

FIG WORKING WEEK 2019

22-26 April, Hanoi, Vietnam

Presented by the FIG Working Week 2019,
April 22-26, 2019 in Hanoi, Vietnam

"Geospatial Information for a Smarter Life
and Environmental Resilience"



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Mobile-Based Land Related Data Collector for Land Registration Activities: Usability Tests of Smart-PTSL Application

Reza Abdullah, Wahyuni, Fahmi Charish Mustofa, and Suharno,
Indonesia

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Strategic Programme for Land Tenure Security in Indonesia

- **The Complete Systematic Land Registration (PTSL) – Registering 60 % of 126 M Parcels all over the country**
- **Completion before 2025 - Targets 2023**

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Road Map of National Land Registration Completion



The enormous target of The PTSL have to be finished by the end of 2023 (Government of Indonesia/GOI, 2015)

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Land Registration process

- Survey and Mapping – TF of Physical Data
- Juridical Data Collection – TF of Juridical Data
- Link the legal document to its spatial data
- Providing Land Title

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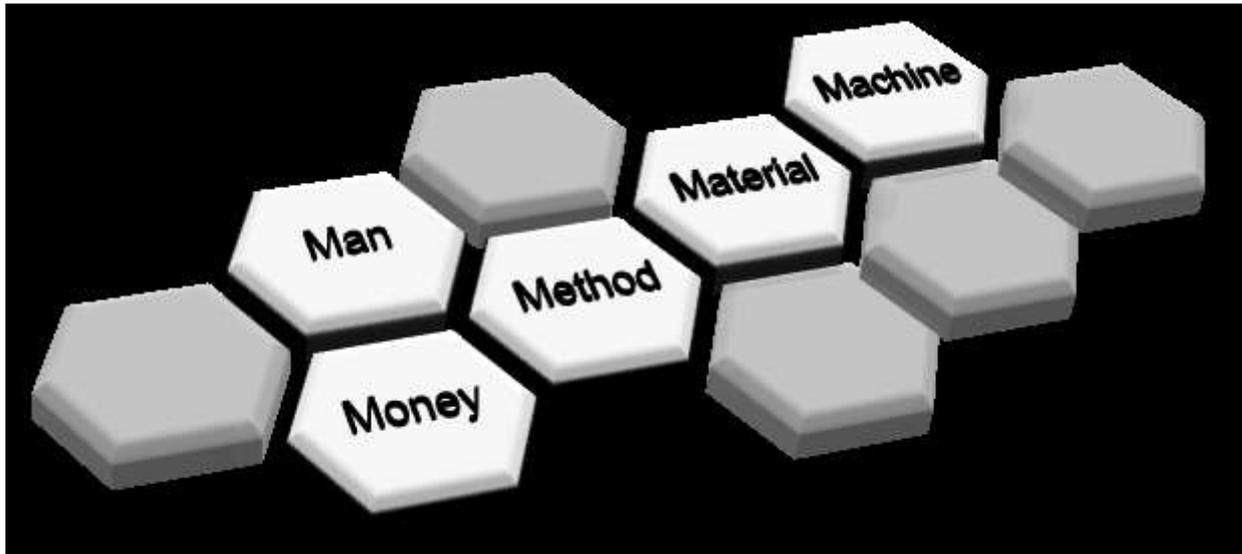
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Problem



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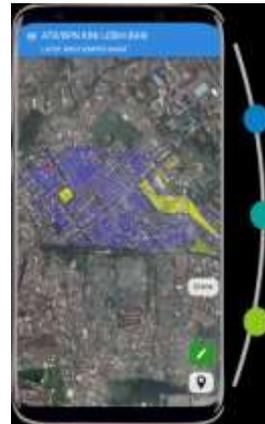
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Blessed by Cyber Physic, IoT, Big Data era



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Mobile Based Land Data Collector – Smart PTSL

- The Smart-PTSL is a mobile-based and web-based application.
- Developed to support land data collecting for Systematic Land Registration
- Connected with external GPS/GNSS
- Have been tested in several District and Province in Indonesia

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Survey and Mapping in Jakarta



East of Kelapa Gading
42 Parcels



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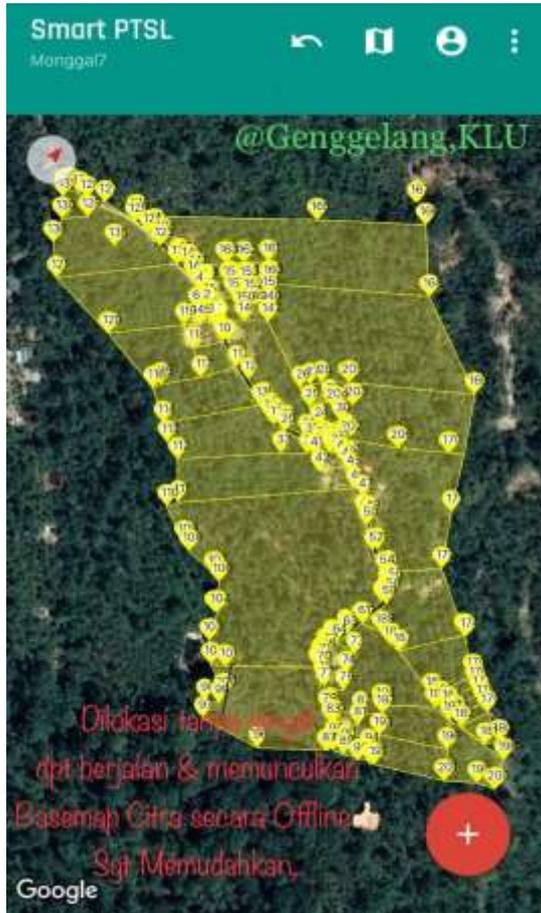




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Used with no internet signal



Applying
SmartPTSL
using RTK in
KLU, NTB

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Usability Testing for Smart PTSL

- 86 respondents –
- Various age, background education, and profession
- 5 components usability testing (Nielsen, 2012)

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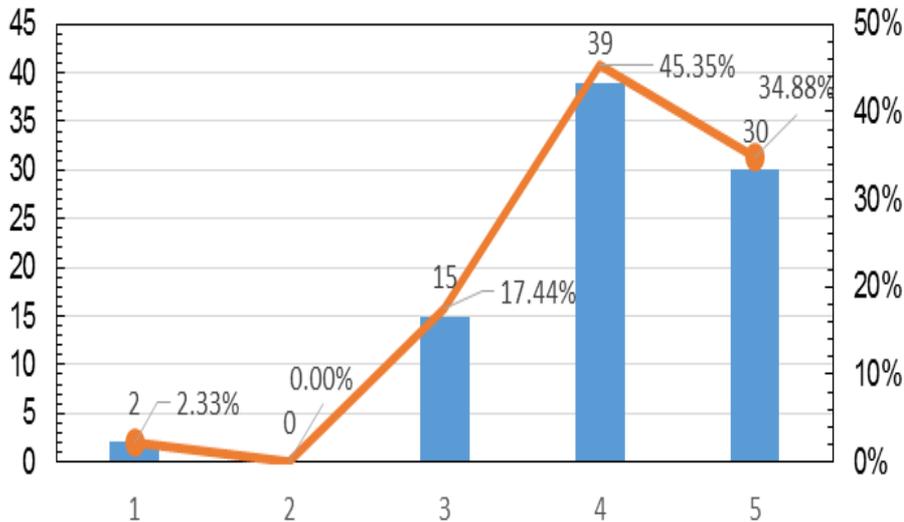
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Ease of Operation of Smart PTSL



39 respondents give 4 (45.35%)
30 respondents chose 5 score
15 respondents scores 3 (17.44%) and
2 respondents give score 1 (2.32%).

Score : 1-5 (430)

**Overall scores was
353 from from max score 430**

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Support

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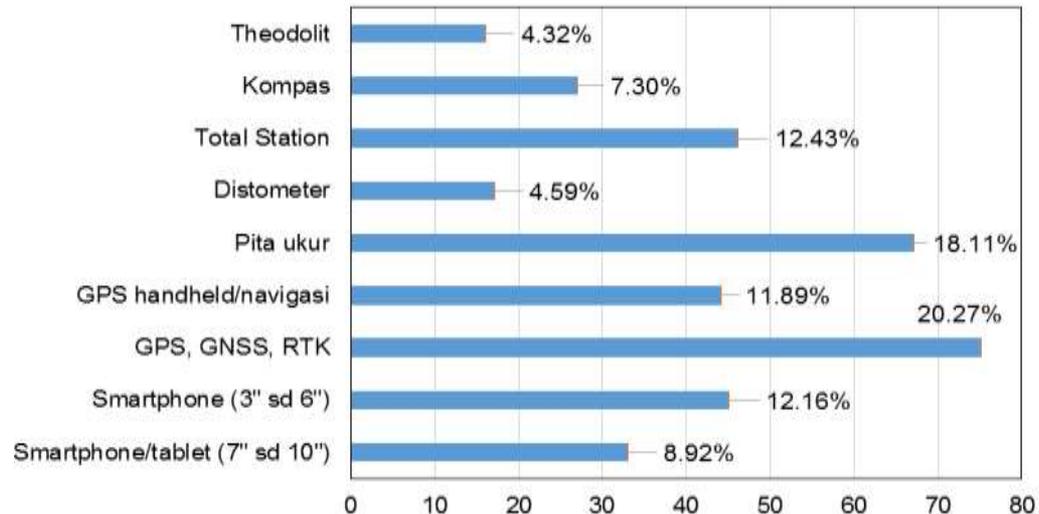


Fit to the User Need

Most respondents chose a score of 5 (56.98%) from all respondents. Overall scores was 397 from from max score 430

Compatible to Surveying Instrument

Easy to Acces – Low Pricing



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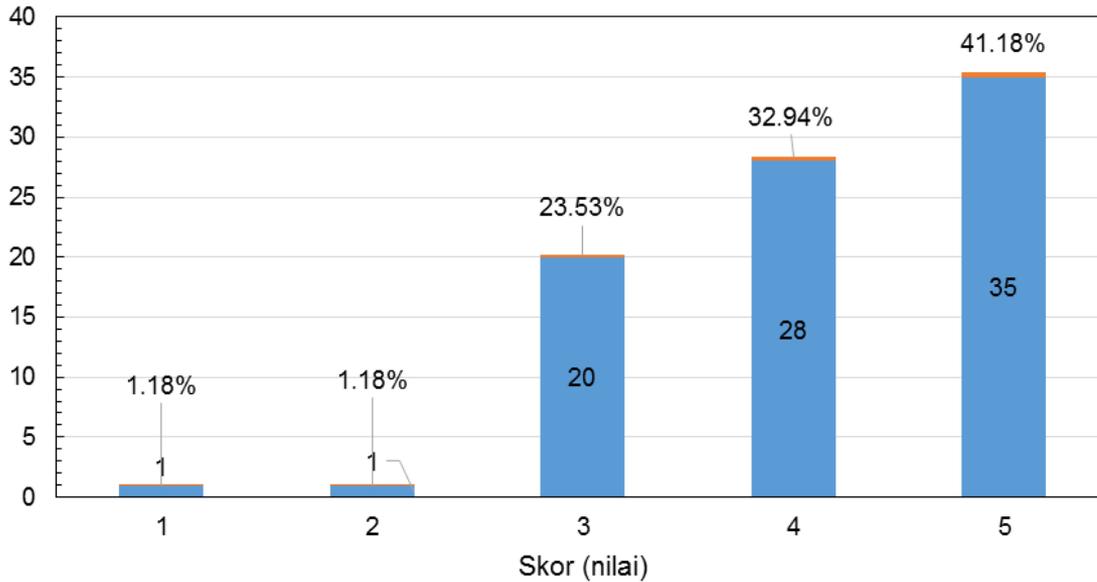
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User satisfaction



Score of User Satisfaction
350 out of a total of 430 (**5X86**)

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Conclusion - Summary

- the evaluate of the users' needs for the designed application is very good in the integration of spatial data and textual data based on the requirement to help accelerate PTSL.
- User satisfaction Scores : 4 to 5 ---- reached 84.87% of the total score.

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Thank You



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