DigiRail project
Markku Nummelin Railway traffic director
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DigitalRail study project
- Finding out the best solution

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 continuous 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 on going simultaneously
• Finding out the best possible solution, 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
• Meaningful 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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