

Presented at the FIG Working Week 2020,
10-14 May 2020 in Amsterdam, the Netherlands



SMART SURVEYORS FOR LAND AND WATER MANAGEMENT

Government Policy in The Form of Providing Licensed Cadaster Surveyors to Support The Acceleration of Systematic Land Registration in Indonesia

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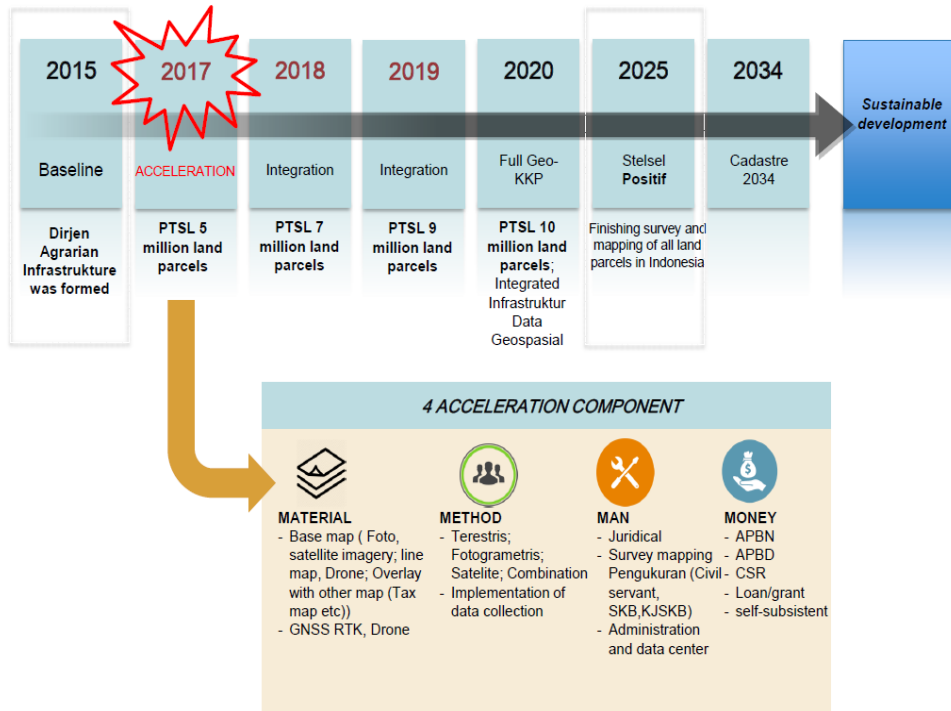


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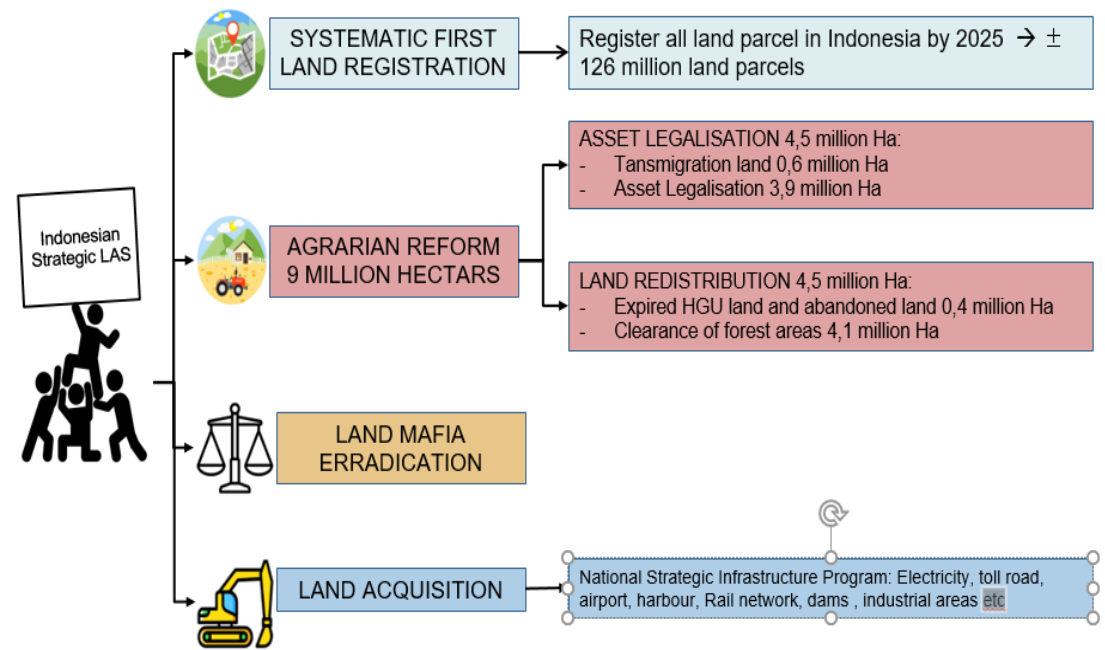




I. Overview



First land registration through PTSL as part of agrarian reform (BPN, 2017)



Current land administration projects in Indonesia (BPN, 2017)



II. Aim and Research Question

- This paper aims to investigate the program for providing licensed cadaster surveyors to support PTSL in Indonesia.
- It employs an analysis of progress reports on the supply of licensed cadaster surveyors conducted by BPN in all provinces in Indonesia.
- A question that arises is what are the competency standard requirements of licensed cadaster surveyors to support the acceleration of systematic land registration in Indonesia?



III. Licensed cadaster surveyor

The availability of civil servant land surveyors of $\pm 2,505$ is very insufficient to deliver land registration and other land administration program in Indonesia.

Year	The target of land parcel in PTSL	Required cadaster surveyors
2017.	5 million	5,000
2018	7 million	7,000
2019.	9 million	9,000
2020.	10 million	10,000
2021	10 million	10,000
2022	10 million	10,000
2023	10 million	10,000
2024	11 million	11,000

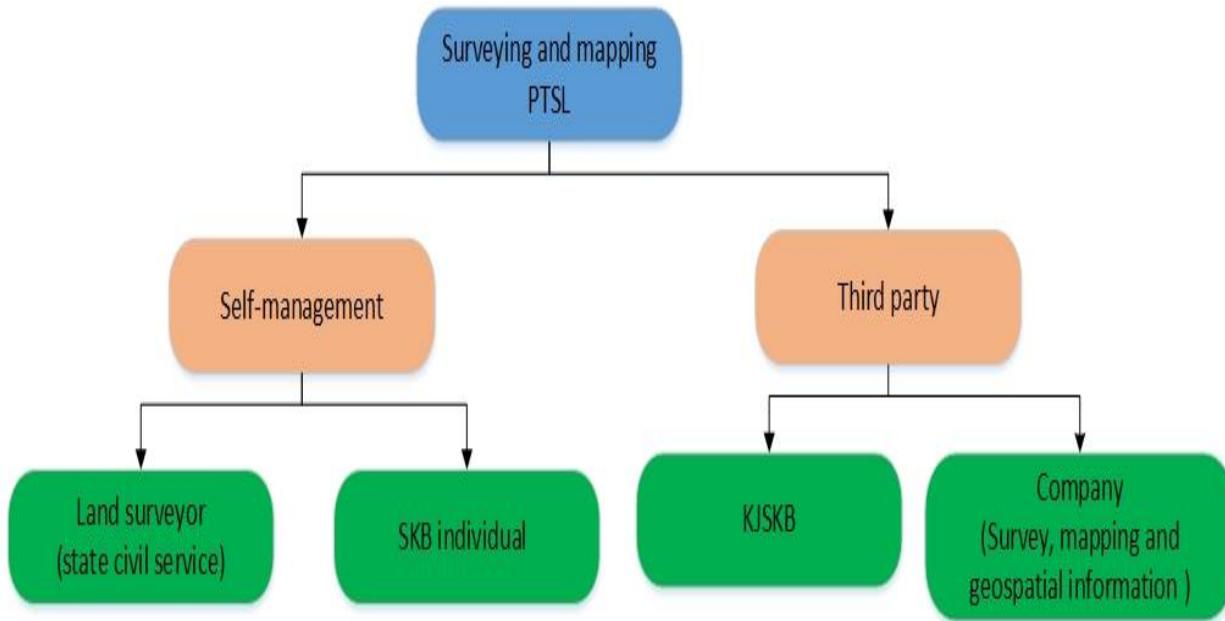
No	Possibility to recruit land surveyors in 2019	Number
1	Cooperation with the Ministry of Manpower	576
2	Cooperation with the Ministry of Education	1.360
3	Cooperation with the Army topographic service	75
4	Cooperation with local government	80
5	Geodesy/Geomatica alumni undergraduate	500
6	Diploma (1 year) graduate of the National Land College	450
Total recruitment plan for land surveyors		3.041

Number of required cadaster surveyors (Kushendratno, 2019)

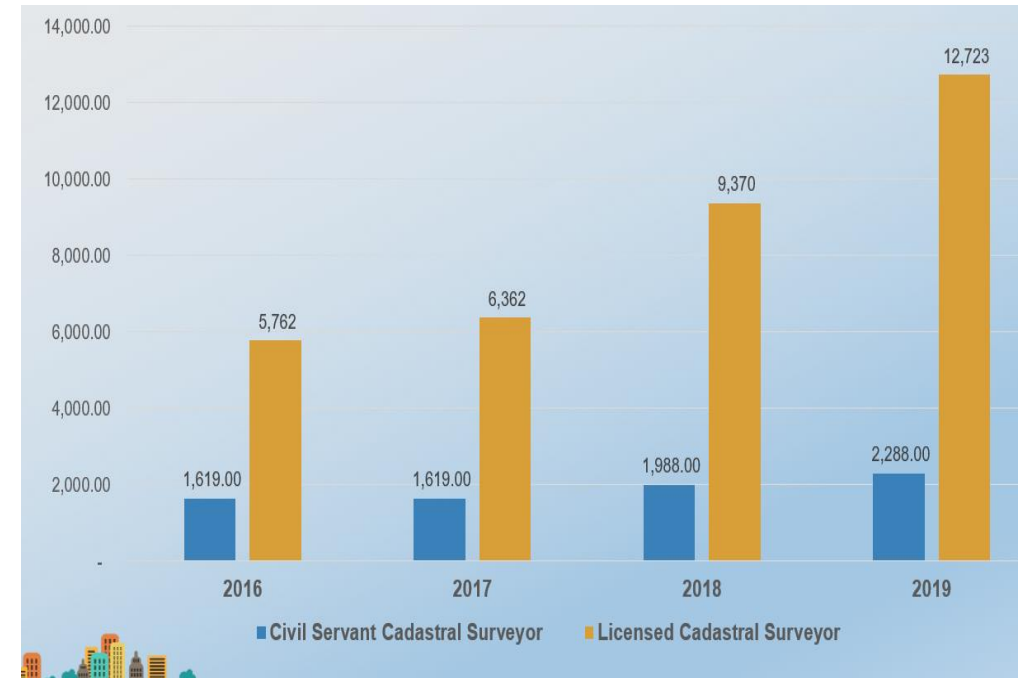
Scheme for providing licensed cadaster surveyors (BPN, 2020)



III. Licensed cadaster surveyor (cont....)



The mechanism for Cadaster surveying and mapping activities (BPN, 2019b)



Number of civil servant land surveyor and private licensed cadaster surveyor (Kushendratno, 2019)

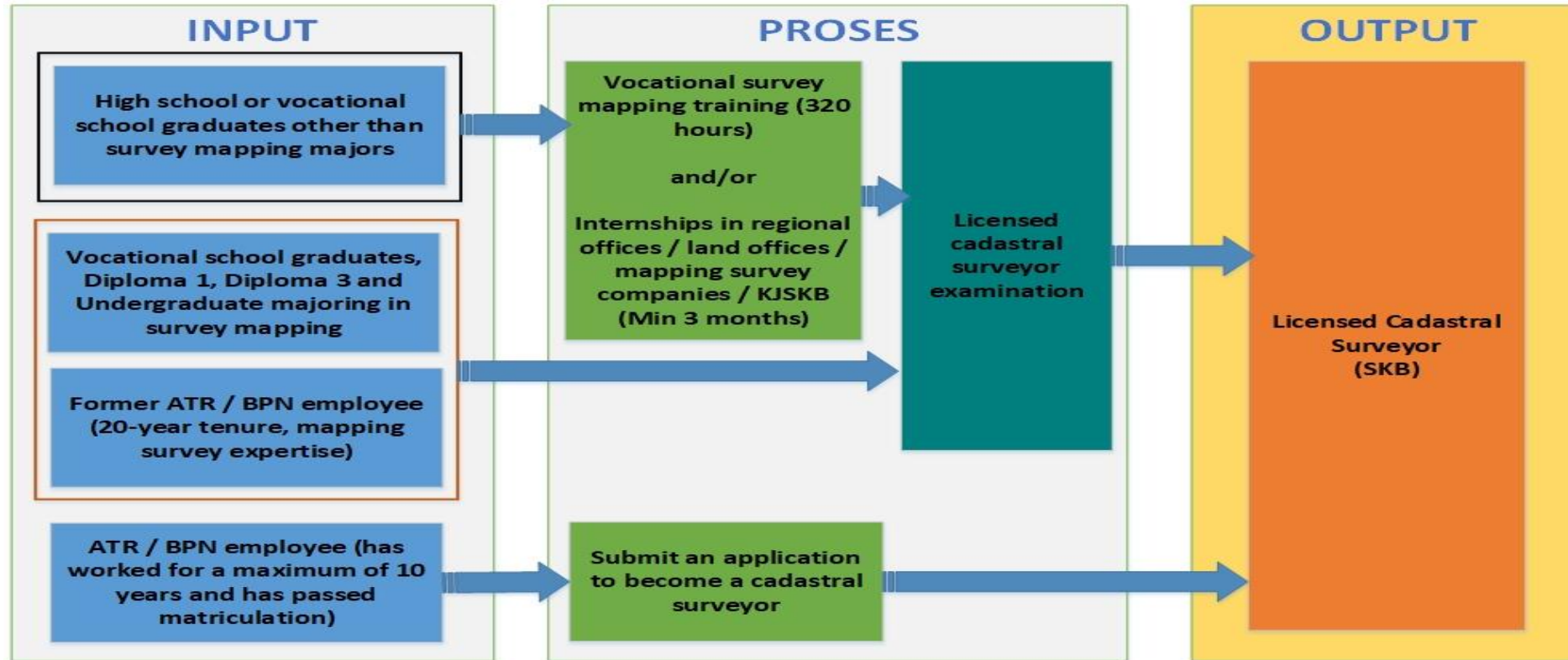


IV. Proposed mechanism to recruit licensed cadaster surveyor

- Collaboration with several agencies: The Ministry of Manpower (through the Center for Vocational Training), the Ministry of Education and Culture (through the Vocational High School majoring in Geomatics), and State and Private Universities that have geodetic studies programs or geomatics.
- In addition, the Coordinating Ministry for Economic Affairs initiated a vocational program to provide non-civil servant land surveyors at BPN through surveying and mapping training.



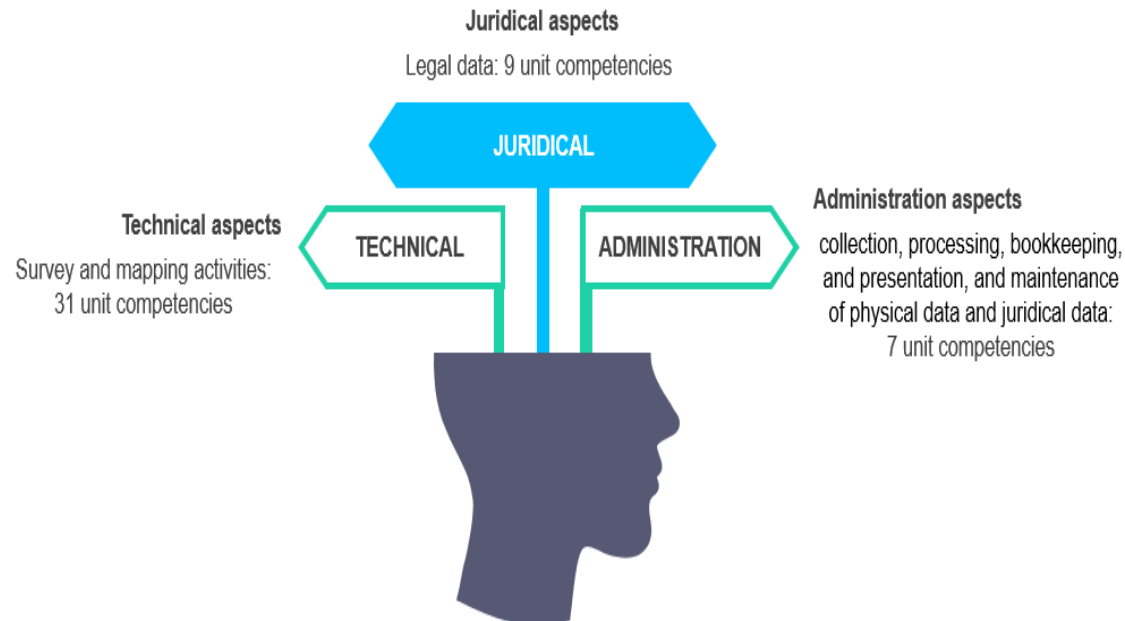
IV. Proposed mechanism to recruit licensed cadastral surveyor





V. The competency standar requirement

a. Indonesian National Work Competency Standard (SKKNI) cadaster

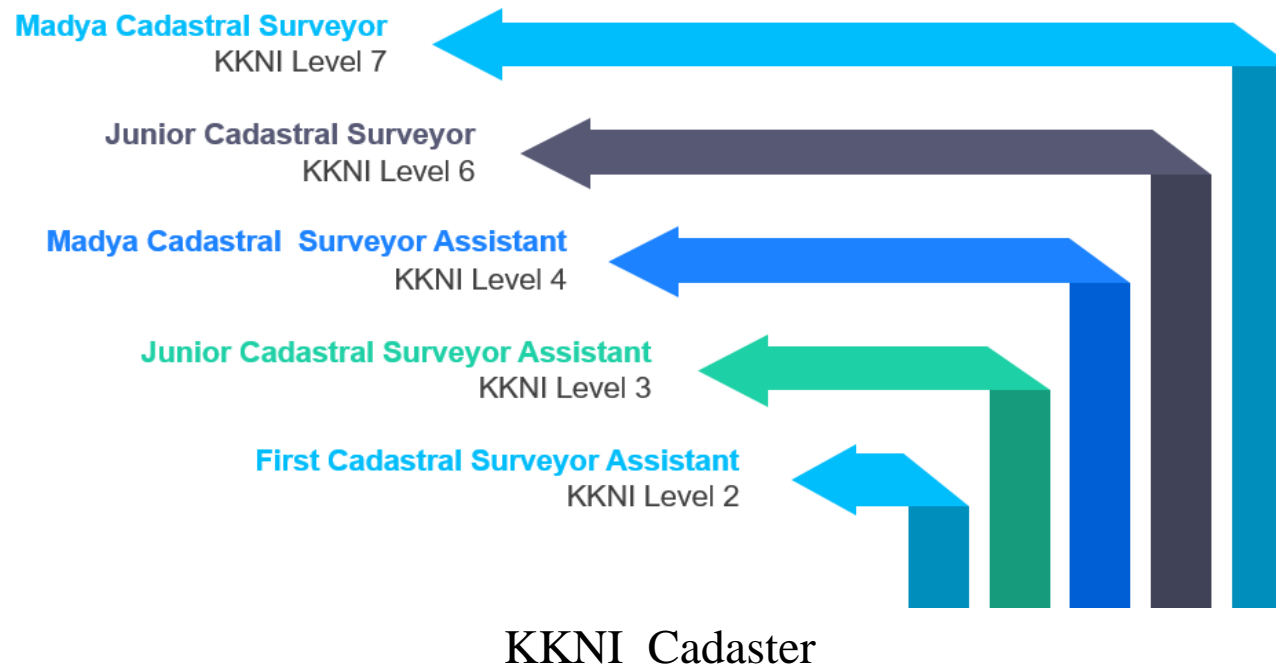


Unit competencies in SKKNI Cadaster

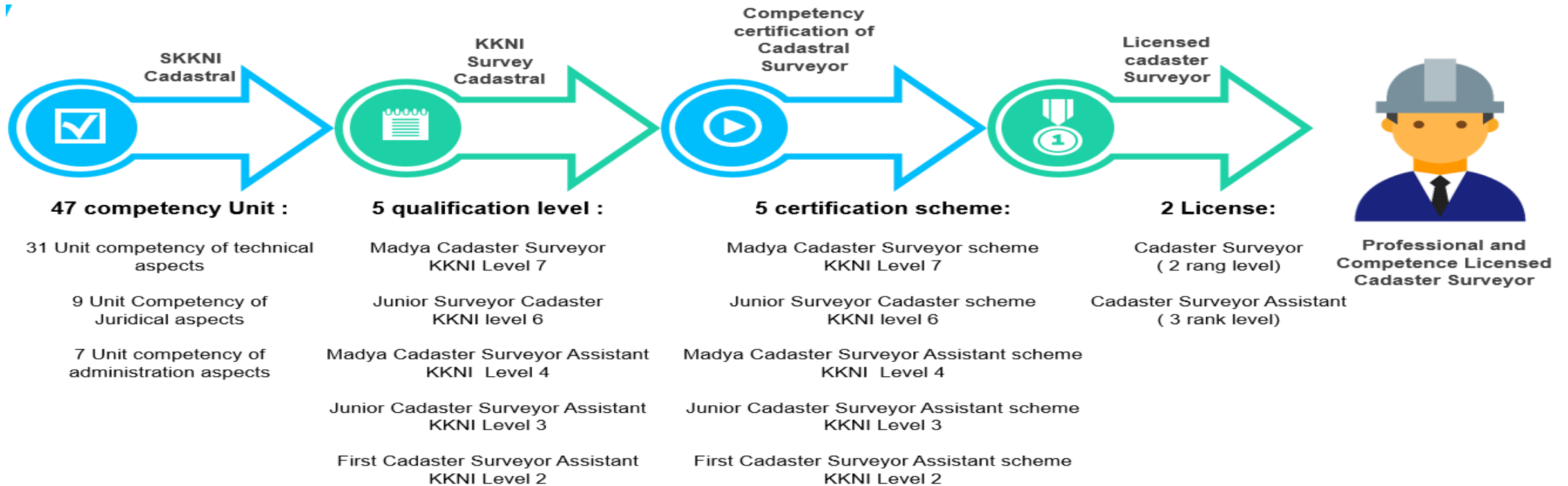


V. The competency standar requirement (cont....)

b. Indonesian National Qualification Framework (KKNI) cadaster



c. Milestone of professional and competence licensed cadastral surveyor



VI. Conclusion

- This paper suggested that improving competency standards, internal coaching by BPN (head office, regional land offices, and district land offices) and external coaching (professional associations and ethics council) will improve the competency standards of licensed cadaster surveyors.
- Important factors in improving competence and quality control are **technical, juridical and administrative**, all of which refer to Indonesian National Work Competency Standard (SKKNI Cadaster) and Indonesian National Qualification Framework (KKNi Cadaster).
- The BPN Human Resources Development Center (PPSDM) can take a role to improve the competency standards of the licensed cadaster surveyor by implementing e-learning based training. PPSDM can also be a center for competency testing, agrarian and spatial technical training, and other land administration training.