VR TRACK

VR Track Oy
We are building a frictionless society

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VR Operating Environment

Ownership steering (Government Office)
- Profit targets

Parliament
- Legislation

EU
- EU level steering

Customers
- users
- corporate customers
- public sector (e.g. Finnish Transport Agency)

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Provinces

Cities and municipalities

Non-governmental and other organizations

Media

Ministry of Transport and Communications
- Legislation and permits
- Purchasing of passenger services

Finnish Transport Agency (former RHK)
- Administration of rail network and responsibility for track maintenance and development
- Management of track capacity and traffic control
- Puts traffic projects out to tender

Finnish Transport Safety Agency TraFi
- Safety regulations and supervision

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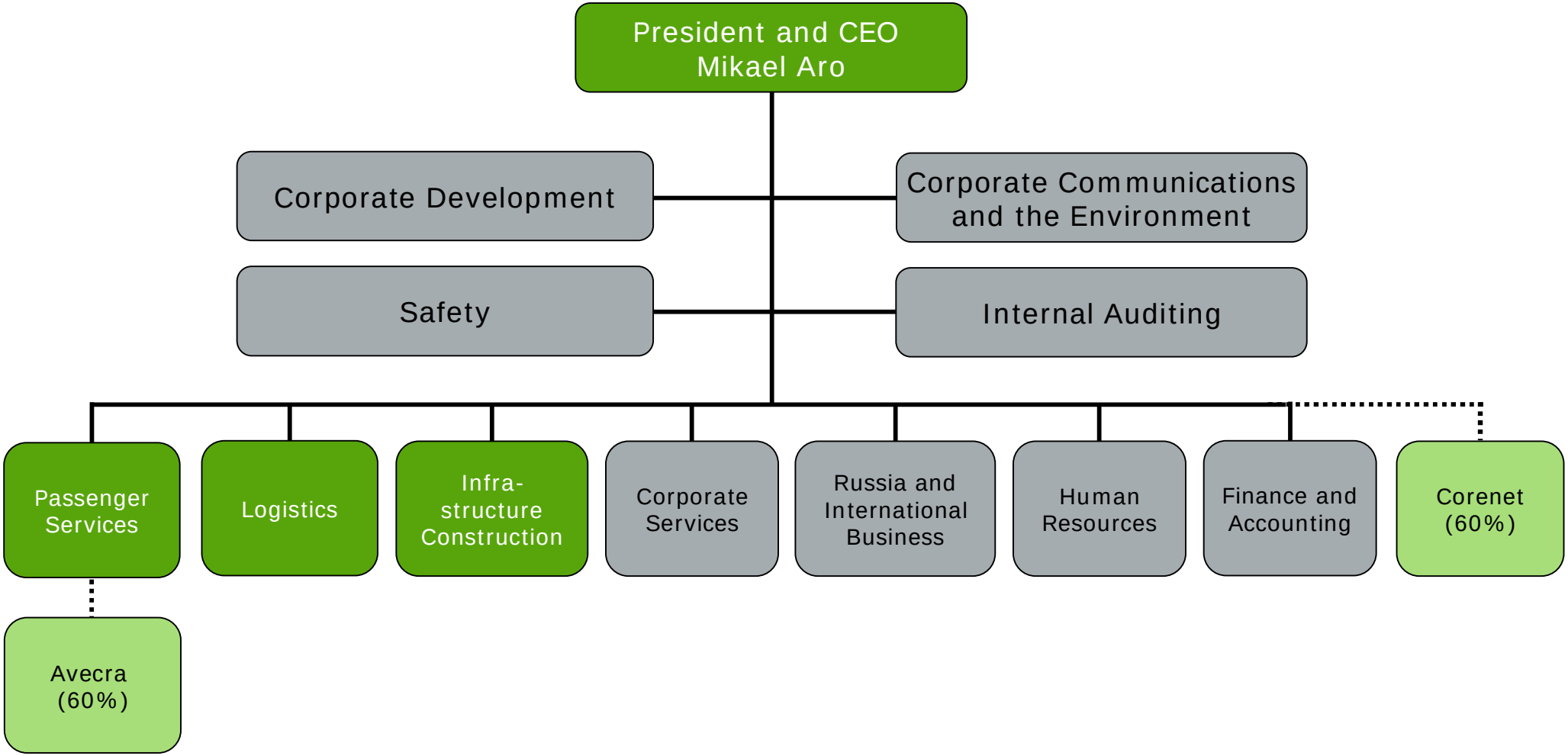
President and CEO
Mikael Aro
Corporate Development
Corporate Communications and the Environment
Safety
Internal Auditing
Passenger Services
Logistics
Infra-structure Construction
Corporate Services
Russia and International Business
Human Resources
Finance and Accounting
Corenet (60%)
Avecra (60%)

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VR Group has a large operating area

- VR Group main premises in Finland
- VR Track premises and work sites abroad
- VR Transpoint premises abroad
- VR Group representative office in Moscow

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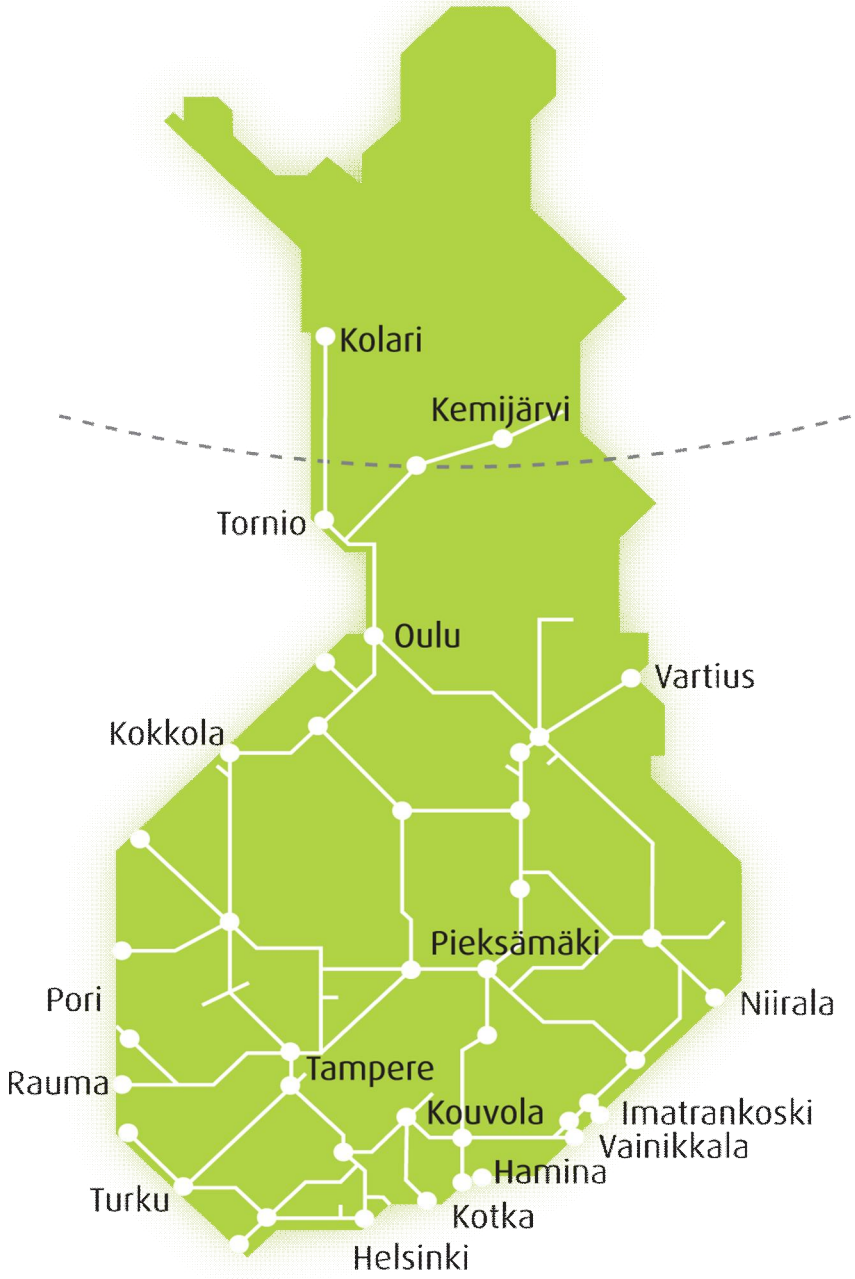

Finnish Rail Network

- Length of line
  5 919 km
- Single track
  5 349 km
- Electrified line
  3 067 km
- Points 5 690
- Tunnels 43
- Rail traffic operating points 349

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Key figures

- Turnover ~ 300 M€
- Personnel ~ 2 400
- Rolling stock:
  - Track machinery 168
  - Track work wagons 656
  - Vehicles 748
- Operations system includes safety, quality and environmental issues management systems in Finland and Sweden
  - Quality Certificate SFS-EN ISO 9001
  - Environmental Certificate SFS-EN ISO 14001
  - Occupational Health and Safety Management Certificate OHSAS 18001

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Services

- Design and expert services
- Track construction comprehensive and part contracting
- Civil engineering and earthworks
- Track inspection, repair and maintenance
- Electrical installations and signalling contracting and maintenance
- Transmission of electricity monitoring and operation
- Track welding and repair, sleeper impregnation and points assembly
- Track materials services

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Equipment

- Special equipment is used to ensure rail network safety and service level

Most important special machinery:

- track change machine
- tamping machines
- electric rail line installation and maintenance machines
- rail-capable trucks and track material transport wagons
- wagons measuring track condition

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Board of Directors

Managing Director
Ville Saksi

Executive Assistant Marja Helin

Business Development
Harri Lukkarinen

Safety, Quality and Environment
Anu Asikainen, Timo Pinomäki

Marketing and Corporate Communications
Soili Korhonen, Sari Sohlström

Finance: Esa Kuosmanen

IT: Seppo Sjöblom

HR: Anna Alihaanperä

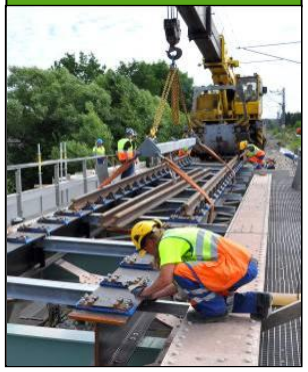
Purchasing: Juha Kajander

Track Construction
Jouni Kekäle

Maintenance
Risto Heinonkoski

Electrical Engineering
Aarre Loppi

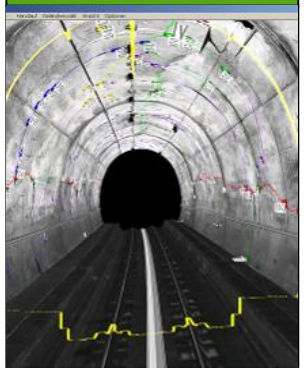
Earthworks And Bridges
Ilkka Sinisalo



International Business
Timo Riihimäki

Materials
Pekka Rautanen

Consulting
Harry Harjula



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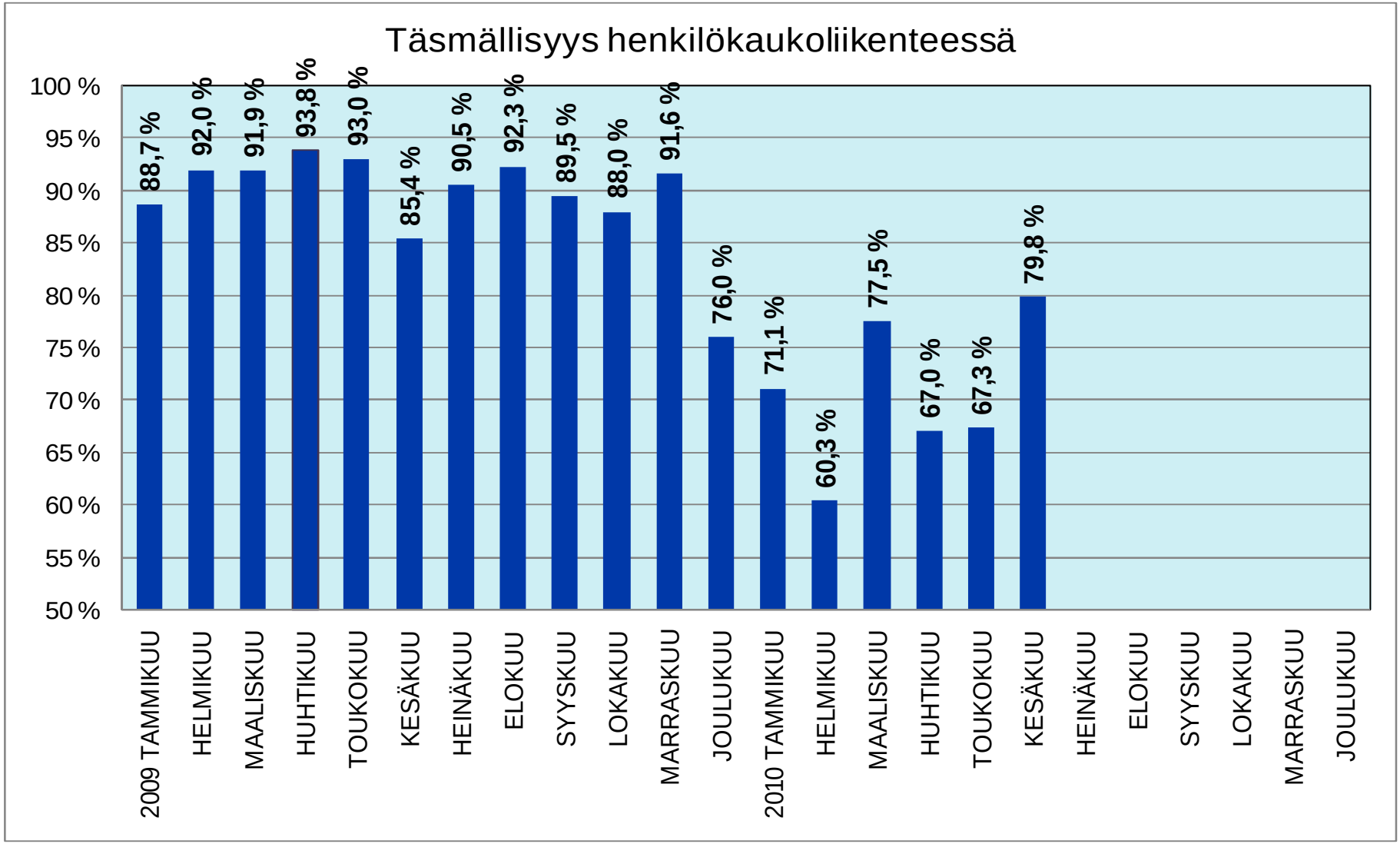
Täsmällisyys/ Automaatio

- Satunnaisia esimerkkejä viime vuodelta
- Vaihtelu ja herkkyys
- Vertailua Japaniin

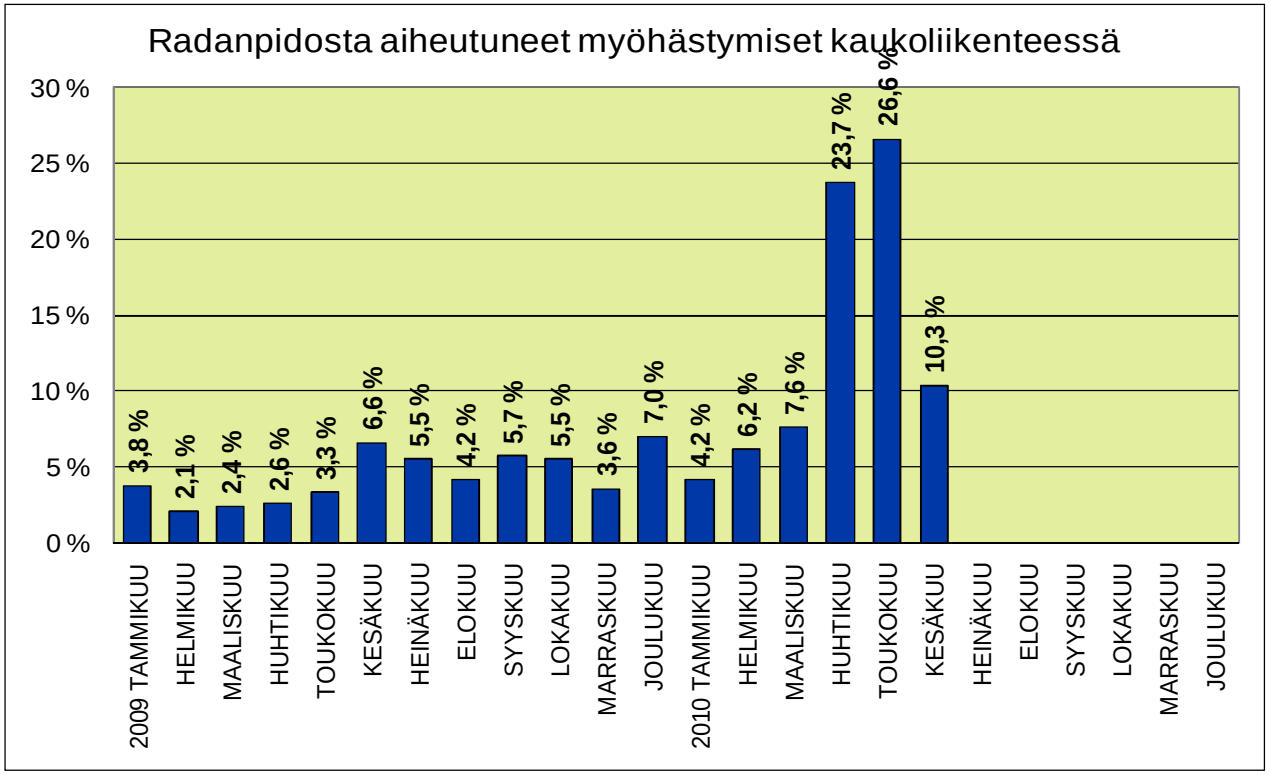

BARCO

Täsmällisyyden kehittyminen



Radanpidon vuoksi myöhästyneet junat kaukoliikenteessä

- X % junista myöhässä radanpidon vuoksi, laskennallinen arvo. Tavoite < 4 %.
- Mukana syyluokat S: sähköistys, R: rata, P: turva-, valvonta- ja viestilaitteet
- Puolivuotistilanne 2010: tammi-kesäkuussa 13,1 % kaukojunista on myöhästynyt radanpidon takia (päätekijänä roudan aiheuttamat tilapäiset nopeusrajoitukset)



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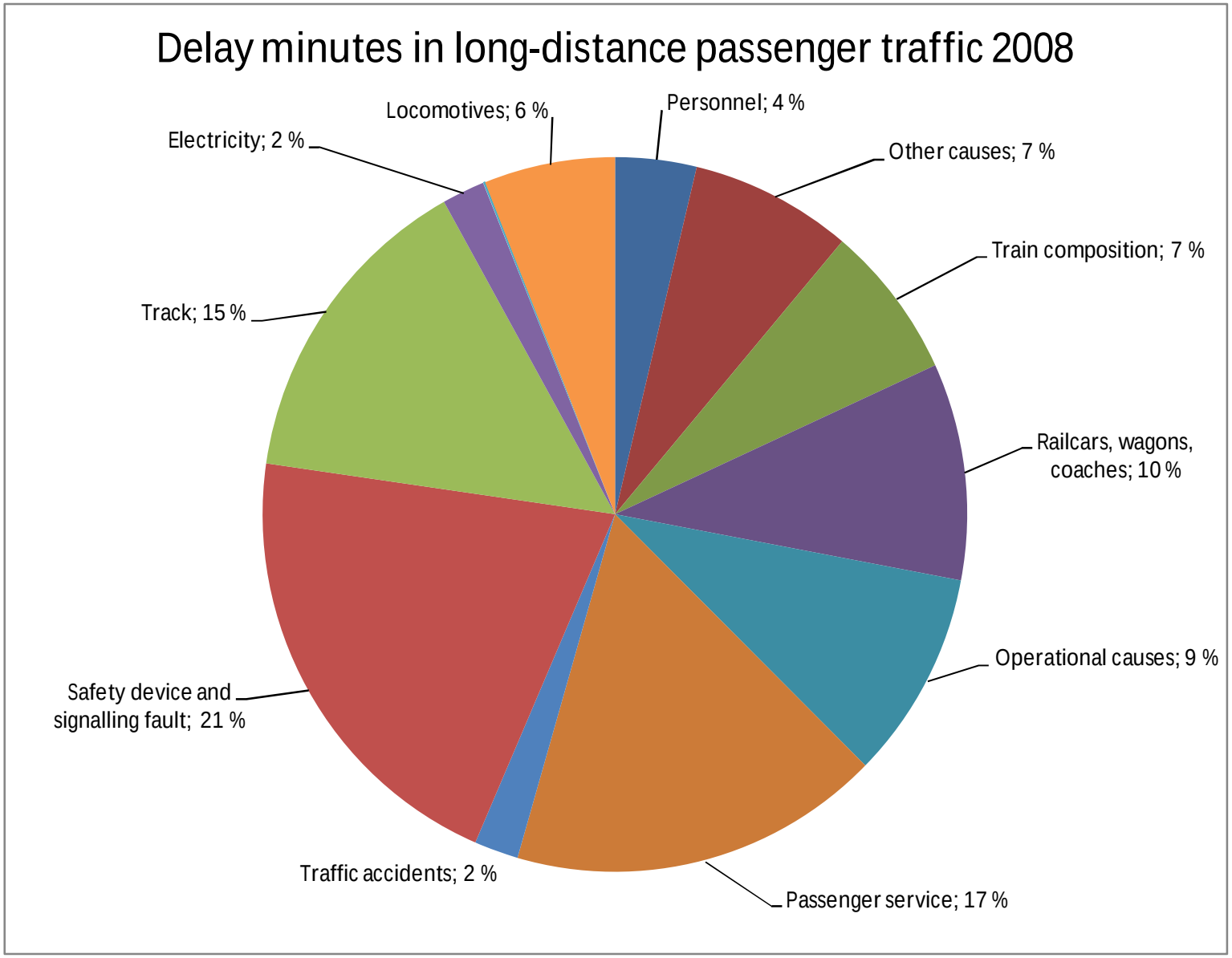
Delay reasons in long-distance passenger traffic 2008



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Merkittävimmät syyt

- Talvi
  - Infra; lumi, vaihteet, routa
  - Kalusto; lumi, virroitin vauriot
  - Primääri ja sekundääri
    - Matkaketjut varmistetaan Suomessa
- Laite- ja järjestelmä viat
- Sähkörataviat
- Ukkonen

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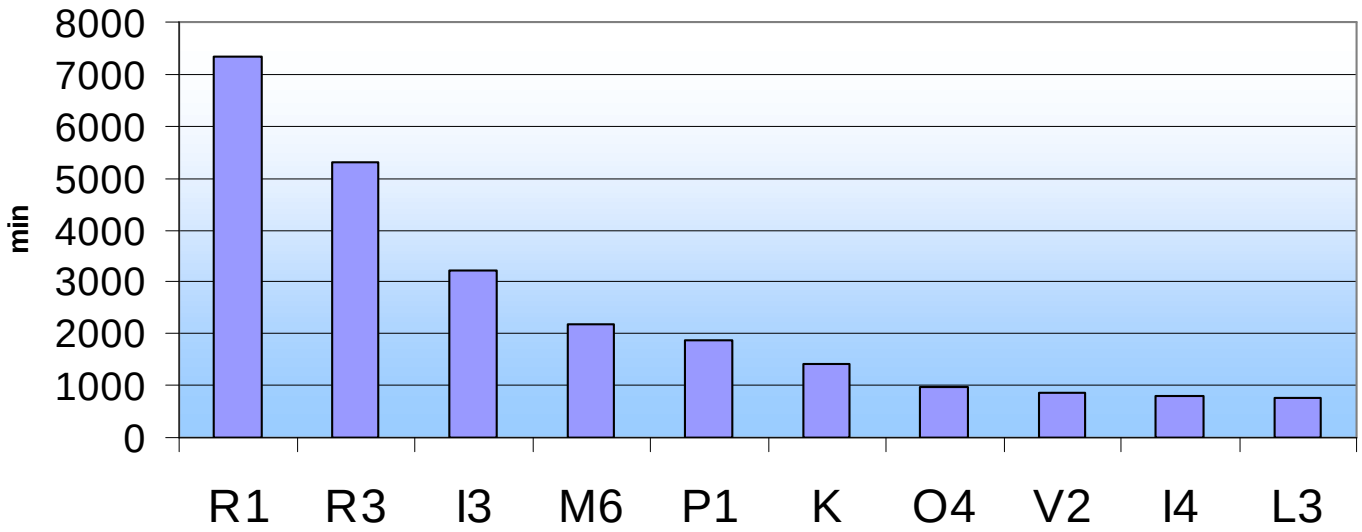
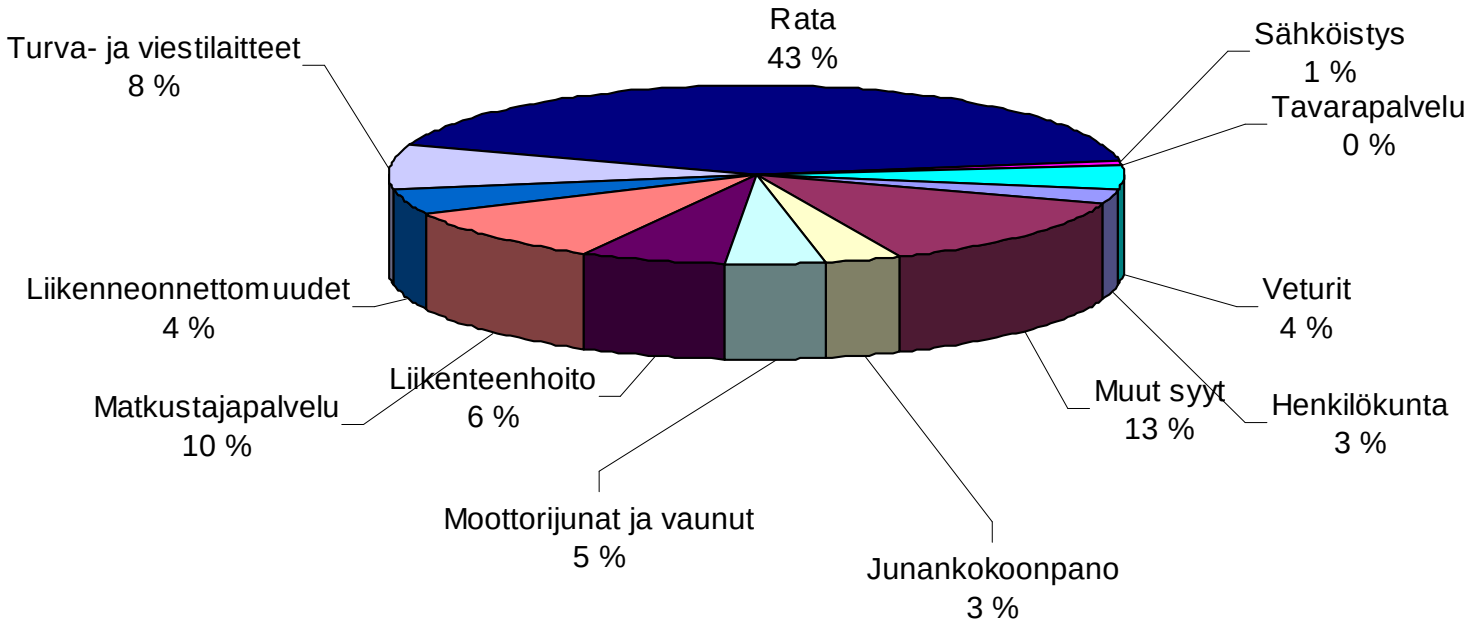
MYÖHÄSTYMISET PRIMÄÄRISYYT TOP-TEN KESÄKUU 2010

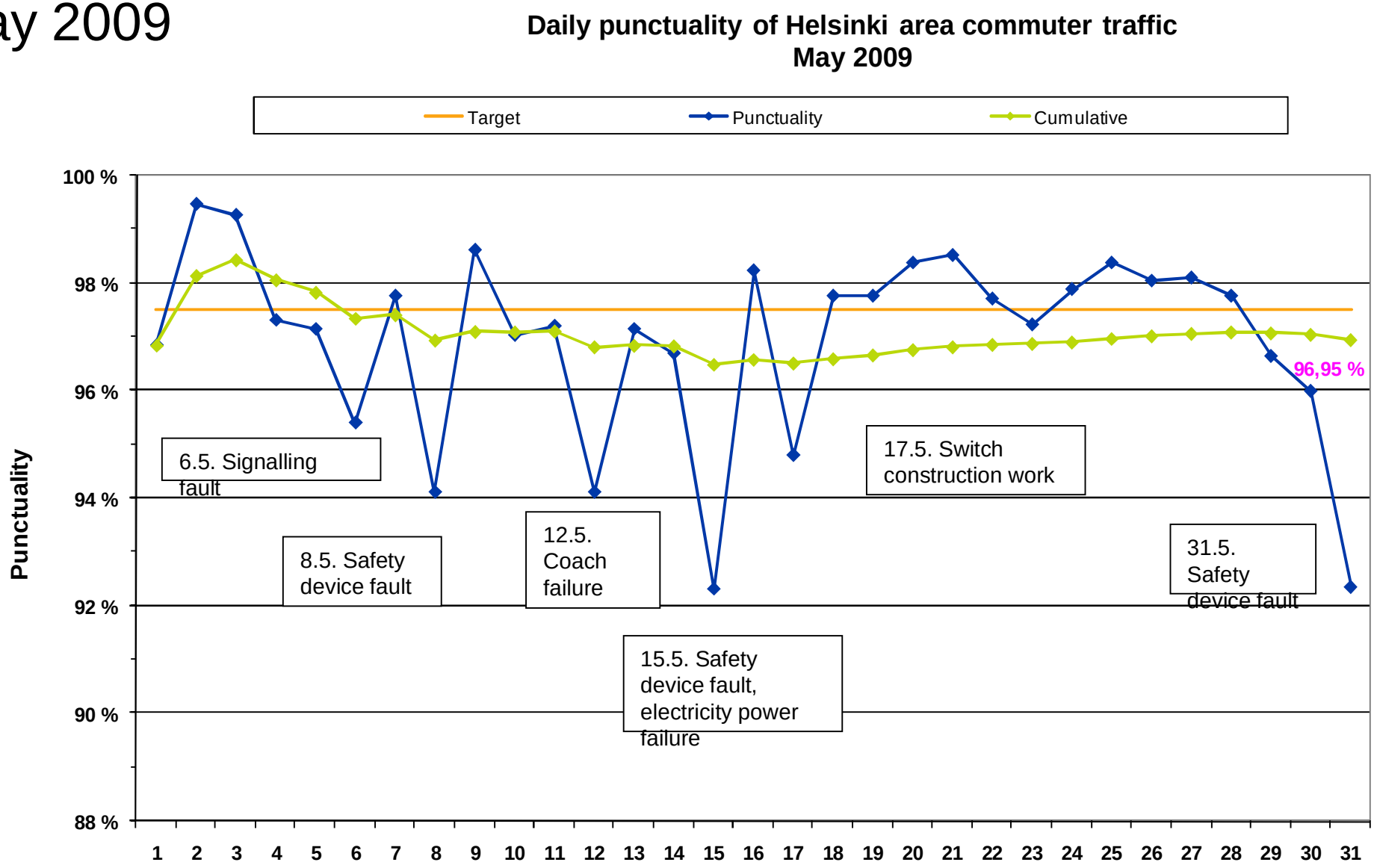


MYÖHÄSTYMISET SYYRYHMITTÄIN %-OSUUDET KESÄKUU 2010

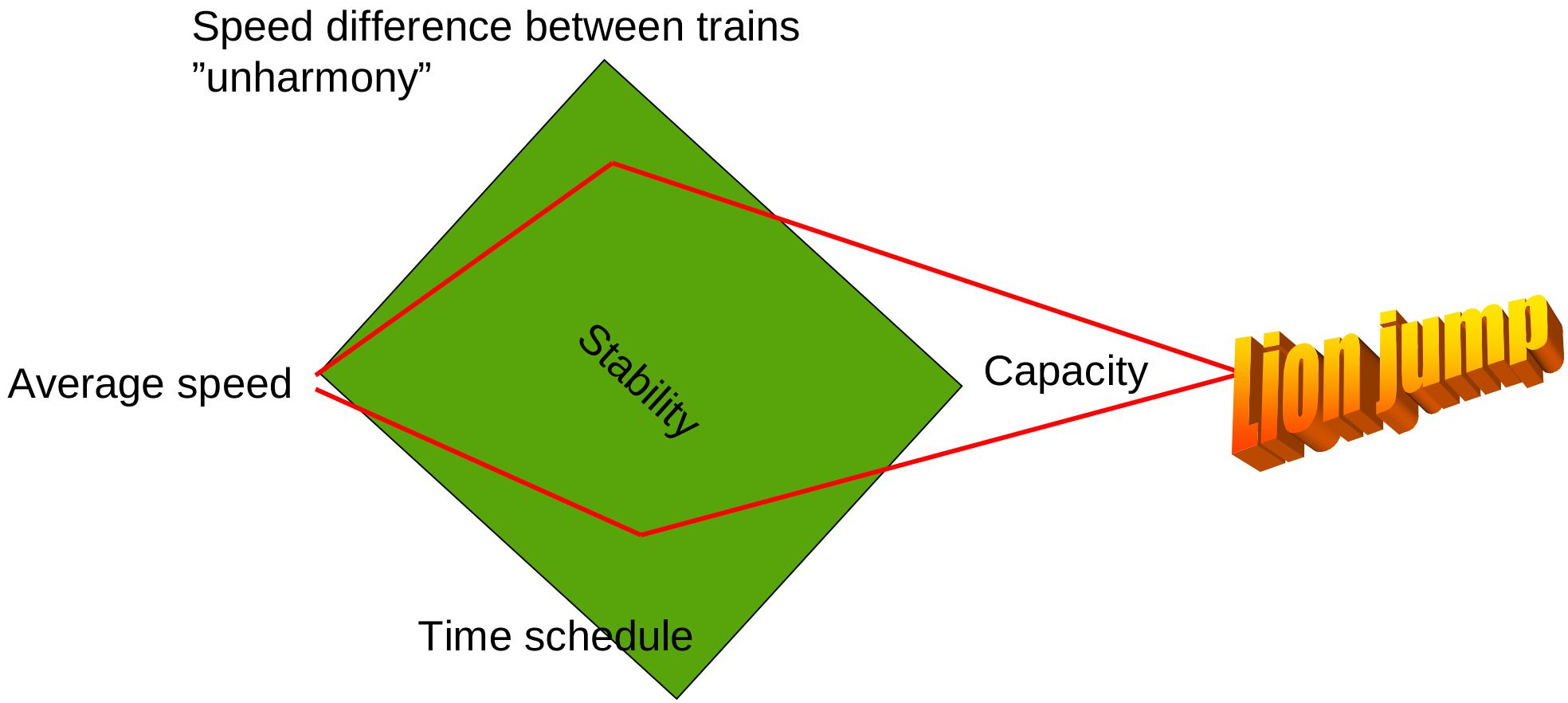


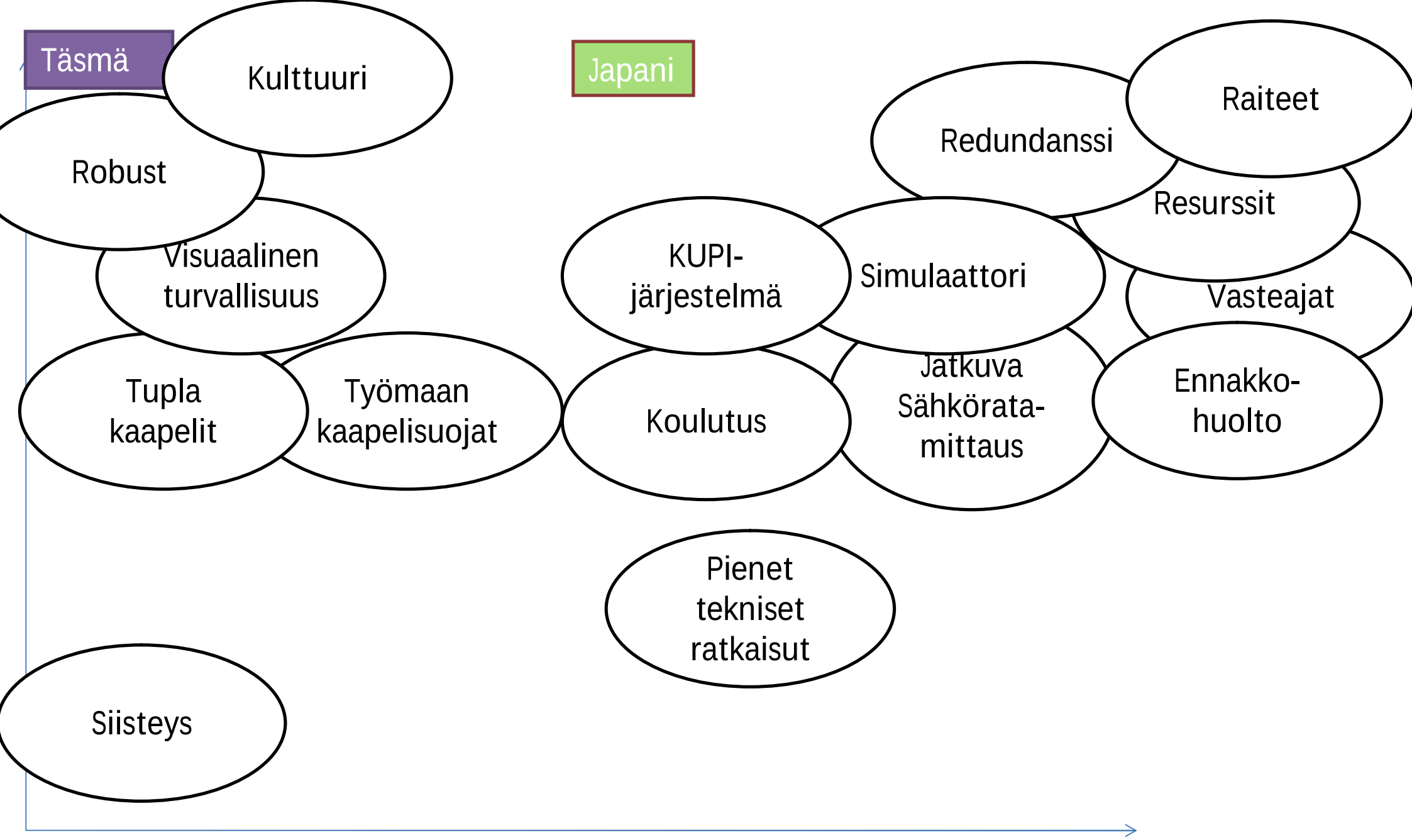
Example of daily punctuality May 2009

Helsinki area commuter traffic punctuality in May 96,95 %

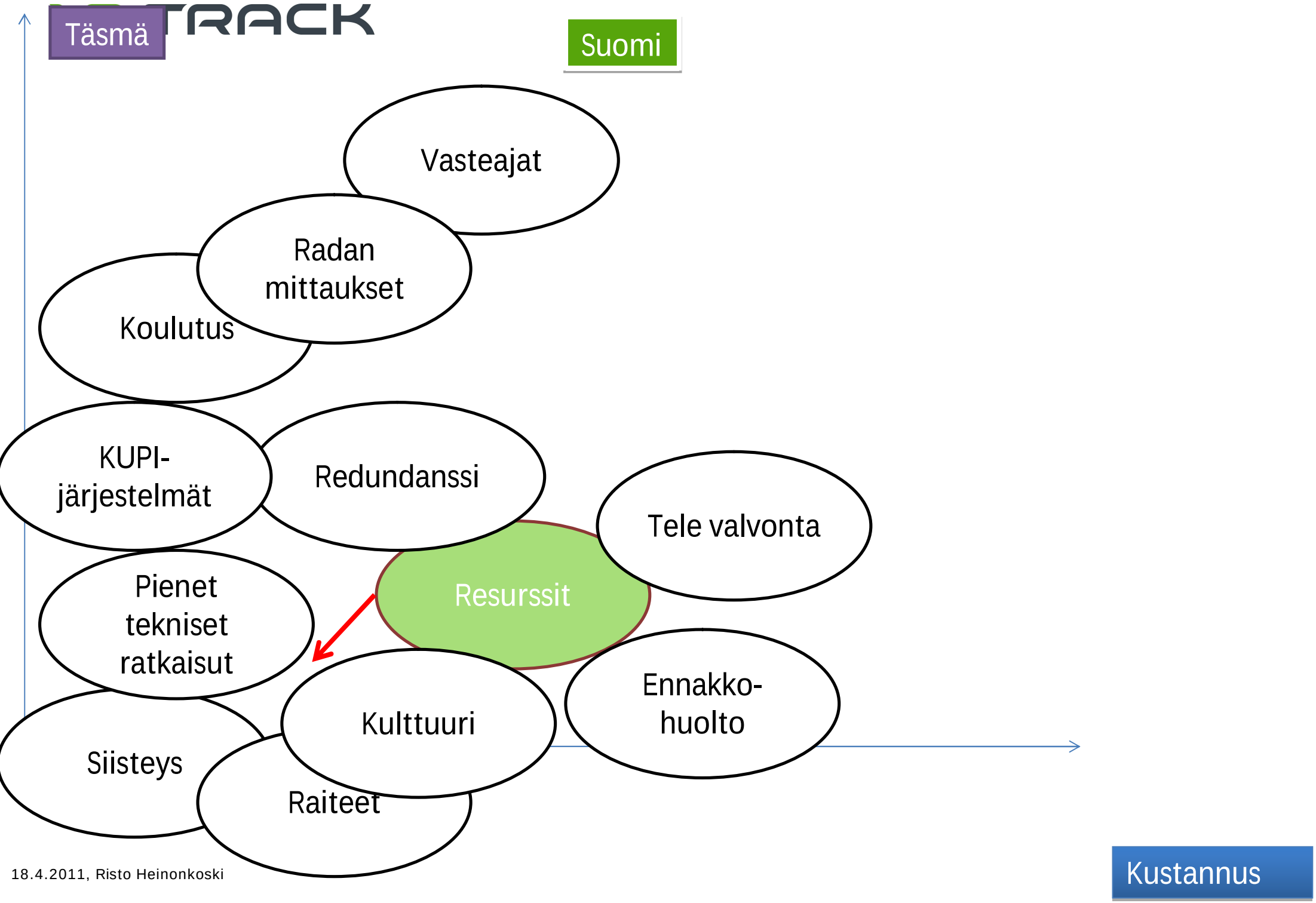


Was it stability change ?




Täsmä
Kulttuuri
Japani
Raiteet
Redundanssi
Robust
Resurssit
Visuaalinen turvallisuus
KUPI-järjestelmä
Simulaattori
Vasteajat
Tupla kaapelit
Työmaan kaapelisuojat
Koulutus
Jatkuva Sähkörata-mittaus
Ennakko-huolto
Pienet tekniset ratkaisut
Siisteys

Kustannus


Täsmä
Suomi
Vasteajat
Radan mittaukset
Koulutus
KUPI-järjestelmät
Redundanssi
Tele valvonta
Resurssit
Pienet tekniset ratkaisut
Ennakko-huolto
Kulttuuri
Siisteys
Raiteet
Kustannus