



# DIGITAL TRANSFORMATION FOR RESPONSIBLE LAND ADMINISTRATION

FIG Commission 7 & 2 Annual Meeting 2023

2-4 October 2023, Deventer



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# Efficiency of Cadastral survey work through combining of GNSS device and AR technology

## Jeong O Kim, LX Korea

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NOW WE..

In Korea, **Client** needs **fast survey service**.

At the same time, **Surveyors** says **Work fatigue**.

How we satisfy **both of them**.



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**Checking Law, process and technical things**

**Lots of conference, workshop and meeting**

**Collecting opinions from Young Surveyor**



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## The main point of Cadastral innovation

## Improving the working process

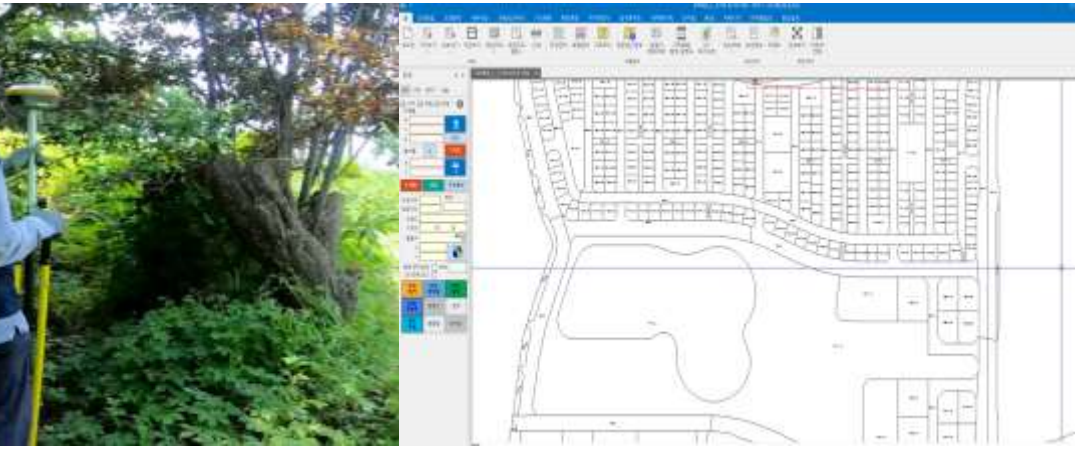
Total station, GNSS and work program LandyGo software Combining all of it.



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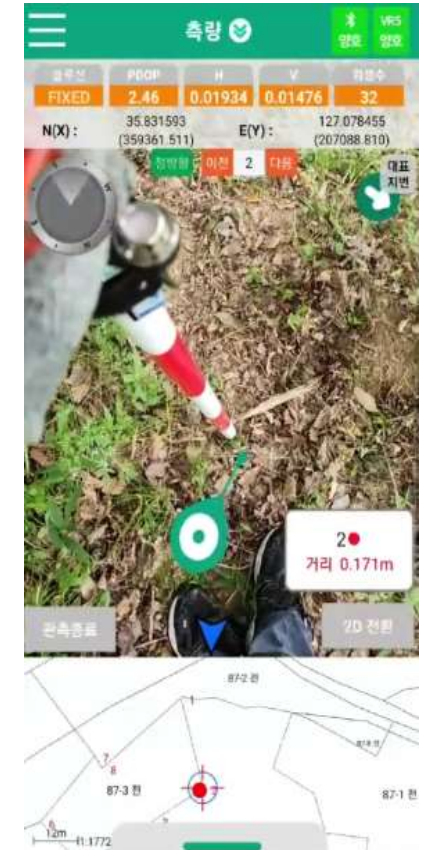
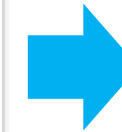
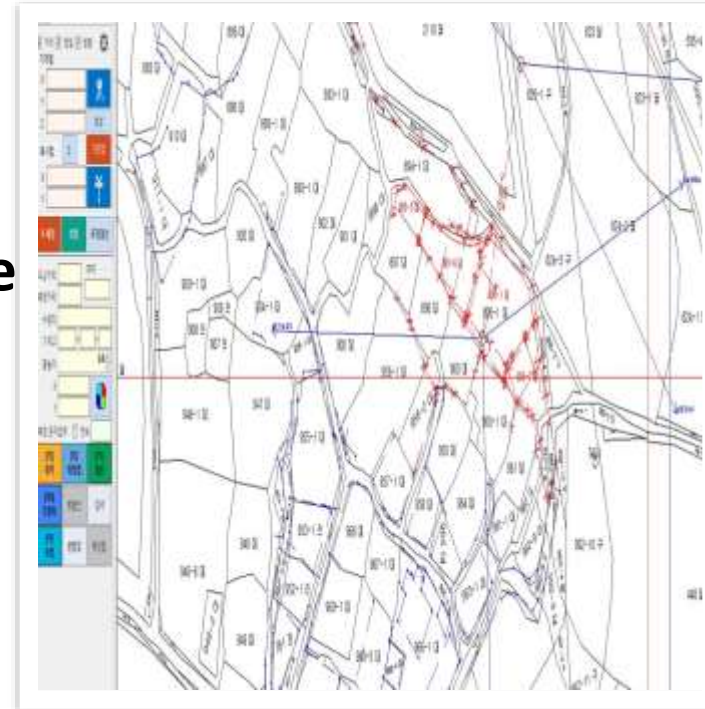
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Mobile landygo

Transitioning **desktop** software to **Mobile**

Ease of portability

Add **User-oriented** convenience features



Desktop

Mobile

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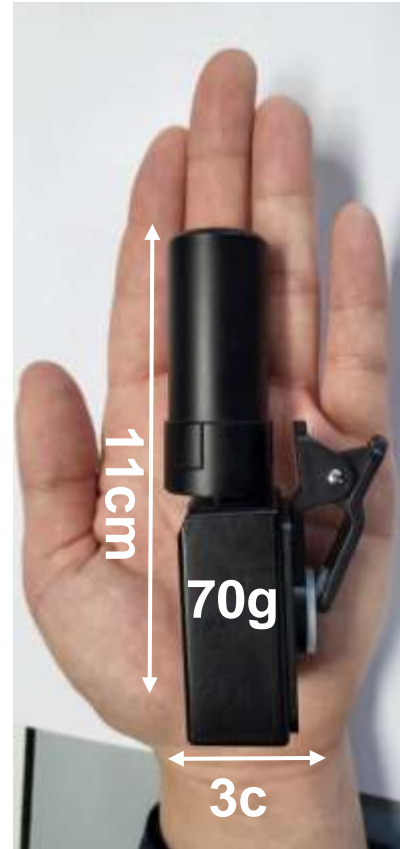


Change and merge

Making proto type **Compact GNSS**

Put it on the prism pole

Add the **AR function** on the mobile Landygo



Proto type



combine



AR

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<https://youtu.be/kF26K5qiP14?si=sBZiYGzOahqxj2Ry>

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## RESULT

- the **verification** at 23 branch office about **29,228 point**.
- the **94.4% of reception rate** and **cross-verified** that point by total station and GNSS receiver.
- the **labor reducing effect by 46%** and **reducing work time 20min for each work**.
- being **well-received** from the all of **YS**.
- It make easy survey that combination with compacting and visualization.

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## Conclusion

- Through the result of verification, **we can use it** except high-building area. In this area, we also can use total station at the same time.
- Some issues about compact GNSS such as durability would be improved soon.
- We will effort to make the work condition **not human-centered but technical-centered.**

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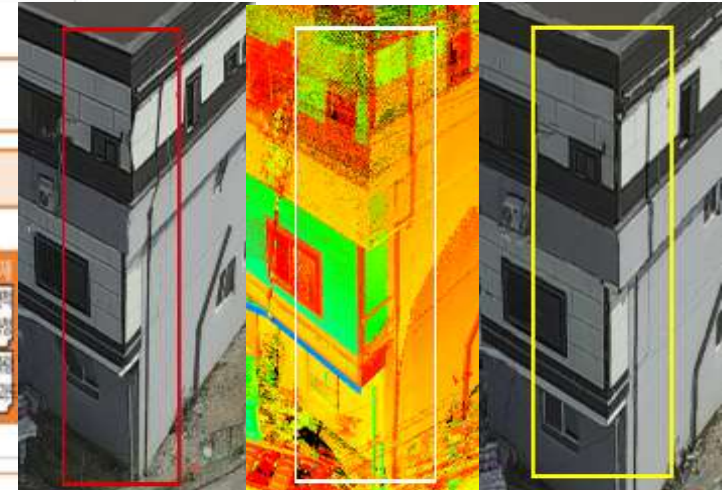
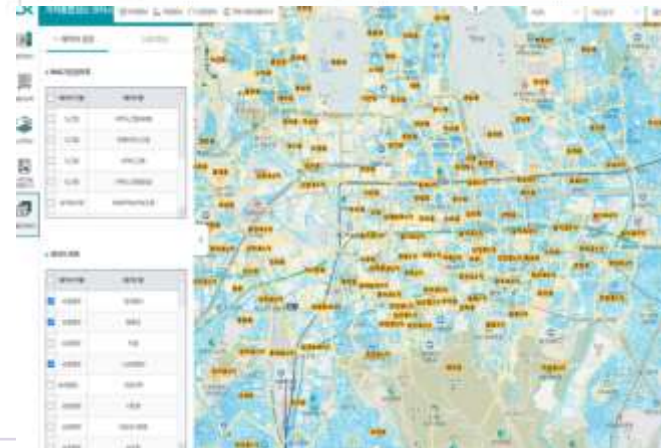


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Other than that,  
 We also carrying out  
**online Inspect,**  
**Drone and Mms data processing,**  
**Integrated GIS management system,**  
**Metaverse survey, etc.**



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# Thank you

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