

Land Relations and Cadastre Agency
Institute of Geodesy, Engineering Research and Cadastre

Continuously Operating Reference Stations Network A Future Strategy for Republic of Moldova

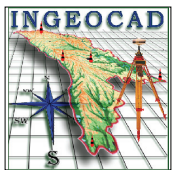
Col (Ret) Dr. Vasile Chiriac
Head of Research Department

EUREF Symposium, Riga 2006



Subjects

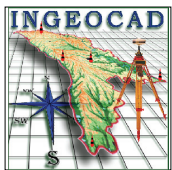
- **National CORS Network Concept**
- **Destination of the National CORS network**
- **Structure of MOLDPOS Network**
- **MOLDPOS RTK/VRS Network**
- **Integration with EPN**
- **Summary**



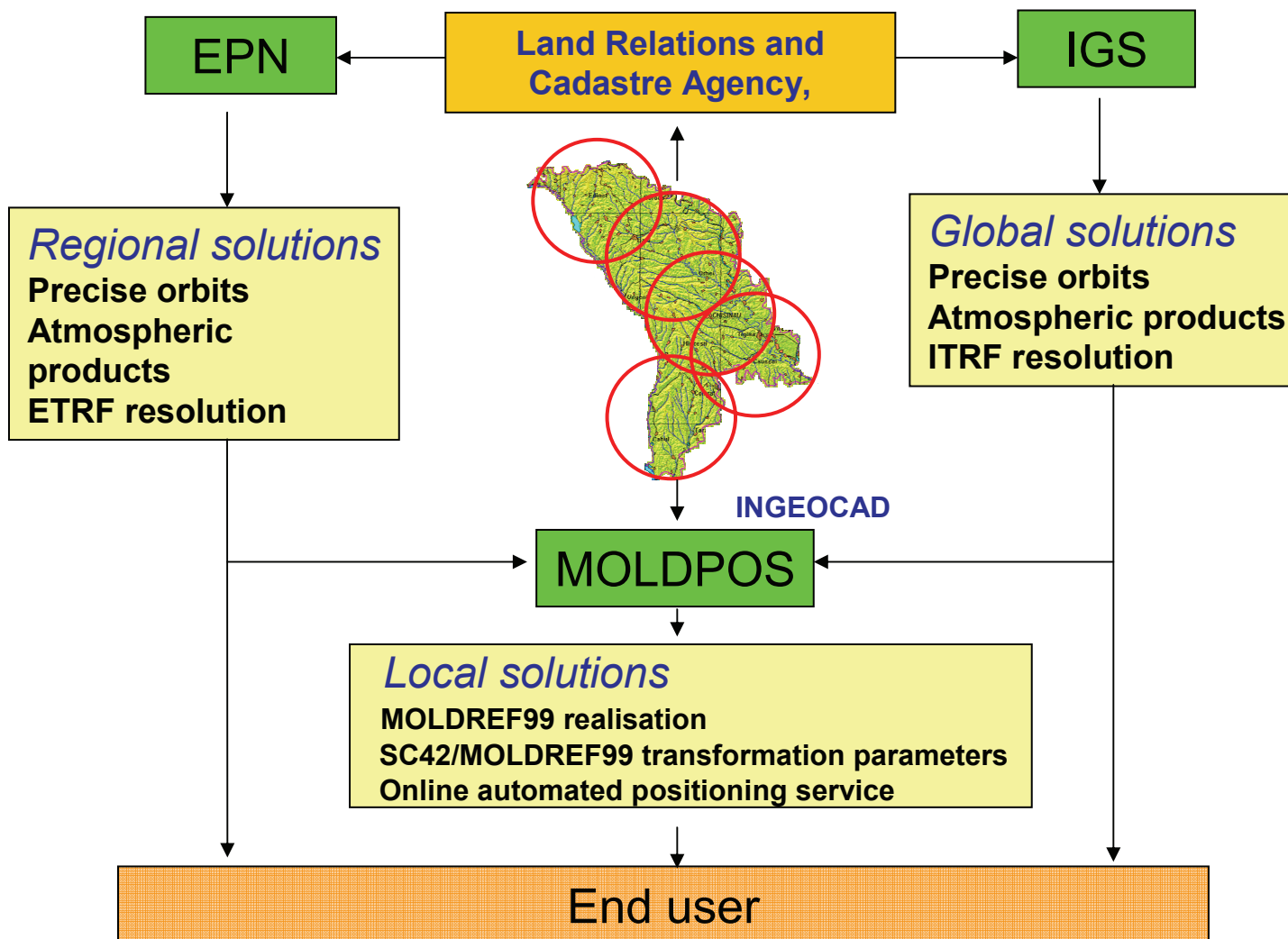
National CORS Network Concept

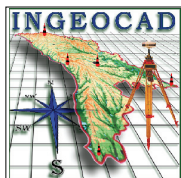
- Installation of the GPS reference station in the Technical University of Moldova is the first step toward the realization of MOLDPOS
- The densification with the 70 km requires that at least 5 GNSS CORS will be established in Territorial Cadastre Offices
- Such network will form the basis of and act as focal points for the establishment of the MOLDPOS Network



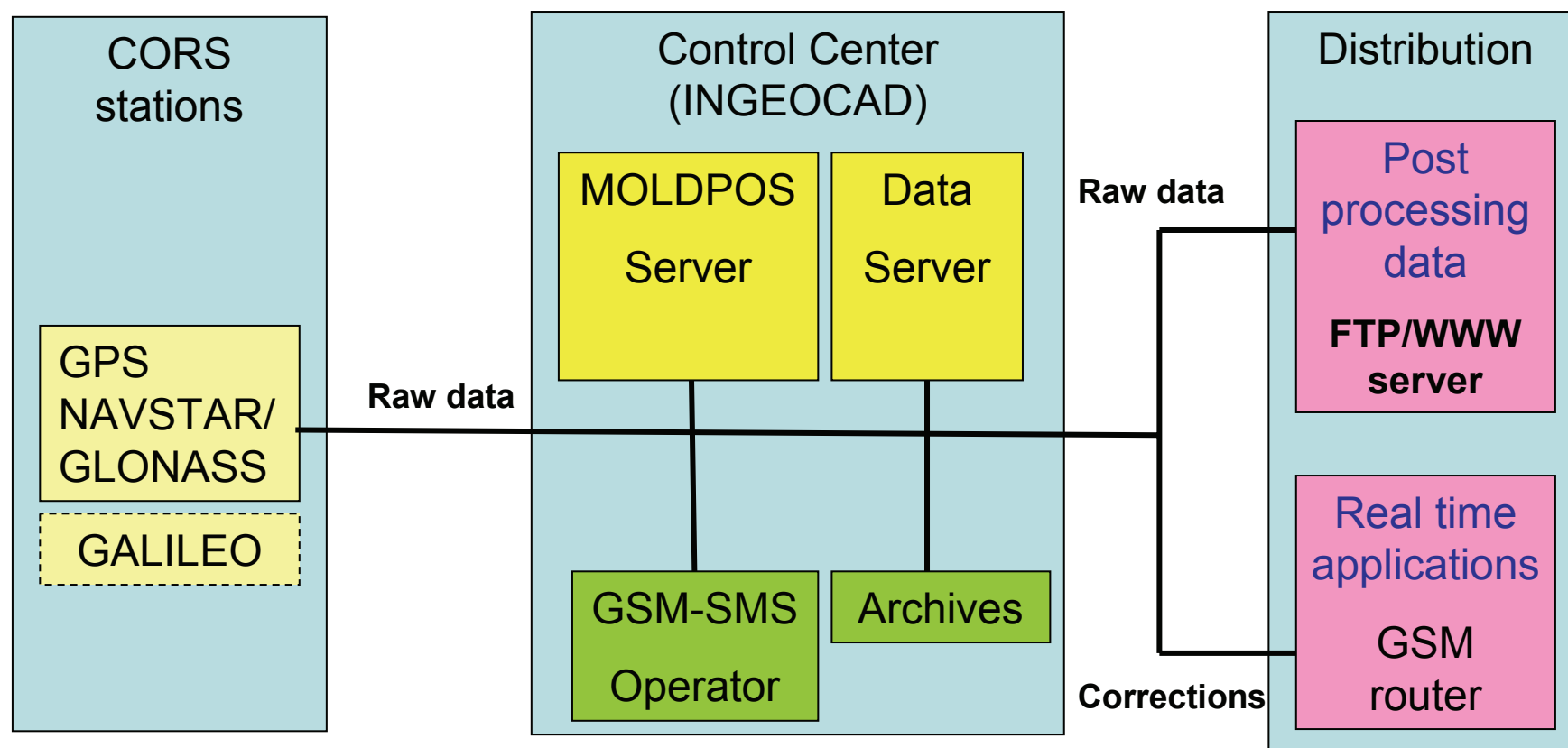


Destination of the National CORS network

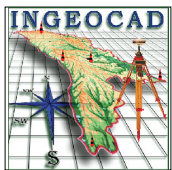




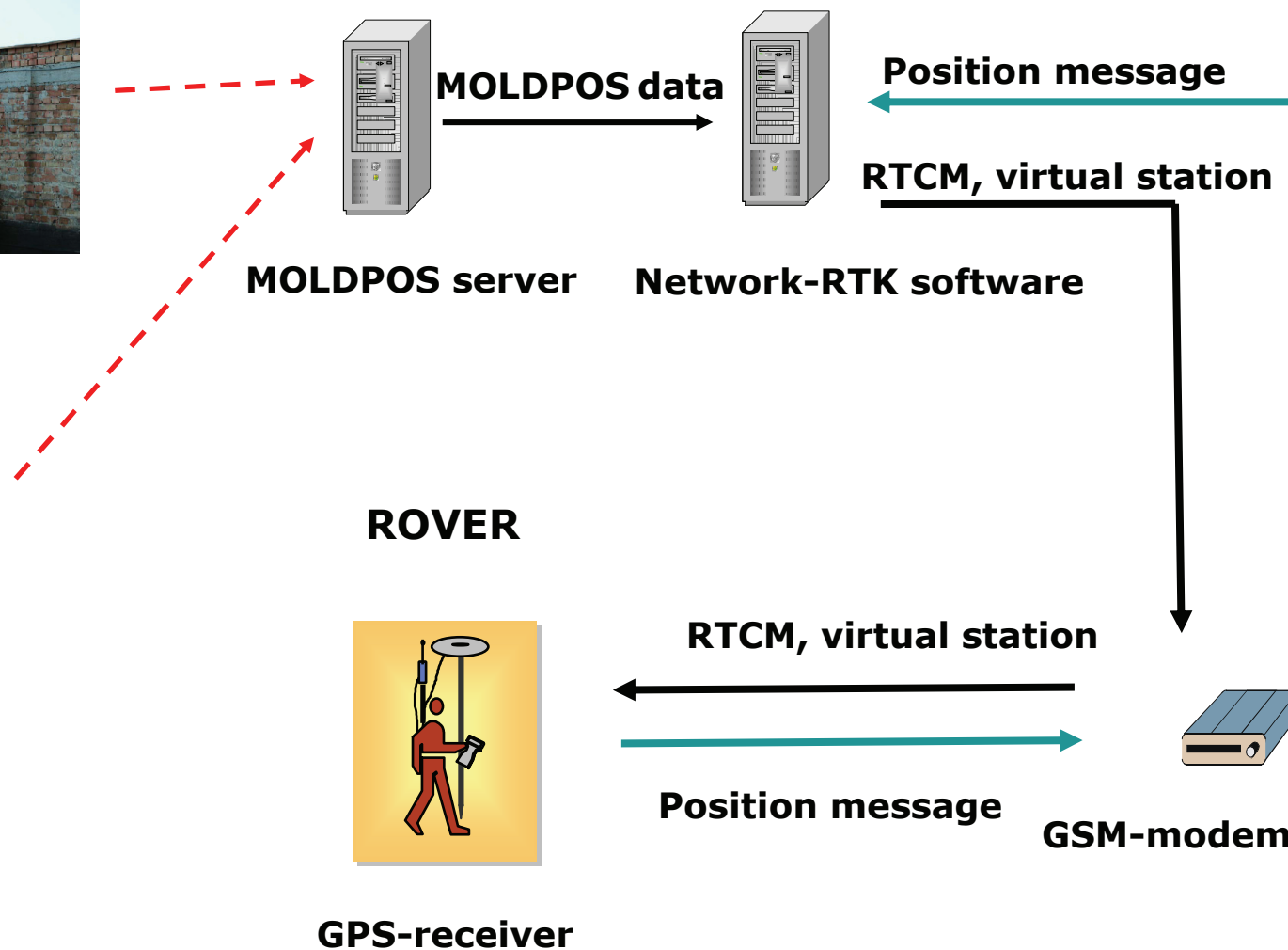
Structure of MOLDPOS Network



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

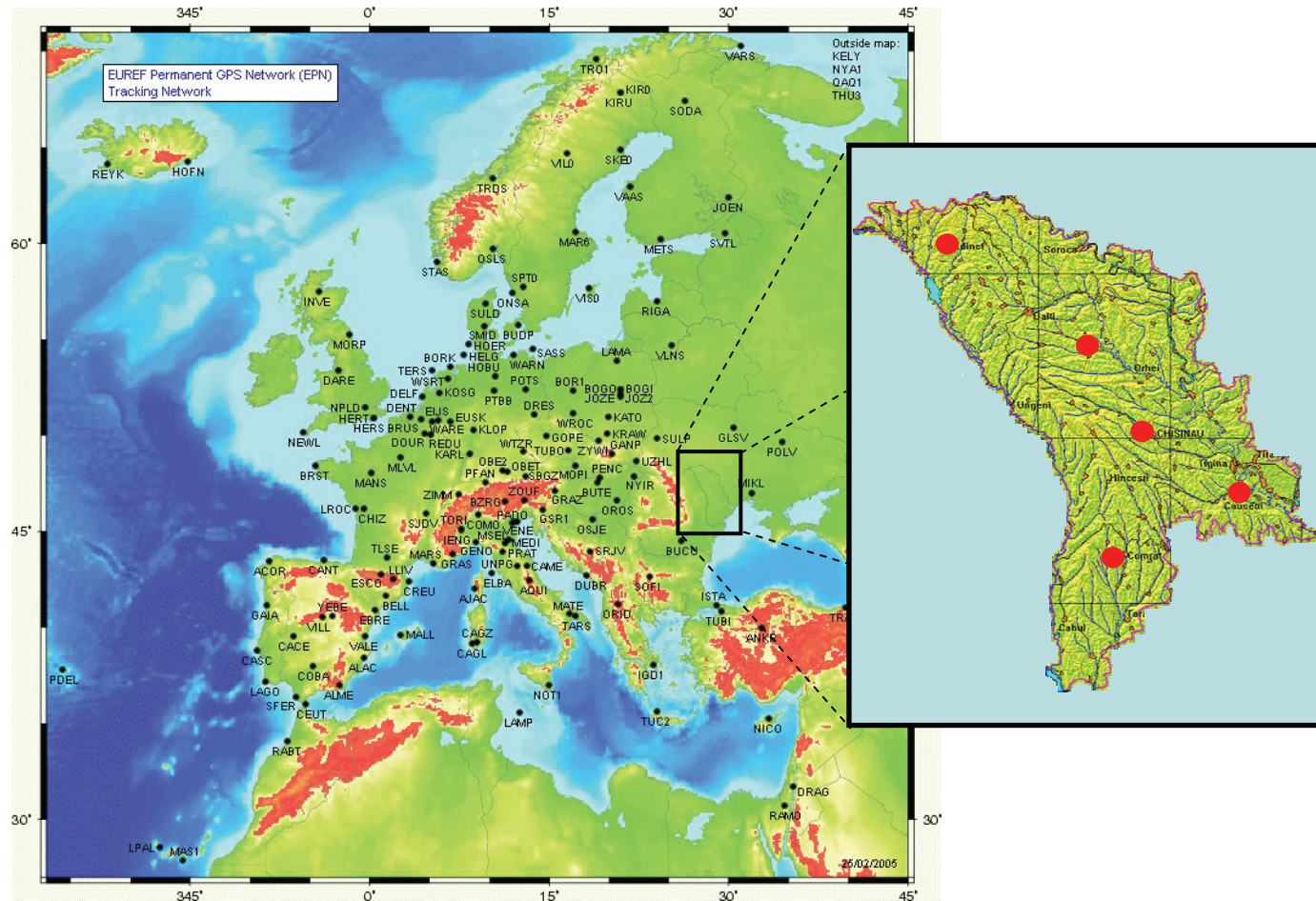


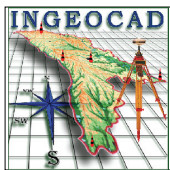
MOLDPOS RTK/VRS Network





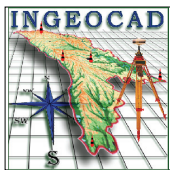
Integration with EPN





Summary

- For the beginning, Moldova needs 5 CORS with ~ 70 km spacing in order to organize the differential GPS for navigation and real time kinematics by means of RTK/VRS
- We suppose the MOLDPOS network 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 monitoring, environmental research, geohazard prediction, meteorology, etc.)



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Thanks for your attention

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