



Direktoratet for
e-helse

Standardiseringsutvalget for internasjonale e-helsestandarder

Konstituerende møte 2020-06-12



Direktoratet for
e-helse

Sak 01/20

Hvordan jobber direktoratet med normering

Direktoratet for e-helse: Et enklere helse-Norge

Vår **visjon**

ET ENKLERE
HELSE-NORGE



Vårt **samfunnsoppdrag**

Bidra til én helhetlig og kunnskapsbasert helse- og omsorgstjeneste som utnytter de teknologiske mulighetene og involverer innbyggere

Våre **oppgaver**

Ha myndighets- og premiss-giverrollen på e-helseområdet

Sørge for nasjonal styring og koordinering

Realisere og forvalte digitale løsninger

Styrke myndighets- rollen

Gradvis bygge ned leverandør- rollen

Våre **verdier**

Lærende – Oppriktig – Samlende

Myndighetsoppgaver – internasjonal standardisering

Premissgiver

Etablere rammer og retning for utviklingen på e-helseområdet

- Utarbeider målbilder og veikart
- Utvikler normerende produkter



Fagorgan

Følge med på forhold som kan påvirke utviklingen av e-helse

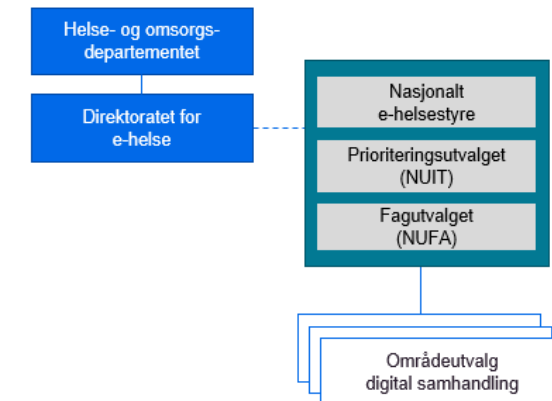
- Utarbeider faglige beslutningsgrunnlag
- Gir råd og veiledning
- Følger med på utviklingen innen internasjonalt standardiseringsarbeid, koordinert med aktører i sektoren





Pådriver

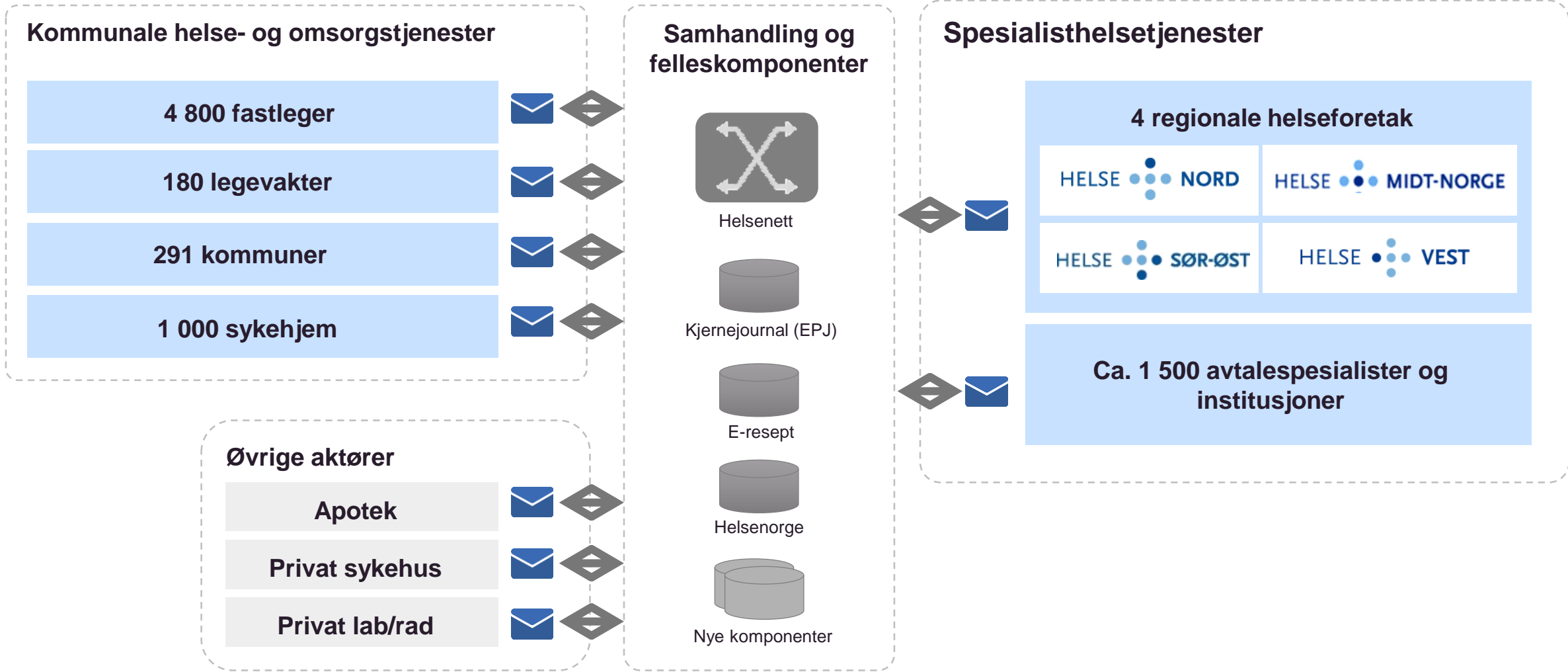
Legge til rette for at helse- og omsorgssektoren opptrer samordnet og i henhold til nasjonale strategier

- Pådriver for bruk av standarder
- Nasjonal styringsmodell for e-helse



Aktører og systemer

Hovedregelen er meldingsutveksling  ↔ 



OECD Health in the 21st Century



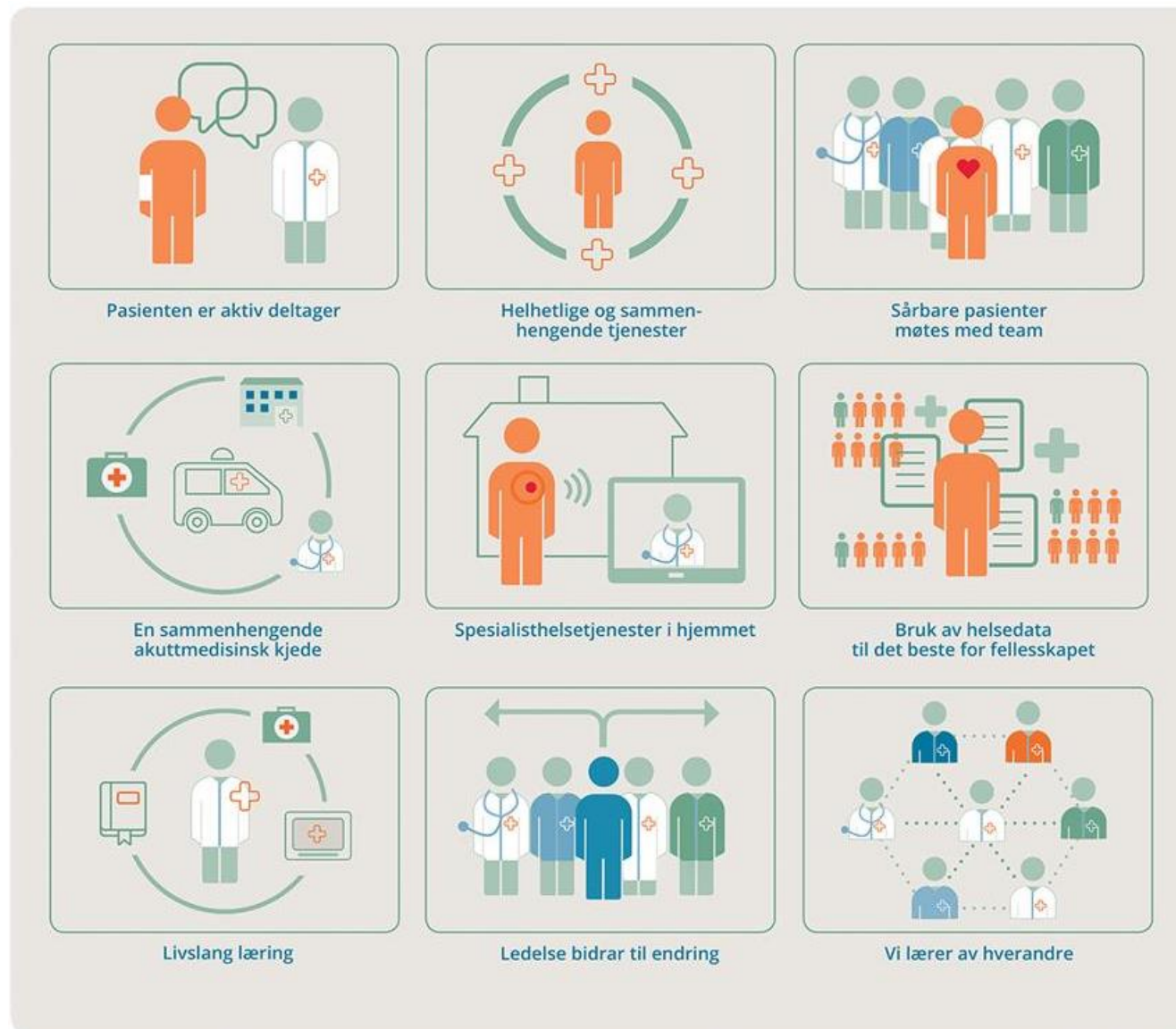
“Health lags far behind other sectors in harnessing the potential of data and digital technology”

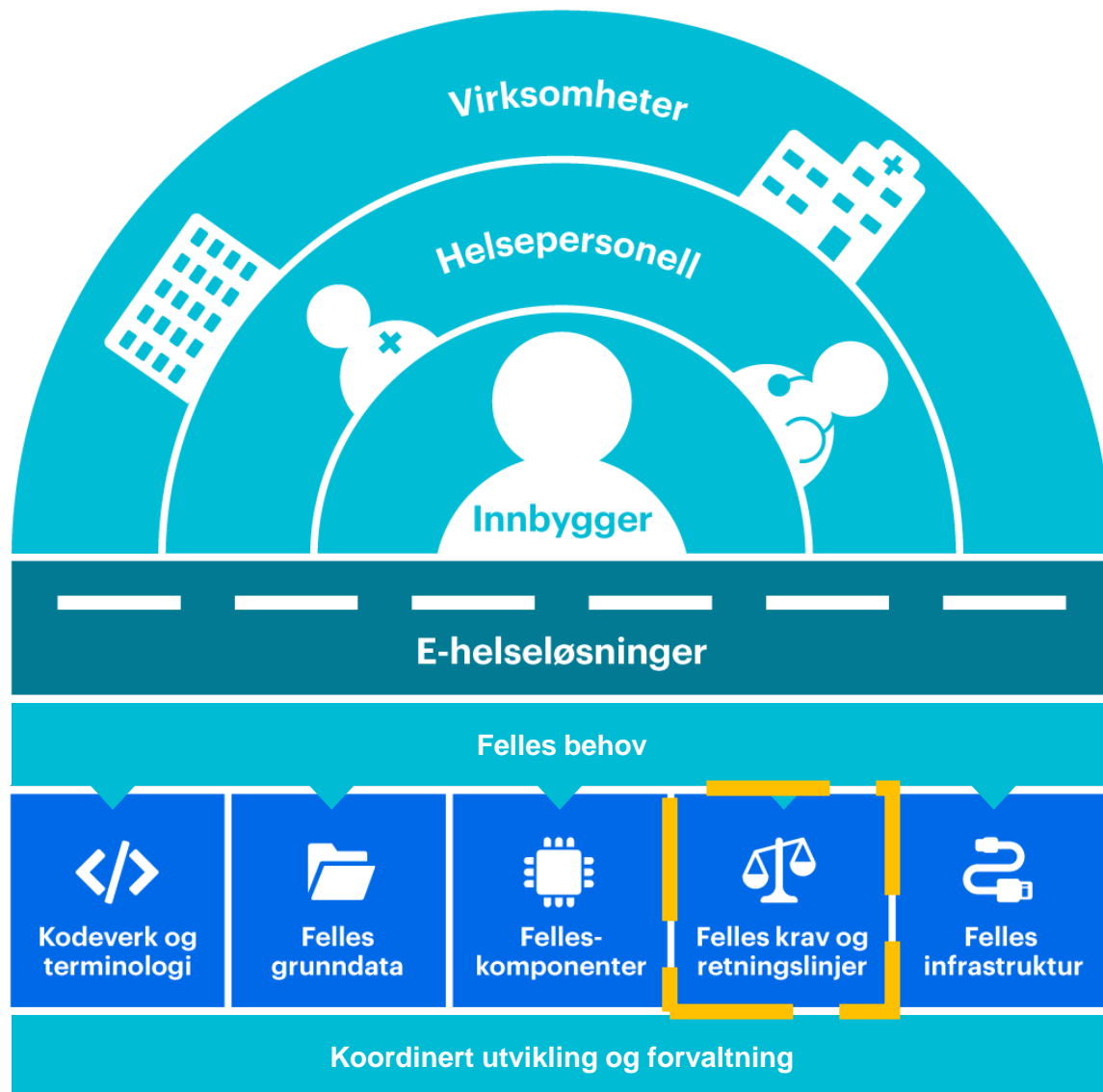
<http://www.oecd.org/health/health-in-the-21st-century-e3b23f8e-en.htm>

Nasjonal helse- og sykehusplan 2020-2023



<https://www.regjeringen.no/no/dokumenter/meld.-st.-7-20192020/id2678667/>





E-helsestandarder inngår som en sentral del av [Felles grunnmur for digitale tjenester](#)

[Nasjonal e-helsestrategi og handlingsplan](#) beskriver viktigheten av at standardiseringsarbeidet skal ta utgangspunkt i internasjonale standarder

Relevante internasjonale organisasjoner



Digitaliseringsdirektoratet
Norwegian Digitalisation Agency





Direktoratet for e-helse skal:
vurdere, anbefale og tilpasse
 internasjonale standarder til norske forhold



Digitaliseringsdirektoratet
 Norwegian Digitalisation Agency

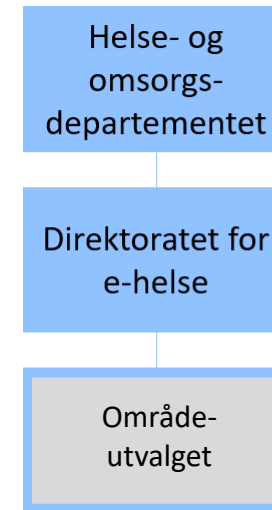
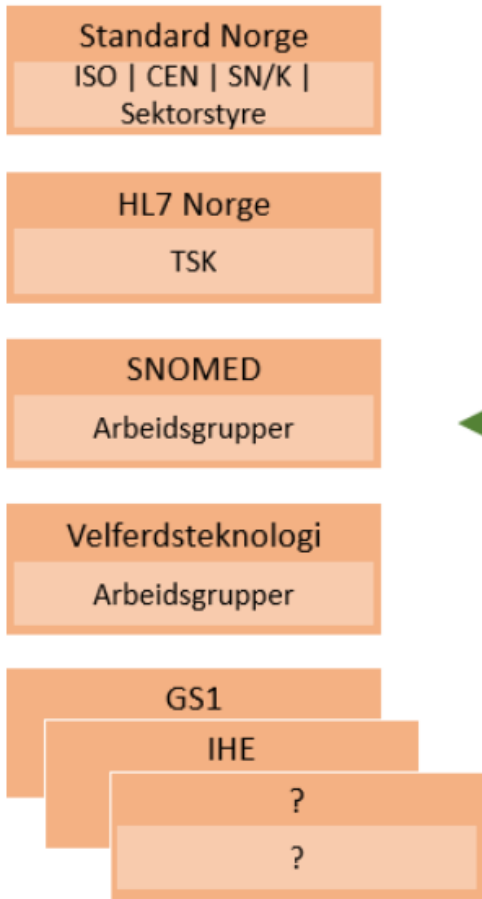


Forankring i sektor

- 08.10.18: Produktstyret for e-helsestandarder
- 30.01.19: NUFA
- 13.02.19: NUIT
- 22.03.19: NEHS

*«**Viktig å følge med på det internasjonale arbeidet** og ta i bruk internasjonale standarder. Aktører i sektoren ønsker å få invitasjon til å delta, det pekes også på at en slik deltakelse vil kreve ressurser fra aktørene»*

*«Nasjonalt e-helsestyre mener **en felles komite for standardiseringsarbeidet kan bidra positivt i prioriteringsarbeidet** og at innføring av nye standarder gjøres på en fornuftig måte. Tiltaket støttes og medlemmene vil bidra med å få utpekt ressurser fra aktørene til referansekomiteen.»*



 Nordic Council of Ministers



Formål

- Bidra til koordinering og utvikling av internasjonale standarder i Norge
- Styrke aktørenes mulighet til å påvirke

Oppgaver

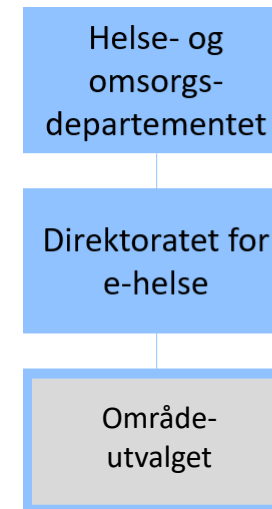
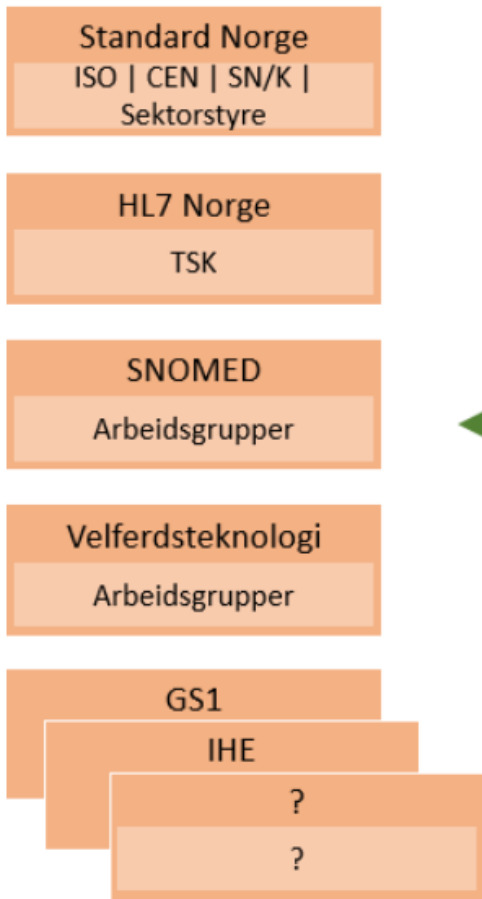
- Helhetlig vurdering på tvers av standardiseringsorganisasjoner
- Anbefale internasjonale standarder som bør normeres
- Anbefale hvilke internasjonale aktiviteter Norge bør delta i

Sammensetning

- Leverandørrepresentanter
- Standardiseringsorganisasjoner
- Norsk helsenett
- Regionale helseforetak
- KS/kommuner
- Helsedirektoratet
- Folkehelseinstituttet
- Statens legemiddelverk
- Legeforeningen
- Sykepleierforbundet
- m.fl.



- Mellomleder, produkteier, prosjektleder eller bestillerfunksjon
- God forankring i egen organisasjon
- Mulighet til å delegerer oppgaver til rett fagkompetanse



Tema

Overordnet og strategisk nivå

Eksempler

- Prioritering av aktiviteter knyttet til ISO
- Tilnærming til EU
- Områder der det er behov for normering/aktiviteter/arbeidsgrupper
- Behov knyttet til å ta i bruk standarder

Myndighetsoppgaver – internasjonal standardisering

Premissgiver

Etablere rammer og retning for utviklingen på e-helseområdet

- Utarbeider målbilder og veikart
- Utvikler normerende produkter



Fagorgan

Følge med på forhold som kan påvirke utviklingen av e-helse

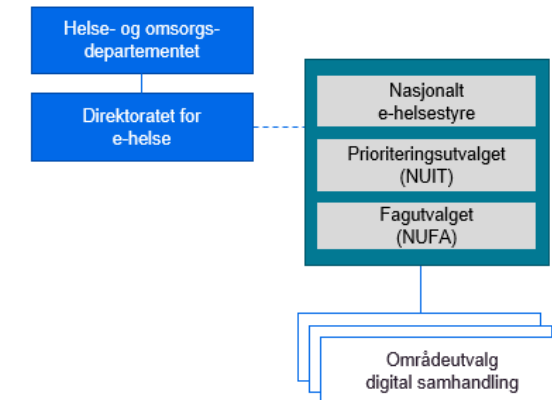
- Utarbeider faglige beslutningsgrunnlag
- Gir råd og veiledning
- Følger med på utviklingen innen internasjonalt standardiseringsarbeid, koordinert med aktører i sektoren



Pådriver

Legge til rette for at helse- og omsorgssektoren opptrer samordnet og i henhold til nasjonale strategier

- Pådriver for bruk av standarder
- Nasjonal styringsmodell for e-helse





Direktoratet for
e-helse

Sak 02/20

Aktiviteter ved ISO

ISO → helseinformatikk

- 300 tekniske komitéer
- 24 tekniske komitéer innenfor helse
- 1 teknisk komité for helseinformatikk

TECHNICAL COMMITTEES

ISO/TC 215

Health informatics

199

PUBLISHED ISO
STANDARDS *

56

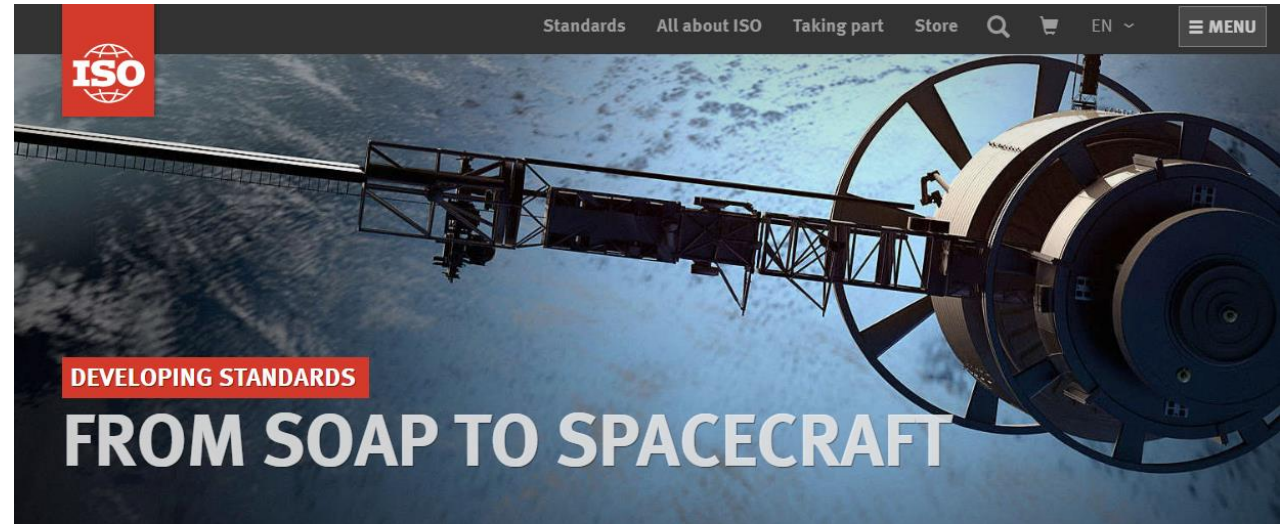
ISO STANDARDS UNDER
DEVELOPMENT *

29

PARTICIPATING
MEMBERS

33

OBSERVING MEMBERS



Source: iso.org

REFERENCE ↓	TITLE	TYPE
ISO/TC 215/SC 1	Genomics Informatics	Sub committee
ISO/TC 215/AHG 2 ⓘ	Application of AI technologies in health informatics	Working group
ISO/TC 215/AHG 3 ⓘ	Health Information Governance (HlthInfoGov)	Working group
ISO/TC 215/CAG 1 ⓘ	Executive council, harmonization and operations	Working group
ISO/TC 215/CAG 02 ⓘ	Advisory group	Working group
ISO/TC 215/JWG 1 ⓘ	Joint ISO/TC 215 - ISO/TC 249 WG: Traditional Chinese Medicine (Informatics)	Working group
ISO/TC 215/JWG 7 ⓘ	Joint ISO/TC 215 - IEC/SC 62A WG: Safe, effective and secure health software and health IT systems, including those incorporating medical devices	Working group
ISO/TC 215/TF 1 ⓘ	Task Force on Quantities and Units to be used in e-health	Working group
ISO/TC 215/TF 2 ⓘ	Traditional Medicines Task Force (TMsTF)	Working group
ISO/TC 215/TF 3 ⓘ	Outreach & Communications	Working group
ISO/TC 215/TF 4 ⓘ	Personalized Digital Health Informatics	Working group
ISO/TC 215/WG 1 ⓘ	Architecture, Frameworks and Models	Working group
ISO/TC 215/WG 2 ⓘ	Systems and Device Interoperability	Working group
ISO/TC 215/WG 3 ⓘ	Semantic content	Working group
ISO/TC 215/WG 4 ⓘ	Security, Safety and Privacy	Working group
ISO/TC 215/WG 6 ⓘ	Pharmacy and medicines business	Working group
ISO/TC 215/WG 10 ⓘ	Traditional Medicines	Working group

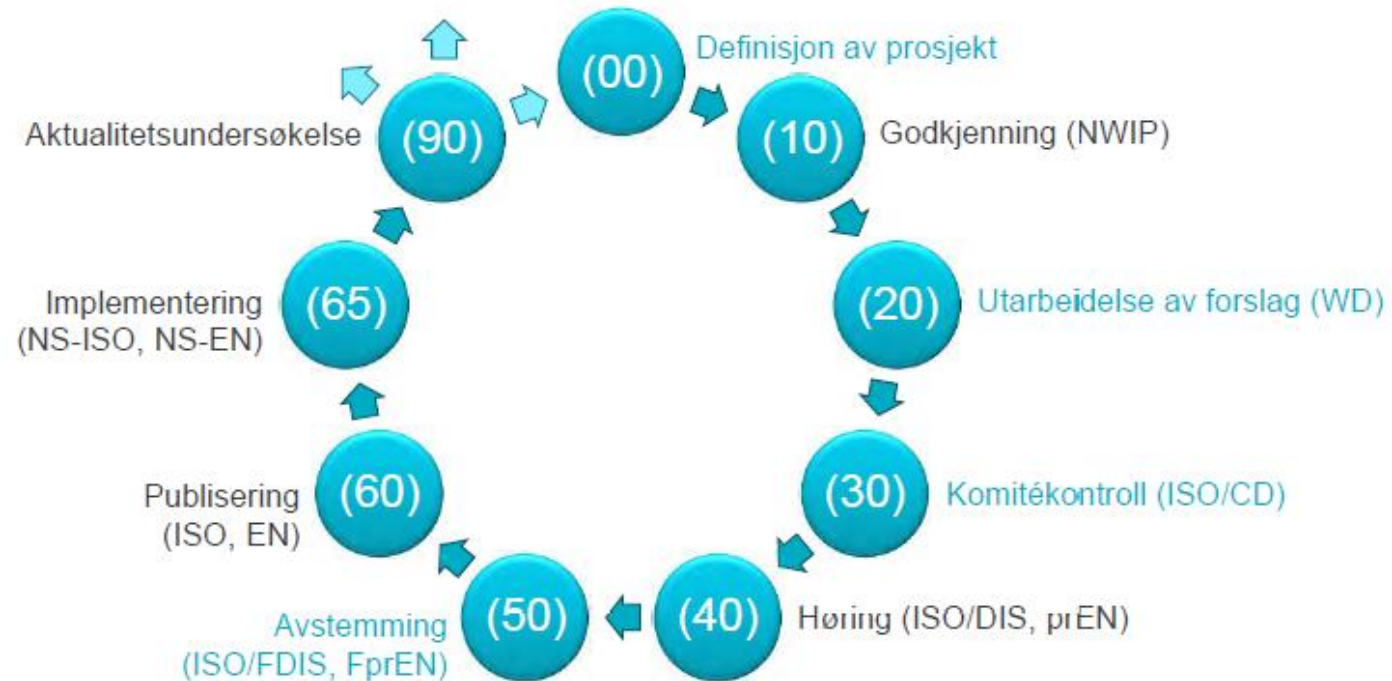
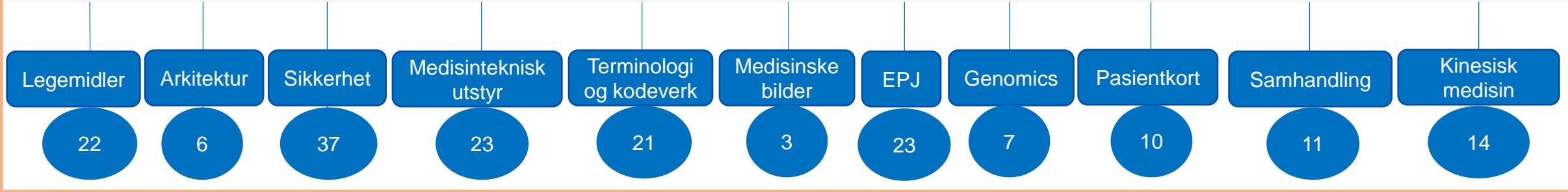
TECHNICAL COMMITTEES
ISO/TC 215
Health informatics

199
PUBLISHED ISO
STANDARDS*

56
ISO STANDARDS UNDER
DEVELOPMENT*

29
PARTICIPATING
MEMBERS

33
OBSERVING MEMBERS



Health and Wellness apps

- Hva er en helseapp?
- Hvem bruker helseapp fremover?
- Hvordan jobber forskjellige land med helseapp?
 - French mHealth Good Practice Guidelines
 - German Mobile Health Assessment Criteria
 - Andalusian App Recommendations
 - U.K. PAS277 Quality Criteria
 - Finland PHR Cert Criteria
 - EU initiative
- prCEN ISO/TS 82304-2

HEALTH AND WELLNESS APPS



What makes an health app efficient and reliable

The EU and many national authorities start initiatives to support COVID lockdown exit strategies through standards-compliant mobile data and apps. The expert group realizes the relevance of its work on EN-ISO TS 82304-2 Health Informatics – Part 2 Health and wellness apps - Quality and reliability. Herewith we share with you a preview of the working draft: the chapter on the quality criteria. Please note that this is a working draft and we are still developing it and including a conformity assessment procedure. If you are interested to jointly improve the document please contact NEN or your national standardization body: [>> Read the document](#)

There are thousands Health and Wellness apps: to quit with smoking, to track sporting activities, to guide lifestyle change. Without any medical knowledge these apps can be downloaded and used. However there is also concern about the safety and reliability of many of these apps.

Building upon the existing international initiatives and ISO and IEC standards, the European Commission has commissioned the development of a Technical Specification for Quality and Reliability Requirements for Health and Wellness Apps.

The objective of the Technical Specification is to define quality and reliability criteria which support app developers to design and users of apps to select better apps. Compliance to the criteria results in a score that is reflected in a label, inspired by the Energy label used in Europe and elsewhere.

CEN, CENELEC, ISO and IEC jointly work on the TS. The project team includes experts from 14 countries: Australia, Belgium, China, Finland, France, Germany, Ireland, Italy, Japan, Netherlands, Nigeria, Sweden, United Kingdom and United States.

Interest to participate?

The project started in 2019. The draft text on the checklist has been tested by a multinational Delphi panel. The Delphi on assessment and interpretation is ongoing. At all stages the expert group welcomes comments to jointly improve the Technical Specification.

Anybody with an interest in the development and maintenance of the quality and reliability criteria can participate by providing comments or proposing dissemination-, acceptance or implementation activities.

This project is especially interesting for:

- ✓ Care professionals who want to know which apps are useful and reliable to be used in health care;
- ✓ Users of apps, or consumers who want to know which apps are safe, and deliver on what they promise;
- ✓ App developers and app checkers who want to know what criteria are used to assess whether the app is safe, useful, user friendly and technically sound.

Why participate?

Participating in the development has benefits:

- ✓ Make sure that existing (national) criteria are incorporated in the international document;
- ✓ Cooperate in a network of dedicated experts on the subject;
- ✓ Know early about the quality criteria that will be used to assess health and wellness apps.



Physician Burnout is a Systemic Issue

Physician burnout can have widespread impact on patient quality, staff performance and organizational performance.



49% OF PHYSICIANS
report often or always experiencing feelings for burnout



- Increased risk of medical errors
- Decreased provider empathy for patients
- Lower patient satisfaction



- Increased turnover
- Reduced performance
- Reduced innovation
- Lack of collaboration and ineffective team communication



- Reduced clinical effort
- Reduced productivity
- Increased attrition

The EHR Has Been a Contributing Factor

Original article

Relationship Between Clerical Burden and Characteristics of the Electronic Environment With Physician Burnout and Professional Satisfaction

DEC 25, 2015 @ 04:30 PM 5,682

The Little Black Book of Billionsaire Secrets

Are Mandatory Electronic Medical Records Causing Doctor Burnout?

ORIGINAL RESEARCH 8 DECEMBER 2016

Allocation of Physician Time in Ambulatory Practice: A Time and Motion Study in 4 Specialties

Christine Simky, MD; Leary Colligan, MD; Ling Li, PhD; Mirale Pignone, PhD; Sara Reynolds, MBA; Lindsey Gooders, MBA; Johanna Wexler, PhD; Michael Tully, PhD; George Birka, MD

Research Shows Link Between EHR and Physician Burnout

The Hospitalist. 2016 April;2016(4)

For Each Hour of Clinical Time, Docs Spend 2 on Desk Work

— Time-and-motion study of 57 doctors in ambulatory settings

Reducing Clinician Burden – Breaking It Down

Topics/Categories

- | | | |
|---|---|--|
| 1) Clinician Burden – In General | management | process models |
| 2) Patient Safety (and Clinical Integrity) | 15) Information overload | 27) Software development and improvement priorities, end-user feedback |
| 3) Administrative tasks | 16) Transitions of care | 28) Product transparency |
| 4) Data entry requirements | 17) Health information exchange, claimed “interoperability” | 29) Product modularity |
| 5) Data entry scribes and proxies | 18) Medical/personal device integration | 30) Lock-in, data liquidity, switching costs |
| 6) Clinical documentation: quality and usability | 19) Orders for equipment and supplies | 31) Financial burden |
| 7) Prior authorization, coverage verification, eligibility tasks | 20) Support for payment, claims and reimbursement | 32) Security |
| 8) Provider/patient face to face interaction | 21) Support for cost review | 33) Professional credentialing |
| 9) Provider/patient communication | 22) Support for measures: administrative, operations, quality, performance, productivity, cost, utilization | 34) Identity matching and management |
| 10) Care coordination, team-based care | 23) Support for public and population health | 35) Data quality and integrity |
| 11) Clinical work flow | 24) Legal aspects and risks | 36) Process integrity |
| 12) Disease management, care and treatment plans | 25) User training, user proficiency | 37) List Management (problems, medications, immunizations, allergies, surgeries, interventions and procedures) |
| 13) Clinical decision support, medical logic, artificial intelligence | 26) Common function, information and | |
| 14) Alerts, reminders, notifications, inbox | | Blue = Focus Teams Formed |

Reducing Clinician Burden New ISO TC215 WG1 Work Item

- ISO TC215 – Health Informatics, formed in 1999
 - Chair: Michael Glickman (US)
- Working Group 1 – Frameworks, Models and Architectures
 - Convenor: Björn-Erik Erlandsson (Sweden)
- ISO 4419 – Preliminary Work Item focused on Reducing Clinician Burden
 - Targeted as an Informative Technical Report
- Candidate: RCB Root Cause Analysis
 - Developed by HL7 RCB Project Team
 - With US and International Input
 - Promoted from HL7 to ISO under Partner Standards Development Organization (PSDO) Agreement (currently being formalized)
 - Ultimately – Published by HL7 and ISO



European
Commission

Ursula von der Leyen
President-elect of the European Commission

Mission letter

Brussels, 10 September 2019

*"We need to make the most of the potential of e-health to provide high-quality healthcare and reduce inequalities. I want you to work on the creation of a European Health Data Space to promote **health-data exchange** and support research on new preventive strategies, as well as on treatments, medicines, medical devices and outcomes. As part of this, you should **ensure citizens have control over their own personal data**"*

President i Europakommisjonen, Ursula von der Leyen, i oppdragsbrevet til ny Helsekommissær, Stella Kyriakides.

EHR Exchange format

Fem nivåer for regulering

- Regulation
- Directive
- Decision
- **Recommendation**
- Opinion



Brussels, 6.2.2019
C(2019) 800 final

COMMISSION RECOMMENDATION

of 6.2.2019

on a European Electronic Health Record exchange format

(Text with EEA relevance)

EN

EN

6.februar 2019

Recommendation on a European Electronic Health Record exchange format

The Recommendation supports the digital transformation of health and care in the EU by seeking to unlock the flow of health data across borders.

E-resept	Oppsummerende pasientopplysninger (IPS)	
Lab-resultater	Medisinske bilder	Epikriser

Source <https://ec.europa.eu/digital-single-market/en/news/recommendation-european-electronic-health-record-exchange-format>

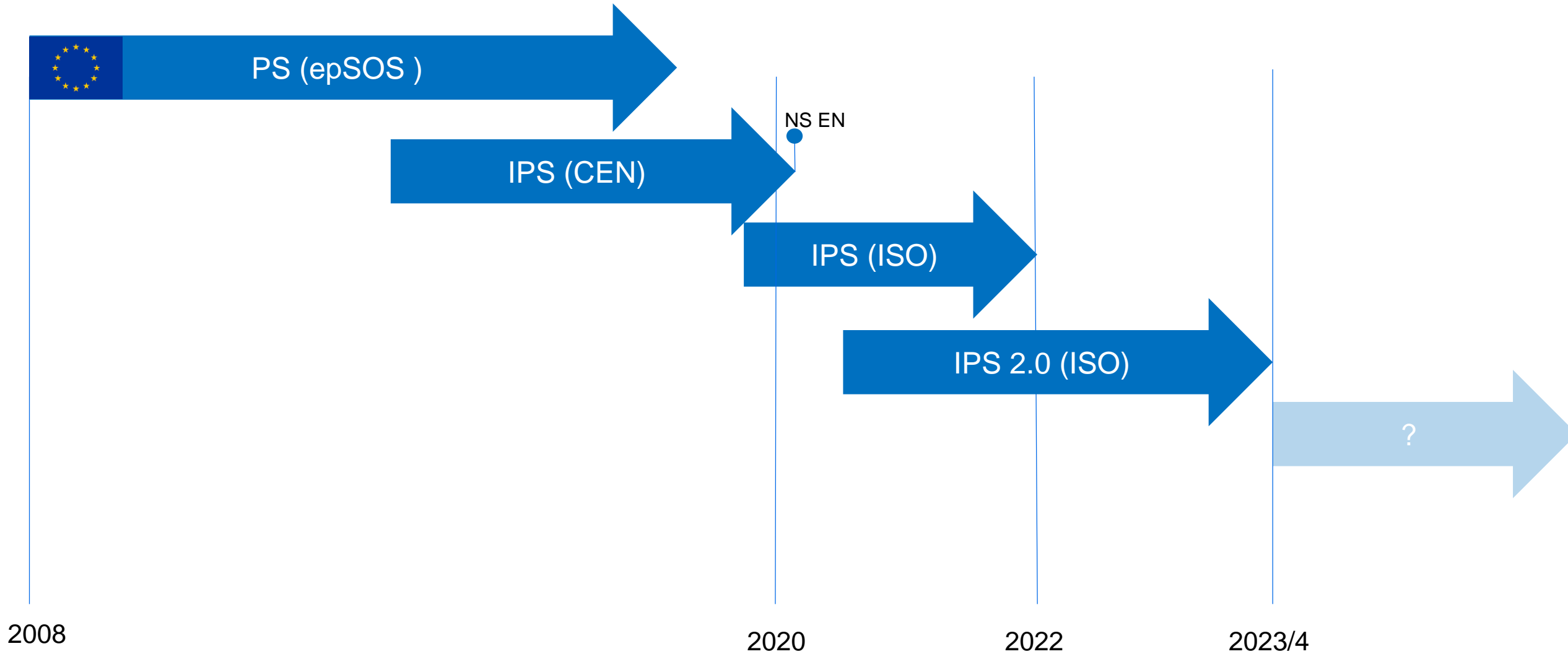
International Patient Summary



Innhold:

- Informasjon om pasienten (navn, fødselsdato, kjønn ol.)
- Sammendrag av kliniske pasientdata (f.eks. allergier, medisinske utfordringer, implantater, kirurgiske inngrep de siste seks månedene).
- Pasientens medisinbruk.
- Informasjon om sammendraget i seg selv (når og hvordan den ble opprettet, sist oppdatert og av hvem).

International Patient Summary



2008

2020

2022

2023/4

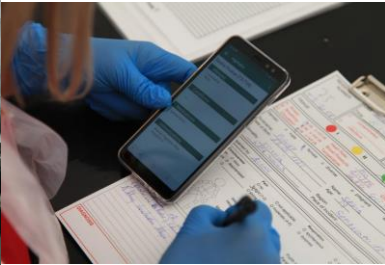


SNOMED CT

The global language of healthcare



International Patient Summary in Disaster Medicine: The case of EU MODEX-Ro Disaster Readiness



A review of successful initiatives and models on Patient Summary standards in mHealth apps



Nictiz  de kennisorganisatie voor digitale informatie-uitwisseling in de zorg

Nederland

Home Sectoren Standaardisatie Programma's Publicaties Over Nictiz

Patient Summary (BgZ)

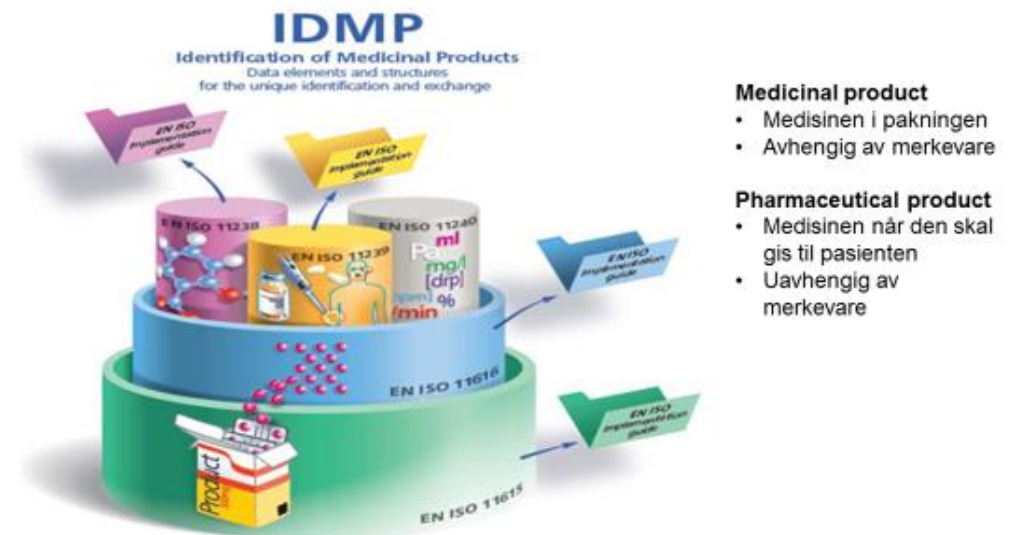
The Patient Summary (BgZ) is the minimum set of patientdata that is generic and relevant to all medical health professionals and all care processes. The BgZ is important for the continuity of care. The BgZ is actually a 'patient summary' of (medical) information that care-professionals have determined to be important in every part of the planned or unplanned care -process. The BgZ is derived from and based on the International Patient Summary (IPS) as adopted within the European Union.



<https://www.nictiz.nl/patient-summary-bgz/>

Identification of Medicinal Products (IDMP)

- ISO har utarbeidet fem standarder for beskrivelse og identifikasjon av legemidler
- Formål
 - Spesifisere dataelementer, struktur og relasjoner mellom dataelementer som er nødvendige for unik og sikker identifikasjon av legemidler
 - Definere termer for alle dataelementer som er nødvendig for unik og sikker identifikasjon av legemidler



IDMP – pågående internasjonalt arbeid

- ISO
 - Støttedokumentasjon for utbredelse (håndbok)
 - Oversettelse av sentrale deler av standarden
 - Forankring hos sentrale aktører, bl.a FDA (U.S. Food & Drug administration) som har samarbeid med EU/EØS
- EU
 - Bruk i felleseuropeisk legemiddeldatabase (SPOR)
 - EU – prosjektet kobling av IDMP til EPJ (UNICOM – prosjektet)
- HL7
 - Utarbeider FHIR implementeringsprofiler
- SNOMED Int.
 - Veiledning for bruk av SNOMED CT terminologi knyttet til IDMP
- Mapping til lokal terminologi (f.eks i Sverige)

Project information

UNICOM

Grant agreement ID: 875299

Status

Ongoing project

Start date

1 December 2019

End date

30 November 2023

Funded under:

H2020-EU.3.1.5.2.

Overall budget:


€ 20 730 965,50

EU contribution
€ 18 994 883,50



Coordinated by:

EMPIRICA GESELLSCHAFT FUR
KOMMUNIKATIONS UND
TECHNOLOGIEFORSCHUNG MBH

 Germany

Source: <https://cordis.europa.eu/project/id/875299>

ISO/TC215 Health informatics

For hver e-helsestandard

ISO PWI/TR 24288 An Indicative
Outcomes Framework



For standardiseringsarbeid innenfor e-helse



Outreach & Communications

TECHNICAL COMMITTEES
ISO/TC 215
Health informatics

199
PUBLISHED ISO
STANDARDS*

56
ISO STANDARDS UNDER
DEVELOPMENT*

29
PARTICIPATING
MEMBERS

33
OBSERVING MEMBERS

