Finnish AI Development Programme

Preliminary Study commissioned by

VAKE – the State Development Company of Finland



Background



- The Finnish Government has through various programmes opened resources and databases produced by Government-funded activities
- Finland supports top research in AI through the Academy of Finland Flagship FCAI and through the development of language resources for research through FIN-CLARIN and the Language Bank of Finland
- Big global companies have indicated that the Finnish language community is too small to be commercially interesting
- Finland needs targeted interventions to ensure the availability of productivity-enhancing AI services in Finnish in the public as well as in the private sector

Steering Group

- VAKE State Development Company (Pia Erkinheimo, Tuomas Teuri)
- Business Finland (Outi Keski-Äijö, Aki Parviainen)
- Technology Industries Finland (Alexander Törnroth)
- Aalto University FCAI (Mikko Kurimo)
- University of Helsinki FIN-CLARIN (Krister Lindén)

BUSINESS FINLAND Technology Industries of Finland

Collected opinions from and conducted interviews with more than 50 commercial and public organisations in Finland

Goal



- To support wide usability of **Finnish in various AI applications** and to develop services and technology to achieve this
- The main purpose of the study was to specify interventions that will enable the use of AI in Finnish to be channelled through a new or existing actor in the field
- To enable the development of open language resources for Finnish (e.g. language data and software) suitable for use in commercial enterprises





- 1. **Organization** for developing and maintaining Finnish language resources sustainability, development, training, benchmarking?
- 2. **Legal considerations** for an organization to be founded or expanding its operations to collect, use and communicate language data
- 3. Large, balanced, annotated **corpus of everyday speech**
- 4. Large multi-purpose text collection
- 5. Ensure that other already **publicly available data sets** are pre-processed and available **for commercial purposes**
- 6. Workbench for transliterating and annotating additional data
- 7. **Pre-trained language models** based on the language resources
- 8. Open source language software components for rapid prototyping

Next step



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