VÄYLÄ
Finnish Transport Infrastructure Agency

DigiRail project

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FINRAIL

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DigitalRail study project
- Finding out the best solution

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Qualitative target

- **Increasing capacity** on current Southern Finland commuter lines and main lines by 20% - by the most efficient means
- Study the **possibilities of ATO** on commuter lines
- Makes **accuracy of 95%+** possible
- The **availability** of railway traffic increases
- Higher level of **safety and security**
- Increase **positive environmental effects** and make energy saving possible

Target for cost-effectiveness

- Solutions are based on **cost and benefit calculations**
- **Total cost level optimisation** on Finnish level
- Optimising the timing of **onboard investments**

Technology target

- Solution is **modern** and takes into account the **life cycle control**
- New **train communication** possibilities
- Possibility for **high automatisation level** and optimising **traffic management with AI**
- Possibility for **realtime data usage** and continous update on **capacity and timetable management**

DigitalRail study project - Way of working

Schedule

- Work begun on June 2019
- 2019 in general all the study work done
- Until March 2020 Final report provided
- First drafts ready (beginning of October)
- Second drafts beginning of December
- 2 week / 8 week steering

Way of working

- 8 different parts ongoining simultaneously
- Finding out the best possible sulotion, taking into account areal differences in Finland
  - L1, L2, L3, Hybrid solutions
- Need based working
  - What is the real need in different areas capacity-wise
- Meaningfoul research on what's going on around Europe
  - Technologically
  - Strategically
- ERTMS forum, DigiRail steering group, DigiRail Project Group
  - Ministry, FTIA, TMFG, VR, HRT

Finally

This project is all about working together. All related parties are invited to co-operation and working for the best of Finnish railways.

Further information:

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