



ESERCOM-D

EGNSS Enabled Standardized
European Road Condition Monitoring
And Distribution



ESERCOM-D
SAFE AND EFFICIENT ROADS



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Consortium



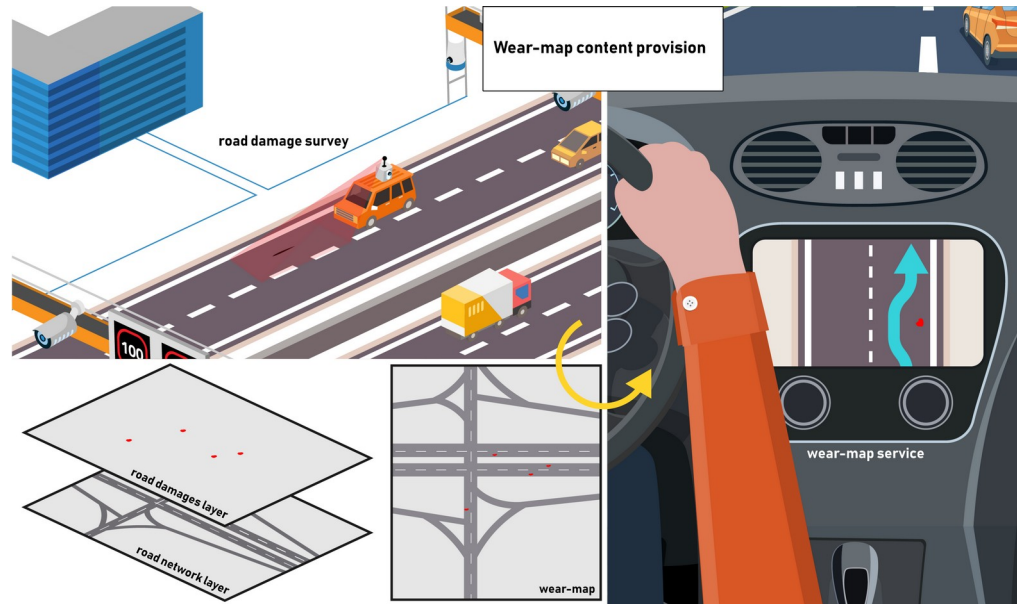
Goals

- Streamline **road wear map** provision and exploitation.
- Strong focus towards standardization.
- Demo at TRL8.

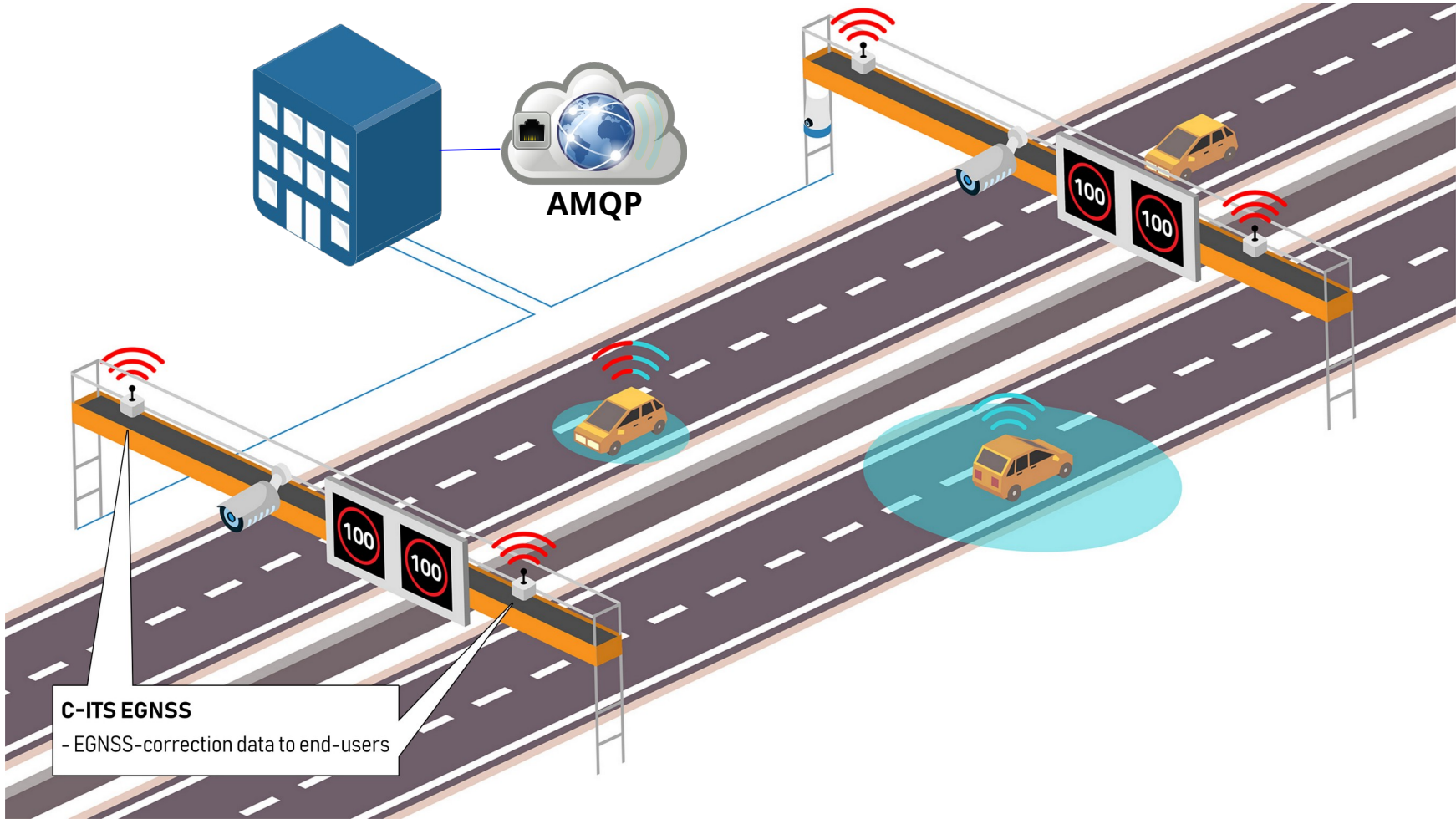
3 years (2025 → 2028)

Use Cases

- Wear-map content provision
- Automatic incident detection and warning message distribution
- Real-time delivery of GNSS corrections via C-ITS

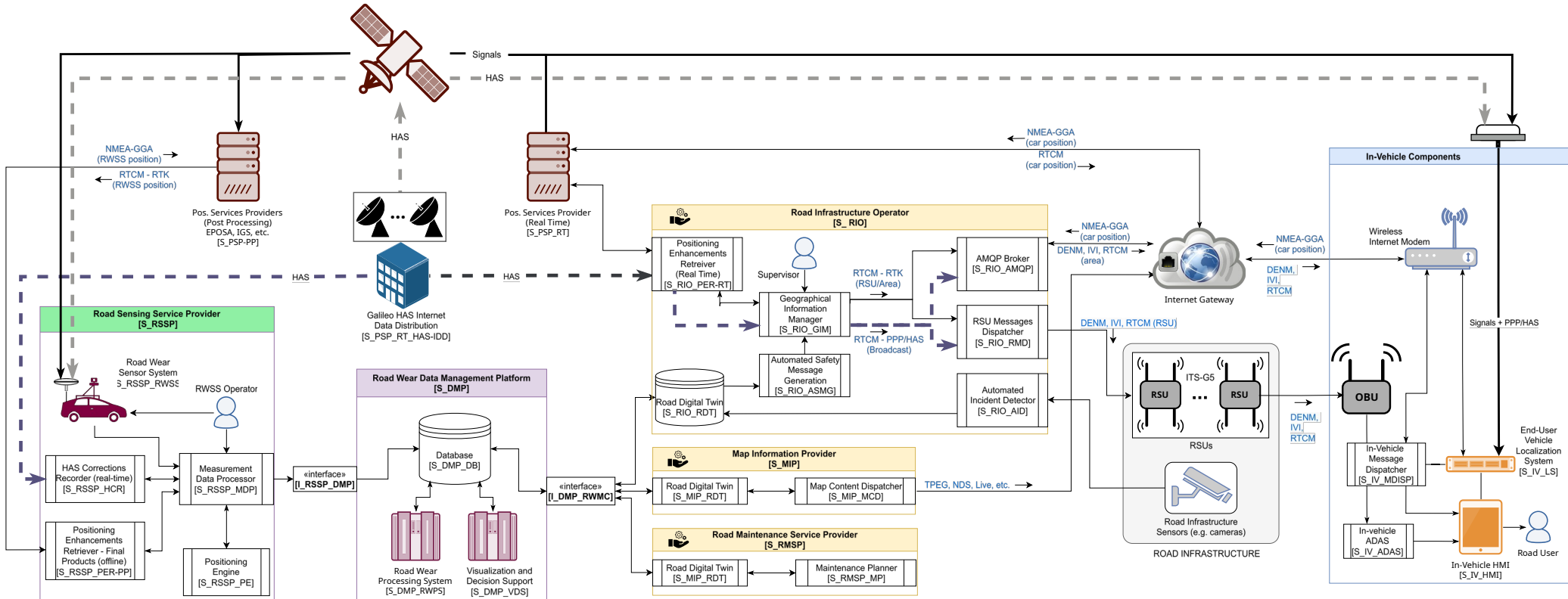


Real-time delivery of GNSS corrections via C-ITS



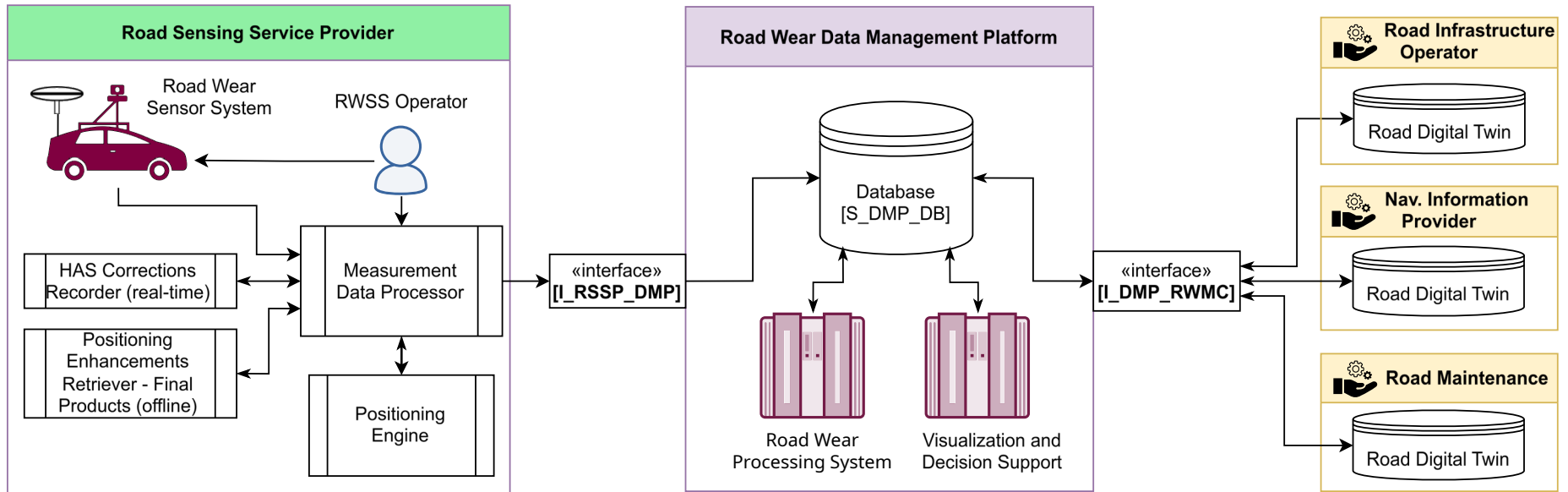
System Architecture

Components



System Architecture

Services



Road Sensing Service Provider

- Definition of concept.
- Development of a Cost-efficient RWSS.
- Automation (PPK).

Data Management Platform

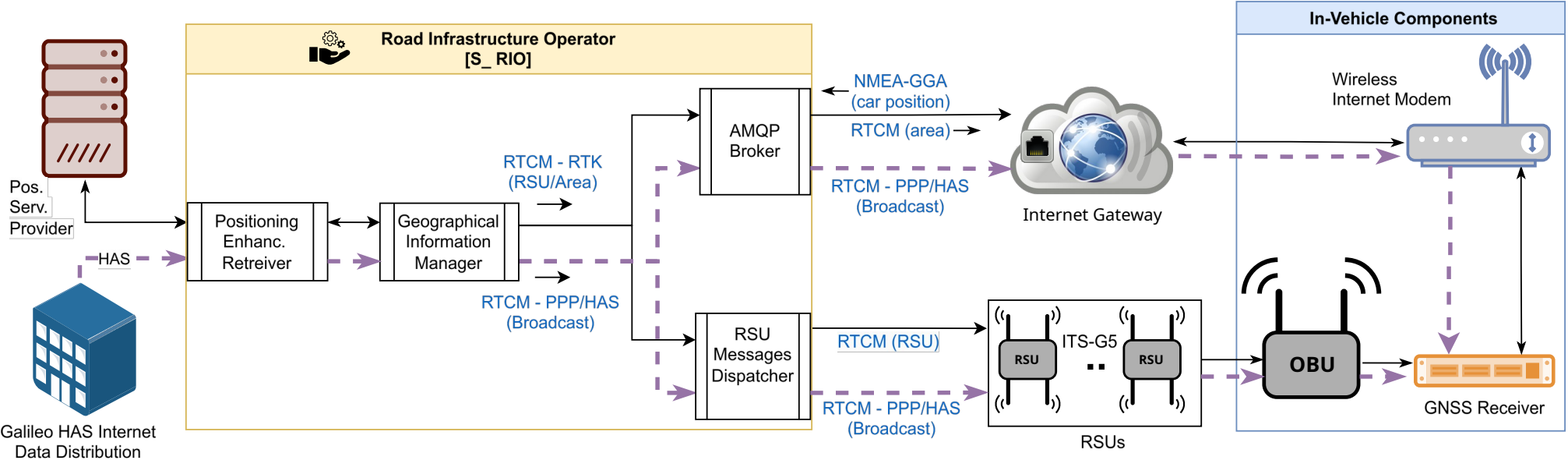
- Road wear characterization
- Standard interfaces (RSSP and consumers)
- **Quality metrics in maps** (incl. security)

Real Road Operator

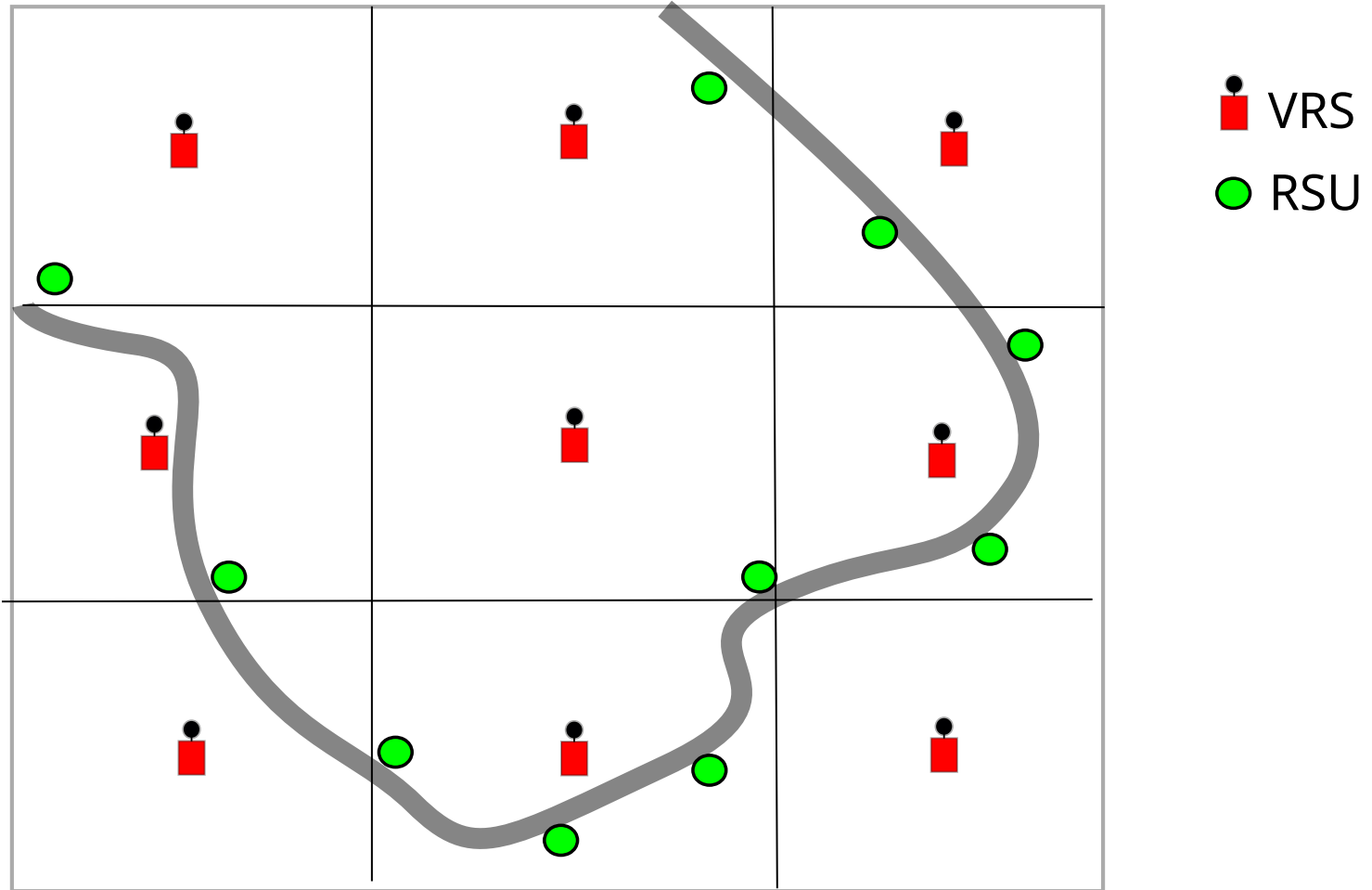
- Deployment/tests

Real-time delivery of GNSS corrections via C-ITS

New Methods



RSU Selection



Tests

Variables

- Positioning Methods: **RTK, PPP-HAS, PPP, RTK-PPP**
- Authentication: **OSNMA on/off**
- RTCM message delivery: **AMQP, C-ITS**
- Location: Finland, **Austria**



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Questions/Comments?

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