Innovating the secondary use of health data – the Finnish model

Saara Malkamäki

Specialist, IHAN project

Sitra – the Finnish Innovation Fund

✉ saara.malkamaki@sitra.fi

🐦 @saara_malkamaki

SITRA

Sitra

1. An independent future house: a futurologist, visionary, developer, experimentalist, financier, partner, trainer, and networker.

2. The aim is the successful Finland of tomorrow, the vision is the next era of well-being – a fair and sustainable future.

3. Under the direct control of the Finnish Parliament.

4. Funded by returns on endowment capital and capital investments.

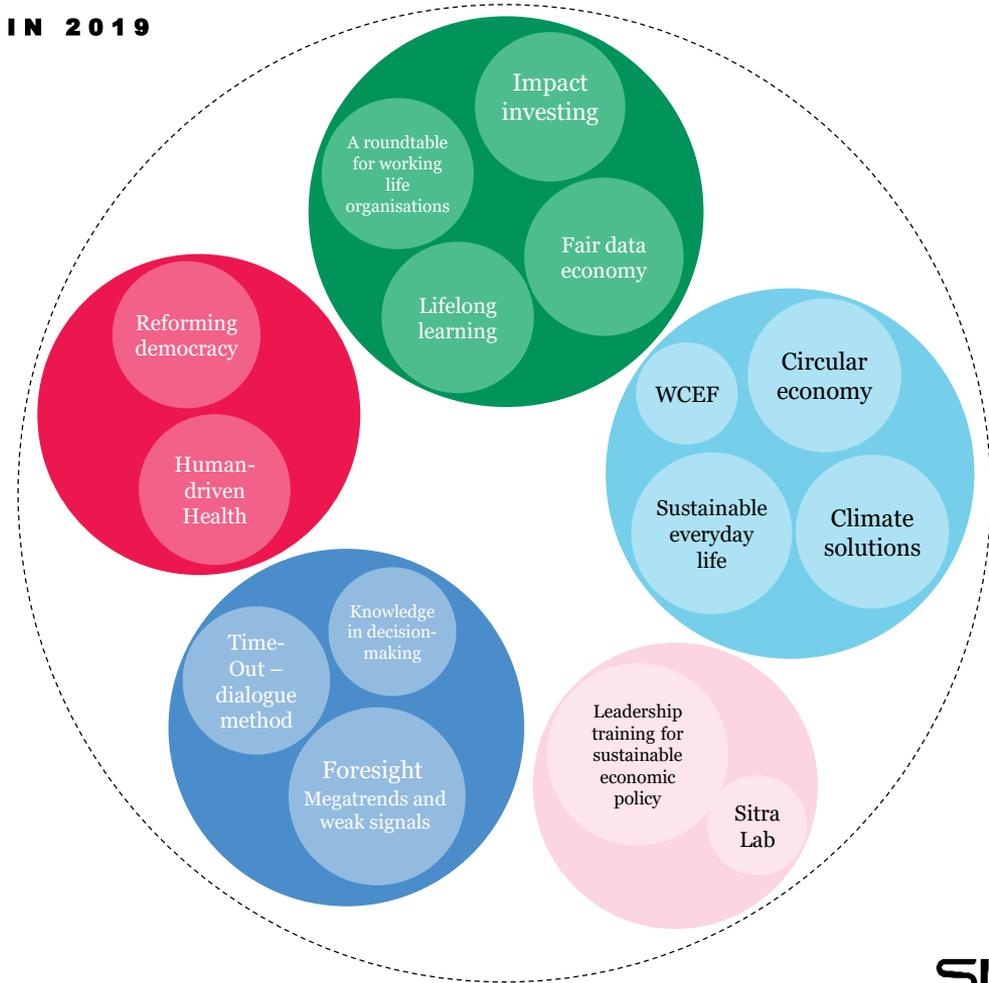5. The vision is implemented by three themes and hundreds of projects.

+ the most important of all

Building our future *together*.

SITRA'S FUTURE-ORIENTED WORK IN 2019

FORESIGHT

SOCIETAL TRAINING

A CARBON-NEUTRAL CIRCULAR ECONOMY

CAPACITY FOR RENEWAL

NEW WORKING LIFE AND A SUSTAINABLE ECONOMY

Impact investing

A roundtable for working life organisations

Fair data economy

Lifelong learning

Reforming democracy

Human-driven Health

Circular economy

WCEF

Sustainable everyday life

Climate solutions

Time-Out – dialogue method

Knowledge in decision-making

Foresight Megatrends and weak signals

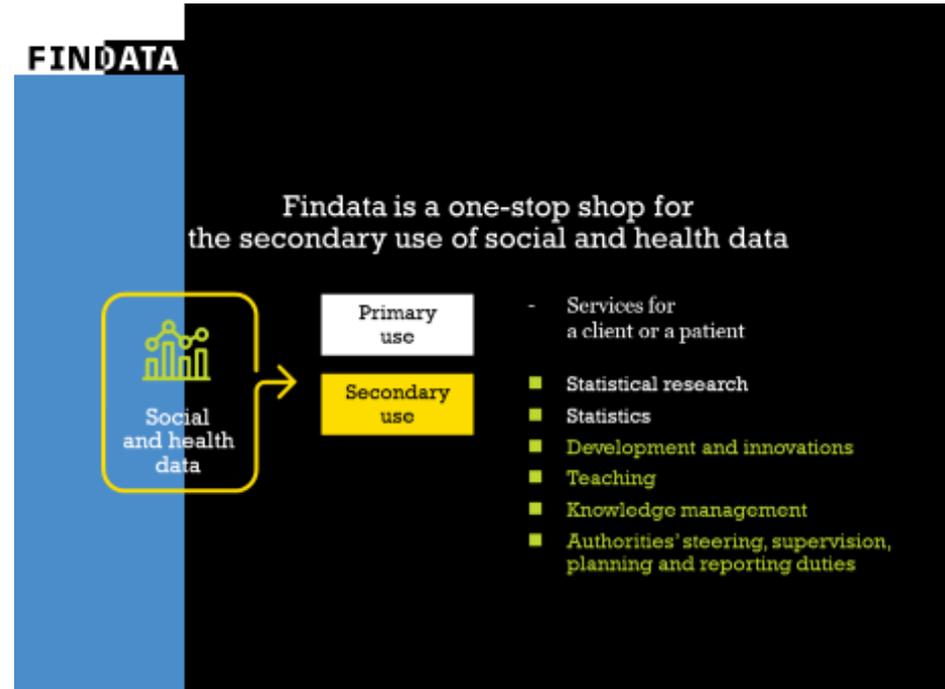Leadership training for sustainable economic policy

Sitra Lab

SITRA

THE SECONDARY USE OF HEALTH AND SOCIAL CARE DATA

Project Isaacus 2015-2018

Findata 2020-

SITRƎ

Great new from Finland!

- **New legislation** on Secondary Use of Social and Healthcare Data entered into force on 1 May 2019
- It enables the founding of the new national Social and Health Data Permit Authority **Findata** – a one-stop shop which offers permits, advisory and access to data for research, development and innovations.
- It opens up the national social and healthcare registers, but also data from the operational client and patient systems in primary care, specialist healthcare and social services.

FINDATA

Findata is a one-stop shop for
the secondary use of social and health data

Social and health data → Primary use

Secondary use

- Services for a client or a patient

- Statistical research
- Statistics
- Development and innovations
- Teaching
- Knowledge management
- Authorities' steering, supervision, planning and reporting duties

SITRA

FINDATA

Faster and improved access to data

Before

Permits separately from each controller

A long process

From 2020

Centralised access to permits and data sets

Time limits

Also

Advice related to data sets/use

An electronic permit system

Secure user environment
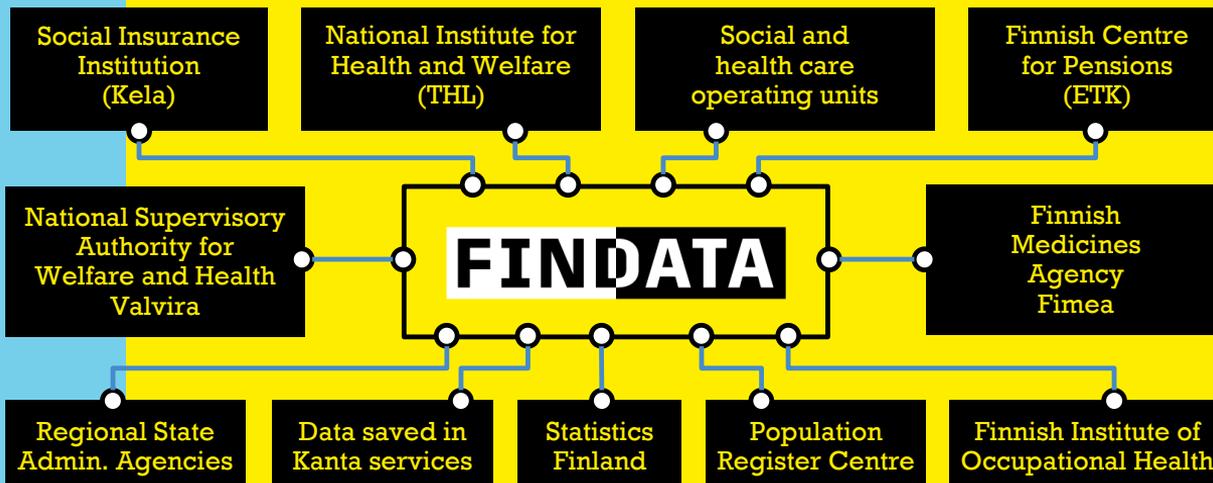
More uses for social and health data

Uses permitted under the Act

- Scientific research
- Statistics
- Development and innovation
- Steering and supervision by authorities
- Authorities' planning and reporting duties
- Teaching
- Knowledge management

FINDATA

The following controllers will provide access to data specified in the Act through Findata

- Social Insurance Institution (Kela)
- National Institute for Health and Welfare (THL)
- Social and health care operating units
- Finnish Centre for Pensions (ETK)
- National Supervisory Authority for Welfare and Health Valvira
- **FINDATA**
- Finnish Medicines Agency Fimea
- Regional State Admin. Agencies
- Data saved in Kanta services
- Statistics Finland
- Population Register Centre
- Finnish Institute of Occupational Health

FINDATA

Data protection and information security are taken care of

- A secure remote use environment for individual level data sets

- Data sets will be made available without individual's direct identifying data

- The data permit authority Findata will see to anonymisation centrally

FINDATA

Let the efficient and secure secondary use of social and health data begin!

STEPWISE
ROLLOUT OF
SERVICES

1 Nov 2019
Advisory
service and
the website
findata.fi
launched

1 Jan 2020
Access to
statistical
data
subject to an
information
request

1 Apr 2020
Remote use
of individual
level data
subject to a
data permit

Further information:
Johanna Seppänen, Director, Findata
firstname.lastname@thl.fi

The Isaacus project

Isaacus project (2015–2018) at Sitra

- Prepared the basic principles and an operating plan for Findata
- Piloted, tested and developed service models and processes, metadata descriptions, data lakes and co-operation models with authorities and stakeholders

SITRA

How we did it

State's supplementary budget proposes allocating 2.5 million euros for the year 2019 towards launching the operations of the data permit authority and the construction of a data-secure environment.

REGULATION

DATA PERMIT AUTHORITY

Working Committee prepares a new Act on the Secondary Use of Health and Social Data. Working term: April 2015 to December 2017.

Proposal submitted for the first hearing in August 2016.

Government proposes the new act (October 2017).

Parliamentary work, expert hearings and debates, and the social affairs and health committee suggests amendments in April 2018. Adjusted proposal returned to the committee in October 2018.

The new act is approved by Parliament (March 2019). Act enters into force on 1 May 2019.

Findata – new one-stop shop in operation. Helpdesk to open November 2019. Information requests to begin January 2020.

2016 -   **2017 -**   **2018 -**   **2019 -**   **2020 -**

PROJECT ISAACUS

TEMPORARY STEERING GROUP

Project Isaacus starts in November 2015.

Eight pre-pilots begin with Sitra's funding support (of between 30 and 70%).

Isaacus phase 1 completed in September 2017. Pre-production pilots give an insight into future ICT services.

Sitra extends the project to ensure the impact of the work. Sitra funds Project Management Office to support the temporary Steering Group assigned by the Ministry of Social Affairs and Health.

Temporary Steering Group prepares the launch of Findata operations.

SITRA

National Initiatives Network

The secondary use of well-being data

85 people

17 countries

51 organisations

Australia, Denmark, Estonia, Belgium, Finland, Germany, Hungary, Iceland, Ireland, Israel, Japan, Netherlands, Norway, Spain, Sweden, Switzerland, United Kingdom

SITRA

National Initiatives Network

To join, send an email to
saara.malkamaki@sitra.fi

Two active subgroups:

1　Synthetic data

2　Metadata

SITRA

Further readings

- Blog post 5/2019
  - New legislation will speed up the use of Finnish health data https://www.sitra.fi/en/blogs/new-legislation-will-speed-use-finnish-health-data/ (includes the act in English)
- Press release 4/2019
  - Ministry of Social Affairs and Health
  - New act enables effective and secure use of health and social data https://stm.fi/en/artikkeli/-/asset_publisher/uusi-laki-mahdollistaa-sosiaali-ja-terveystietojen-tehokkaan-ja-tietoturvallisen-kayton
- Sitra study "A Finnish Model For The Secure And Effective Use of Data"
  - Lessons learned from Sitra's Isaacus project
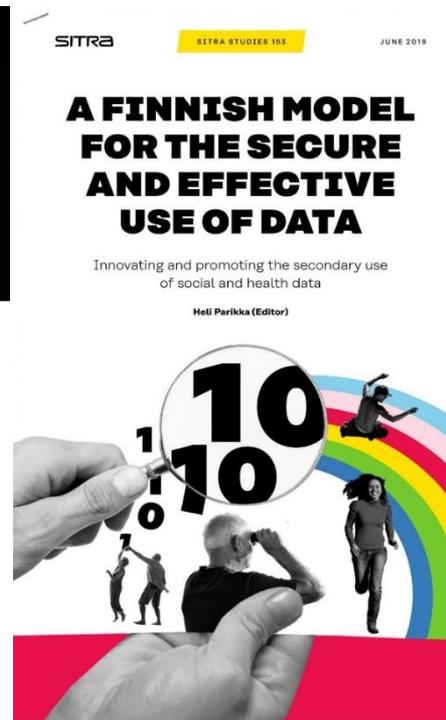 - https://www.sitra.fi/en/publications/a-finnish-model-for-the-secure-and-effective-use-of-data/

SITRA

NEXT PHASE FOR VALUE CREATION – COMBINING REGULATED DATA WITH DATA COLLECTED BY INDIVIDUALS
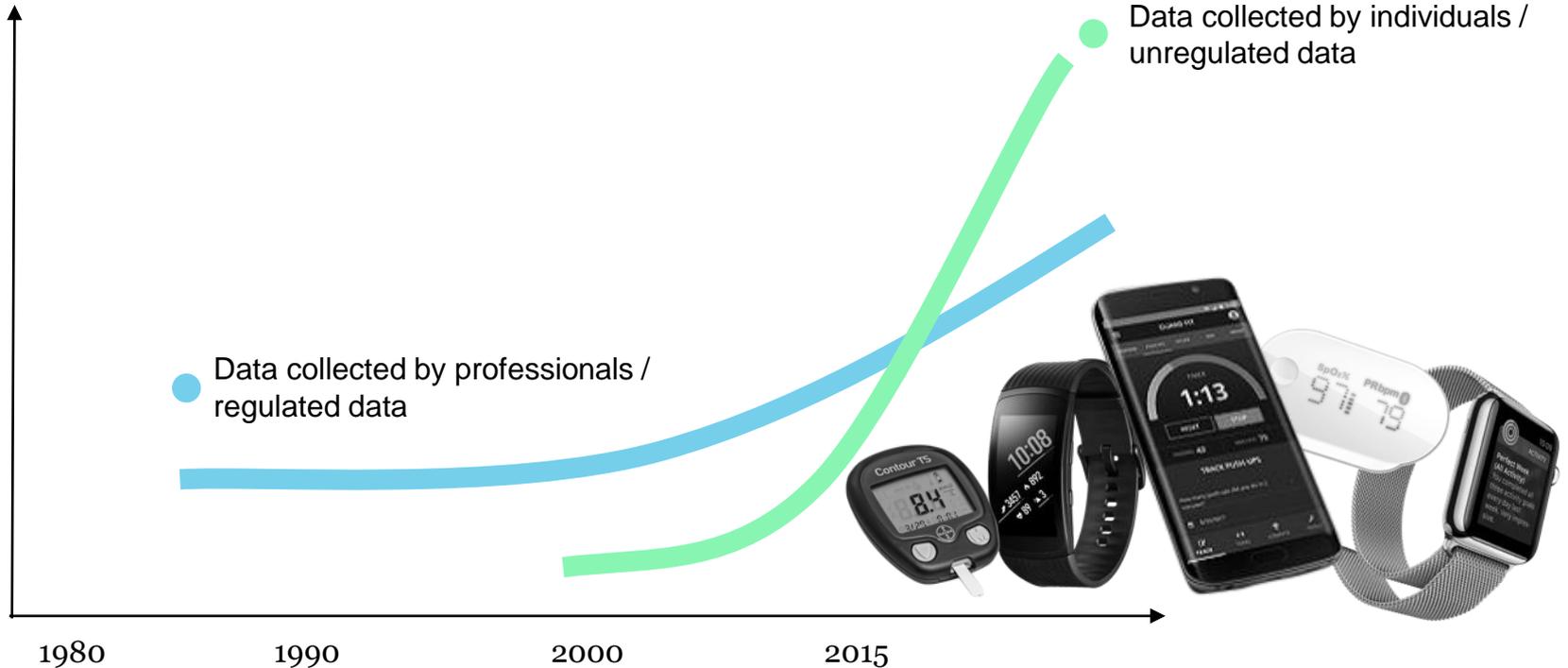
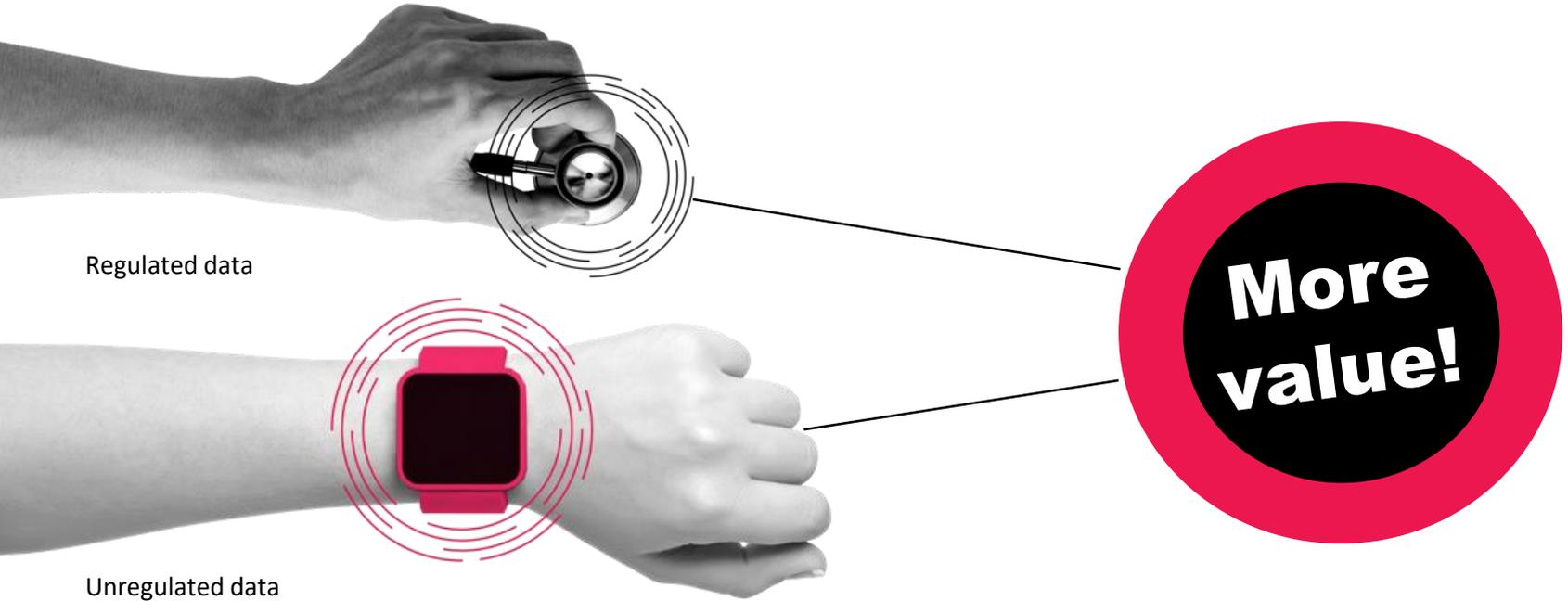Project IHAN 2018–(2021)

Introduction to Sitra's IHAN®

FAIR DATA
ECONOMY

SITRA

Lots of new data sources
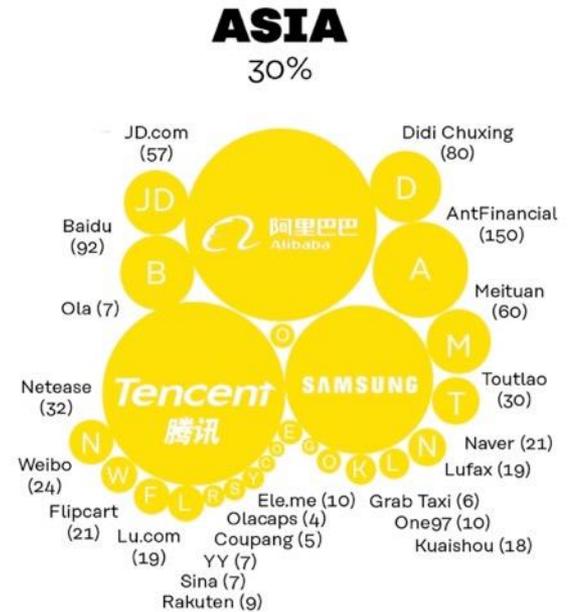**– health data being one example**

Who creates the data in the future?

Data collected by individuals / unregulated data

Data collected by professionals / regulated data

1980   1990   2000   2015

SITRA

Combining regulated data with data collected by individuals leads to next phase for value creation

Regulated data

Unregulated data

More value!

SITRA

Europe's role in data economy?

USA
66%

Pinterest (12) P
Uber (48) U
Netfilx (157) N
Snap (16)
Slack (8) S
Twitter (31) T
WeWork (21)
Airbnb (31)
Ebay (40) E
Salesforce (99)
Booking H. (103)
Match (12)
Intuit (53)
Square (25)
Lyft (11)
Stripe (9)
Social Finance (4)
PayPal (99)
Credit Karma (4)
Instacart (4)
Dropbox (12)

EUROPE
3%

Spotify (30)
Wirecard (21)
Zalando (13)
Mail.ru (6)
SAP (145)
Scout.24 (6)
Adyen (8)
Yandex (12)
Delivery Hero (8)

AFRICA
2%

Naspers (112) N

ASIA
30%

JD.com (57) JD
Baidu (92) B
Ola (7)
Netease (32)
Weibo (24)
Flipcart (21)
Lu.com (19)
Didi Chuxing (80) D
AntFinancial (150) A
Meituan (60) M
Toutlao (30) T
Naver (21)
Lufax (19)
Ele.me (10)
Olacaps (4)
Coupang (5)
YY (7)
Sina (7)
Rakuten (9)
Grab Taxi (6)
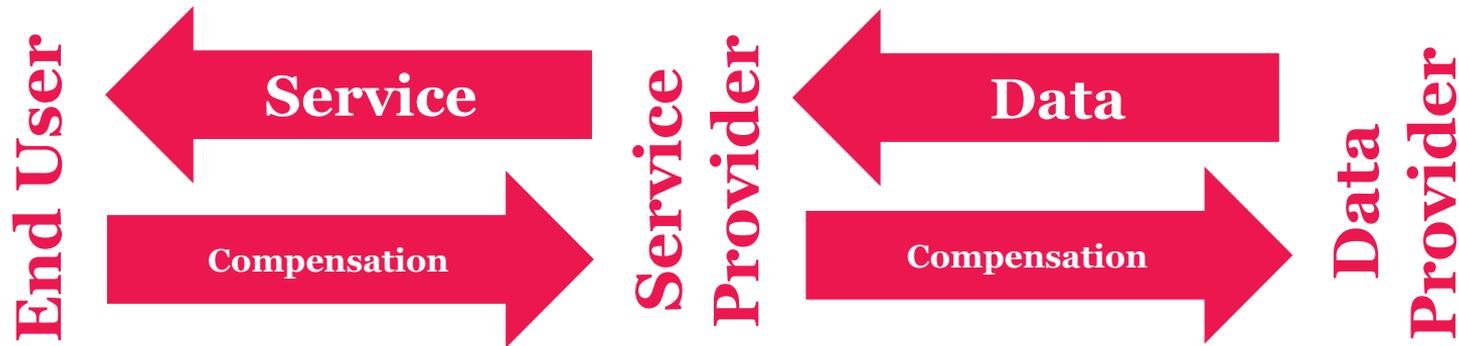One97 (10)
Kuaishou (18)

Quelle: Netzoekonom.de/platformeconomy.com   Idee: Peter C. Evans

SITRA

Maintaining **trust** – Europe's biggest opportunity?
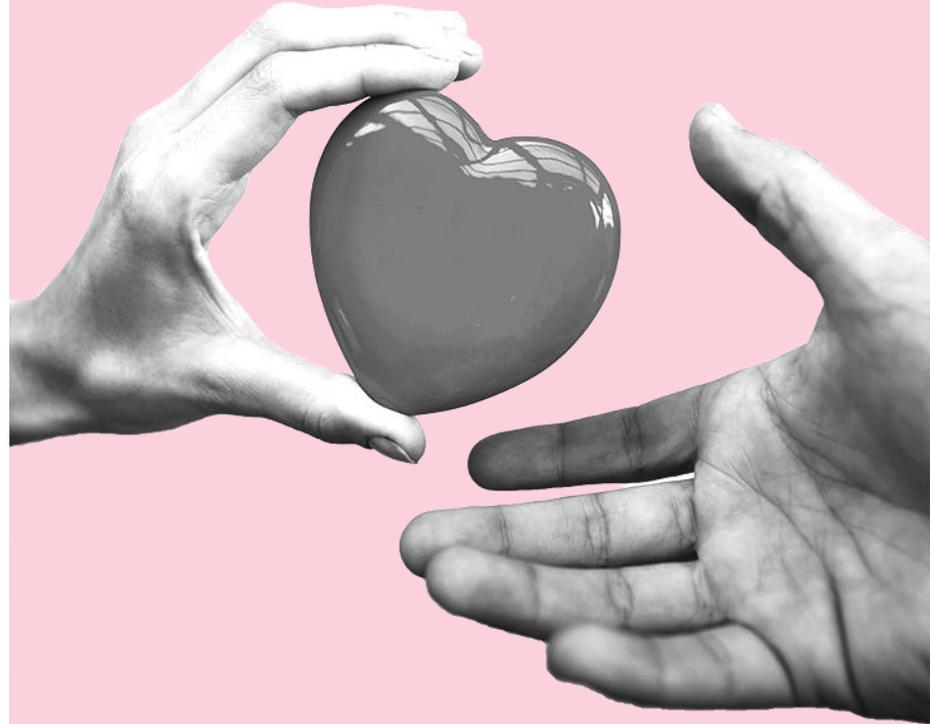
Data economy must be **FAIR** for
End User
Service Provider
Data Provider

Great timing!

#GDPR

General Data Protection Regulation and especially Article 20
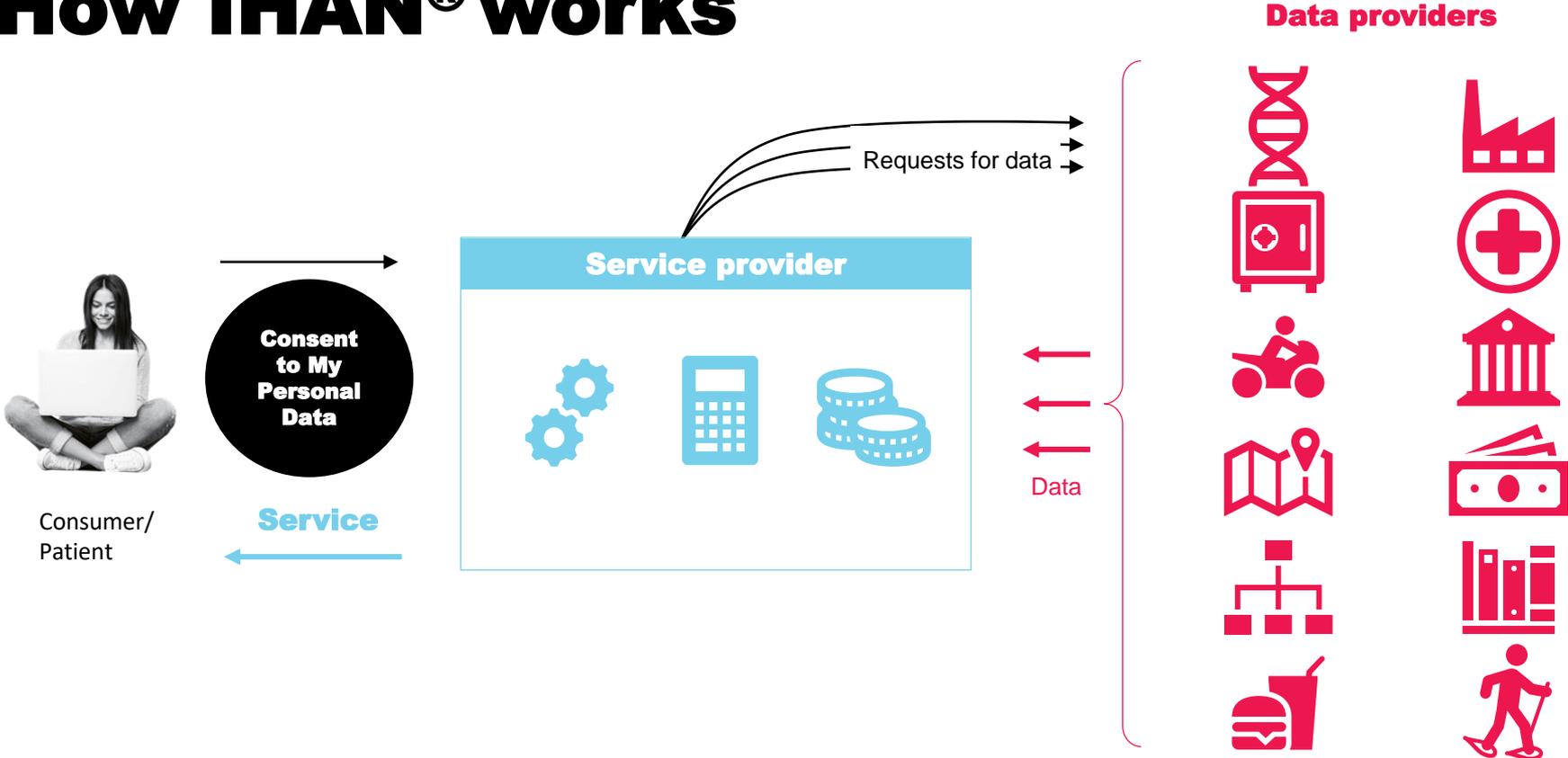
#PSD2

Payment Services Directive

#eIDAS

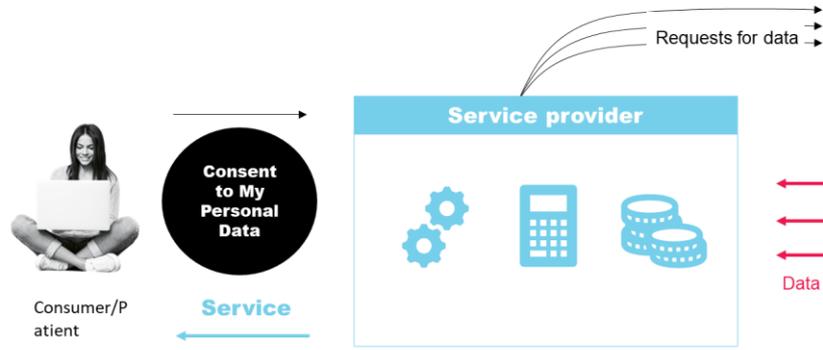EU regulation on electronic identification and trust services for electronic transactions

SITRA

IHAN® project

- Building the foundation for a **fair** and functioning **data economy** and creating a **method for data exchange**.
- Setting up **European level rules and guidelines** for fair use of data.
- **Piloting** new concepts based on personal data in **collaboration** with pioneering **businesses.**
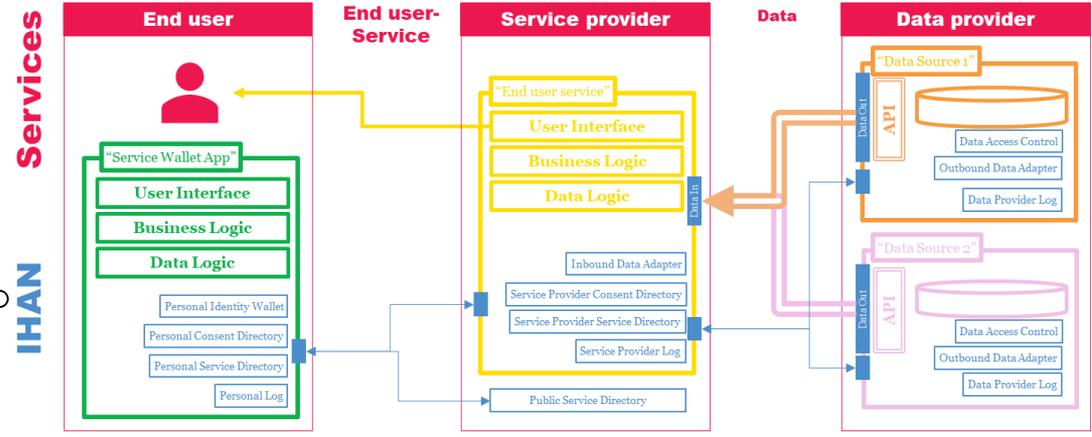- Project runs until 2021

SITRA

How IHAN® works

Data providers

Consumer/Patient

Consent to My Personal Data

Service

Service provider

Requests for data

Data

SITRA

IHAN – enabling framework

Data providers

Requests for data

Service provider

Consent to My Personal Data

Consumer/Patient

Service

Data

Data "Plumbing System"

Services

IHAN

End user-Service

Data

End user	Service provider	Data provider

"Service Wallet App"
- User Interface
- Business Logic
- Data Logic
- Personal Identity Wallet
- Personal Consent Directory
- Personal Service Directory
- Personal Log

"End user service"
- User Interface
- Business Logic
- Data Logic
- Inbound Data Adapter
- Service Provider Consent Directory
- Service Provider Service Directory
- Service Provider Log
- Public Service Directory

"Data Source 1"
- API
- Data Out
- Data In
- Data Access Control
- Outbound Data Adapter
- Data Provider Log

"Data Source 2"
- API
- Data Out
- Data Access Control
- Outbound Data Adapter
- Data Provider Log

SITRA

IHAN® work packages and outcomes

H1 - 2019 **H2 - 2019** **2020 -**

Business Model

IHAN fair data ecosystem principles

Organization level Ecosystem Model

Playbook and References XYZ

Fair Data Economy in EC Workplans and Funding Programs

Overall Business Model for Fair Data Economy

Governance Framework and Organisational Readiness

ICT Proposal Day

My Data

POLICIES

Vision Europe thought piece

Fair Data Economy as a Theme for EU Presidency

Fair Data Label

Green Paper

EU Framework for Data Economy

Ethical Guidelines

Mindset Change

Specifications for IHAN Standard

CONSUMERS

Digital Behavior Profiles

Gartner Analysts ♥ IHAN

Inventory of Governance Models

Citizen Survey: Use of Digital Services

Company Survey

IHAN Pilots as Technical Proofs

National Steering Board organised

IHAN Blueprint

CEN-CENELEC WS

COMPANIES

Enabling Technology   **Governance**

SITRA

Business Model

Mindset Change

H1 - 2019

H2 - 2019

2020 -

IHAN fair data ecosystem principles

Organization level Ecosystem Model

Playbook and References XYZ

Fair Data Economy in EC Workplans and Funding Programs

Overall Business Model for Fair Data Economy

Governance Framework and Organisational Readiness

ICT Proposal Day

My I...

POLICIES

Vision Europe thought piece

Green Paper

Fair Data Economy as a Theme for EU Presidency

EU Framework for Data Economy

Ethi...

CONSUMERS

Digital Behavior Profiles

G...

Citizen Survey: Use of Digital Services

Company Survey

COMPANIES

IB...

Enabling Technology

Governance

Rulebook describes companies' legal, business, technical and governance framework in the data ecosystems.

Uudistamo and Playbook renew business models and guides companies:
1) to understand the advantages and value potential in fair data economy
2) 2) to assess company's current state and identify new business model(s)
3) to understand which capabilities and technologies are needed
4) to design the transformation journey

SITRA

Business Model

Mindset Change

H1 - 2019

H2 - 2019

2020 -

IHAN fair data ecosystem principles

Organization level Ecosystem Model

Playbook and References XYZ

Fair Data Economy in EC Workplans and Funding Programs

Overall Business Model for Fair Data Economy

Governance Framework and Organisational Readiness

ICT Proposal Day

My Data

POLICIES

Vision Europe thought piece

Green Paper

Fair Data Economy

Fair Data

EU Framework Data Economy

CONSUMERS

Dig

Policy Brief: A Roadmap for a Fair Data Economy for EU policy makers with the Brussels-based think tank and policy network Lisbon Council

https://www.sitra.fi/en/publications/roadmap-fair-data-economy/

fications IHAN ndard

Inventory of Governance Models

Citizen Survey: Use of Digital Services

s as roofs

National Steering Board organised

COMPANIES

ELEC

Enabling Technology

Governance

SITRA

H1 - 2019　　H2 - 2019　　2020 -

Business Model

IHAN fair data ecosystem principles

Organization level Ecosystem Model

Playbook and Reference XYZ

Overall Business Model for Fair Data Economy

Fair Data Economy in EC Workplans and Funding Programs

ICT Pro

...mework and ...Readiness

POLICIES
Vision Europe thought piece

Green Paper

EU Framework for Data Economy

Mindset Change

CONSUMERS

Digital Behavior Profiles

Citizen Survey: Use of Digital Services

Company Survey

Inventory of Governance Models

National Steering Board organised

COMPANIES

Enabling Technology　　**Governance**

Vision Europe dialogue and a workshop with think tanks about fair data economy

Partners: Bertelsmann Stiftung (Gütersloh, Germany), Bruegel (Brussels, Belgium), Calouste Gulbenkian Foundation (Lisbon, Portugal), Chatham House (London, UK), Compagnia di San Paolo (Torino, Italy), Notre Europe Jacques Delors Institute (Paris, France), CASE – Center for Social and Economic Research (Warsaw, Poland) and Sitra (Helsinki, Finland)

https://www.sitra.fi/en/events/vision-europe-dialogue-2019/

SITRA

H1 - 2019 **H2 - 2019** **2020 -**

Business Model

IHAN fair data ecosystem principles

Organization level Ecosystem Model

Playbook and References XYZ

Fair Data Economy in EC Workplans and Funding Programs

Overall Business Model for Fair Data Economy

ICT Proposal Day

My Data

POLICIES
Vision Europe thought piece

Green Paper

Fair Data Economy as a Theme for EU Presidency

EU Framework for Data Economy

Ethical Gui...

Mindset Change

CONSUMERS

Digital Behavior Profiles

Citizen Survey: Use of Digital Services

Company Survey

Gartner A...
♥ IHA...

COMPANIES

IHAN Blu...

Collaboration with an international non-profit organisation MyData Global that aims to enhance people's rights concerning their personal data

Sitra is a founding member and Jaana Sinipuro was elected in November 2018 to the board of directors

https://www.sitra.fi/en/news/sitra-starts-work-founder-member-mydata-global/

Enabling Technology **Governance**

SITRA

Survey results of Europeans' attitudes towards the use of personal data

8,004 responses from 4 countries: Finland, Netherlands, Germany, France

Conducted 12/2018

https://www.sitra.fi/en/publications/use-digital-services/

H1 - 2019

H2 - 2019

2020 -

Business Model

IHAN fair data ecosystem principles

Organization level Ecosystem Model

Playbook and References XYZ

Fair Data Economy in EC Workplans and Funding Programs

Overall Business Model for Fair Data Economy

ICT Pro...

...mework and Readiness

POLICIES

Vision Europe thought piece

Green Paper

Fair Data ... as a The... EU Presi...

EU Framework for Data Economy

Mindset Change

CONSUMERS

Digital P...

Citizen Survey: Use of Digital Services

Company Survey

Inventory of Governance Models

Technical Proofs

National Steering Board organised

COMPANIES

IHAN Blueprint

CEN-CENELEC WS

Enabling Technology

Governance

SITRA

EUROPEANS' ATTITUDES TOWARDS THE USE OF PERSONAL DATA

Survey results.

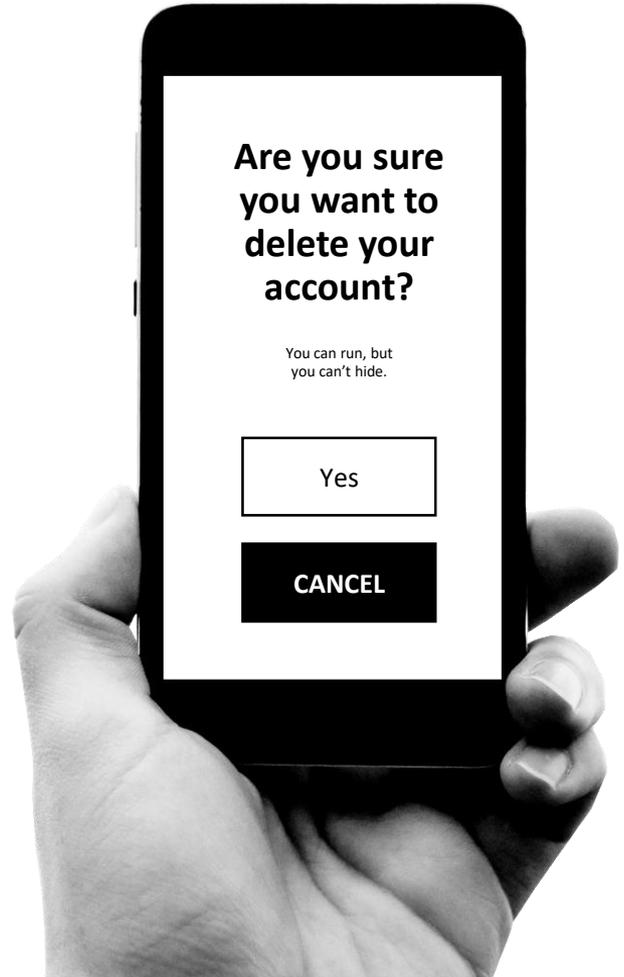https://www.sitra.fi/en/publications/use-digital-services/

SITRA

Survey details

- **8,004 responses**. Finland 2,000, Netherlands 2,000, Germany 2,004, France 2,000.

- **Respondents aged 18-65**

- **Survey data was collected** in November and December 2018.

- **The study was carried out** using the Kantar TNS online panel.

- **The questions were designed by Sitra** in co-operation with Kantar TNS.

SITRA

How well people know GDPR.

Are you sure you want to delete your account?

You can run, but
you can't hide.

Yes

CANCEL

SITRA

"What rights do you believe you have concerning personal data the service provider has gathered on you?"*

GDPR rights 🔍

58% The right to know how and for what purpose my personal data is used

58% The right to have access to any personal data the service provider has collected on me

54% The right to have any personal data collected on me erased

21% The right to move any personal data from one system to another

*The figures are averages for the surveyed countries

SITRA

TRICK QUESTION!

1/3

The right to receive a notification from the service provider when my personal data is being sold or handed over to a third party

Finland	**30%**
Netherlands	**37%**
Germany	**43%**
France	**31%**

SITRA

What is the effect of data leaks on people's behaviour?

30% Unaffected by the news

27% Have changed privacy settings on some services

8% ...on all services

70%

24% Have reduced the use of some services

15% Have stopped using some services

*The figures are averages for the surveyed countries. The respondents were allowed to choose multiple responses.

SITRA

1/10

has requested access to their own personal information

Finland	**7%**
Netherlands	**11%**
Germany	**9%**
France	**8%**

SITRA

Lack of trust is an obstacle

Data plz?

2/5

Strongly agree, agree

Finland	**43%**
Netherlands	**38%**
Germany	**48%**
France	**39%**

SITRA

"I am **not willing** to provide or allow access **under any conditions** about myself or my family to a service provider when it comes to…"

	ALL
Information about my wealth and spending	**40%**
Personal data or data about my personal history	**35%**
Information about my health or genetics	**30%**
My spatial data, devices I use or the way I use devices	**27%**
Information about my values or beliefs	**27%**
Information about my consumption habits or my purchases	**17%**

SITRA

"How much do the following features **increase your trust** towards a service provider...?"

"I can accept or forbid the selling of my data to a third party"

56%

Very much, somewhat

SITRA

Having the power to make decisions is important to people.

SITRA

"Consumer goods have the Fair Trade label. Do you believe a similar label is important for services that use data fairly?"

66%

Very important, somewhat important

Finland	**71%**
Netherlands	**63%**
Germany	**70%**
France	**61%**

SITRA

HIGHLIGHTS

Let's recap…

- **GDPR rights are quite well-known and the change of actions has already started.**

- **The lack of trust is an obstacle.** It prevents people from using digital services.

- **Data leaks have had a big effect on people's behaviour.** Approx. 70 % have either changed privacy settings and reduced or stopped using some services.

- **Two out of three respondents want fair digital services to be identifiable**.

- **Having the power to make decisions is important to people.**

SITRA

H1 - 2019

H2 - 2019

2020 -

Business Model

IHAN fair data ecosystem principles

Organization level Ecosystem Model

Playbook and References XYZ

Fair Data Economy in EC Workplans and Funding Programs

Overall Business Model for Fair Data Economy

Governance Framework and Organisational Readiness

ICT Proposal Day

My Data

POLICIES

Vision Europe thought piece

Fair Data Economy as a Theme for EU Presidency

Fair Data

Green Paper

EU Framework for Data Economy

Mindset Change

CONSUMERS

Digital Behavior Profiles

...entory of ...ernance ...Models

Citizen Survey: Use of Digital Services

Company Survey

Digital profile challenge – an online test for citizens to find out what kind of a digital user they are and how they could improve their digital behavior

...tional ...ng Board ...anised

COMPANIES

Enabling Technology

Governance

SITRA

H1 - 2019　　**H2 - 2019**　　**2020 -**

Business Model

IHAN fair data ecosystem principles

Organization level Ecosystem Model

Playbook and References XYZ

Fair Data Economy in EC Workplans and Funding Programs

Overall Business Model for Fair Data Economy

Governance Framework and Organisational Readiness

ICT Proposal Day

My Data

Fair Data Economy as a Theme for EU Presidency

Fair Data

POLICIES

Vision Europe thought piece

Green Paper

EU Framework for Data Economy

Mindset Change

CONSUMERS

Digital Behavior Profiles

ventory of vernance Models

Citizen Survey: Use of Digital Services

Company Survey

The results of a data economy business survey conducted in Finland, France, Germany and the Netherlands will be published in 19 September 2019

tional ng Board anised

COMPANIES

Enabling Technology　　　　　　　　　**Governance**

SITRA

H1 - 2019 **H2 - 2019** **2020 -**

Business Model

IHAN fair data ecosystem principles

Organization level Ecosystem Model

Playbook and References XYZ

Fair Data Economy in EC Workplans and Funding Programs

Overall Business Model for Fair Data Economy

Governance Framework and Organisational Readiness

ICT Proposal Day

My Data

Vision Europe

Fair Data Economy

Fair Data Label

Mindset Change

A way to identify, certificate or reward fair data actors

IHAN approved?, Fair Data Label?, Fair Data Award?

Guidelines

Specifications for IHAN Standard

Inventory of Governance Models

Partner Analysts ♥ IHAN

IHAN Pilots as Technical Proofs

National Steering Board organised

IHAN Blueprint

CEN-CENELEC WS

Enabling Technology **Governance**

SITRA

H1 - 2019 **H2 - 2019** **2020 -**

Business Model

Mindset Change

IHAN blueprint document describes functional and non-functional business and technical requirements to be used in technical pilot projects.

It is our understanding of how components can be built according to IHAN requirements.

The IHAN Blueprint 2.0 will be further developed in technical workshops.

https://www.sitra.fi/en/articles/ihan-blueprint/

Fair Data Economy in EC Workplans and Funding Programs

Playbook and References XYZ

Governance Framework and Organisational Readiness

Data

Fair Data Label

al Guidelines

Specifications for IHAN Standard

Inventory of Governance Models

rtner Analysts ♥ IHAN

IHAN Pilots as Technical Proofs

National Steering Board organised

COMPANIES

IHAN Blueprint

CEN-CENELEC WS

Enabling Technology **Governance**

SITRA

Business Model

Mindset Change

IHAN fair data

Organization level

Fair Data Economy in EC Workplans and Funding Programs

and XYZ

Governance Framework and Organisational Readiness

Data bel

Specifications for IHAN Standard

Inventory of Governance Models

IHAN Pilots as Technical Proofs

National Steering Board organised

CEN-CENELEC WS

13 ongoing pilots:

Farmidata Distributed Ledger
Sandbox of Trust
MyTravelHealth
Blood sugar monitoring on diabetic children
Citizen-centric diabetes data on PHR platforms
Generalizing consent for blue-button based data services
Fairdrop consent receipt management for personal data exchange
Minerva – Your Digital Wallet
MyCelia Creative Passport
Lifelong battle fit
Data-platform for top athletes
Open Supply Space
https://www.sitra.fi/en/projects/ihan-pilot-projects/

Enabling Technology   **Governance**

SITRA

Business Model

Mindset Change

H1 - 2019

H2 - 2019

2020 -

Fair Data Economy in EC Workplans and Funding Programs

Governance Framework and Organisational Readiness

Specifications for IHAN Standard

Inventory of Governance Models

IHAN Pilots as Technical Proofs

National Steering Board organised

CEN-CENELEC WS

Enabling Technology

Governance

Sitra and SFS Finland organize a series of workshops in accordance with the rules and processes of the European Committee for Standardization CEN-CENELEC to refine the technical requirements of the IHAN architecture's key concepts through an open process.

Results are published as a CEN or CENELEC Workshop Agreement (CWA). The ultimate goal is to further develop CWA by either as a technical committee document or even as a European Standard (EN).

Kick-off meeting was held in January 2019.

https://www.sitra.fi/en/projects/ihan-standardisation-workshops/

SITRA

Business Model

IHAN fair data ecosystem principles

Organization level Ecosystem Model

Fair Data Economy in EC Workplans and Funding Programs

Overall Business Model for Fair Data Economy

Framework and onal Readiness

ICT

POLICIES

Vision Europe thought piece

Fair D as EU

Green Paper

EU Framework for Data Economy

Mindset Change

CONSUMERS

Digital Be Profil

Citizen Survey: Use of Digital Services

Co Su

ns

Inventory of Governance Models

COMPANIES

National Steering Board organised

Realising Finland as an IHAN testbed, utilising EU chair 2019 country status, engaging ministries, taking fair data economy on the EU roadmap and funding programmes to enable scaling IHAN to all Europe.

Guidance, commitment and national coordination.

Ministry of Transport and Communications, Ministry of Economic Affairs and Employment, Ministry of Finance, Business Finland, Technology Industries of Finland, Population Register Centre, The State Development Company Vake Oy

Enabling Technology **Governance**

SITRA

Business Model

Mindset Change

H1 - 2019

H2 - 2019

2020 -

IHAN fair data ecosystem principles

Organization level Ecosystem Model

Playbook and References XYZ

Fair Data Economy in EC Workplans and Funding Programs

Overall Business Model for Fair Data Economy

Governance Framework and Organisational Readiness

ICT Proposal Day

My Data

POLICIES

Vision Europe thought piece

Fair Data Economy as a Theme for

Fair Data

Green Paper

EU Framework for Data Economy

CONSUMERS

Digital Pr

Inventory of Governance Models

Citizen Survey: Use of Digital Services

National Steering Board organised

COMPANIES

Home base for IHAN components and outputs after Sitra's project ends

Enabling Technology

Governance

SITRA

Make data work for people's health! – A Webinar for Pioneers in data-driven Health Innovations on 16 September

As experts in digital health, Sitra and EHTEL are pleased to invite you to a joint webinar around the IHAN approach for trustfully personalised health services.

SHARE

JOIN SKYPE

September 16, 2019 at 3:00 pm - 4:30 pm (webcast 15:00 - 16:30)

Online

https://www.sitra.fi/en/events/ihan-webinar-in-data-driven-health-innovations/

SITRA

sitra.fi
@sitrafund

SITRA