



Current Position
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Efforts to Establish Slovak National Infrastructure for the Use of GNSS

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Overview 1990-2001 :

- The first purposeful utilization of GPS technology was proposed in two Conceptions of development of geodetic control :
 - 1990 – 1994 1st Conception
 - 1995 – 2000 2nd Conception
- In 2000 done 1st try of using EC's financial support for network of PS GPS
- 2001-2005 3rd Conception, there was explicitly expressed an effort to build the network of GPS permanent stations



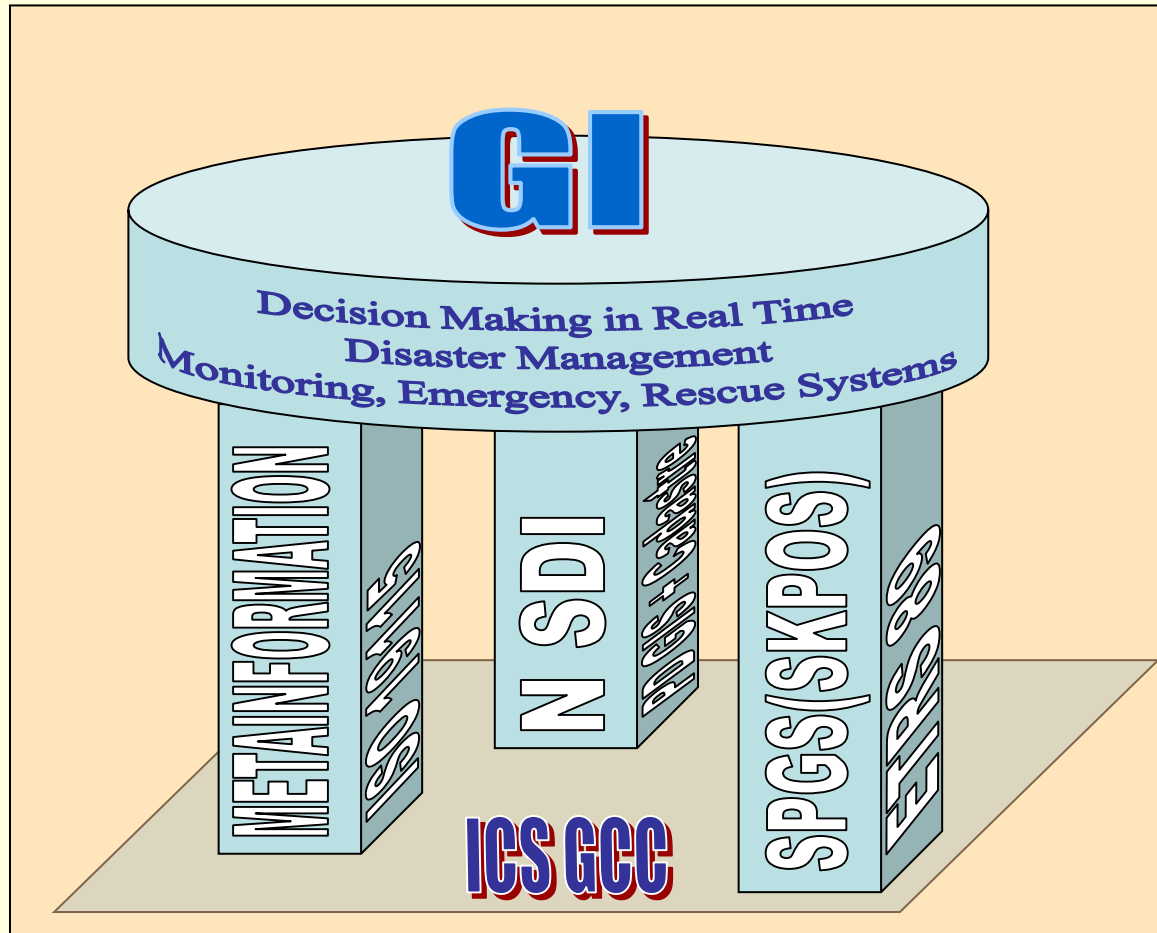
- 2001 – 1st UN/USA Regional Workshop on GNSS – positive impact on awareness of multifunctional utilization of GNSS
 - Formulation of the own strategy for multipurpose implementation of GNSS based on geodetic infrastructure SPGS(SKPOS)
 - Formulation of Need of the establishment of the implementation working group for GNSS on the governmental level
 - Establishment of the Expert Group SK-GNSS of the corporation SAGI (non-governmental level)
 - Effort to amend the law on geodesy and cartography,
- 2002 – project EUPOS, establishment ISC EUPOS
 - Development of the national project SPGS
- From 1 November 2003 - amended the law on geodesy and cartography – obligation to establish and operate SPGS,



- During the year 2003 was developed and by the European Commission adopted the sectoral PHARE project „Land Administration and Cadastral Infrastructure“,
 - Project purpose: Improving Land Administration based on spatial and cadastral data, including GNSS, public access to the Land administration and cadastral data, whose part is also the SPGS management and operation.
- In November 2003 was signed the Financial memorandum
- Looking for the best financing mechanism for communication channel



New Strategy Pillars of Production and Provision of GI



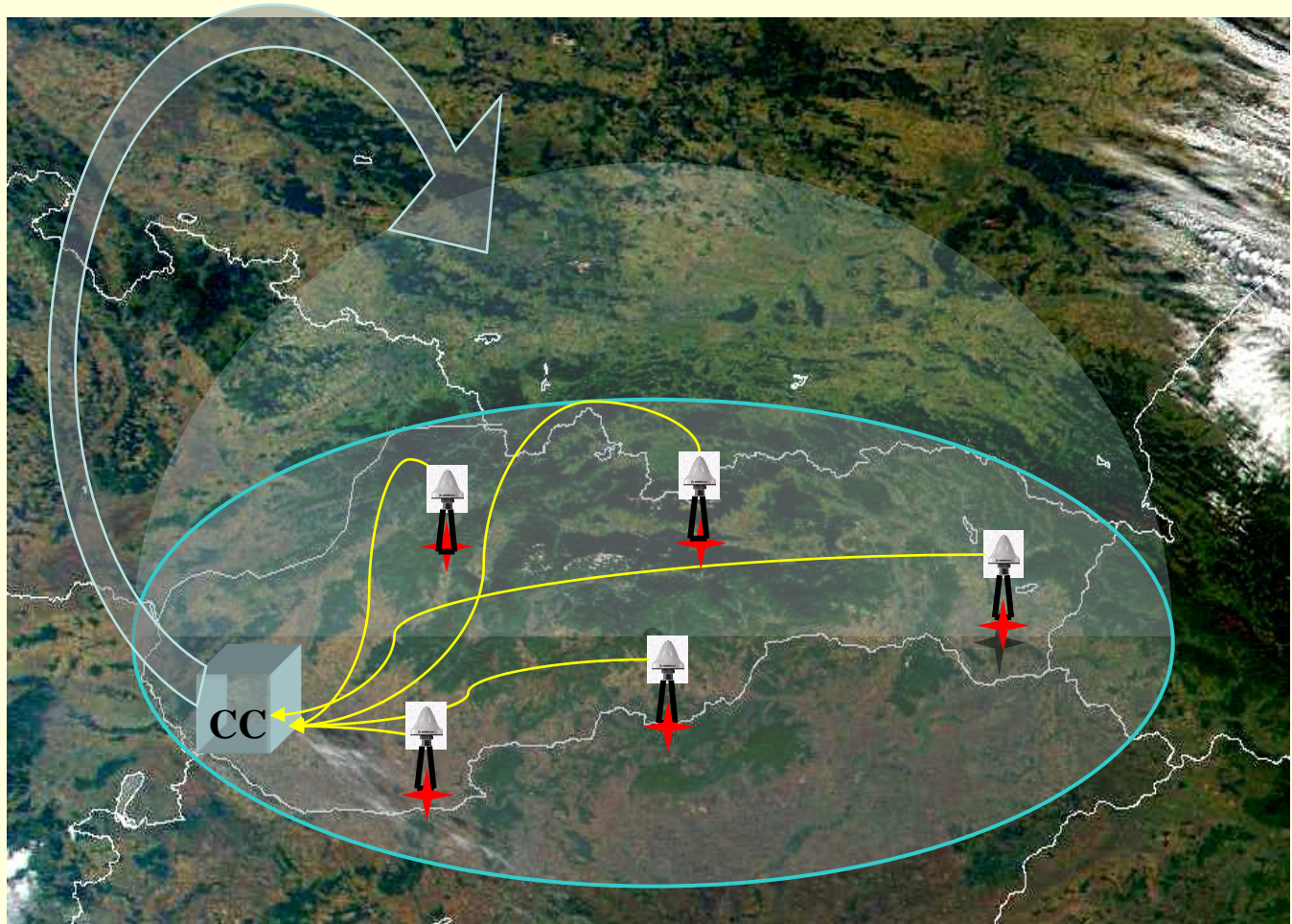


SPGS(SKPOS)

SKPOS - mm

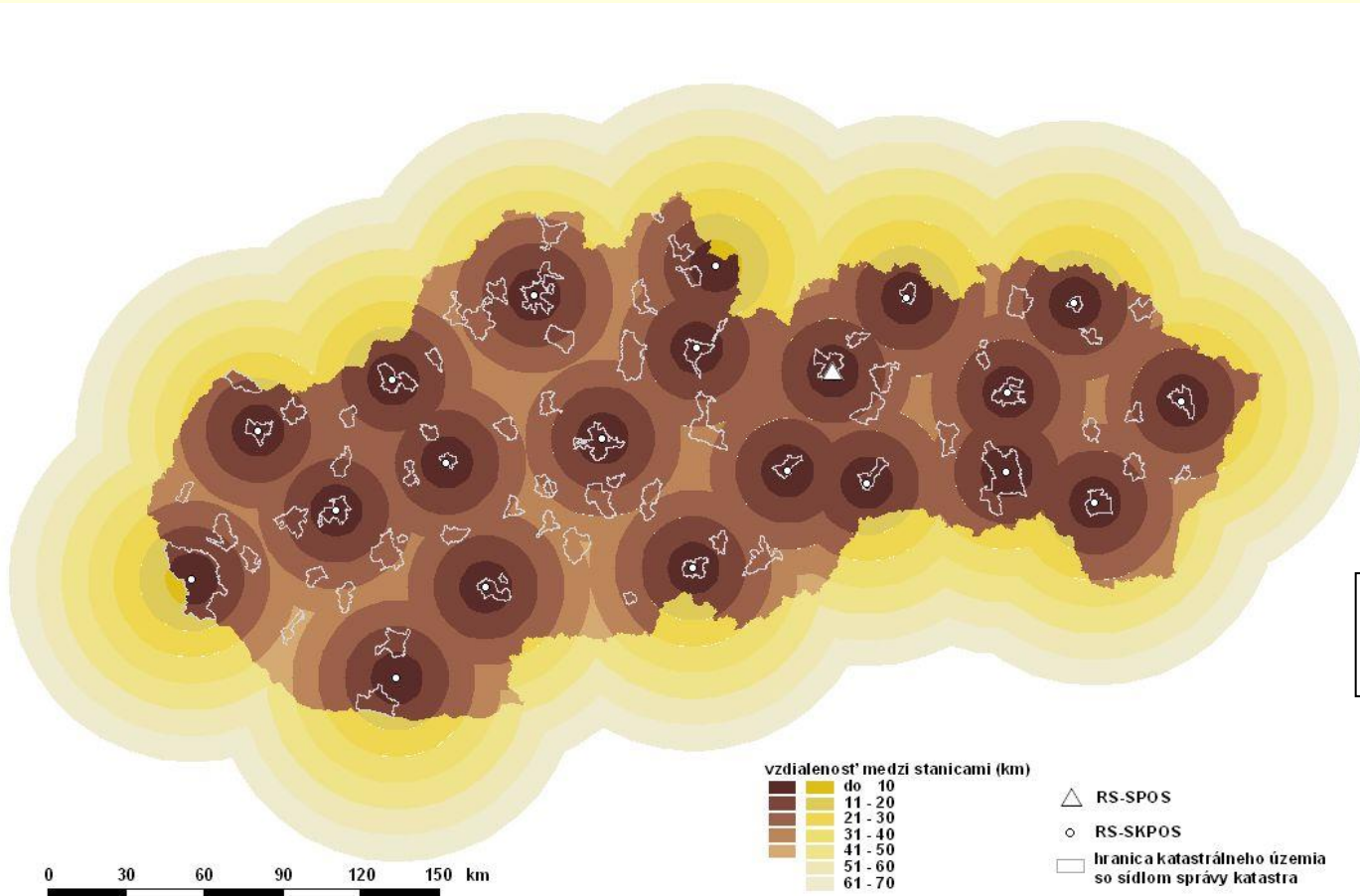
SKPOS - cm

SKPOS - dm





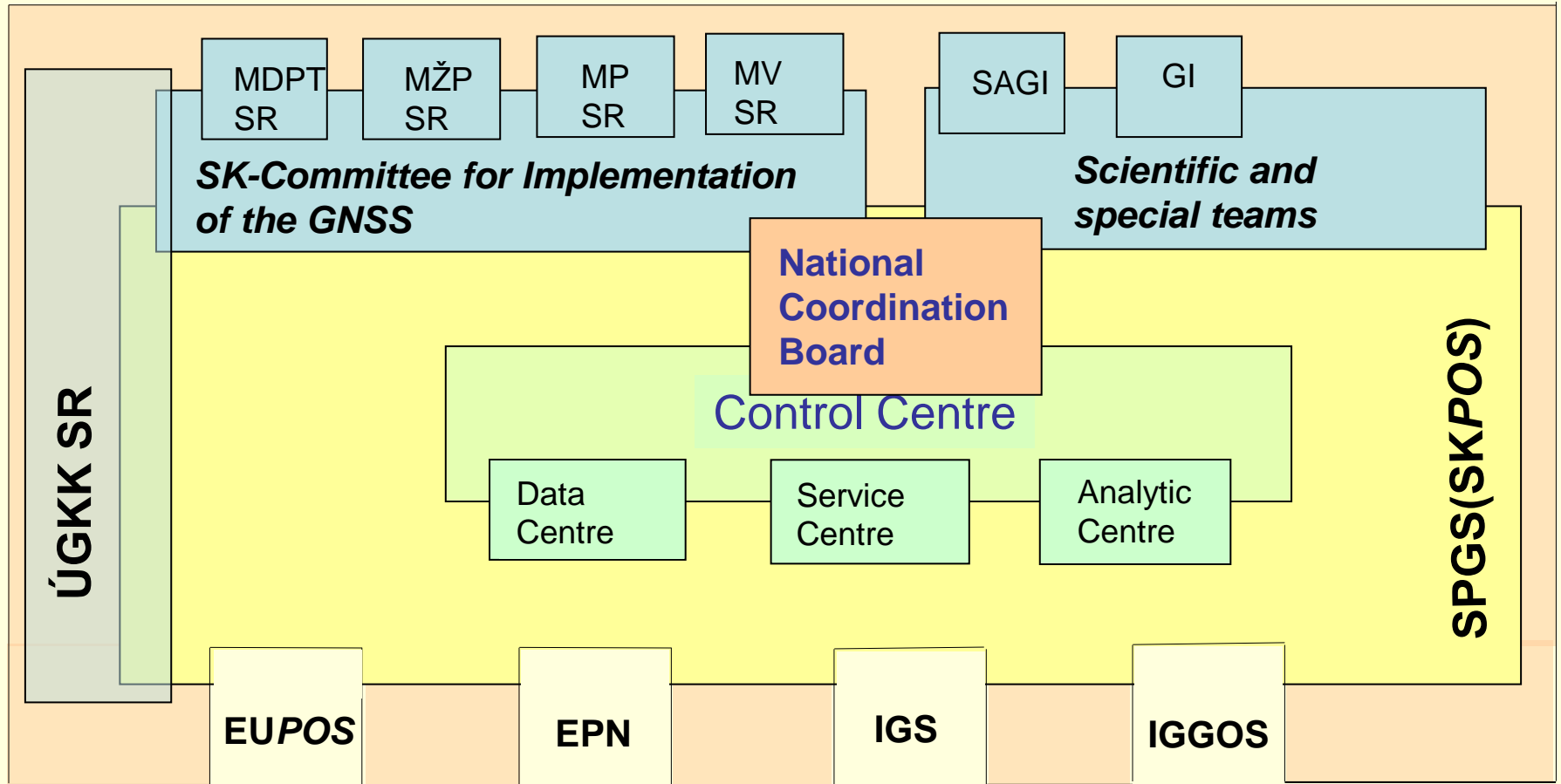
Distribution of the RS SKPOS



Average distance
RS ≤ 70 km



Organizational Structure of the GNSS Service in Slovakia



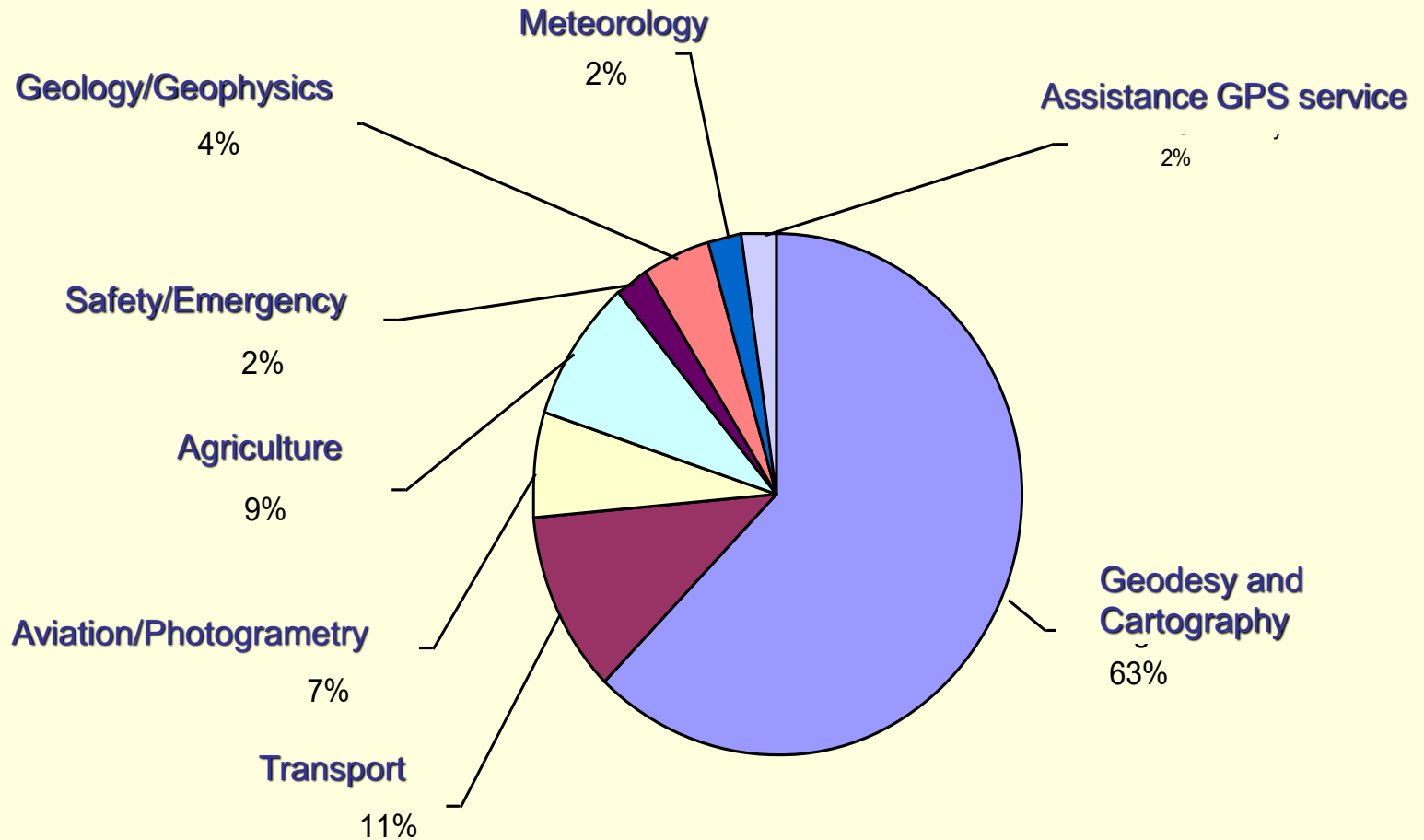


Survey of the GNSS End-users (Questionnaire)

- Who are the potential end-users?
- What are their accuracy requirements?
- In which areas are they working?
- Do they need the real time positioning?

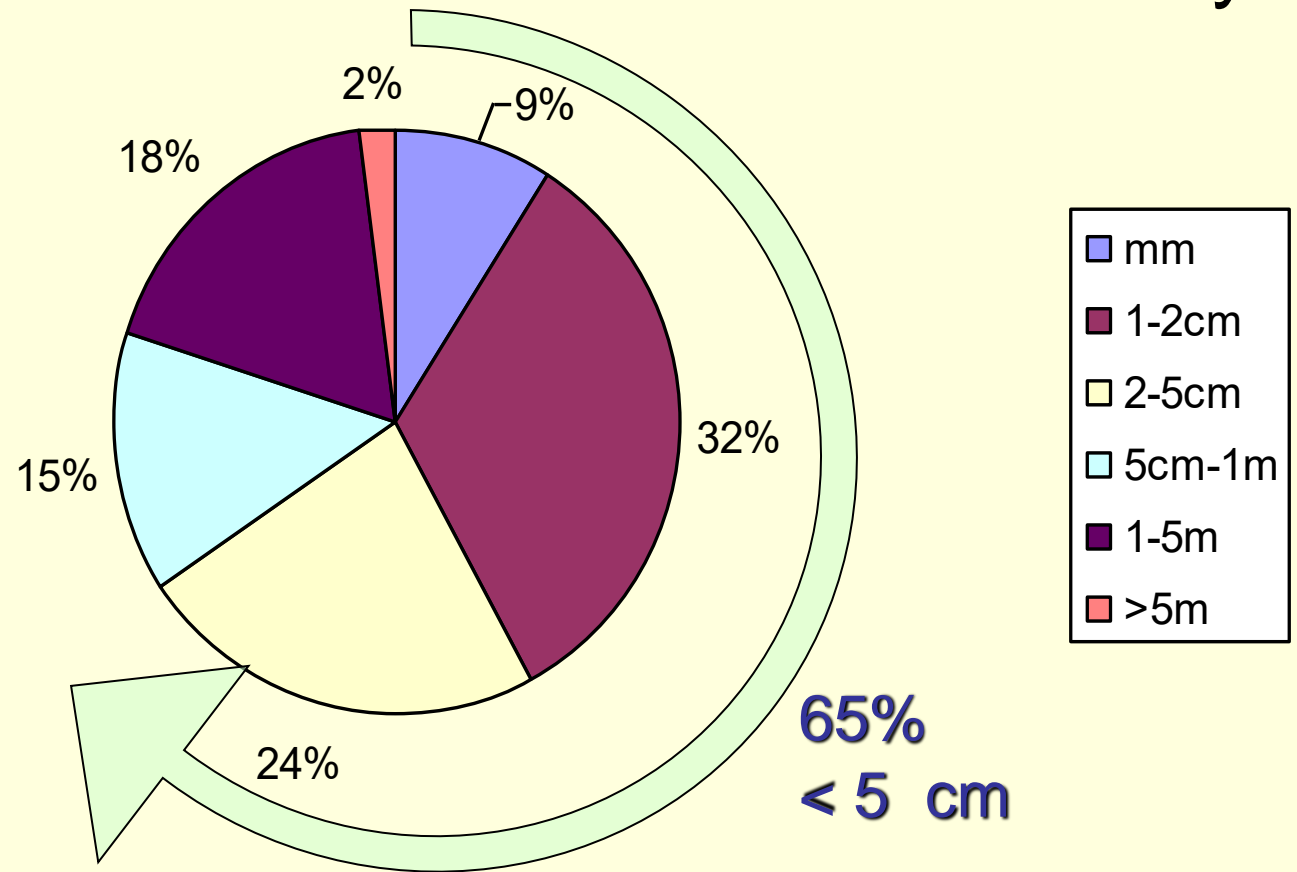


Required areas of GNSS utilization





Requirements on horizontal accuracy



Conclusion: accuracy of e.g. EGNOS is not sufficient for the majority of the respondents



Recommendations and next steps

- UN is asked for call appeal for the utilization and implementation of the GNSS to the national governments
- UN is asked for financial support of the draft of EUPOS project harmonisation, standardisation and utilization (experts meetings, workshops,...)
- UN is asked for support in long and medium-term trainings of the technical staff



Thank you for your attention.

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