JUHANA RIEKKINEN
University Lecturer in Legal Informatics, LL.D. trained on the bench
University of Lapland, Faculty of Law
E-mail: juhana.riekkinen@ulapland.fi | Publications: https://research.ulapland.fi/en/persons/juhana-riekkinen

MAITE

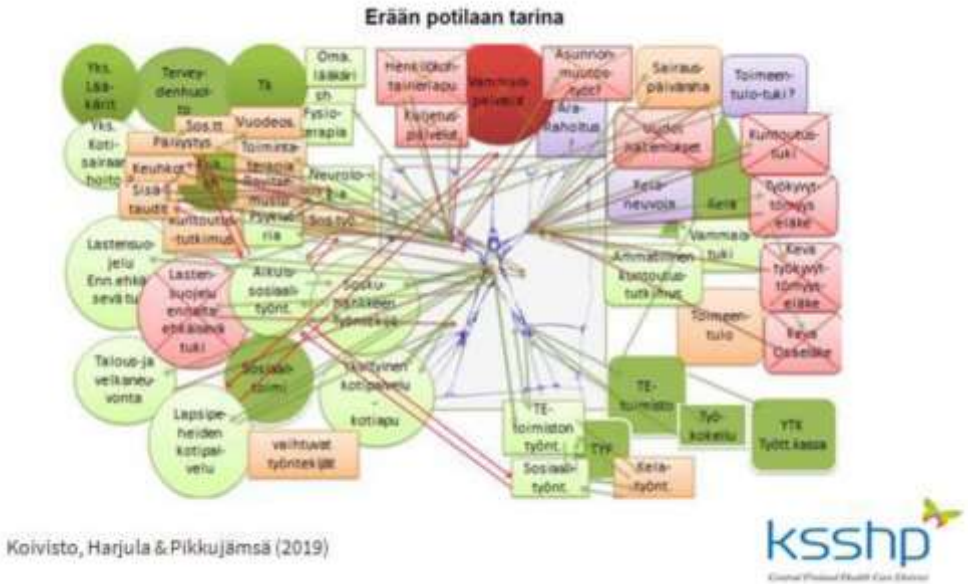
Using artificial intelligence to predict escalation of social and health services needs – national development pilot concerning elderly clients

Nordic Conference on Law and Information Technology 2022

Project updates across the Nordics
2 November 2022, 13:15–14:15
Copenhagen

What is the MAITE project?

THE PROBLEM



Koivisto, Harjula & Pikkujämsä (2019)

ksshp

GOALS

- Development of an AI-based (ML) model to identify elderly individuals with increased need for multi-sectoral [social and health] services in the future
  - Earlier identification
  - Better and more timely resource allocation
  - ➢ Mitigation of service needs by offering support at an early stage and by preventing accumulation of problems
- Pilot in the Päijät-Häme region
- The model as well as experiences and results of the project are to be further used in developing predictive AI models for other regions and other health and social services customer groups

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The MAITE project

PROJECT PARTNERS

Finnish institute for health and welfare

LAPIN YLIOPISTO
UNIVERSITY OF LAPLAND

HELSINGIN YLIOPISTO
HELSINGFORS UNIVERSITET
UNIVERSITY OF HELSINKI

VTT

FCAI Finnish Center for Artificial Intelligence

päijät sote

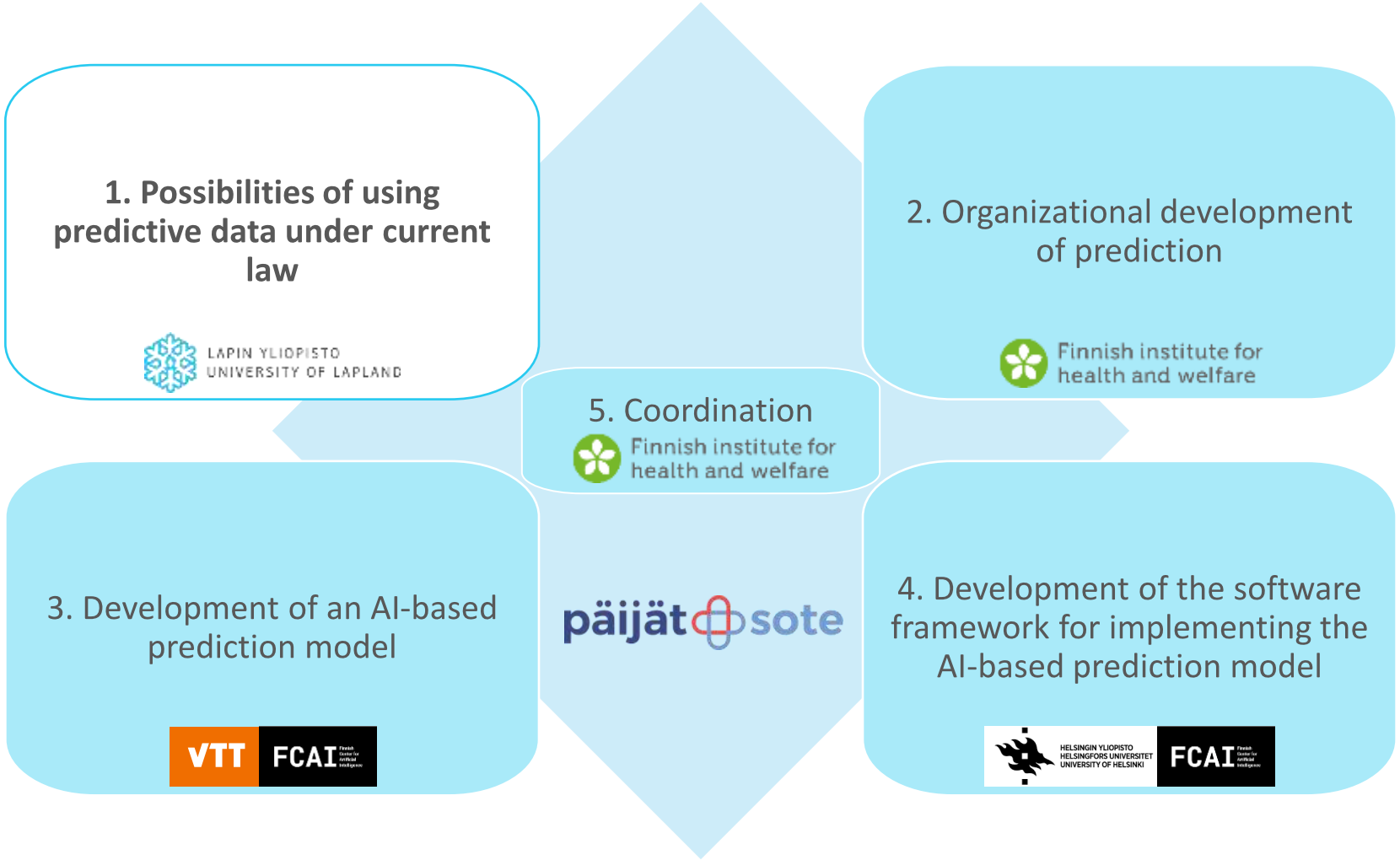
FUNDER

MINISTRY OF SOCIAL AFFAIRS AND HEALTH

TIMEFRAME

SEPTEMBER **2021** → JUNE **2023**

Work packages



University of Lapland in the MAITE project

RESPONSIBILITIES

- WP1: The possibilities of using predictive data under current law
  - Analysis of GDPR (EU) 2016/679 and the national Act on the Secondary Use of Health and Social Data (552/2019)
    1 March 2022 – 31 December 2022
  - Interviews of key actors
    1 December 2021 – 30 September 2022
  - Analysis of proposed* EU legislation
    1 November 2022 – 30 June 2023

LAPIN YLIOPISTO
UNIVERSITY OF LAPLAND
For the North – For the World

TEAM

- University Lecturer **Juha Vesala** (PI)
- University Lecturer **Juhana Riekkinen**
- Doctoral researcher **Viivi Rankka**

- Advisory board member: Professor **Rosa Ballardini**

[Law, Technology and Design Thinking Research Group
www.ulapland.fi/ltdt]

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RESEARCH QUESTIONS

1) Possibilities and limitations of data protection law in Finland:
   a) What general legal bases (GDPR) are available for processing personal data for the purposes of developing and utilizing predictive models in the social and health care sector?
   b) What are the possibilities, limitations and risks relating to the Finnish Secondary Use Act in regard to developing and utilizing predictive models for the social and health care sector?
2) Mapping of challenges: which aspects of current law or practice have been seen as problematic by actors in the field?
3) What kind of effects will EU legislative proposals related to data and AI have for predictive models in the social and health care sector?
   a) Data Governance Act (data altruism, regulation on the reuse of PSI)
   b) Artificial Intelligence Act (requirements for the use and development of applications (incl. data) in the social and health care sector)

OUTPUT

- Written study report
- Key findings to be included in the development manual on AI-based prediction of multi-sectoral service needs (common output of different WPs)

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Thank you very much!
Tack så mycket!
Tusen takk!
Mange tak!
Paljon kiitoksia!

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