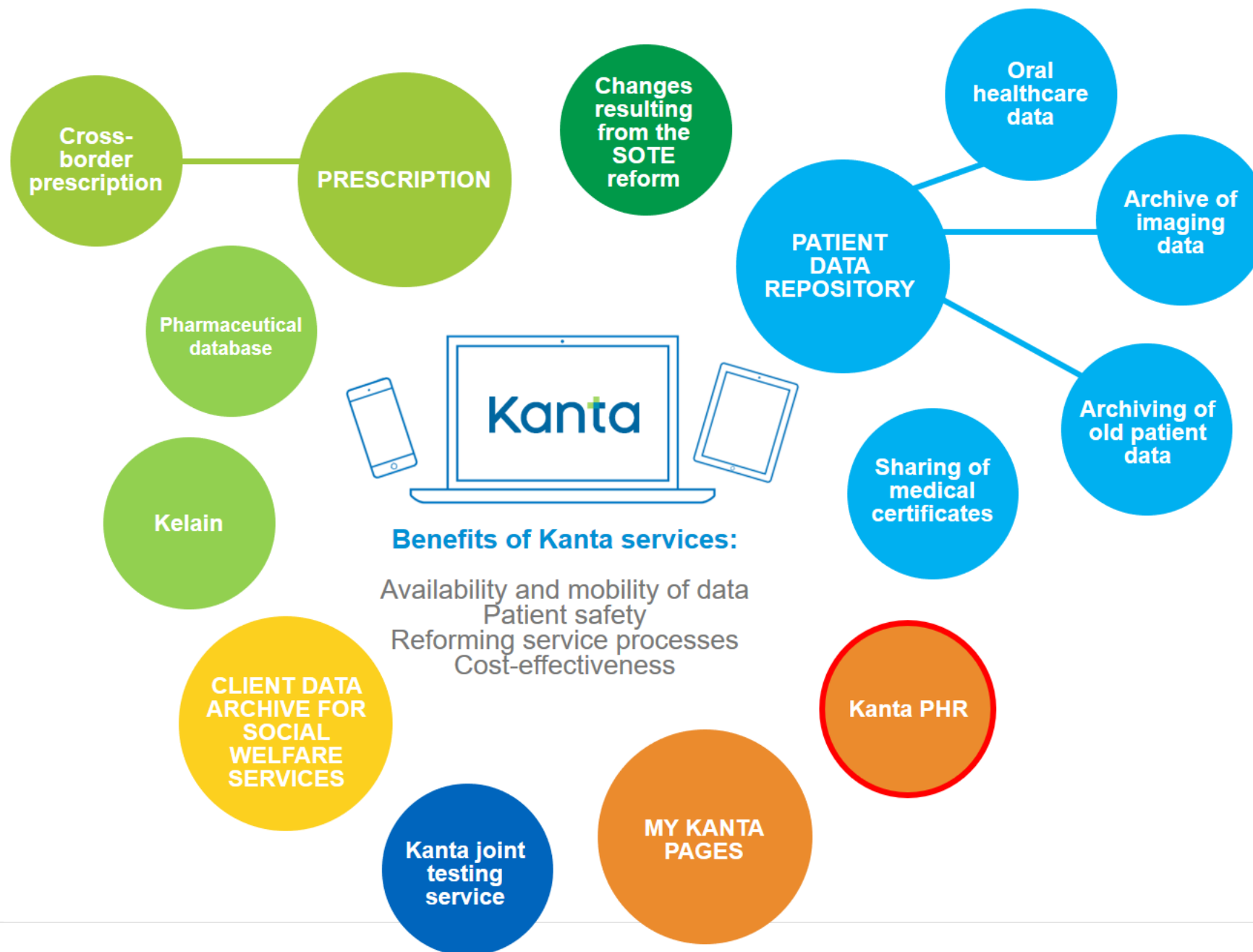# Kanta PHR

Application suppliers

Kanta PHR

- Reliable national data repository for the citizen's own health and wellbeing data

- Use with wellbeing applications or in My Kanta Pages

- Persons have the right to decide on

  - recording and using their data

  - amending their data

  - deleting their data from Kanta PHR

- Based on the [Act on Electronic Processing of Client Data in Healthcare and Social Welfare (784/2021) (PDF, edilex.fi, in Finnish)](#)

What kind of data

- The data that can be recorded includes
    - Measurement data (e.g. blood pressure, blood glucose, calorie count and PEF)
    - Surveys (e.g. symptom assessments, health history forms and checkups)
    - Self-care plans
- National data content of the data repository
    - Open: anyone can propose what kind of data should be able to be saved in Kanta PHR
    - Based on the international HL7 FHIR standard
    - Further information about the data content on the kanta.fi website

Wellbeing application

- The wellbeing application is a mobile (smartphone, tablet) or server-based app
- App can be used for saving and processing personal wellbeing data
- Made by any company / organisation / operator
- The application must be approved by the Kanta services
    - Approval criteria, demo, testing and delivery terms
- A list of applications that have been approved for the use of Kanta PHR is available in Kanta PHR

KANTA PHR

Kanta

Personal Health Record (Kanta PHR)

FHIR
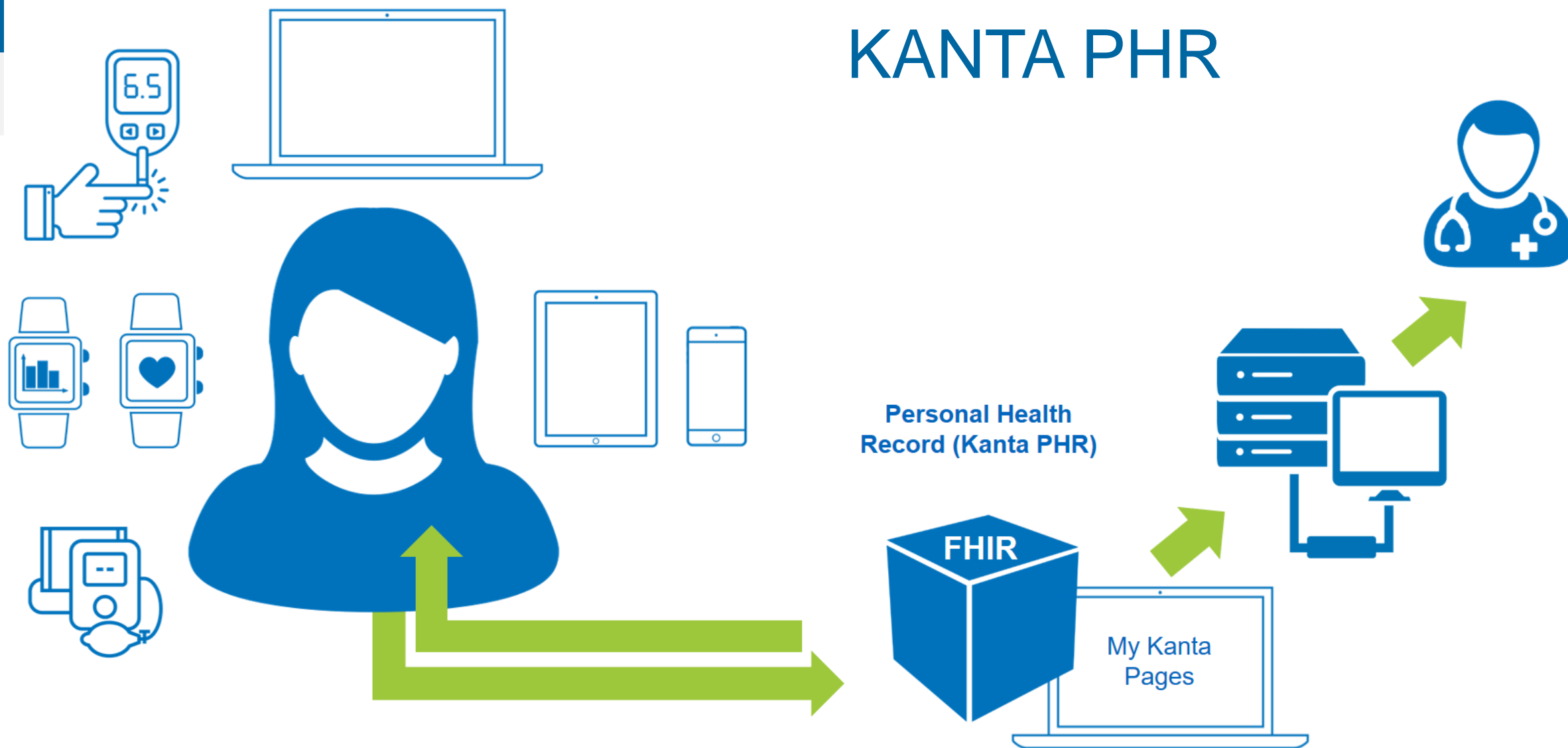
My Kanta Pages

Data is safe in the Kanta services

- The data is kept separate from the rest of the data in the Kanta services
- Data in Kanta PHR can be accessed by the user via My Kanta Pages
  - Information generated by all apps is on the same list by resource type
    - Browsing and deleting of data
  - Managing the user rights of applications
  - Consent management (sharing of data with healthcare and social welfare professionals)
    - Possible from 1 January 2024 in accordance with the transition period of the new Client Data Act

kanta.fi/phr
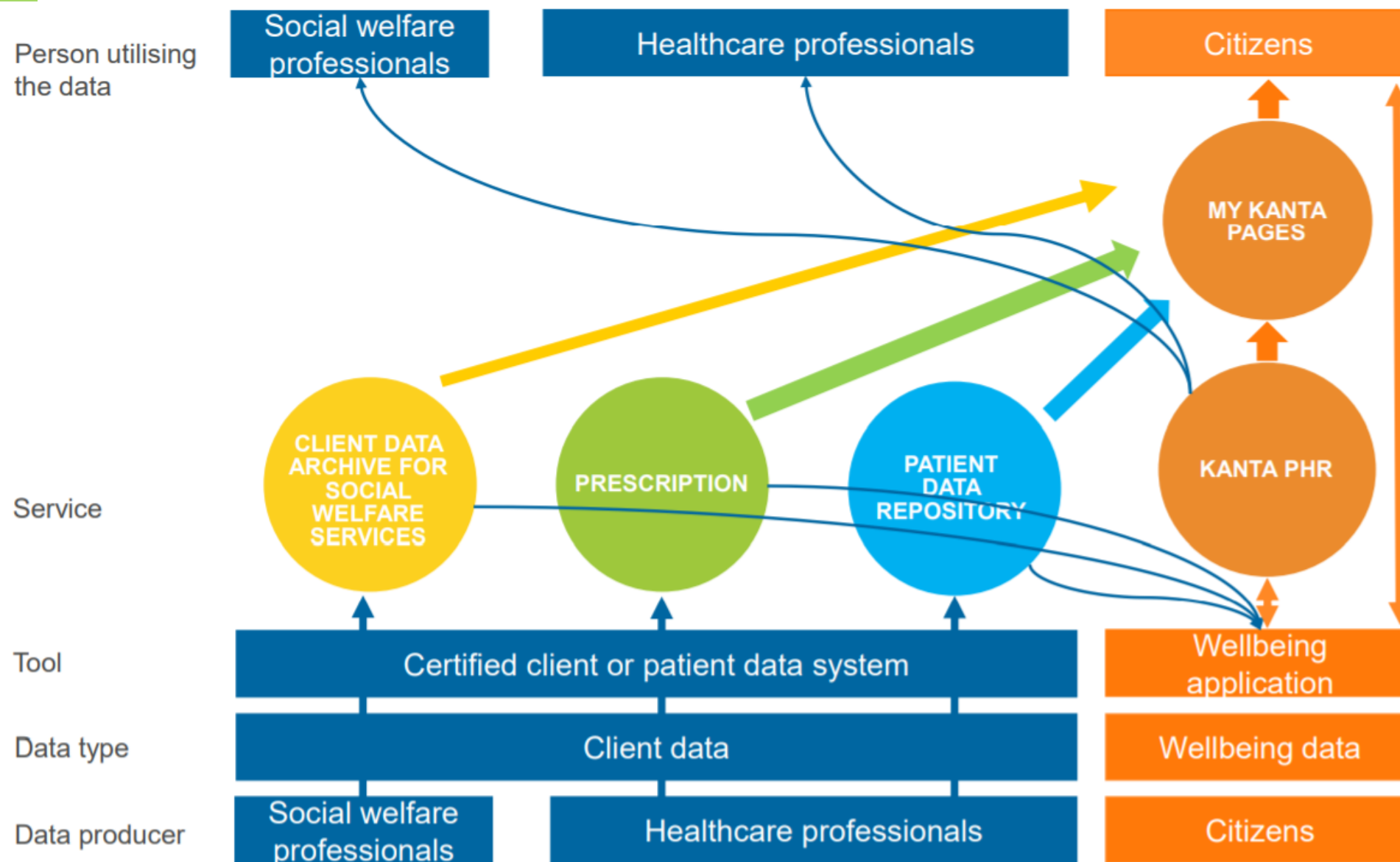
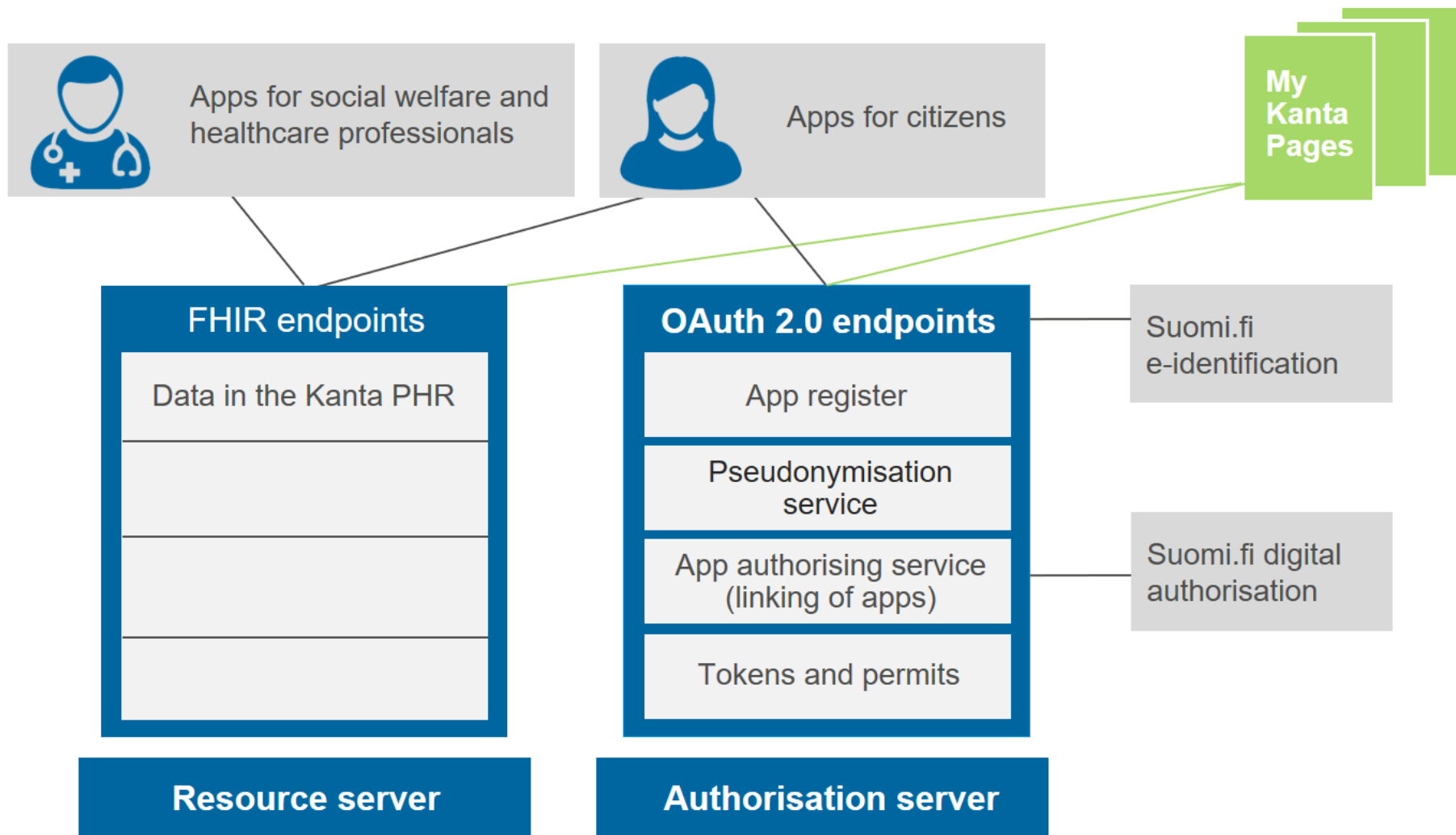# Technical implementation, service and its interfaces, and the underlying data content

Kanta

HL7® FHIR®
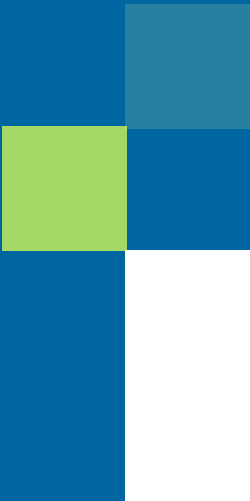
Modern standard that ensures interoperability of healthcare data systems

Developer friendly

Suitable for mobiles

Plenty of open source libraries and tools available

Kanta PHR, principal elements

Apps for social welfare and healthcare professionals

Apps for citizens

My Kanta Pages

FHIR endpoints

Data in the Kanta PHR

OAuth 2.0 endpoints

App register

Pseudonymisation service

App authorising service (linking of apps)

Tokens and permits

Suomi.fi e-identification

Suomi.fi digital authorisation

Resource server

Authorisation server

Authorisation, endpoints and data content of Kanta PHR

- Kanta PHR uses an OAuth 2.0 authorisation protocol and its use is explained in the PHR authorisation guide

- Kanta PHR's Rest API endpoints and data content are based on the international HL7 FHIR standard

- Described on the Simplifier.net website
  - Endpoint descriptions
  - Data contents

Expansion of the national data content

- Any applicaiton / service developer can propose new data content / changes to the existing data content
  - Proposals are processed together with the development community (Kela, THL, HL7 Finland association, app developers)
  - Skype meetings open to all once a month
  - Further information on the development of data content on the kanta.fi website

Sandbox environments

- Sandbox is an open development and testing environment, which can be used independently

- The Sandbox apps in Kanta PHR comply with the Kanta PHR functionalities, e.g. with respect to FHIR, the same resources are supported as in the "real" Kanta PHR

- The environments can be used freely for development and testing

- Instructions on the Sandbox environments are available on the kanta.fi website

Integrate your app with Kanta PHR

Learn about the HL7 FHIR standard and the Kanta PHR interface descriptions and instructions.

Test your app in the open sandbox environment provided by Kela.

Bring your change proposal for the national data content of Kanta PHR in accordance with the process, if necessary.

Ensure that your app meets the content and data security requirements of the service.

Apply for approval testing to ensure that your app is interoperable with Kanta PHR in accordance with the Client Data Act (class A certification).

Benefits for developers of wellbeing services

Visibility for your service. Kanta is a valued and recognised brand. Large number of users: over 3 million logins every month.

Data in a structured form as a basis for developing your own service. Utilise the data recorded by citizens and social welfare and healthcare professionals with a single integration.

Interfaces based on the HL7 FHIR standard: a new, international and flexible way to share data in social welfare and healthcare services. Easy integration between applications.
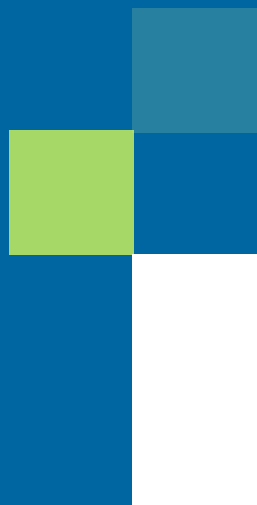
Continuity - One integration, connection to all SOTE service providers & citizens' data. State-run national service platform.
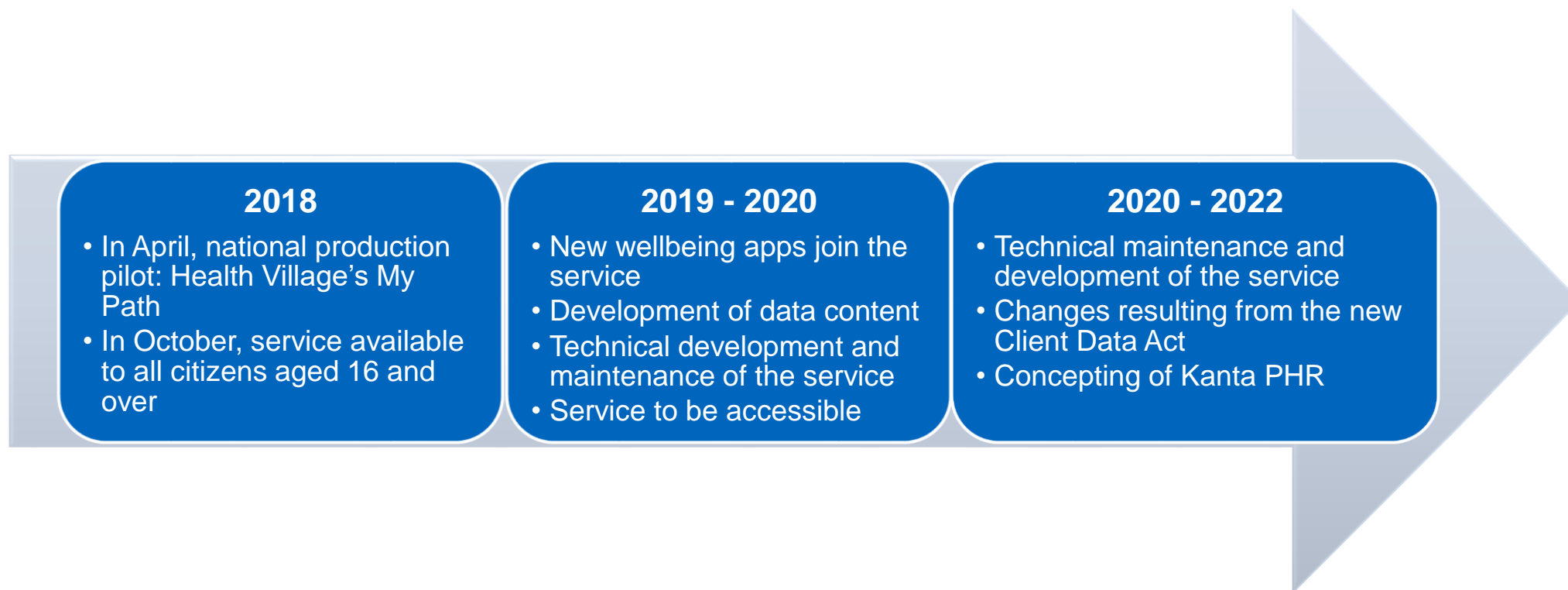
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How Kanta PHR is progressing

Where are we now?

Kanta

2018
- In April, national production pilot: Health Village's My Path
- In October, service available to all citizens aged 16 and over

2019 - 2020
- New wellbeing apps join the service
- Development of data content
- Technical development and maintenance of the service
- Service to be accessible

2020 - 2022
- Technical maintenance and development of the service
- Changes resulting from the new Client Data Act
- Concepting of Kanta PHR

Client Data Act

- New Client Data Act entered into force on 1 November 2021
- Changes resulting from the entry into force of the Client Data Act:
  - A wellbeing application that is joining or has joined Kanta PHR must pass class A certification
    - Wellbeing applications will also be subject to accessibility requirements
  - Kela became the controller of wellbeing data entered in Kanta PHR
  - Age limit of Kanta PHR was withdrawn
  - Data entered by a citizen will be deleted from Kanta PHR 5 years after the person's death

Transition periods of the Client Data Act

- Changes to data sharing
  - Sharing of prescription data with wellbeing applications 1.12.2022
  - Sharing of patient data with wellbeing applications 1.12.2023
  - **Sharing of wellbeing data with professionals 1.1.2024**
  - Sharing of client data with wellbeing applications 1.5.2025

Concepting of Kanta PHR

- The concepting of Kanta PHR started during autumn 2021 under mandate from the Ministry of Social Affairs and Health and under the supervision of THL, with a purpose of, e.g.:
  - Refining the specification of data produced by a person in self-care and self-management and the operating model of utilising it in the healthcare and social welfare services
  - Clarifying the role of Kanta PHR
  - Identifying dependencies on legislative changes and other development entities of the Kanta services
  - Opening the aspects of wellbeing applications and their developers
    – Business aspect
    – Requirements of the new Client Data Act; certification

kanta.fi/phr

Thank you

kanta.fi/hyvinvointitiedot
kanta.fi/phr
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🐦 @kantapalvelut
kantakehitys@kanta.fi