Directorate of e-health

Current use and and future of of clinical standards in Norway
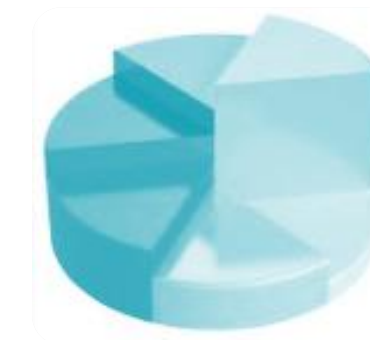
Klasifikon, Czech Republic
October 12th 2022

Marie Vikdal

Health and care services for all

Population 5,4 million

10,1 % of GDP

5000 GPs, 16 million consultations
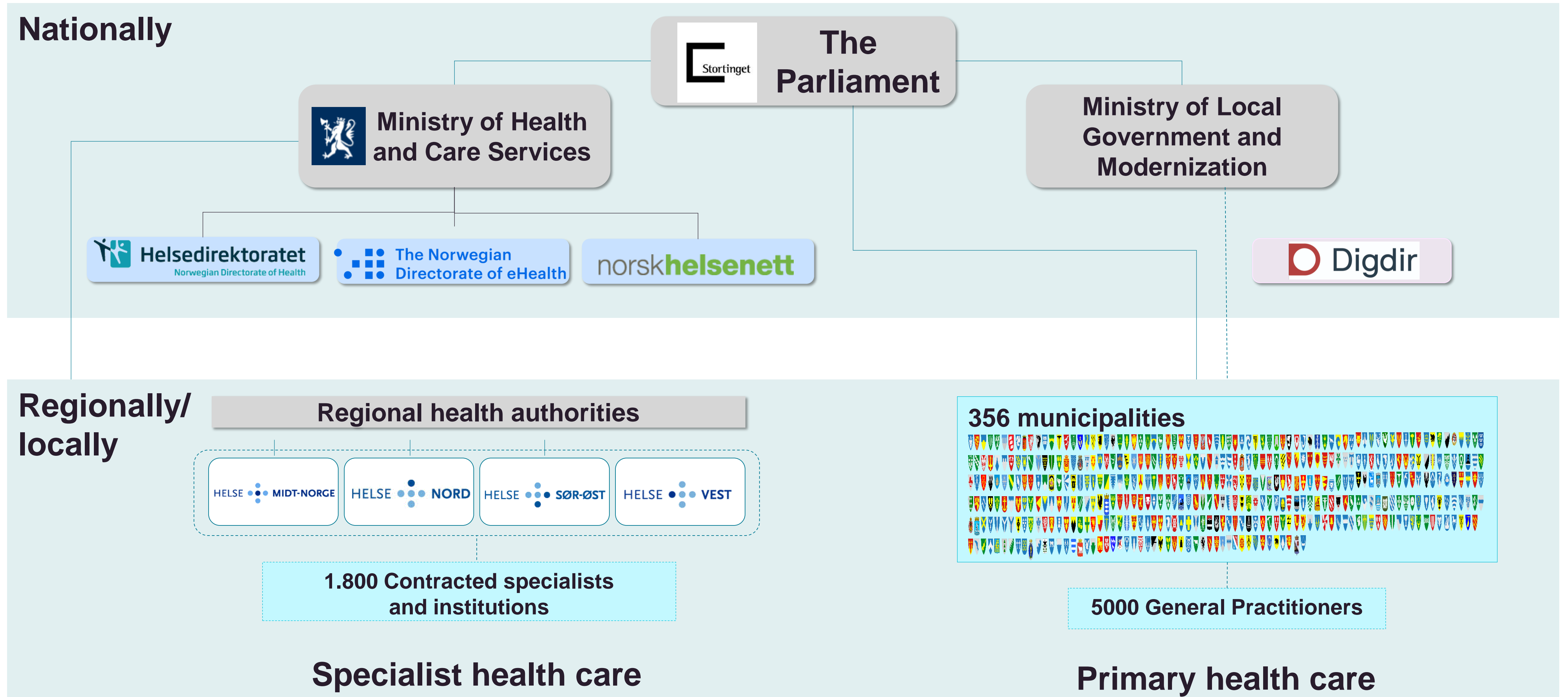
Life Expectancy 82,6

Public Funding 85 %

GP acts as gatekeeper

The Norwegian Directorate of eHealth

Organization of the Norwegian health care system

The values of the Norwegian Directorate of e-health values (NDE)

Our vision

A SIMPLER HEALTH SERVICE FOR EVERYONE

Our mission

We gather the healthcare providers around a common direction for digitalization

Our role

Catalyst	Set the terms	Adviser

The Norwegian Directorate of eHealth

Our national e-health strategy

Active participation in your own and next of kin's health

Make the workday easier
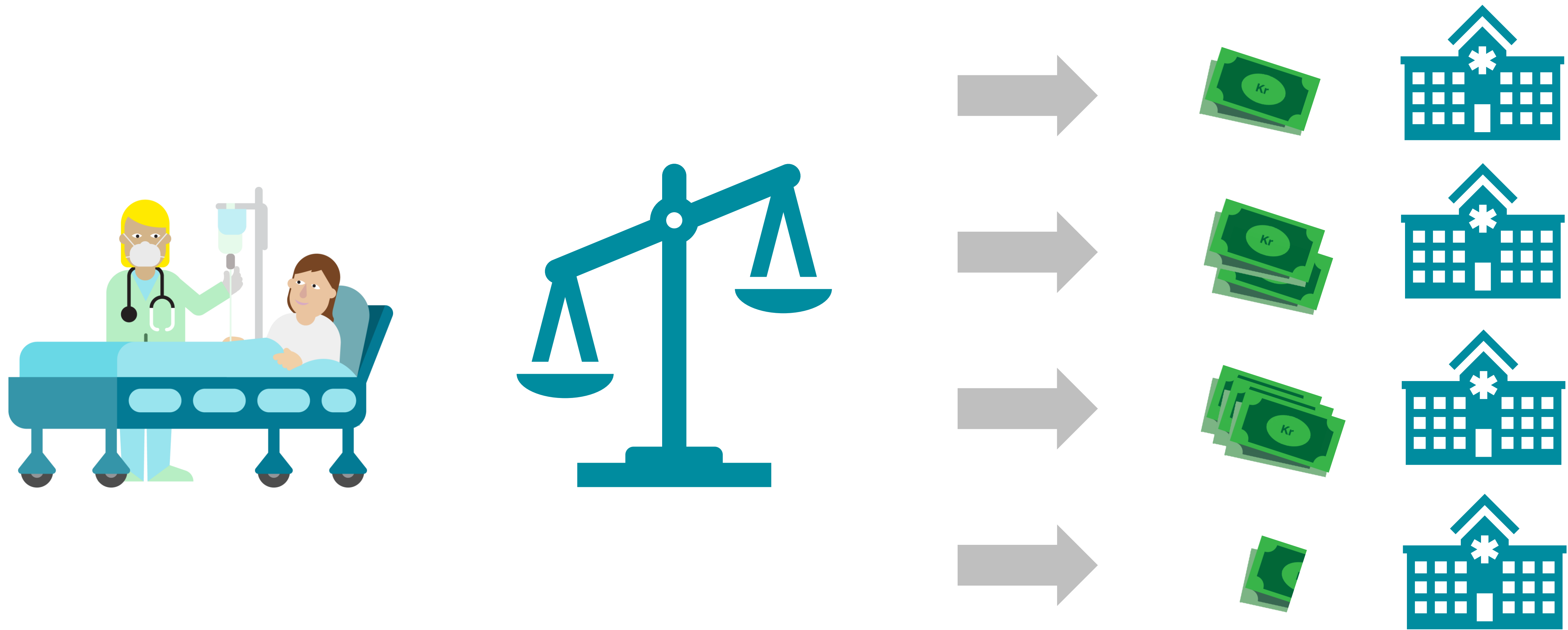
Health data for renewal and improvement

Available information and strengthened interaction

Cooperation and tools to strengthen the power of execution

The Norwegian Directorate of eHealth

Nasjonal e-helsestrategi for helse- og omsorgssektoren - ehelse

Classifications for financing and governance
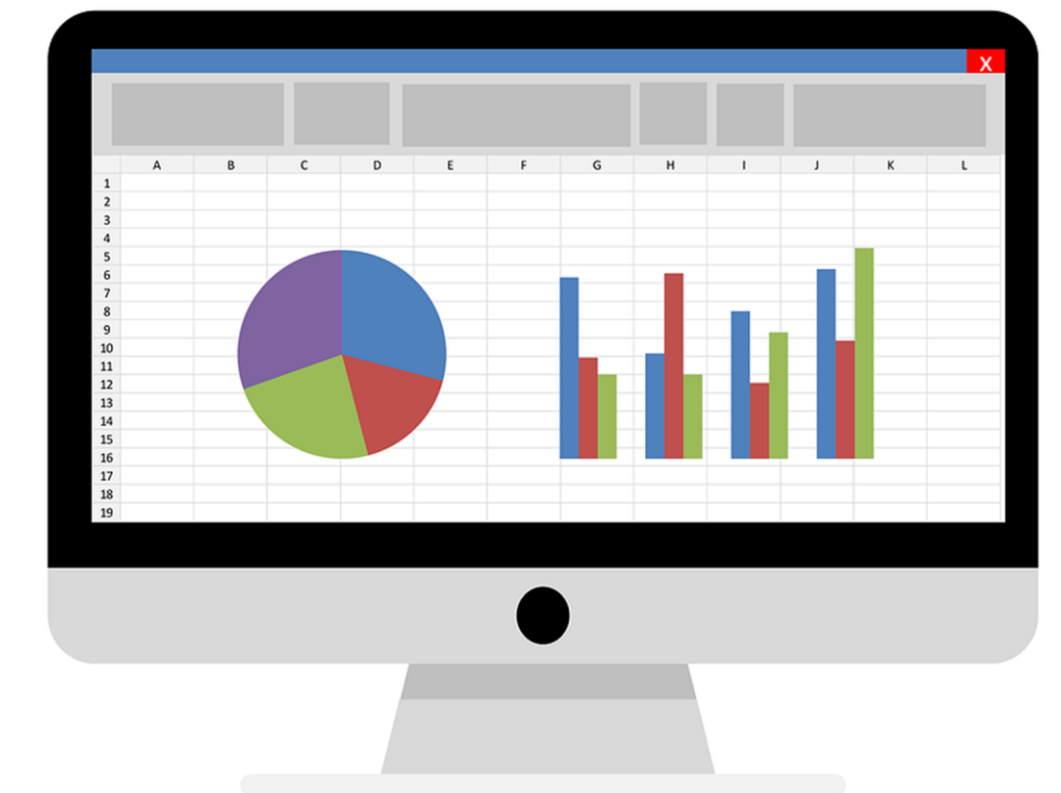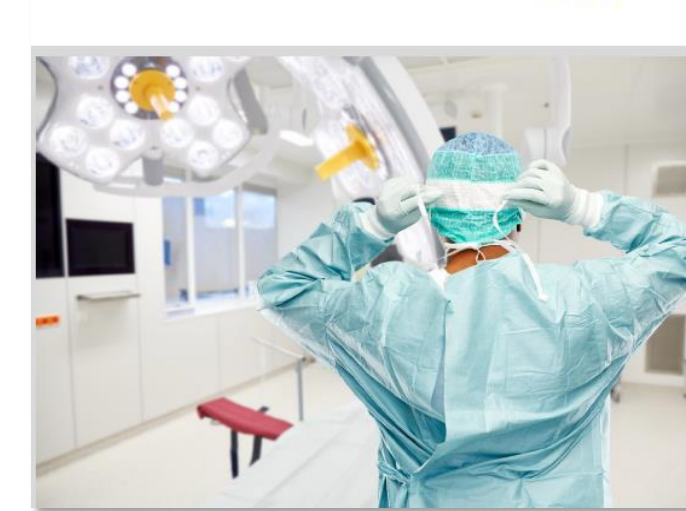
Use cases for clinical standards in Norway

Documenting/reporting clinical information
> In EHR and administrative digital systems

Registries and statistics
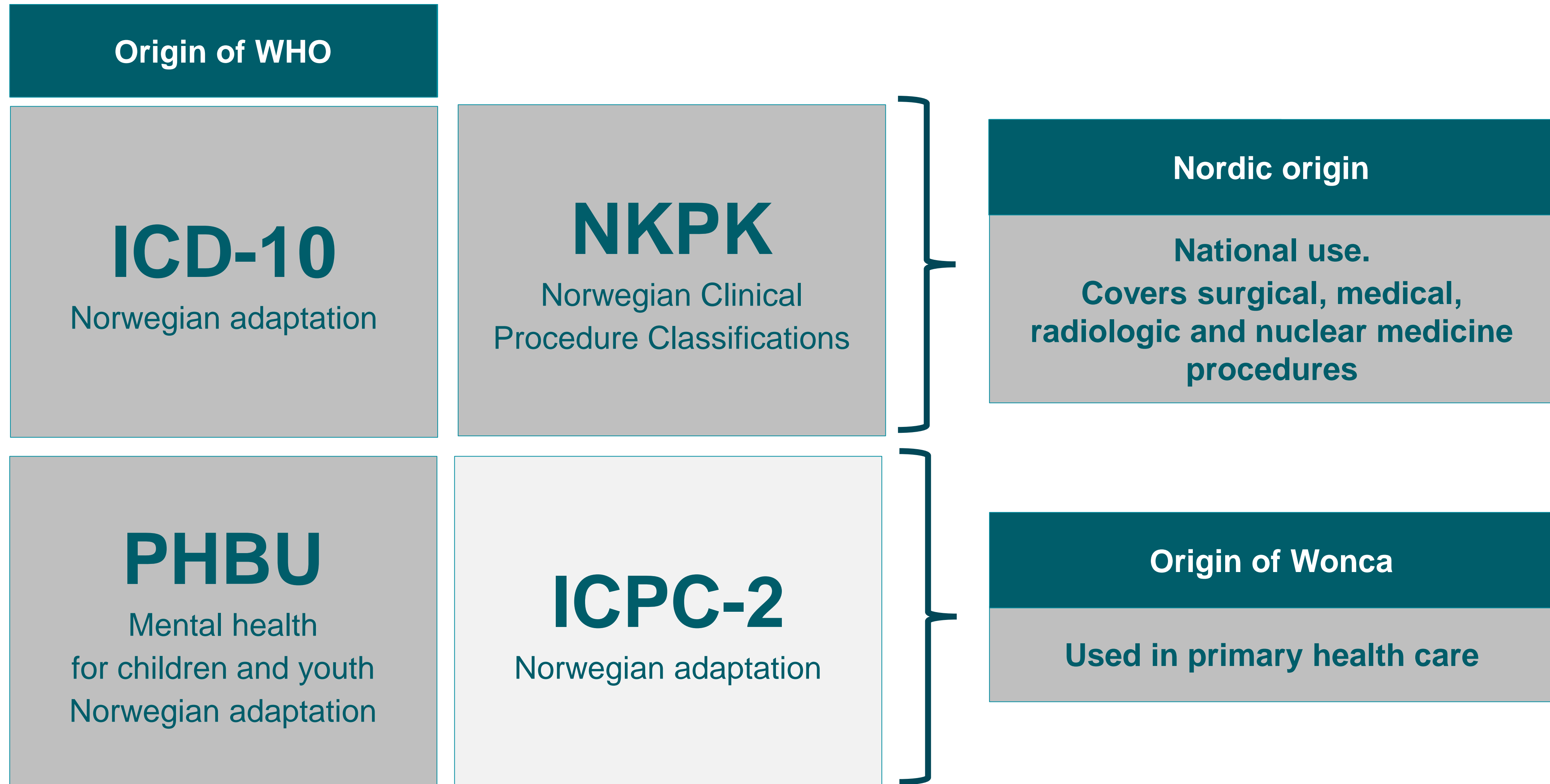> Epidemiological data, cause of deaths, cancer registries

Research and development
> For defining study populations, effect/efficacy of health care services

Governing
> Financing health systems, resource management

Normative on «acceptable» diagnoses

Norway's national clinical standards:

Origin of WHO

ICD-10
Norwegian adaptation

NKPK
Norwegian Clinical
Procedure Classifications

PHBU
Mental health
for children and youth
Norwegian adaptation

ICPC-2
Norwegian adaptation

Nordic origin

**National use.
Covers surgical, medical,
radiologic and nuclear medicine
procedures**

Origin of Wonca

Used in primary health care

Directorate of e-health

Kodeverk - ehelse

Norway's national clinical standards and code systems:

Origin of WHO

ICD-10
Norwegian adaptation

NKPK
Norwegian Clinical Procedure Classifications

NPU
Norway uses their own extension of the NPU database for laboratory information.

PHBU
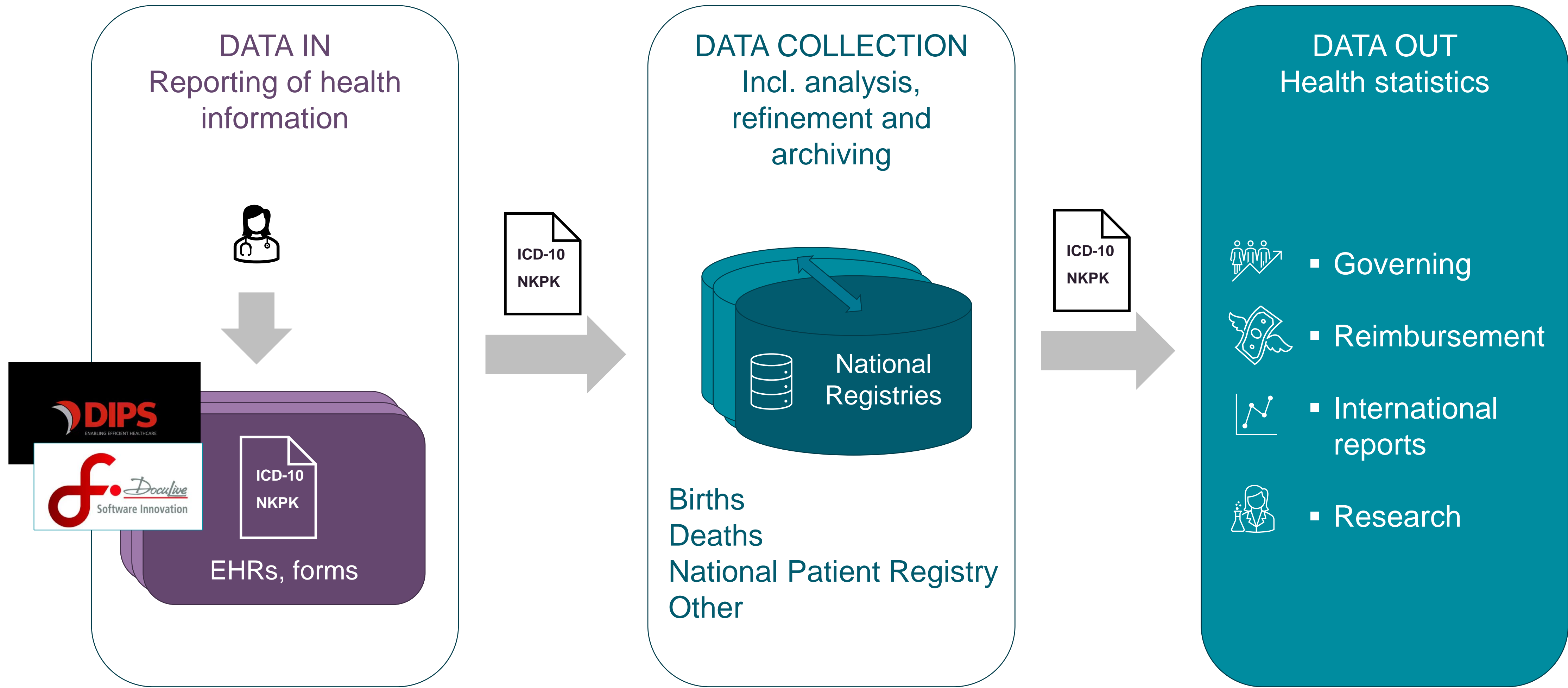Mental health for children and youth Norwegian adaptation
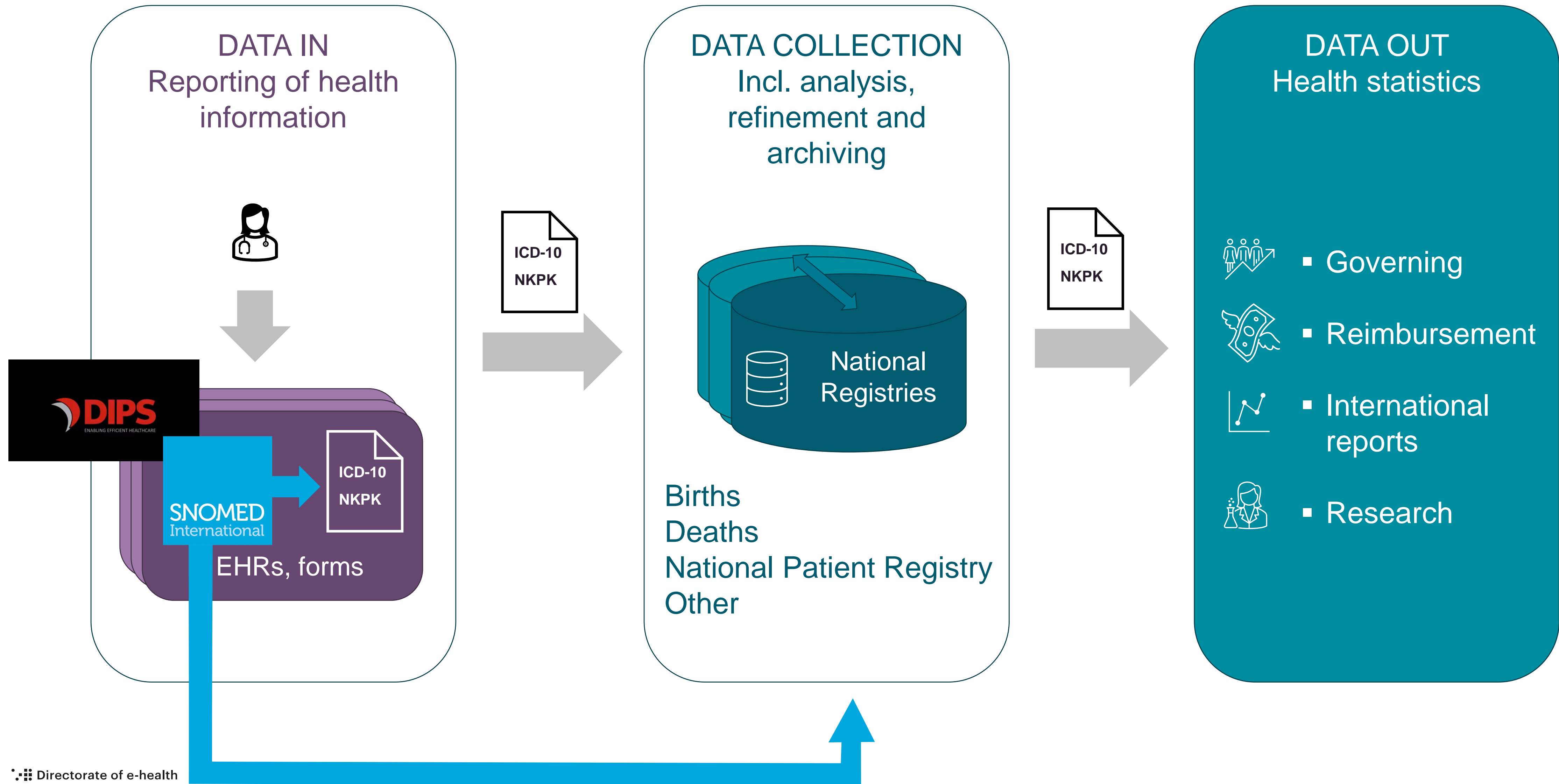
ICPC-2
Norwegian adaptation

NORPAT
Norwegian terminology for anatomical pathology. Based on the former Snomed for pathology.
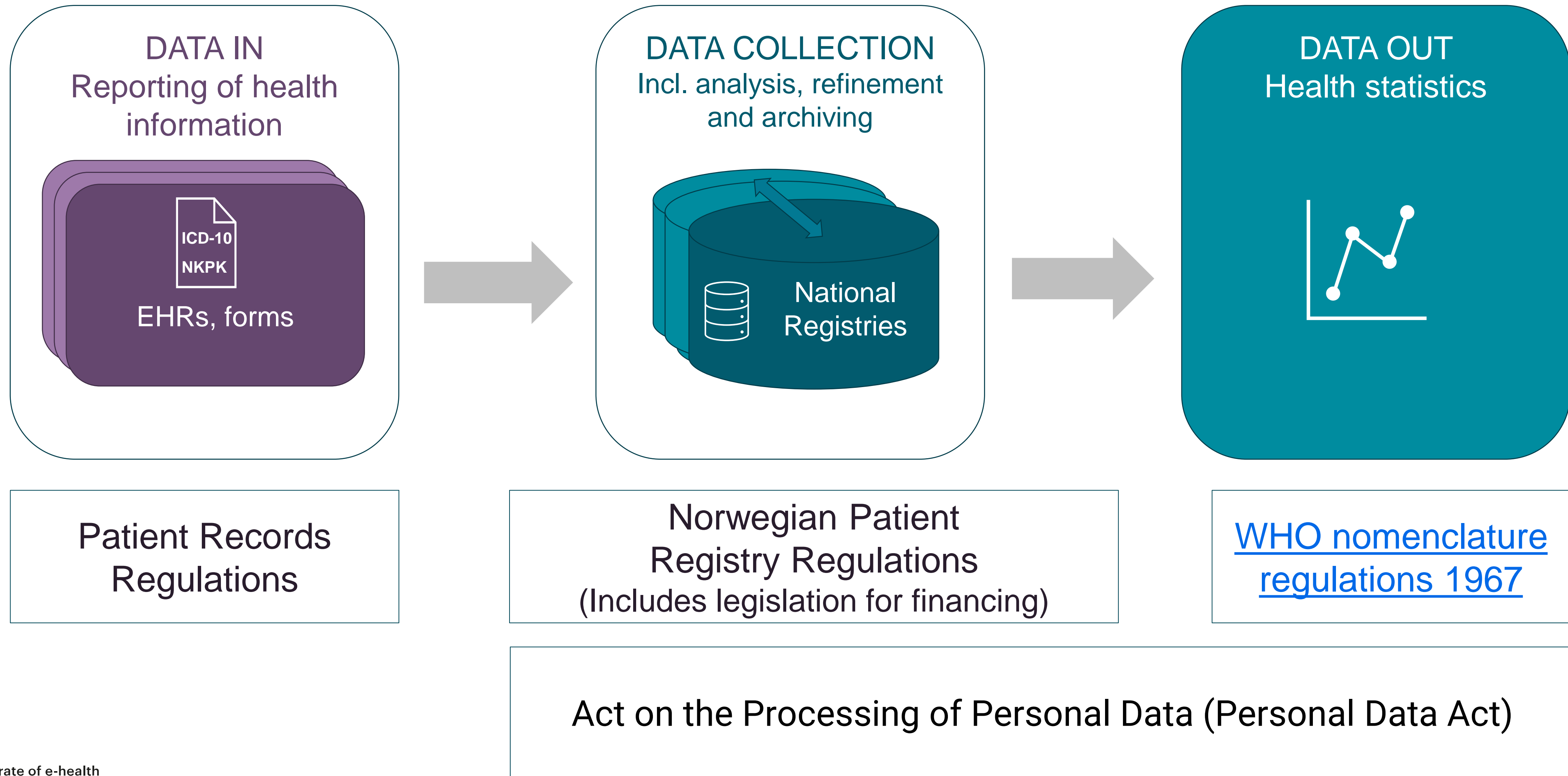
Diagnostic and procedure data flow in Norway

DATA IN
Reporting of health information

ICD-10
NKPK

DIPS

Doculive
Software Innovation

ICD-10
NKPK

EHRs, forms

ICD-10
NKPK

DATA COLLECTION
Incl. analysis, refinement and archiving

National Registries

Births
Deaths
National Patient Registry
Other

ICD-10
NKPK

DATA OUT
Health statistics

- Governing

- Reimbursement

- International reports

- Research

Diagnostic and procedure data flow in Norway

DATA IN
Reporting of health information

DATA COLLECTION
Incl. analysis, refinement and archiving

DATA OUT
Health statistics

ICD-10
NKPK

ICD-10
NKPK

DIPS

SNOMED International

ICD-10
NKPK

EHRs, forms

National Registries

Births
Deaths
National Patient Registry
Other

- Governing
- Reimbursement
- International reports
- Research

Relevant regulations and responsibilities:

DATA IN
Reporting of health information

ICD-10
NKPK

EHRs, forms

DATA COLLECTION
Incl. analysis, refinement and archiving

National Registries

DATA OUT
Health statistics

Patient Records Regulations

Norwegian Patient Registry Regulations
(Includes legislation for financing)

WHO nomenclature regulations 1967

Act on the Processing of Personal Data (Personal Data Act)

Directorate of e-health

Relevant regulations and responsibilities:

ICD-10
Norwegian adaptation

SNOMED International

PHBU
Norwegian adaptation

NKPK
Norwegian Clinical Procedure Classifications

ICPC-2
Norwegian adaptation

DATA IN
Reporting of health information

ICD-10
NKPK

EHRs, forms

Patient Records Regulations

DATA COLLECTION
Incl. analysis, refinement and archiving

National Registries

Norwegian Patient Registry Regulations
(Includes legislation for financing)

DATA OUT
Health statistics

WHO nomenclature regulations 1967

Act on the Processing of Personal Data (Personal Data Act)

Coordination of maintenance and use of classifications:

January 1st
Classifications and rules put into effect

Within May
Proposals received for next year

Within June
Reference group meetings with end users

Within July
Code lists finalized and shared for input at decisions makers

Within October
Code lists published for preparations

Information activities

Information activities

Annual cycle

Selection of other digital standards in use, or under exploration

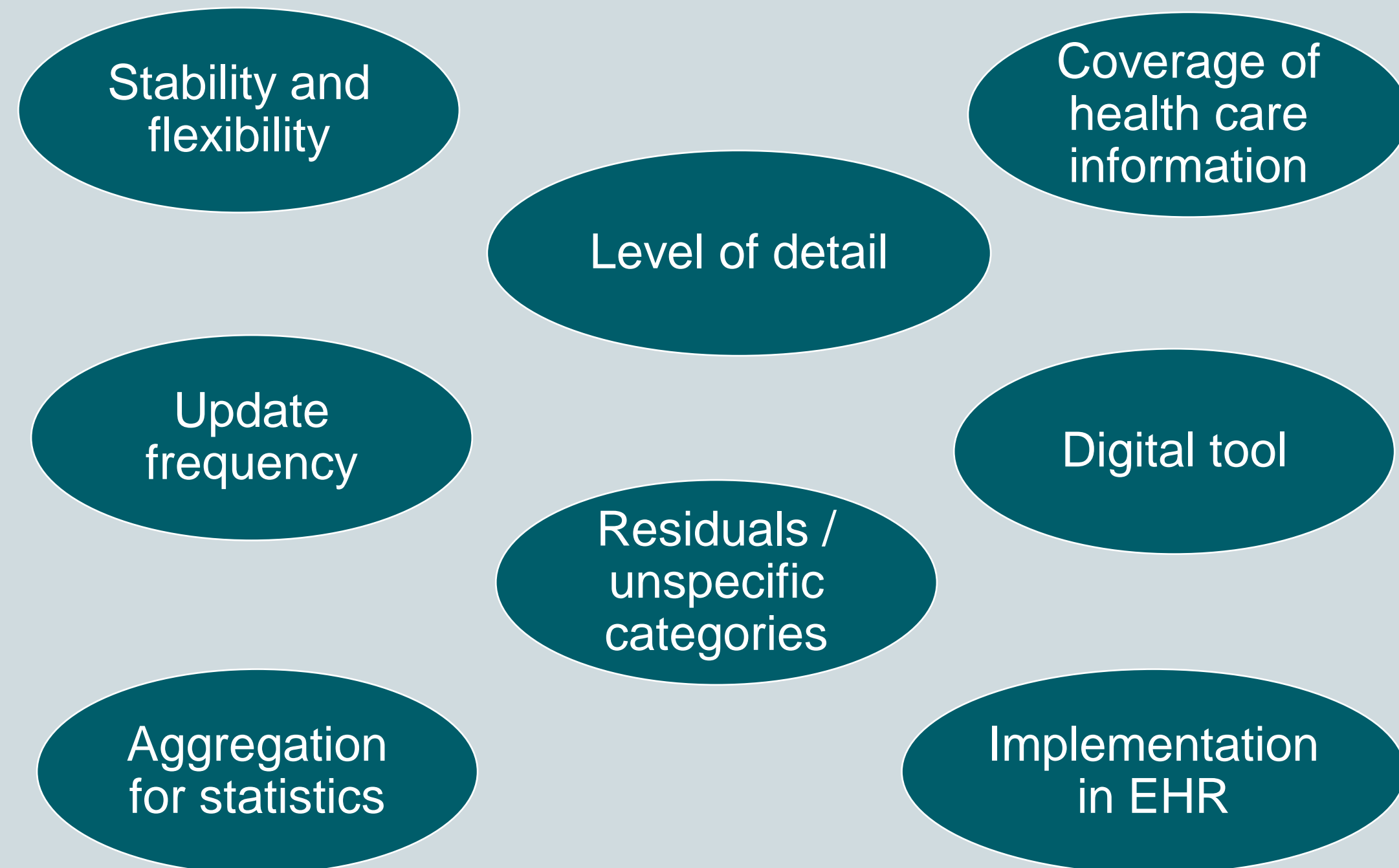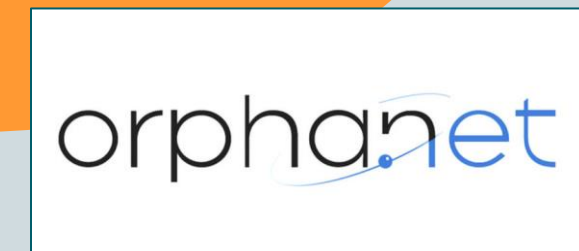| Name	Typology	Utility	Domain	More
ORPHANET	Interoperability layer	Common data model (Taxonomy)	Rare diseases	Task given by MoH on time needed to evaluate Orphacodes and other variables for national use in rare diseases.
DICOM	Meta-data standard	Conformance messaging	Medical image	The major standard for digital medical imaging established in 1992. All hospitals in Norway use DICOM for medical image communication.
DCAT (DCAT-AP2)	Meta-data standard	Discoverability	Public reporting of data collections	NDE has developed metadata specification mostly based on DCAT properties. All health data sources i Norway shall share their metadata according to this specification.
HL7-FHIR	Meta-data standard	Conformance messaging	EHR output, clinical data, registries,	NDE issued a high-level recommendation to use HL7 FHIR for integrations based on data sharing in the healthcare sector in 2019. NDE also recommends using SMART on FHIR for integration of applications to EHRs. The use of a selection of national core profiles is a recommended standard in Norway, but a stronger coordination of activities is needed.
SPOR (ISO-IDMP)	Ontology	Data provenance	Medical products (drugs and medical substanses)	NDE recommends the use of IDMP for describing product-specific information. The use of Medicinal Product Identifier is recommended throughout the value chain for medicinal products. The Norwegian Medical agency (NoMA) has an ongoing project for developing a new drug database in accordance with IDMP and with a portal to SPOR.
PHIRI	Meta-data standard (Modelling data, framework)	Discoverability	Population health data (collections)	The Norwegian Directorate of Health and the Norwegian Institute for Public Health are partners in the PHIRI project. This aims to lay a foundation to build a European Research Infrastructure on Population Health, to be used to overcome future crises (e.g. COVID-19).
OHDSI (OMOP)	Interoperability layer	Common data model	EHR, claims data	The Norwegian Cancer Registry and the University of Oslo are datapartners in the EDEN project. NDE aim to participate. Some of the IT tools are downloaded. To be tested in 2023.
ECRIN (CMRD)	Meta-data standard	Discoverability	Clinical research data (Randomized clinical trials)	As of 2013, ECRIN has the legal status of a European Research Infrastructure Consortium (ERIC). ECRIN currently has seven Member Countries (France, Germany, Hungary, Italy, Norway, Portugal and Spain) and two Observer Countries (Czech Republic and Switzerland).

What will the future bring?

Directorate of e-health

Future sharing of diagnostic information

Classifications and terminologies

Properties

Stability and flexibility

Coverage of health care information

Level of detail

Update frequency

Residuals / unspecific categories

Digital tool

Aggregation for statistics

Implementation in EHR

Terminology candidates for carrying health information:

WHO FIC Foundation

orphanet

SNOMED International

Joint use (Vision shared from Norway, UK, Germany)

Directorate of e-health

Project on diagnostic information

Overall goal

Make an assessment for the recommended strategy for diagnosis information, including ICD-11

The project aims to:

Prepare a knowledge document for deciding whether and how Norway will introduce ICD-11 for diagnostic information collected by national health registries. This will amongst other, include:

- A cost-benefit analysis of the transition to ICD-11
- An assessment of the interaction between ICD-11 and SNOMED CT
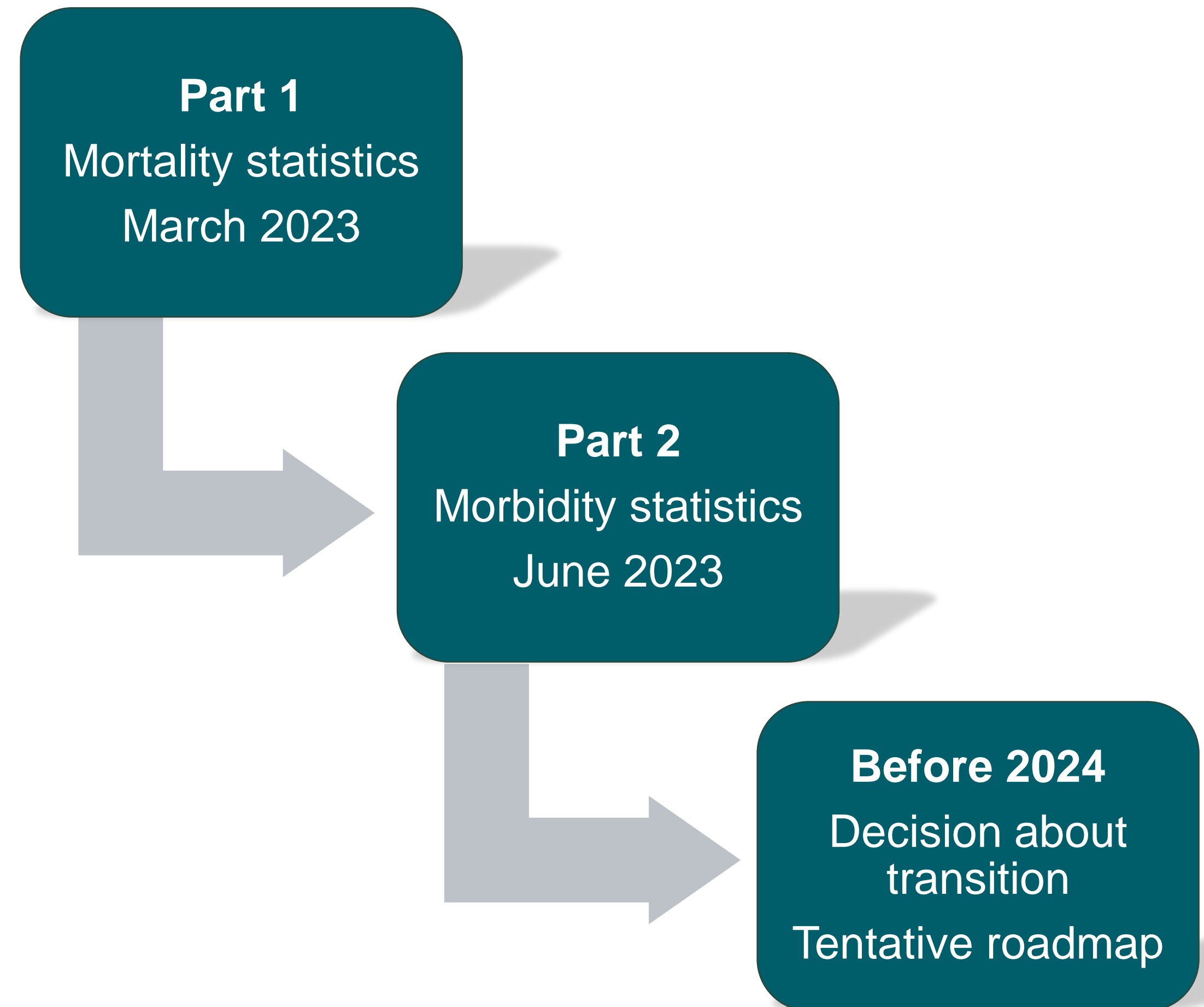
Part 1
Mortality statistics
March 2023

Part 2
Morbidity statistics
June 2023

Before 2024
Decision about transition

Tentative roadmap

In the near horizon…

NordForsk

Finansieringsmöjligheter   Vad vi finansierar   Nordisk nytta   Effekter

Press release | 3 May 2022 | Brussels

European Health Union: A European Health Data Space for people and science

About us ∨

Page contents

Top

Related media

Print friendly pdf

Press contact

Today, the European Commission launched the European Health Data Space (EHDS), one of the central building blocks of a strong European Health Union. The EHDS will help the EU to achieve a quantum leap forward in the way healthcare is provided to people across Europe. It will empower people to control and utilise their health data in their home country or in other Member States. It fosters a genuine single market for digital health services and products. And it offers a consistent, trustworthy and efficient framework to use health data for research, innovation, policy-making and regulatory activities, while ensuring full compliance with the EU's high data protection standards.

The Vice-President of the European Commission, Margaritis **Schinas**, said: *"I am proud to announce the first common EU data space in a specific area. The European Health Data Space will be a 'new beginning' for the EU's digital health policy, making health data work for citizens and science. Today, we are laying down the foundations for*

Français   Русский   Deutsch

Nordic Commons | NordForsk
Countries in the European Region adopt first-ever digital health action plan (who.int)

European Health Data Space – Proposal for REGULATION

Article 5

Priority categories of p...

1.   Where data is ...
      personal electr...

      (a)   patient s...

      (b)   electroni...

      (c)   electroni...

      (d)   medical ...

      (e)   laborato...

      (f)   discharg...

The main char...
out in Annex I...

Access to and...
personal electr...

EUROPEAN COMMISSION
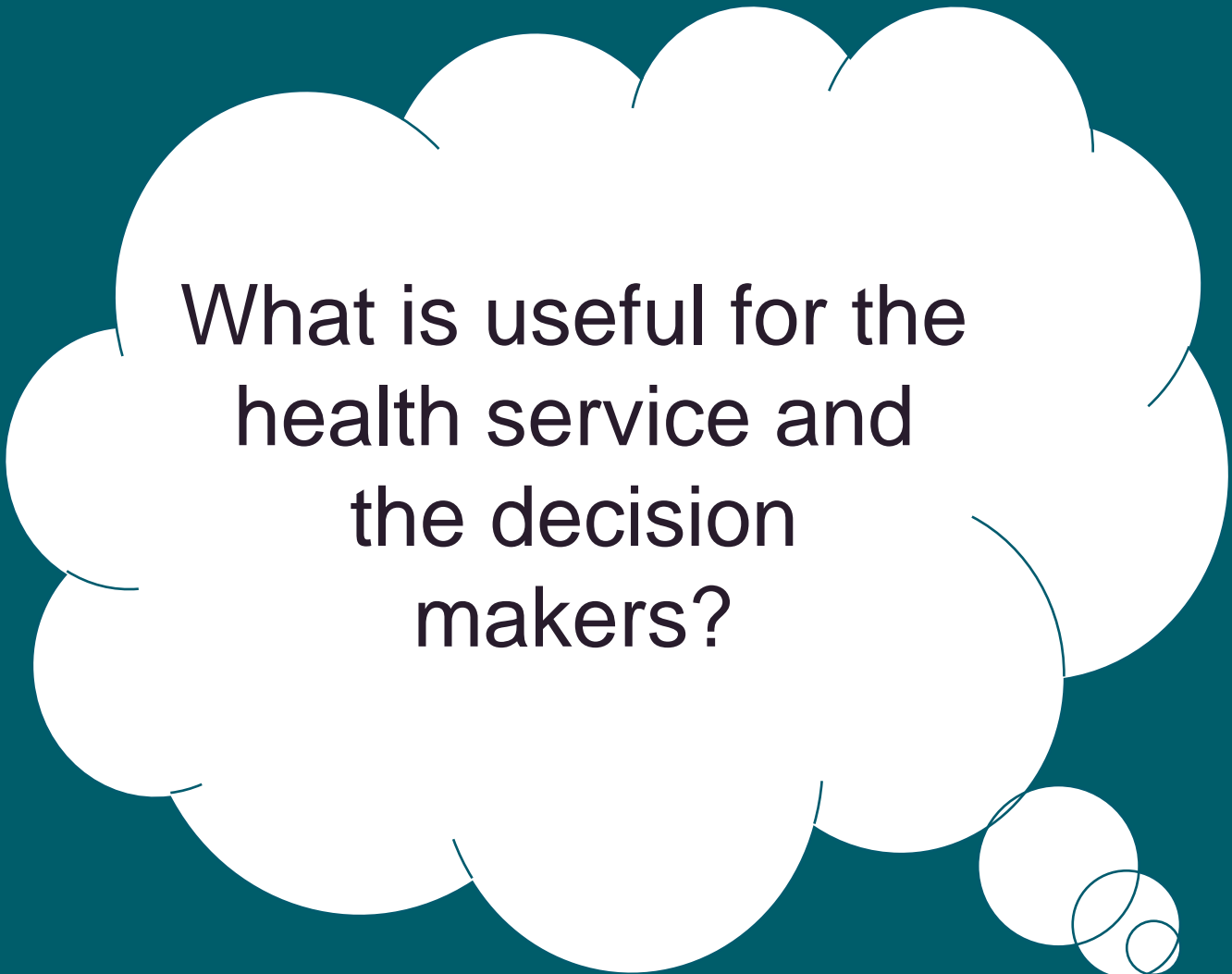
Strasbourg, 3.5.2022

COM(2022) 197 final

2022/0140(COD)

Proposal for a

REGULATION OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL

on the European Health Data Space

(Text with EEA relevance)

{SEC(2022) 196 final} - {SWD(2022) 130 final} - {SWD(2022) 131 final} - {SWD(2022) 132 final}

...t of the
...common
...medical

...n Article

...a groups

...c health

...otection

...ectronic

Thank you for your attention!

Direktoratet for e-helse

Contact: marie.vikdal@ehelse.no