DEVELOPMENT OF GEODETEC NETWORK OF MONGOLIA

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DEVELOPMENT OF GEODETIC NETWORK:

• GNSS NETWORK
• DENSIFICATION OF GNSS CORS
• LEVELING NETWORK
• ABSOLUTE GRAVITY MEASUREMENT
• ITRF2008 transformation to ITRF2020
• GNSS network points 3760 adjusted by BERNESE software in 2014 ITRF2008 epoch 2005.01.01.
• 1:1000 scale topographic and cadastral mapping in aimag and soum centers.
DENSIFICATION OF GNSS PERMANENT STATIONS

- 43 GNSS CORS managing and monitoring by ALAMGaC.
- GNSS CORS managing and monitoring Software SNIP in 2020.
- Mongolian Government activity plan in 2021-2024: 25 more GNSS CORS.
• MONPOS: on-line Positioning user service.
• GNSS CORS monitoring system.
ESTABLISHMENT OF 1<sup>st</sup> CLASS LEVELING NETWORK

2014-2019:
- 375 benchmarks
- 5 polygons Length: 2870 km,
- Levelling,
- GNSS measurement,
- Gravity measurement,
- Adjustment.

2020:
✓ 1 line: 707 km,
✓ 77 benchmarks,
✓ Levelling,
✓ GNSS measurement,
✓ Gravity measurement.

2021:
• 1 line
• Adjustment of network.

1<sup>st</sup> class Leveling network establishment in 2014-2021:
- 2 polygons,
- 7 lines.
• Mongolian Government activity plan in 2021-2024: Re-measurement of 2nd class leveling network
• 14000 km: 43 lines, about 3000 benchmarks
Absolute gravity measurement: 2020 – 2021 on 3 points, located in Umnugovi, Dornod aimags and Ulaanbaatar city

In corporation with GSI Japan.
ITRF2008 transformation to ITRF2020

- Director General decree on 10 April 2014.04.10: ITRF2008
- 2020-2021 Activity plan to transform into ITRF 2020 in 2022
THANK YOU FOR YOUR ATTENTION