

DIGI RAIL

Digirail – Digitalizing Finnish railways

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Digirail program in brief

- Digirail program has been established by Finnish Ministry of Transport and Communications (LVM), Finnish Transport Infrastructure Agency and Traffic Management Company Fintraffic Railway Ltd.
- The main task set for Digirail program is the deployment of ETCS on the entire Finnish railway network starting from 2028.
- Separate implementation Project Lielahiti-Rauma/Pori began 2023, planned to be in operation 2027
- At this point the project has funding until 2027 worth 130 M€s. This funding the development and verification phase of the Finnish ERTMS solution and implementation of the first commercial ETCS line.
- Digirail program has very strong support in Finland and is going forward as planned.



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Targets of Digirail program

- For the country wide ETCS deployment the Digirail program aims for a technically advanced solution, the key features of which are:
 - ETCS level 2 with hybrid train detection
 - ATO GoA2 level, later also utilizing selected features from higher grades of automation
 - ETCS TSI BL4 → System version 3.x preferred
- Digirail provides a unique opportunity to secure the full benefits on digitalisation that will be of considerable importance in the future for the railway sector in Finland.



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The DIGIRAIL logo, consisting of the words "DIGI" and "RAIL" stacked vertically in a bold, sans-serif font, enclosed within a white circular border.

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Targets of Digirail program

- Finland starts the process without the migration burden from GSM-R.
- whilst awaiting for the technical specifications Finland is developing a pre-FRMCS solution
 - IP-based XG network
 - Readiness for other "Game changers"
- The outmost target is to comply and contribute to interoperable European ETCS and FRMCS.
- The aim is that FRMCS is deployed in commercially available radio network
 - Finland has excellent level of coverage and quality of commercial radio network all around country.
 - Finland has very successful co-operation between the authorities and radio network companies.



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National implementation plan

Totally new technical infrastructure for the whole country at once.

Secure the full benefits on digitalisation

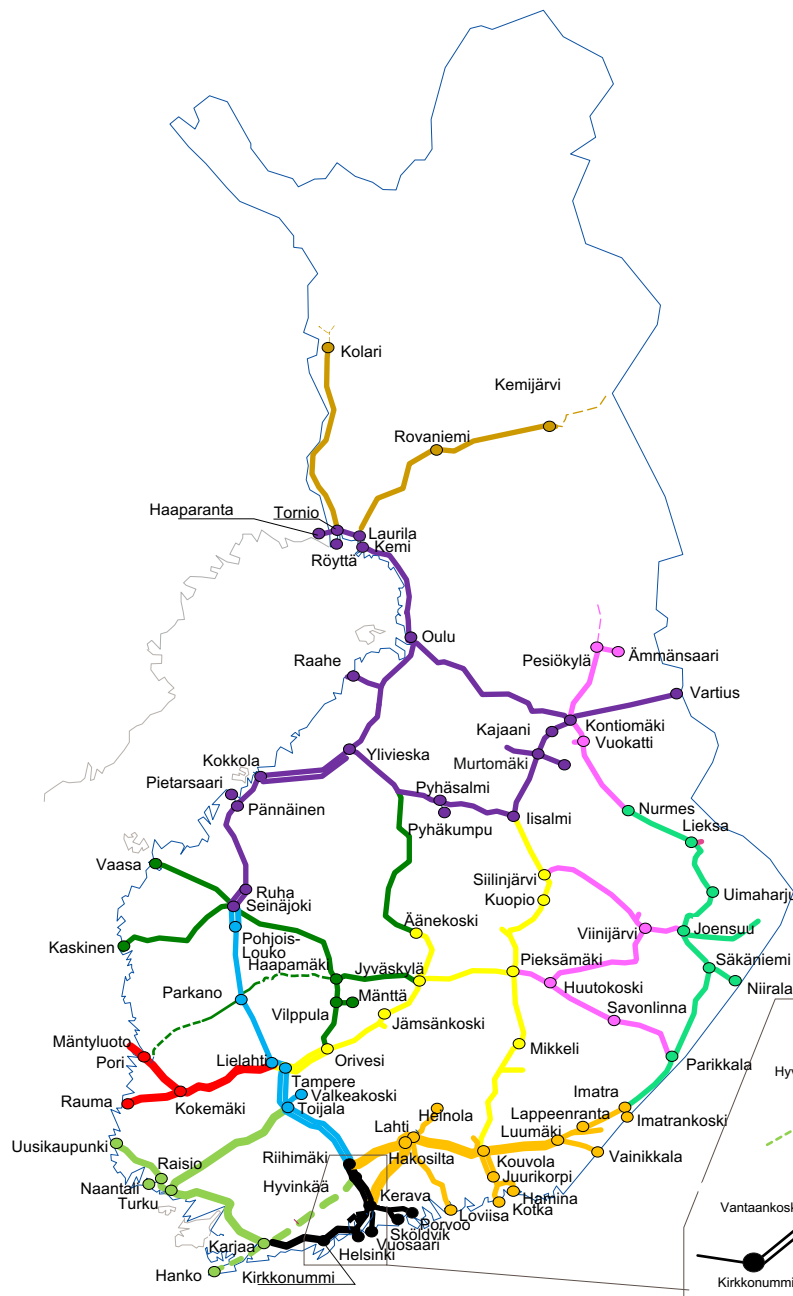
Optimise the maintainability, and operability

Create a new ecosystem to optimise railway traffic

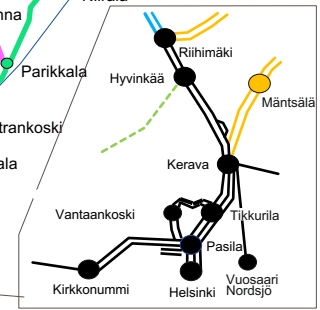
Target is to provide best possible service for railway end users.



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| | |
|----|-----------|
| 1 | 2025-2027 |
| 2 | 2028-2029 |
| 3 | 2029-2031 |
| 4 | 2030-2033 |
| 5 | 2033-2035 |
| 6 | 2034-2036 |
| 7 | 2036-2037 |
| 8 | 2036-2038 |
| 9 | 2037-2038 |
| 10 | 2038-2039 |
| 11 | 2039-2040 |





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