



VIRVE NETWORK IS A NATIONWIDE RADIO NETWORK FOR THE FINNISH AUTHORITIES

VIRVE is the world's first nationwide TETRA network for shared authority in use

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In Finland there has been clear direction during past 10 years.
From several networks (NMT, paging, VHF) to only two technologies

GSM for private
TETRA for authorities

There are 4 GSM networks for private customers
And two TETRA networks for defined user groups



- VIRVE fulfills the obligations set by the Schengen Treaty
- Wide geographical area 350.000 km², sparsely populated with appr. 15 inhabitants per km²
- Shared service for multiagency communication



- Nationwide group calls have become reality
- Reliability and availability of service—
complemented by base station
fallback and DMO
- Multi-agency cooperation, seamless
cooperation
- Savings and operational efficiency
- Improved security and safety of
officers





- Different groups are either predefined or created dynamically according to the need
- Direct and clear connection between different users

- Network roll-out completed in time
- Full nationwide coverage with seamless functionality
- Meets Schengen requirements
- Seamless integration with nationwide emergency centers
- Co-operation with the Estonian marine border guard





1'



2'



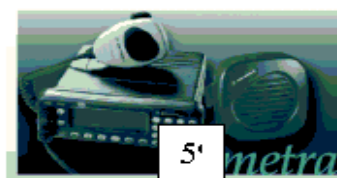
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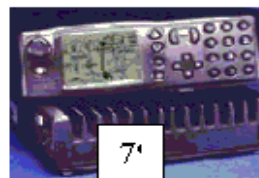
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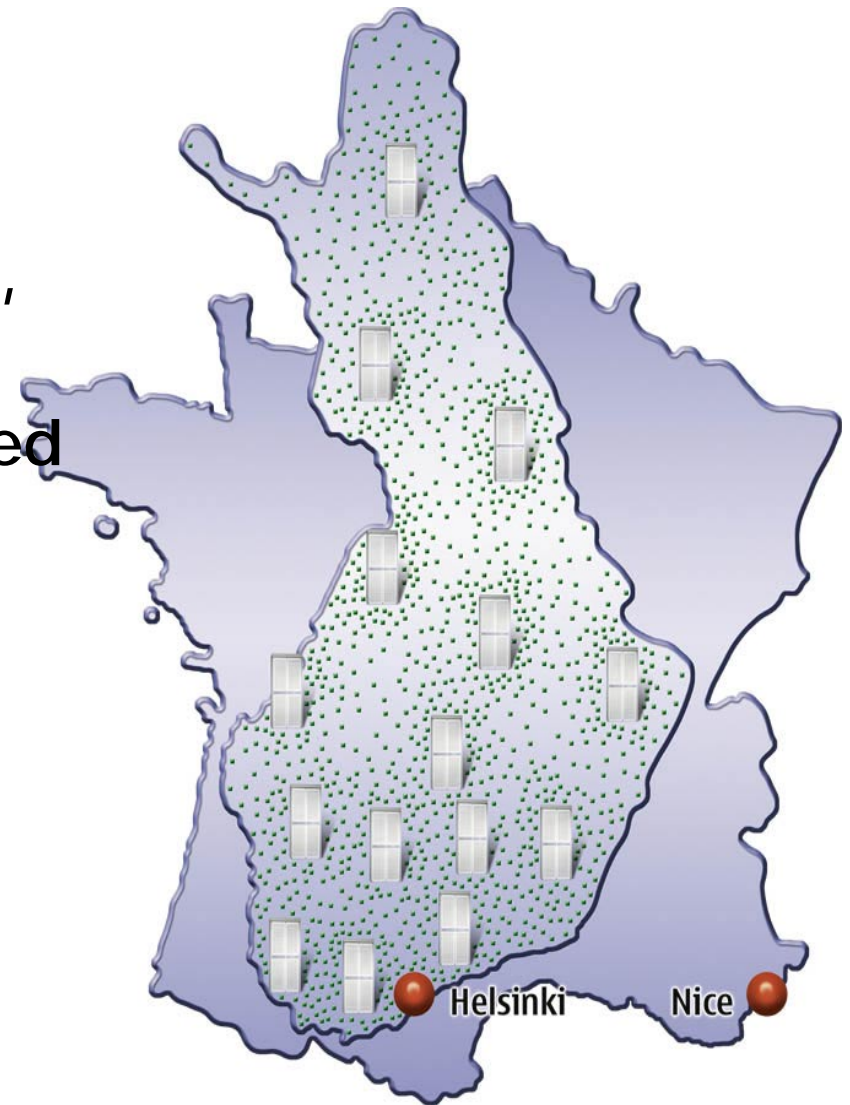
7'



Open standard ensures
Free competition in
radio terminals



- Roll-out ready
- Modern IP based architecture, 15 switches, over 1200 base stations
- Implementation completed in time
- Low operating cost - €400/user/annum



**VIRVE today 2002,
~30.000 users**



- Others
- Customs
- Social and health services
- Police
- Defense Forces
- Frontier Guard
- Fire and rescue

**VIRVE 2005,
~100.000 users**



True multiagency operation, ~30.000 users from different organisations



Thank you

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