	Target 2020
Website		
# of unique visits to the website	250	500
# of page views	-	-
# of news and events published on the website	5	10
# of resources published on the website	0	10
Social media		
# of followers on twitter (cumulative)	50	100
# of tweets using InteropEHRate-related hashtags	50	100
Publications		
# of press releases for each pilot site	-	2
# of publications on technical matters published in magazines and blogs	-	1
# of publications on non-technical matters published in magazines and blogs	-	1
Events		
# of exhibition workshops in national or European fair	-	1
# of webinars (cumulative)	1	2
# of project presentations in national or European conferences	2	5
# of local events (cumulative)	-	1
# of Stakeholder engagement workshops (cumulative)	-	2
# of participants registered in the mailing list (cumulative)	20	40
# of participants to the mid-term workshop	-	-
# of participants to the final conference	-	-
Synergies		
# of synergetic dissemination activities	0	2

Table 2. Key performance indicators for communication activities and annual targets

This scorecard has served as a tool to follow-up and monitor progress and impact over the first two years of the project and keep the project on track regarding prime dissemination and communication priorities. It is used in Chapter 4 as a benchmarking tool to monitor progress and offer information about the next steps for InteropEHRate until the end of the project in 2022.

3. MONITORING AND EVALUATION

This chapter reports the outcomes of InteropEHRate dissemination and communication activities based on the selected monitoring tool established on the Grant Agreement. It acts as dissemination scorecard composed of KPIs for website, social media, publications, events, and synergies. Used as a benchmarking and monitoring tool at Consortium meetings, it provides further guidance on anticipated dissemination and communication activities.

The following table compares the metrics achieved in 2019 and 2020 with the annual targets.

KPI	Target 2019	Target 2020	Achieved 2019	Achieved 2020
Website				
# of unique visits to the website	250	500	855	1715
# of page views	-	-	3624	5653
# of news and events published on the website	5	10	9	22
# of resources published on the website	0	10	23	19
Social media				
# of followers on twitter (cumulative)	50	100	47	84
# of tweets using InteropEHRate-related hashtags	50	100	18	7
Publications				
# of press releases for each pilot site	-	2	1	1
# of publications on technical matters published in magazines and blogs	-	1	2	8
# of publications on non-technical matters published in magazines and blogs	-	1	6	9
Events				
# of exhibition workshops in national or European fair	-	1	1	4
# of webinars (cumulative)	1	2	2	4
# of project presentations in national or European conferences	2	5	6	6
# of local events (cumulative)	-	1	-	1
# of Stakeholder engagement workshops (cumulative)	-	2	1	11
# of participants registered in the mailing list (cumulative)	20	40	20	150
# of participants to the mid-	-	-	-	95

KPI	Target 2019	Target 2020	Achieved 2019	Achieved 2020
term workshop				
# of participants to the final conference	-	-	-	-
Synergies				
# of synergetic dissemination activities	0	2	4	2

Table 3. Impact indicators for dissemination activities: 2019 and 2020 targets and achievements.

According to the metrics achieved in 2019 and 2020 and compared with the respective annual targets, the first finding is that all KPIs are reached except for social media and press releases in the second year.

By dissemination channels, all 4 KPIs under the **Website** category were reached comfortably. Unique visits to the online portal were more than three times higher than 2019 and 2020 targets. Content-wise, the publication of news and events were doubled the original goals. These consumption and production metrics are reinforced by the geographical penetration of the web traffic as it is shown in Figure 1. European countries, United States and Canada are the largest visitors' sources.
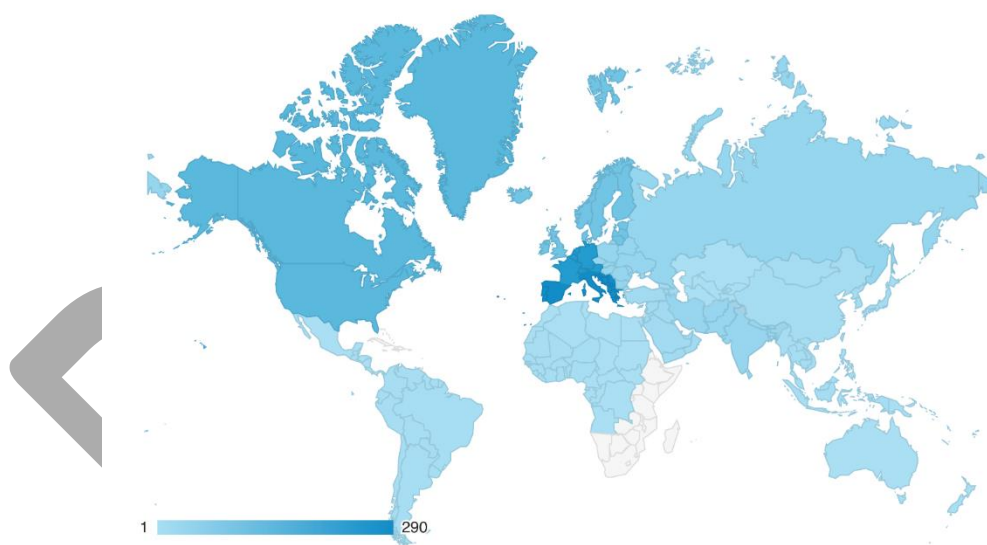

Figure 1. Web traffic by world geographical areas

Social media activity in Twitter is behind schedule and requires additional effort for the second half of the project. Even if the number of followers is close to reach the annual targets, the use of InteropEHRate related hashtags is far from optimal.

In the **Publications** category, the number of both technical and non-technical publications exceeded the annual targets, showing an intense effort by partners to disseminate the project to technical and more general audience in accordance with the Dissemination Strategy and Action Plan. Press releases of the project pilots are just below the goal. However, the activity reported in Annex 4 compensates local

dissemination thanks to the dissemination activity of other partners that are not directly involved in the four pilots.

The **Events** chapter turns out with a positive balance despite the disruption caused by the COVID-19 outbreak. This has been possible thanks to the move to the virtual environment of webinars and online workshops, helping to reach a wider spectrum of stakeholders. The Mid-term public workshop and the External Stakeholder Board (a panel of domain experts to advice on different technical domains of the project) meetings have largely contributed to develop a modus operandi to organise virtual events and attract varied audiences. As a proof of success, the number of InteropEHRate mailing list subscribers has increased significantly in 2020.

Finally, **Synergetic dissemination activities** are on track but will require further effort to strengthening links at the end of the project with twin projects like Smart4Health.

4. ACHIEVEMENTS ON DISSEMINATION AND COMMUNICATION

This chapter describes all the dissemination and communication activities carried out over the first two years of the project aiming at achieving the relevant objectives and reaching the appropriate stakeholders and target groups.

InteropEHRate has adopted a multi-channel dissemination and communication strategy that includes the following channels:

- InteropEHRate website
- Social media
- Mid-term public workshop
- Networking, meetings, and participation at dissemination events
- Dissemination materials
- Publications

4.1. Online portal

The InteropEHRate website was designed and launched at the beginning of the project and described in deliverables D9.10 Project Web Site **[D9.10]** D9.1 Dissemination Strategy and Action Plan [D9.1].
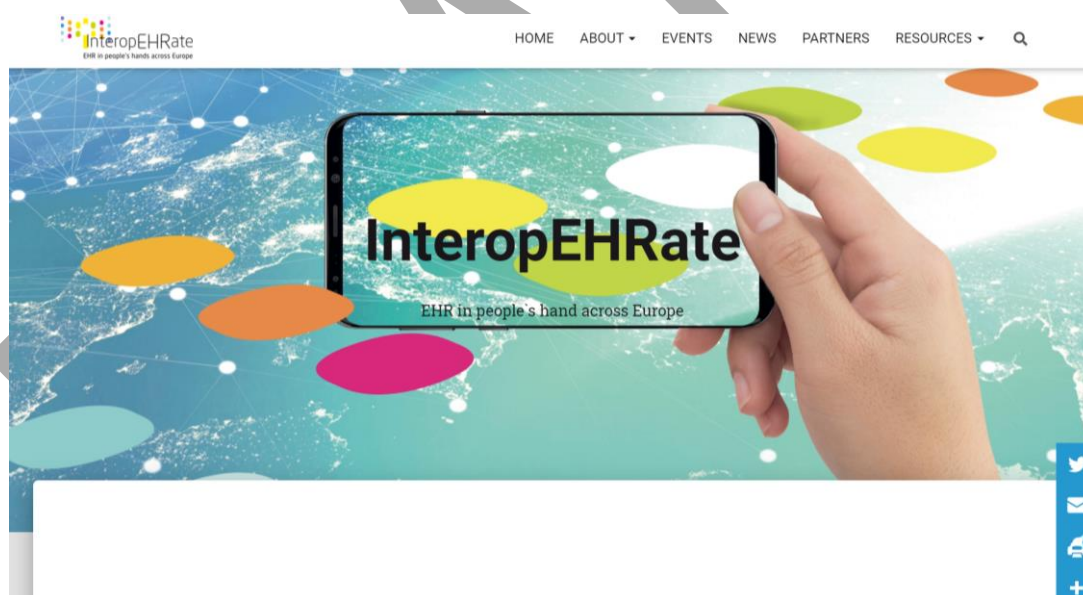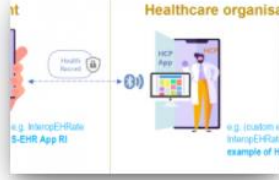
Figure 2. InteropEHRate portal homepage

The InteropEHRate portal serves as the central public focal point for information about the project and its progress. It provides information about the project and the consortium, updates on project progress through specific webpages, a calendar of events, and an archive of past dissemination activities. It also hosts resources and public deliverables, and links to social media and contact information.

The website has a main menu structured according to five top-level sections:

- **About**: Provides an overview of the project in "InteropEHRate in a nutshell" and its progress.
- **Events**: Lists chronologically InteropEHRate-related dissemination activities.
- **News**: Broadcasts relevant information related to InteropEHRate scope and objectives.

- **Partners**: Displays all 15 partners with a short description.
- **Resources**: Includes access to Publications and Deliverables produced by the project. It is organised in sections that include presentations, videos, requirements, interoperability protocols and open specifications, the design and software framework, business analysis, validation, and reports.

Figure 3. InteropEHRate news page as on 31 March 2021

A subscriber form call to action is set out for first-time visitors of the website where they can sign up to the mailing list to receive InteropEHRate updates and announcements. This system has helped to develop a first data base of InteropEHRate followers that was used to market the Mid-term Public Workshop. By 31 March 2021, the number of subscribers was 70. In addition, the website integrates a Twitter widget and social media buttons. It includes a permanent footer that provides the contact information, the EC funding statement, and the copyright notice.

4.2. News, events and resources published on the online portal

Since the launch of the website, 14 web news items, 17 events announcements and 42 resources have been published on InteropEHRate's online portal.

Web news items report on events organised or participated by the InteropEHRate consortium and partners where the project was presented and engagement with European and national stakeholder took place. Especially relevant were the news related to the organisation of the InteropEHRate Mid-term Public workshops and the progress reports after consortium meetings.

Date	News title
4 November 2020	InteropEHRate architecture, protocols and APIs – Progress documented at Mid-term public workshop Part 2
4 November 2020	InteropEHRate Scenarios and Data flows – Progress documented at Mid-term public workshop
20 July 2020	Validation of Results: Planning InteropEHRate clinical pilots
20 July 2020	D2D protocol: update July 2020
29 June 2020	InteropEHRate contributes to European Health Data Space(s): Webinar on enabling data re-use
5 May 2020	First concrete steps towards European Data Spaces and InteropEHRate contribution
25 February 2020	InteropEHRate project present in the bicentenary celebration of modern nursing Florence 2020
7 February 2020	InteropEHRate presented end-user co-creation processes at the European Parliament
6 December 2019	InteropEHRate gets in touch with international standardisation communities
27 November 2019	InteropEHRate at the EHTEL 2019 Symposium
16 November 2019	First InteropEHRate External Stakeholder Board Meeting in Berlin
30 September 2019	"Le Patient" Showcasing InteropEHRate as a solution for travelling patients
25 September 2019	InteropEHRate at HL7 Hellas
21 June 2019	ELO Network Bari where InteropEHRate was presented before an audience of national and regional competence centres

Table 4. List of news published on the website

In the events section of the portal, the following entries were published describing the events where InteropEHRate was featured and presented to different stakeholders and audiences, increasing the visibility of the project and raising interest in the European eHealth ecosystem. These dissemination activities

strengthened the links with institutions and projects and helped to attract further audiences to InteropEHRate provisional results.

Date	Events title
2 December 2020	EHTEL symposium 2020
7 December 2020	Nursing informatics Europe
17 November 2020	Interoperability in the Era of Artificial Intelligence – 10th International Conference on Interoperability for Enterprise Systems and Applications (IESA 2020)
17 November 2020	Nursing data set for patient summaries or EU her
17 November 2020	EHMA 2020 Annual Conference [Digital]
11 November 2020	Digital Health 2020 – EU on the Move (High Level Conference of EU Presidency)
10 November 2020	Webinar: Personal Data – Governance as a Game Changer
21 October 2020	InteropEHRate architecture, protocols and API's – Mid-term public workshop Part 2
20 October 2020	InteropEHRate Scenarios and Data flows – Mid-term public workshop Part 1
1 October 2020	Webinar: Deep diving into health data ecosystems for integrated care
23 September 2020	HIMSS & Health 2.0 European Digital
18 September 2020	International DiGA (Digital Therapeutics) Summit
16 September 2020	Bridging the gap between new technologies, health research and the protection of personal data: GDPR impact conference
7 September 2020	ICIC20 Virtual Conference
6 November 2019	EHTEL-ELO Network on Digital Health Implementation and InteropEHRate External Stakeholder Board Meeting
2 October 2019	European Health Forum Gastein 2019: a healthy dose of disruption? Transformative change for health and societal well-bein
16 September 2019	Webinar: Make data work for people's health! A Webinar for Pioneers in data-driven Health Innovations

Table 5. List of events published on the website

All in all, these events have contributed to raise awareness about the citizen-centred approach to health data sharing proposed by InteropEHRate and have led to increased connections with eHealth stakeholders.

Figure 4. Francesco Torelli intervention at the EHTEL Symposium 2019

Under the resources section of the website, a total of 42 resources were published during 2019 and 2020 including 9 presentations, 5 requirements, 7 EU interoperability protocols and open specifications, 16 InteropEHRate framework design and software, 1 business analysis and 4 reports. See Annex 2 for a full list of published resources.

4.3. Social media

Dissemination through social media is relevant to increase the outreach of InteropEHRate during the phases of awareness and understanding. Social media posts also increase the traffic to the online portal and act as amplifiers of the dissemination events organised by InteropEHRate.

Twitter is the main social media medium used to share project information and communicate progress, reports, upcoming events, and information about partners' activities. A total of 14 tweets and 143 retweets were produced with an overall impact of 17,445 impressions during the first two years (Table 5), 41 link clicks, 42 retweets without comments, 61 likes and 2 replies.

Impressions	2019	2020	Total (2 years)
Total	**8998**	**8447**	**17445**

Table 6. Number of Twitter impressions

A YouTube channel was also set up at the occasion of the Mid-term Public Workshop to make public the two-days event.[1]

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[1] InteropEHRate Mid-term Public Workshop | Part 1 https://www.youtube.com/watch?v=qOmGYqWxpBk
InteropEHRate Mid-term Public Workshop | Part 2 https://www.youtube.com/watch?v=0jR5CNOSnbY&t=9s

4.4. Mid-term public workshop

A project dissemination milestone was the organisation of the InteropEHRate Mid-term public workshop organised online on 20 and 21 October 2020 with the opening keynote of Dr Ceri Thomson (DG Connect). The open event targeted different audiences ranging from general public to technical communities. It was structured in two parts addressing the general and the technical audiences: Part 1 - InteropEHRate Scenarios and Data Flows; and Part 2 - InteropEHRate Architecture, Protocols and APIs. Part 1 targeted a more general audience and especially InteropEHRate end-users including European citizens, nurses and doctors, healthcare organisations and regional, national, and European health authorities. Part 2 had a more specific target audience composed of health IT managers, eHealth competence centres, Standard Development Organisations (SDOs), the technology industry, digital health apps developers and related EC-funded projects.

Participation techniques such as live polls and questions and answers sessions were used to maximise the interaction between speakers, panellists, and attendees.

A total of **115 participants** registered to attend the Mid-term public workshop representing 22 Member States of the European Union, 2 Non-EU European countries and 2 from other continents. Actual participation was of 95 attendees in total, a high 83% show-up rate. By type of organisations, **38 different institutions** external to the project were present in either session, representing health authorities, eHealth Competence centres, healthcare organisations, technology companies, and academic and research centres.

Figure 5. Mid-term workshop recordings

A full report of the presentations, discussions and results of the Mid-term public workshop was delivered and published on the website **[D9.4]**.

4.5.   Networking, meetings and participation in dissemination events

During the awareness and understanding dissemination phases, InteropEHRate aimed to make the project visible and showcase its potential for enabling the citizen approach to health data sharing. Before the COVID-19 outbreak in March 2020, physical events were organised and participated by the project partners. Since then, all networking and meetings have moved to digital which has helped to reach more participants. Relevant networking and dissemination events have been announced through InteropEHRate portal[2], social media, and other communication channels of the project partners.

Organised by partners, 12 networking and scientific events and meetings served as a platform for external dissemination.

Date	Events title	Co-/Organiser
2-3 December 2020	EHTEL Annual Symposium 2020	EHTEL
17 November 2020	Nursing data set for patient summaries and EU EHR	EFN
26-28 February 2020	IRIS 2020 Salzburg	UNIVIE
5 February 2020	Digitalisation in the Healthcare Sector: end-user co-design	EFN
3-4 December 2019	EHTEL Annual Symposium 2019	EHTEL
26 November 2019	Meeting with Smart4health - Ulrike Felt	UNIVIE
6 November 2019	ELO Network	EHTEL
28 October 2019	Webinar Make data work for people's health! Data Ecosystem Rulebook	EHTEL
11 September 2019	Coalition for vaccination	EFN
4 September 2019	Meeting with head of R&D Horizon 2020 in Lithuania	EFN
21-22 May 2019	ELO Network	EHTEL
6 February 2019	Meeting with Knowledge4Innovation	EFN

Table 7. Networking and meetings organised or co-organised by InteropEHRate partners.

During 2019 and 2020, InteropEHRate partners have participated in 52 networking events and meetings used for dissemination of the project through presentations and discussions at European and national level:

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[2] http://www.interopehrate.eu/events

- 2020-12-07 Nursing Informatics Europe
- 2020-11-19 IESA 2020
- 2020-11-13 18th eHealth Network
- 2020-11-10 4th Annual ConV2X - Health Modernization Symposium
- 2020-11-10 Hogeschool Utrecht Lecture on "Nurses influencing the EU-institutions"
- 2020-10-29 FNIB - Nursing Now
- 2020-10-27 CEN-CENELEC meeting on Artificial Intelligence
- 2020-10-21 2nd EU-China Health Summit on Medical Innovation
- 2020-10-13 EuropaBio Patient BioForum meeting
- 2020-10-02 Data saves lives Tweetchat
- 2020-09-09-30 ICIC 2020
- 2020-09-07-11 HIMSS Europe / Health 2.0
- 2020-05-27 Politico Virtual Panel Event "Managing chronic diseases in the time of coronavirus"
- 2020-05-11 EUPHA webinar - European Public Health Week - Kick-off meeting
- 2020-05-08 DG SANTE Webinar on COVID-19
- 2020-03-20 2nd eHAction Interoperability workshop for Hospital CIOs and CEOs (Webinar)
- 2020-03-09 Coalition for Vaccination
- 2020-02-13-15 International Conference on the "History of Nursing" Florence 2020
- 2020-02-19-21 Navigating IoT Architectures and Standards Days
- 2020-01-28 European Cancer Forum - Towards a New Era in Cancer Care
- 2019-12-10 Nursing and Robotics - REELER Project event
- 2019-11-27-28 Joining the Dots Conference
- 2019-11-13 Knowledge4Innovation Breakfast meeting "Horizon Europe/Innovative Europe"
- 2019-11-07 Roundtable on patient safety
- 2019-10-24 MedTech Europe Workshop 'Information as an Enabler for Sustainable Value-Driven Healthcare Delivery in Europe'
- 2019-10-03-12 Hopkins University meetings/teaching
- 2019-09-26-27 European Health Congress
- 2019-09-25 HL7 Hellas workshop
- 2019-09-23-25 AAL Forum
- 2019-09-16-19 WHO 69th Regional Committee for Europe
- 2019-09-10 Assembly of Regions Breakfast Seminar "Innovation in health care design – what have we learned?"
- 2019-09-09 EFPIA event on "Rethinking health systems: Integrated care and empowerment of primary care for people with diabetes"
- 2019-09-04 Meeting with European Commission - DG Grow
- 2019-07-30-31 WorldS4 2019
- 2019-07-04 Horizon 2020 Health Partnering Day 2019
- 2019-07-02-05 ICUFN 2019
- 2019-06-19 ICE 2019
- 2019-06-13 ERRIN Uptake of Innovation in hospitals through skill development
- 2019-06-11-12 International consultation on health data

- 2019-04-25   WHO high level event on Vaccination Challenge
- 2019-04-10   13th European Patients' Rights - mono-stakeholder event focused on "Digital Health and Personalized Medicine".
- 2019-03-28   Stakeholders' meeting on Antimicrobial Resistance (AMR)
- 2019-03-19-25   Hopkins University meetings/teaching
- 2019-03-21   DigitalHealthEurope Blueprint Workshop
- 2019-03-18   Seminar on long-term care (LTC)
- 2019-03-04   Coalition for Vaccination
- 2019-02-26   County Council of the Norwegian Nurses Organization Akershus at the EFN Office
- 2019-02-20   PACT meeting "EU collaboration in health for better access"
- 2019-02-01   International Association of Trusted Blockchain Applications (INATBA) meeting
- 2019-01-29   Horizon Europe, Cluster 1 'Health', Brussels
- 2019-01-22   EAMSP roundtable on E-health: innovative digital pharmacy solutions
- 2019-01-10   Panel for the Future of Science and Technology (STOA) meeting (Innovative Solutions for Research in Healthcare)

Meetings and activities with the External Stakeholder Board and related projects

Besides the Mid-term public workshops and the networking meetings, InteropEHRate has organised two External Stakeholder Board (ESB) meetings on 7 November 2019 in Berlin and on 24 November 2020 online. The ESB is composed by experts in different eHealth fields invited by the Consortium to receive qualitative feedback about the project progress and results. The first ESB meeting presented the project objectives and approach, architecture, protocols and mapping tools, using live demos. The second ESB meeting featured technical adoption of InteropEHRate protocols. Discussions with ESB members have helped to gain qualitative insights in different areas and define the agenda for forthcoming ESB meetings (see Annex 3 for a summary of both sessions, insights, and next steps).

Connections with the IHAN Fair Data project (Sitra, Finland) and the MedMej project (Nictiz, The Netherlands) have been developed as part of the workstream to define the InteropEHRate governance model. These links have entailed the incorporation of representatives from both institutions and projects in the ESB and their active participation in the second meeting.

Alongside Sitra, the consortium has organised a workshop on health data ecosystem development with all the partners on 18 September 2020. This workshop aimed to develop a health data ecosystem supported by the extended use of InteropEHRate technical solutions, focusing on citizens as end-user in the healthcare innovation ecosystem. The exercise helped to form a clear idea of the common goals and challenges in the healthcare innovation ecosystem, identify the end-user problem and create a shared value proposition for citizens. Needed partners and entities in this ecosystem were identified as well as the roles and value exchanges following the principles of the Fair Data Economy[3].

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[3] Fair Data Economy: https://www.sitra.fi/en/topics/fair-data-economy/#what-is-it-about
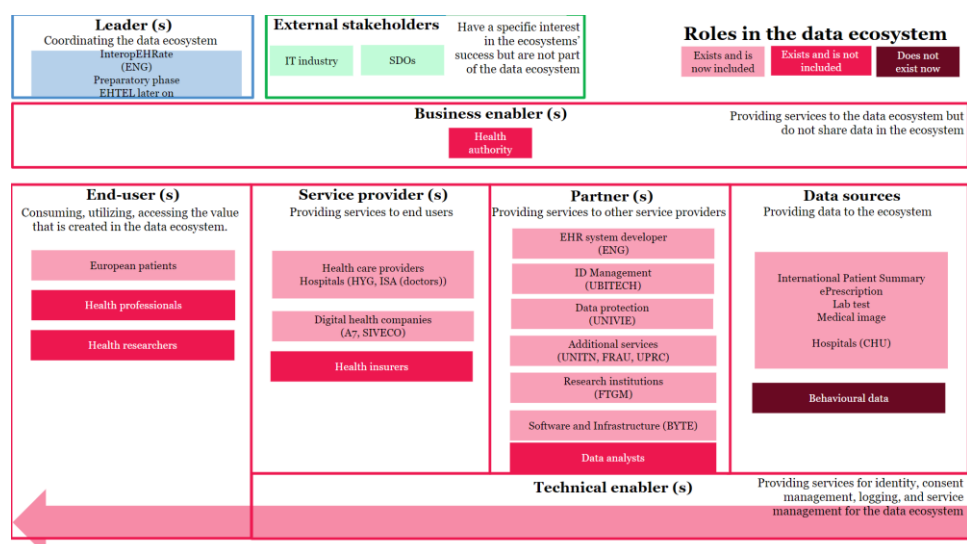
Figure 6. Canvas of roles in a health data ecosystem

4.6. Dissemination materials

A first version of the project flyer and accompanying poster were designed to support the project dissemination at physical meetings and online presentations **[D9.3]**.

The flyer includes visuals of the three scenarios of health data sharing (healthcare access, emergency access and research access) that have been used to enhance the presentations and convey clear InteropEHRate-related messages. Figure 6 displays the flyer cover and the scenario visuals.

Figure 7. Project flyer and scenario visuals

A paper-based version of the flyer was produced and distributed in physical meetings like the EHTEL 2019 Symposium before March 2020.

For dissemination in Greece, a translation into Greek complemented the original English version and it is also available in the resources section **[D9.3]**.

4.7. Publications

Scientific dissemination is a dissemination goal of InteropEHRate as a Research and Innovation action both through technical and non-technical publications. During the period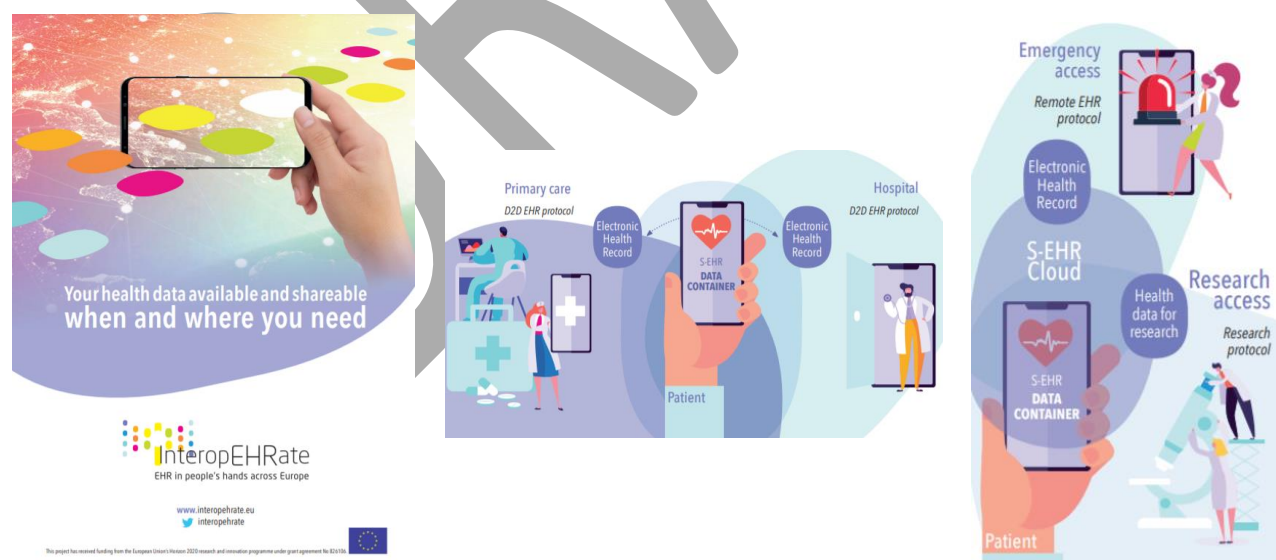 2019-2020, 8 scientific publications and 9 non-technical publications were produced by collaborating project partners describing different technical aspects of InteropEHRate solutions. While all scientific publications were released in English, non-technical publications were also published in Italian and Spanish.

Scientific and technical publications

- A Secure Protocol for Managing and Sharing Personal Healthcare Data. (UPRC and UBITECH, 2020) https://pubmed.ncbi.nlm.nih.gov/33227747/
- Improving Health Information Exchange through Wireless Communication Protocols. (UPRC and ENG, 2020) https://ieeexplore.ieee.org/document/9253374
- Health Record Index: Secure Access of Cloud-stored Healthcare Data. (UPRC, 2020) https://pubmed.ncbi.nlm.nih.gov/32604641/
- A Comparative Study of Short-Range Wireless Communication Technologies for Health Information Exchange. (UPRC, 2020) https://ieeexplore.ieee.org/document/9179478
- A Semantic Similarity Evaluation for Healthcare Ontologies Matching to HL7 FHIR Resources. (UPRC, 2020) https://pubmed.ncbi.nlm.nih.gov/32570337/
- Identification of Bluetooth-Enabled IoT Devices Through Syntactic Similarity Techniques. (UPRC, 2019) https://ieeexplore.ieee.org/abstract/document/8806153
- IoT Devices Recognition through Object Detection and Classification Techniques. (UPRC, 2019) https://ieeexplore.ieee.org/document/8903926
- Delivering Reliability of Data Sources in IoT Healthcare Ecosystems. (UPRC, 2019) https://ieeexplore.ieee.org/document/8981527

Non-technical publications

- Bringing health data back to people. https://datasaveslives.eu/blog/bringing-health-data-back-to-people112020
- Digitalising the healthcare ecosystem in the European Union. https://www.healtheuropa.eu/digitalising-the-healthcare-ecosystem-in-the-european-union/100949/
- EFN article on "Digitalising the Healthcare Ecosystem in the EU". http://www.efnweb.be/wp-content/uploads/H13-EFN.pdf
- El paciente será clave en la atención sanitaria transfronteriza. http://gestionclinicavarela.blogspot.com/2020/01/el-paciente-como-agente-clave-para-el.html#more
- Imagining 2029: Looking forward to health and care over the next decade. https://ec.europa.eu/eip/ageing/news/imagining-2029-looking-forward-health-and-care-over-next-decade_en

- First electronic health records of patients exchanged between countries. http://www.efnweb.be/wp-content/uploads/EFN-Update-October-November-December-2019.pdf
- New ways for managing health data. https://www.eng.it/en/case-studies/nuove-modalita'-gestione-dati-sanitari
- Nuove modalità di gestione per i dati sanitari. https://www.eng.it/case-studies/nuove-modalita'-gestione-dati-sanitari
- Dall'Europa, politiche & ricerca in campo sanitario e digitalizzazione. http://download.apre.it/APRE_Magazine_N.10.pdf

Project partners engaged also in disseminating the Project through their own channels via press releases, web news and newsletters, spreading the word of InteropEHRate to European, national and regional networks. In total, 51 dissemination publications were produced in English, French, Italian, German, Greek and Romanian. See Annex 4 for a full list of these publications.

5. CONCLUSIONS AND NEXT STEPS

In the first two year of the project lifetime the objectives of the Dissemination Strategy and Action Plan have been achieved. The Awareness dissemination phase ended in 2019 and the Understanding dissemination phased started at the beginning of 2020 and will last until the end of the project concurrently with the Action dissemination phase.

The visual identity, coordination mechanisms, the project website and social media channels, dissemination materials and a monitoring system to assess progress in dissemination activities have been set out in 2019 and implemented during the first two years of the project. In a joint dissemination effort, the project partners have been able to make project visible at European, national, and regional level through different types of publications distributed by different channels to varied audiences.

In October 2020, the Mid-term public workshop has meant a cornerstone in the visibility of the project and has tested the attractiveness of the project approach and preliminary results. Together with the active involvement of the members of the External Stakeholder Board, it sets the scene for an intense dissemination and communication activity that will bear fruit at the end of the project, and specially at the final conference in 2022.

Despite the disruption caused by the outbreak of the COVID-19 pandemic, networking, meetings, and participation in dissemination activities have continued and intensified at the end of 2020. Moving towards a virtual dissemination environment has facilitated to increase the outreach of the project to new stakeholders.

Impact indicators measured in the dissemination scorecard showed an overall achievement of the targets set at the beginning of the project. Almost all KPIs have been more than achieved. However, further efforts are needed in social media communications, dissemination of the project pilot activities and synergetic dissemination activities.

Starting in January 2021, the Action dissemination phase will focus on stakeholder engagement aiming at reaching citizens, the entire health ecosystem, health authorities, SMEs, and start-ups. Key milestones will be the production of position papers, joint communication actions and the final conference. To achieve these goals, the project plan foresees a series of actions that will define four deliverables: D9.5 Final conference, D9.7 Dissemination and Communication Report V2, D9.8 Report on stakeholder group activities, and D9.9 Project Flyer V2. Some initiatives such as the development of a project newsletter, a series of white papers, and a specific website subsection for the developers' community have started to be discussed within the Consortium at the end of this reporting period.

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- **[D9.2]** InteropEHRate Consortium, Project Branding, 2019. https://www.interopehrate.eu/wp-content/uploads/2019/09/InteropEHRate-D9.1-Dissemination-strategy-and-action-plan.pdf

- **[D9.3]** InteropEHRate Consortium, Project Flyer V1, 2019. https://www.interopehrate.eu/wp-content/uploads/2019/11/InteropEHRate-D9.3-Project-Flyer-v1.pdf (English version); https://www.interopehrate.eu/wp-content/uploads/2020/03/InteropEHRate-D9.3-Project-Flyer-Greek-version.pdf (Greek version)

- **[D9.4]** InteropEHRate Consortium, Mid-term public workshop, 2020 www.interopehrate.eu/resources/#dels

- **[D9.10]** InteropEHRate Consortium, D9.10 Project Web Site, 2019. www.interopehrate.eu/resources/#dels

Annex 1. Web Editorial Committee

Partner	Members of the Web Editorial Committee
A7	Lucie Keunen and Vicent Keunen
BYTE	Sotiris Athanassopoulos, Matina Rizou and Chrysostomos Symvoulidis
CHU	Patrick Duflot and Marcela Chavez
EFN	Paul de Raeve and Juan Fernandez
EHTEL	Marc Lange, Stephan Schug, Tino Marti and Luc Nicolas
ENG	Matteo Melideo, Francesco Torelli and Laura Pucci
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UNIVIE	Marie-Catherine Wagner, Katerina Polychronopoulos and Tima Anwana
UPRC	Dimos Kyriazis, Thanos Kiourtis and Argyro Mavrogiorgou

Annex 2. Resources published

Under the resources section of the website, the following documents and reports were made public during 2019 and 2020:

- Presentations (5):
  - Midterm Public Workshop October 2020 – Part 2 InteropEHRate Architecture, protocols and APIs
  - Midterm Public Workshop October 2020 – Part 1 InteropEHRate Scenarios and Data flows
  - InteropEHRate project overview presentation
  - InteropEHRate presentation at the HL7 Hellas meeting
  - InteropEHRate ESB Meeting, November 2019
- Other presentations (4)
  - Towards an incremental approach to let citizens master the access to and the use of their health data via Interoperable EHRs
  - InteropEHRate project flyer – 1st version
  - InteropEHRate External Stakeholder Board – Member list (Biographies and social media)
  - InteropEHRate project flyer in Greek – 1st version
- Deliverables – Requirements (5)
  - D6.1 – Software requirements and architecture specification of a S-EHR – V1
  - D2.1 – User Requirements for cross-border HR integration – V1
  - D5.1 – Software requirements specification of an integrated EHR web app for HCP – V1
  - D2.2 – User Requirements for cross-border HR integration-v2
  - D6.2-Software requirements and architecture specification of a S-EHR – V2
- Deliverables - EU interoperability protocols and open specifications (7)
  - D2.4 – InteropEHRate Architecture – V1
  - D3.3 – Specification of remote and D2D IDM mechanisms for HRs Interoperability – V1
  - D3.7 – Specification of consent management and decentralized authorization mechanisms for HR Exchange – V1
  - D2.7 – FHIR Profile for EHR interoperability – V1
  - D3.1-Specification of S-EHR mobile privacy and security conformance levels – V1
  - D3.5 -Specification of data encryption mechanisms for mobile and web applications – V1
  - D4.2-Specification of remote and D2D protocol and APIs for HR exchange -V2
- Deliverables - InteropEHRate framework – Design (9)
  - D2.4 – InteropEHRate Architecture – V1
  - D6.4 – Design of a S-EHR mobile app – V1
  - D4.1 – Specification of remote and D2D protocol and APIs for HR exchange – V1
  - D3.9 – Design of libraries for HR security and privacy services – V1
  - D5.4 – Design of an integrated EHR web app for HCP – V1
  - D5.7 – Design of the data integration platform – V1
  - D5.9 – Design data mapper and converter to FHIR – V1
  - D4.4 – Design of libraries for remote and D2D HR exchange – V1
  - D6.5-Design of a S-EHR mobile app – v2
- Deliverables - InteropEHRate framework – Software (7)

- o D3.12-Libraries for remote and D2D IDM in mobile and web applications – V1
- o D3.16-Libraries for consent management and decentralized authorization mechanisms for HR Exchange – V1
- o D4.12- Libraries for remote and D2D HR exchange – V1
- o D5.13-HCP Web App – V1
- o D5.16 – Data integration platform for healthcare professionals – V1
- o D5.18 – Library and tool for data mapping and conversion – v1
- o D6.9 – S-EHR mobile app – V1
- Deliverables – Business analysis (1)
  - o D8.1 – Market Competitor Technology Watch – V1
- Deliverables – Reports (4)
  - o D1.7 – Data Management Plan – V1
  - o D9.1 – Dissemination Strategy and Action Plan
  - o D2.10 – Development and Testing environment
  - o D9.3 – Project Flyer Version 1

Annex 3. Summary of External Stakeholder Board meetings

First ESB Meeting – Berlin, 7 November 2019

At its first External Stakeholder Board (ESB) meeting, the consortium welcomed the nominated ESB members on site: Vesa Jormanainen (THL, Finland), Christof Geßner (gematik, Germany), Frank Oemig (HL7 and IHE, Germany), Andreas Grode (gematik, Germany).

The InteropEHRate project coordination and work package leaders provided the external stakeholders an overview on the digital health ecosystem in Europe and a comprehensive presentation on: (1) architecture and framework; (2) scenarios and users requirements; (3) health records interoperability protocols; and (4) security and privacy protocols. A live demonstration of patients' and health professional Apps rounded off the presentations. Invited stakeholders commented about the interoperability challenges faced in different countries and the need to adopt international standards.

This set of slideshows on the InteropEHRate project technical solutions and achievements ten months after its starting is available in the "Resources" section of the website.

Second ESB Meeting – online, 24 November 2020

The Second External Stakeholder Board meeting of InteropEHRate convened representatives of both the IT industry and implementation agencies of the public sector – some of them being also active in standardisation – to reflect with the consortium on what needs to be done to facilitate the technical adoption of the open specifications developed by the project.

After a short status-quo presentation, the meeting reflected on the Legal, Operations, Organizational, Semantics and Technical (LOOST) interoperability model and the role of implementors in adopting interoperability standards.

LOOST interoperability enablers to integrate InteropEHRate outputs into the digital health infrastructure of those organisations seeking to make personal health data available for download on smartphone and sharable under citizens' control. Standardising data and protocols and enabling workflows to interoperate were highlighted as two different processes. Therefore, the question for InteropEHRate to consider was: "Should the project consider other aspects of the LOOST interoperability model than the semantic and technical ones as well as the security and privacy elements of the legal one?".

It was also underlined during the conversation that if FHIR is successful nowadays, it partly thanks to a massive involvement of implementors. The question for InteropEHRate to consider is therefore "How to engage implementors and developers of open-source communities to use the project outputs?"

Thanks to the participation of NICTIZ in the meeting, the MedMij Trust scheme[4] was shown as potential use case for InteropEHRate. It was made clear that the compliance of the IEHR specifications to the MedMij specifications should be certified in order for MedMij to consider adopting them. NICTIZ offered support to help InteropEHRate assessing the MedMij requirements.

MedMij was again used as a potential use case when reflecting on incentivizing citizens in being control of their health data. Indeed, with MedMij, each citizen can obtain freely an app paid for by the government.

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[4] MedMij is a national brokerage system: developers take the data from the general practitioners' offices and provide them to the citizens.

The [Netherlands Patient Federation](#) was presented as a powerful actor to also incentivize the population. It was observed that in the Netherlands, no mechanism was put in place for incentivizing the development of apps and other digital health services.

It was also explained that with MedMij, citizen's identity was still a legal issue: the national ID cannot be used to request data from hospital. It is the responsibility of the hospital to do the mapping. This may be something for InteropEHRate to consider since eIDAS is an element of the InteropEHRate architecture.

Some general observations were also made about digital literacy issues as well as about the diversity that exist among Member States about data governance.

Qualitative insights and agenda themes for forthcoming meetings

Discussions with ESB members provided the following insights:

- Providing means to patients to be in control of their data is a great policy objective but will not be mainstream soon as there are no strong incentives yet in place. The work of InteropEHRate has value as a demonstrator to support this policy objective. However, it might have limited practical impact on data sharing for healthcare because most of healthcare is delivered locally and often requires specific data. Data sharing in a travelling context has much more limited requirements.
- Although the technology solution is scalable, "EHR – Smartphone – EHR" and "EHR – Smartphone – Research node" data mapping is a practical limitation to scalability. Data mapping solutions exists but are still very limited. Hence it still requires a lot of work from those willing to implement the InteropEHRate protocols. Furthermore, the limitation will be more impactful for research since a large amount of data from each patient is often needed.
- On the RDS protocol, although the value propositions identified in the briefing note are valid for research centres, solutions for decentralised clinical trials exist on the market although they remain hospital centric. What InteropEHRate is offering to them is an open-source alternative for those seeking for a more patient-centric approach. Solutions for decentralised clinical trials which are fully virtual does not exist yet in Europe but start to emerge in US. RDS can therefore be presented as a demonstrator for this type of mid-term solutions. However, to give value to research centres, a large number of patients needs to adopt it (i.e., "millions of patients"). For this type of solution to take up however, one should however further elaborate on what would be the value for patients, what will they get back from their data donation.

Agenda themes for forthcoming meetings

Next ESB meetings should address the following themes:

- Crowdsourcing platforms for research data in healthcare to further explore value for patients.
- InteropEHRate pilots as policy demonstrators and how to enable them.
- Impact of the limitations detected on the InteropEHRate approach to exploitation.

Annex 4. Press releases, web news and newsletters

Published in 2020:

- EFN Website - Homepage "EFN invited to High-Level Conference on Digital Health "EU on the Move". http://www.efnweb.be/?p=12958
- The first review of the European Project InteropEHRate was completed successfully. https://www.iatronet.gr/eidiseis-nea/perithalpsi-asfalisi/news/55829/epityxis-i-prwti-axiologisi-toy-evrwpaikoy-programmatos-interopehrate.html
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- EFN DG Sante event on COVID19 - EFN Social Media (Facebook/Twitter/Instagram). See EFN Social Media on 08/05/2020 - Key words: #COVID19 #Togetherwecan #EUHPP #nurses2020 #interopehrate
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- EFN Website - Core Business "Activity Report 2019".
- EFN Press Release on High-Level meeting at the European Parliament. http://www.efnweb.be/wp-content/uploads/EFN-Press-Release-High-Level-meeting-at-the-European-Parliament.pdf
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- A7 Newsletter. Announcement of IEHR workshops.

Published in 2019:

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  http://www.efnweb.be/?p=11918
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  http://www.efnweb.be/?p=11759
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