Building Trusted Digital Societies

Tietoevry Veturi Research Roadmap

Development initiatives for co-innovation and research collaboration





We want to change how IT business is run by building a Trusted Digital Society

The Tietoevry Veturi project accelerates the development of trusted technologies, develops Finland's technological know-how and helps Finnish IT companies to build globally scalable business value from responsible data-enabled platforms



Develop **trusted data-enabled platforms**, building on cutting-edge technology, to create scalable business value



Build **re-usable technology modules** and use open-source components to develop solutions faster and more cost efficiently



Co-create **platform business models** together with the Finnish IT ecosystem, expanding in global markets



Strengthen long-term **industry and academia collaboration** for future competitiveness



Trusted Digital Societies programme overview

We focus on horizontal research initiatives and three vertical industry specific topics

| | Banking | Care | Energy & City | | | | |
|---|--|--|---|--|--|--|--|
| HORIZONTAL RESEARCH INITIATIVES →Image: Second | | | | | | | |
| VERTICAL INDUSTRY TOPICS | Real-time Bill Payment Financial Crime Prevention Financial Insights and Ecosystem Models | Digital Treatments & Remote Home services Digital Self-care & Remote Diagnostics Data & Al-supported Insights and Decisions | Energy System Planning and Maintenance Automatic Metering Solutions for Green Cities | | | | |

Ecosystem approach

We are looking for research and industrial partners for building joint technology capabilities in the horizontal themes and developing commercialization opportunities in the industry specific topics

1. Build joint technology capabilities

Business Finland co-creation projects Academy of Finland projects

HORIZONTAL RESEARCH INITIATIVES 2. Develop joint commercialization opportunities Business Finland co-innovation projects

INDUSTRY-DRIVEN PROOFS-OF-VALUE

VERTICAL INDUSTRY TOPICS

3. Scale and internationalize

Collaborative go-to-market Engagement Framework & Scaling

Business Finland research to business activity

Developing export opportunities

SPINOFF EFFORT

VETURI SCOPE

Horizontal Technologies Roadmap 1/2

We want to initiate research collaboration in horizontal technologies enable long-term business infrastructure, establish common technology-specific platforms and ensure compliance to EU-level acts and regulations.

Machine learning

| | 0 | | | | | |
|--|--------------------------|--|------------------------|---|-----------------|--|
| | | Next genera | tion self-organized ML | methods | | |
| | | | ML & analytics lifecyc | ele management | | |
| | | Proofs-of-value: Machine Learning Lifecycle Management | | | | |
| Trustworthy AI | Trustworthy Al | | | | | |
| Trustworthy and resource efficient AI | | | | | | |
| | | AI system certification prototype | | | | |
| | | | | | AI platform PoV | |
| Digital ID | | | | | | |
| Trust in consumer-to-machine & machine-to machine digital interactions | | | | | | |
| | | Digital identity white label platform | | | | |
| | | | | PoVs for C2M & M2 | M interactions | |
| | | | | | | |
| RESEARCH TOPICS | INDUSTRIAL COLLABORATION | PROOFS-OF-VALUE | | For inquiries on collaboration opportur please contact Iftikhar Ahmad (iftikhar. | | |

Horizontal Technologies Roadmap 2/2

We want to initiate research collaboration in horizontal technologies enable long-term business infrastructure, establish common technology-specific platforms and ensure compliance to EU-level acts and regulations.

Data orchestration and collaboration

| Anonymisation of data for EU data regulation | | | | | | |
|---|--|---|-----------------------------------|------------------------------------|----------------------|--|
| | Secure, scalable and adaptable data ecosystem platform | | | | | |
| | | | | Data orchestration | platform PoV | |
| Secure comm | unications | | | | | |
| | Digital security twins | | | | | |
| Security methods for massive IoT systems | | | | | | |
| Digital ID & massive IoT platform development | | | | | | |
| | | | Proofs-of-valu | e for Digital ID and massive loT p | latform | |
| Ecosystem models, compliance and operations framework | | | | | | |
| Governance & business models for ecosystems & platforms | | | | | | |
| | | E | cosystem strategies and operating | models for different industries | | |
| | | | | | Framework & platform | |



INDUSTRIAL COLLABORATION

RATION PROOFS-OF-VALUE

For inquiries on collaboration opportunities in enabling technologies, please contact Iftikhar Ahmad (iftikhar.ahmad@tietoevry.com).

for ecosystems

Banking Roadmap

We call for strong industry and cross industry collaboration to design both solutions and new Target Operation Models for new common banking platforms

| Ecosystem models for bill payment | | | | | |
|--------------------------------------|-------------------------------------|---------------------------|--------------------------|--|--|
| | Real-t | ime bill payment platform | | | |
| | | | | Bill payment proofs-of-value | |
| | | | | | |
| Real-time financial crime prevention | | | | | |
| | Financial Crime Prevention platform | | | | |
| | | | | Proofs-of-value on Financial crime prevention | |
| | | | | | |
| | | Financial | insights and ecosystem i | models | |
| | | Digital identity wh | nite label platform | | |
| | | | Proot | fs-of-value on Financial insights | |
| | | | | | |
| CH TOPICS | INDUSTRIAL COLLABORATION | PROOFS-OF-VALUE | | For inquiries on collaboration opportunities in Banking, please contact Sami Uski (sami.uski@tietoevry.com). | |

RESE

Care Roadmap

We call for collaborative research and industry-specific ecosystems development in the Veturi project to build capabilities for new data-driven Citizen and Patient engagement services for Digital Selfcare, Digital Treatments and Remote Care - and to support continuous assessment of the services and related care outcomes.

| | | Data & Al | Platforms for the Ecosystem | n | |
|----------------|--------------------------|------------------------------|--------------------------------|------------------------------|-----------------|
| | Data and A | I/Analytics Platform for Pre | eventive and Personalized Care | ý | |
| | | Embedded Ca | re Effectiveness Evaluation | | |
| | IoM | T Device (consumer & mec | lical) Connectivity | | Proofs-of-value |
| | | Digital | Treatments & Remote Care | | |
| | D | igital Clinic & Remote diag | nostics | | |
| | Digit | al Care Pathways & Digital | Therapeutics | | |
| | | | Remote Home Monitoring | | Proofs-of-value |
| | | | Digital Wellbeing | | |
| | | Preventive Ca | re Solutions | | |
| | | | | | Proofs-of-value |
| | | Platform for | Health Ecosystem Orchestra | tion | |
| | | | | | |
| ESEARCH TOPICS | INDUSTRIAL COLLABORATION | PROOFS-OF-VALUE | Forir | nquiries on collaboration of | re, |

Energy & City Roadmap

We call for collaboration with research and industry stakeholders to build capabilities in new power grid design methods, automatic metering, solutions for distributed energy management, as well as decarbonization of energy use in municipal infrastructures.

| Al for Energy System Planning, Maintenance and Management | | | | | |
|---|--|------------|--|--|--|
| | Energy System Planning Platform | | | | |
| | Solutions for Facility Cluster Energy Management | | | | |
| | Proofs-of-value for Energy System Planning and | Management | | | |

Al for Managing Advanced Metering Infrastructure & Data

Advanced Metering Platform & Ecosystem

Proofs-of-value for AI-Driven Advanced Metering

Green Energy Transition in Cities

Data-driven Energy Management Decarbonization of Energy Use in Municipal Infrastructures

Proofs-of-value for Data-Driven Energy & Decarbonization Ecosystems in Cities

RESEARCH TOPICS

INDUSTRIAL COLLABORATION

PROOFS-OF-VALUE

For inquries on Energy and City collaboration opportunities, please contact Fredrik Jansson (fredrik jansson@tietoevry.com).

Contact us

General inquiries and more info: veturi.ecosystem@tietoevry.com https://tietoevry.com/veturi

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