



Technical University of
Moldova



Agency for Land Relations
and Cadastre (ARLC)



Hochschule Karlsruhe
Technik und Wirtschaft
UNIVERSITY OF APPLIED SCIENCES

Development of a High Capacity Real-Time GNSS Positioning Service for Moldova (MOLDPOS)

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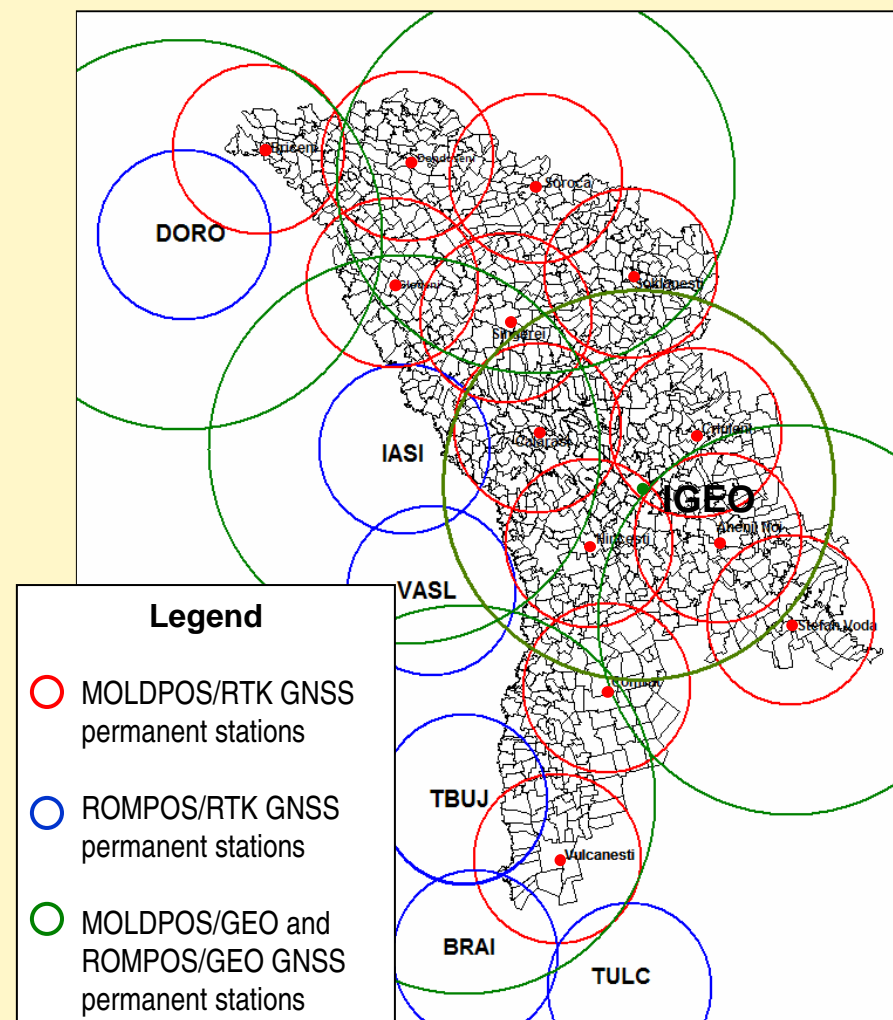
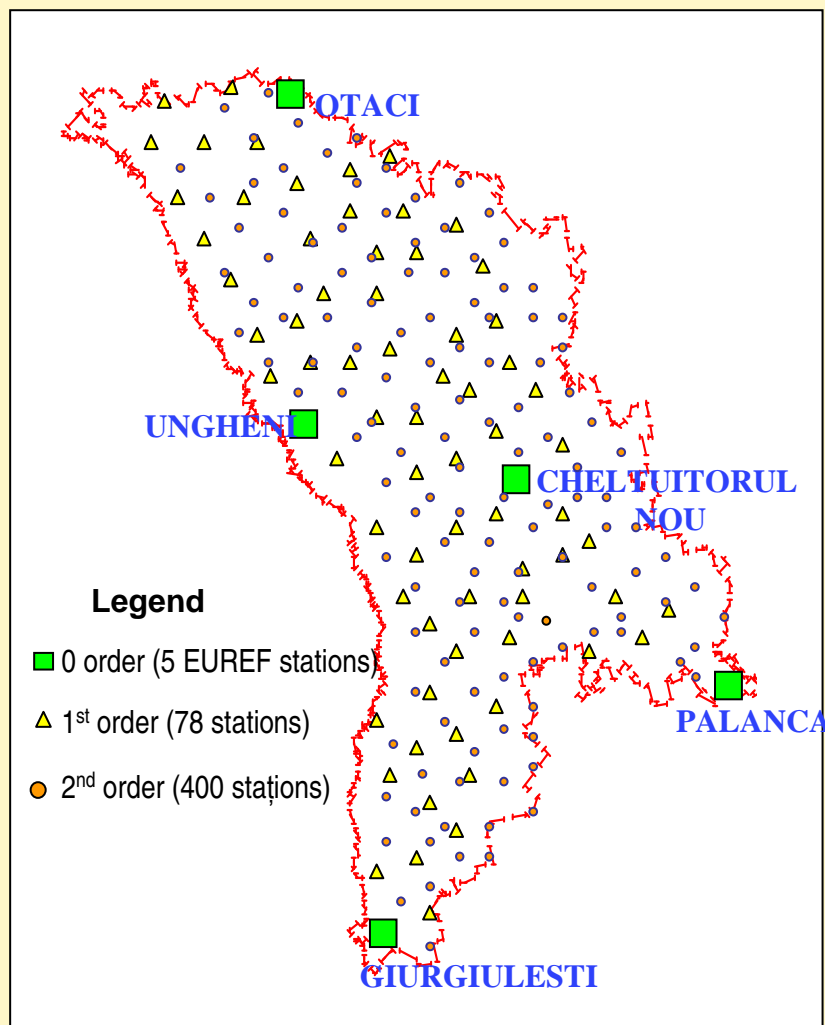
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MOLDPOS GNSS Permanent Network

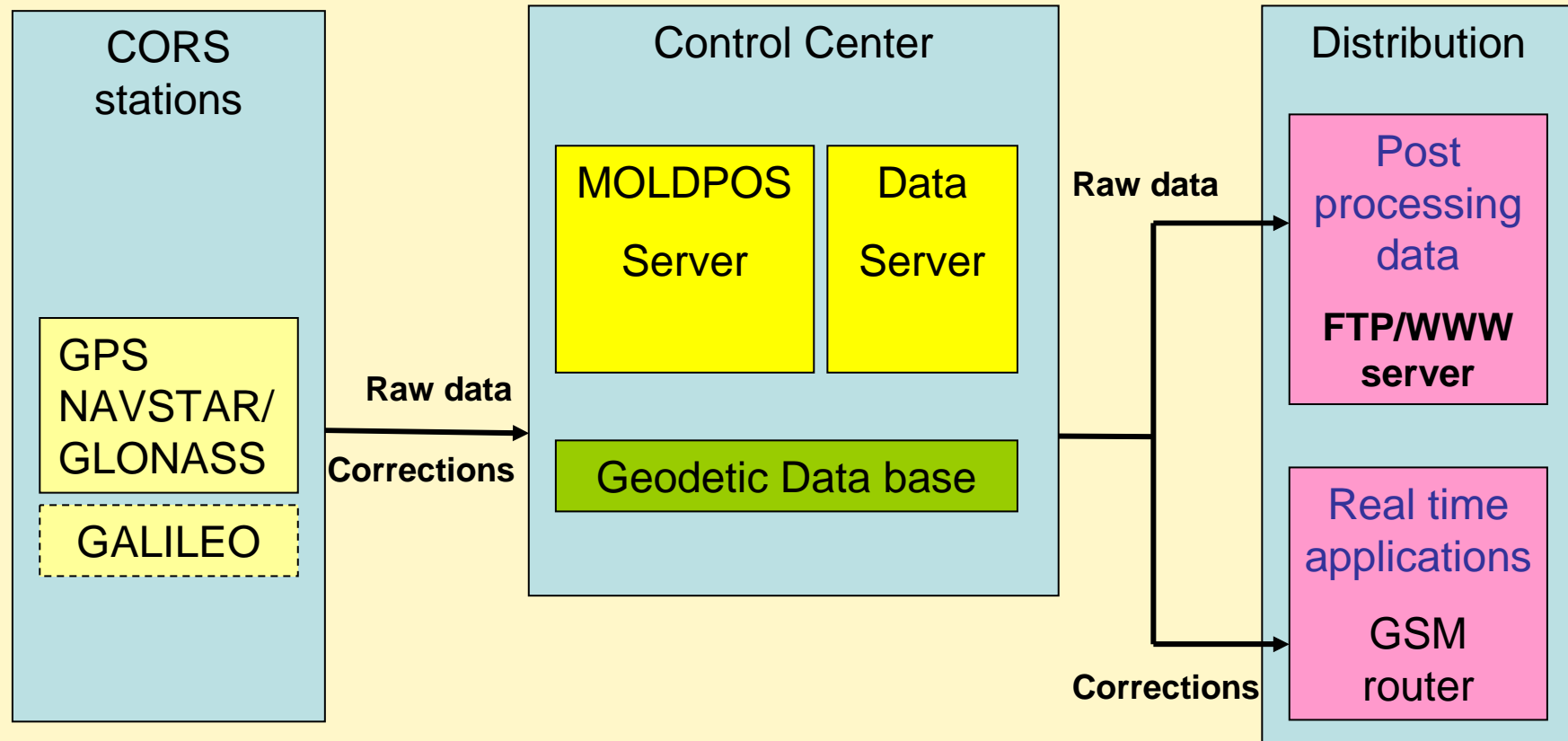
GNSS “passive” network (1999-2002)



GNSS “active” network (2010-2011)

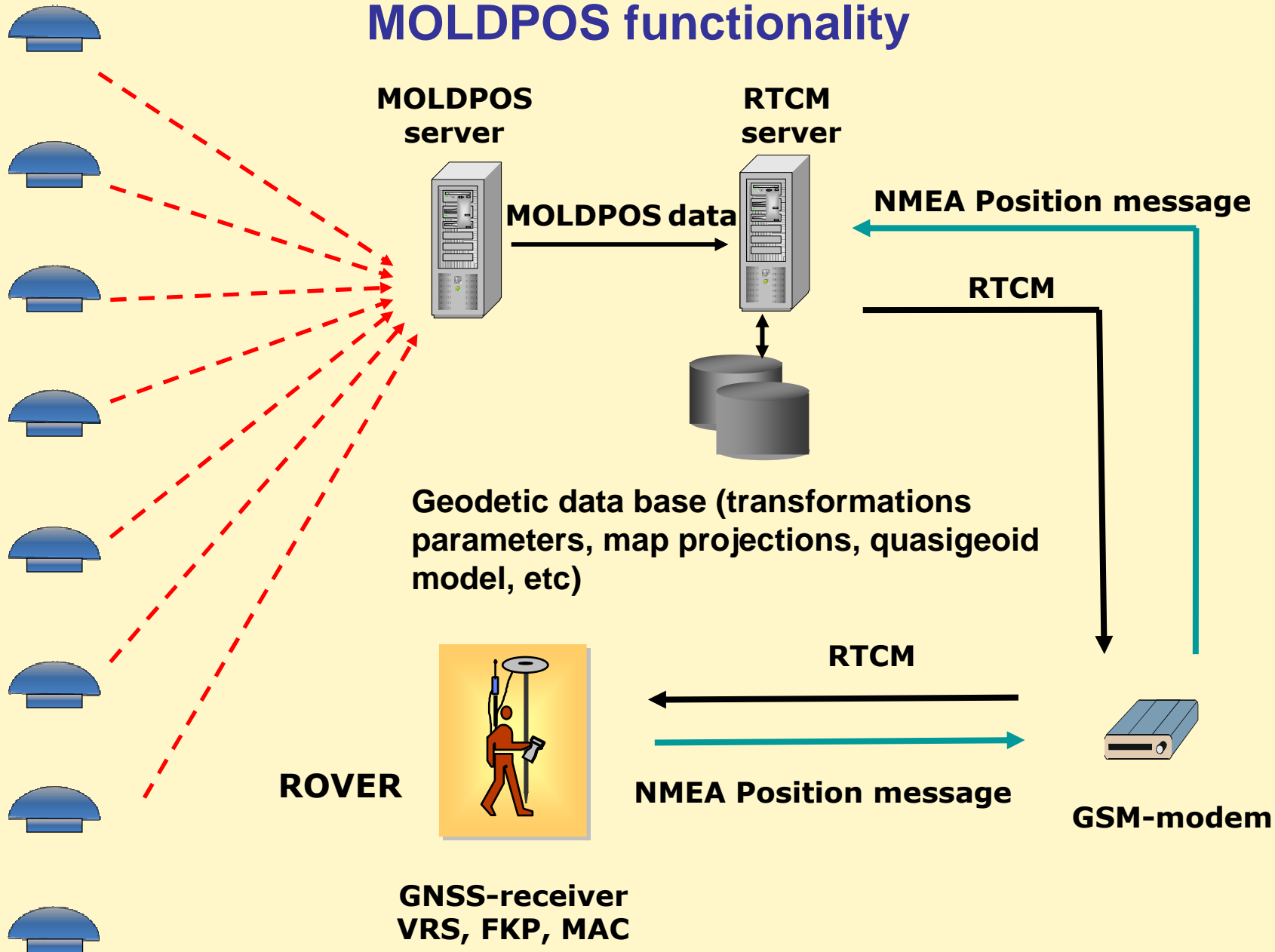


MOLDPOS architecture



Distribution of real-time data streams through Internet using NTRIP (Network Transport of RTCM by Internet Protocol) format.

MOLDPOS functionality



MOLDPOS destination

- **Densification with the ~ 30-40 km spacing requires that at least 13 permanent operating GNSS stations to be installed in order to provide the differential GNSS for navigation and real time kinematics for surveying**
- **Improvement of normal height determination accuracy from GNSS measurements and organizing the MOLDPOS service to generate and distribute differential corrections and height anomalies from the national quasigeoid model**
- **MOLDPOS will be used by a large spectrum of users (geodetic works, cadastral surveying, GIS applications, mapping and boundary marking, etc.)**
- **MOLDPOS will be the basis of support of scientific applications (landslide and floods monitoring, environmental research, geohazard prediction, meteorology, etc.)**