User need for GNSS at high latitudes

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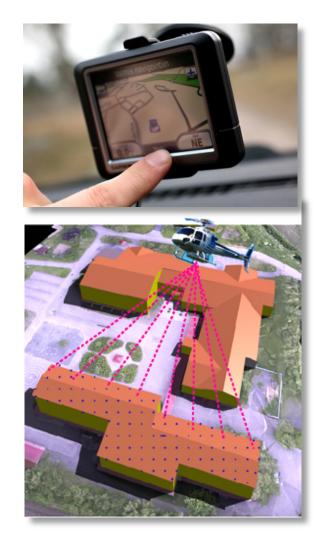
Key points for Arctic Strategy

- Location information plays a key role in most areas of current and future business opportunities
- Satellite navigation is the only option for providing location information
- Many applications require better accuracy, higher availability and more reliable position than the average GNSS user.
 - A-GNSS, SBAS, DGNSS
- Position information can be a matter of life and death.



Open geographic information boosts the competitiveness of location based services

- Satellite positioning will enable intelligent transportation systems and create export of equipment and services.
- Open geospatial data released by government agencies and data collected by Earth Observation satellites will create new applications and boost the competitiveness of services in positioning, remote sensing and geographic information.





Multi GNSS solutions

- Needed for increased reliability, accuracy and availability
 - VDOP high in the Arctic Region
 - Satellite constellation unique
- Support research into multi GNSS solutions
 - Algorithms and receiver hardware
- Interoperability work









Jamming and interference

- Increasing global problem
 - Arctic Region more dependent on satellite navigation
- Support receiver research
 - Detection and mitigation
- Alternative positioning methods (Digital TV, INS)





EGNOS

- EGNOS issues still remains in arctic region
- Integrity information for arctic regions

