



On 29th of May 2006 it happens the disaster of overflowing and blast of hot mud inside which cover area of **621,9 ha, 11,76 km around and there are 12 villages were covered by hot mud.**

The disaster is an overflowing and blast of hot mud at district of Sidoarjo since May 29th, 2006 that has been suffusing the land for more than 621.9 ha and 11.76 km in perimeter. Centroid coordinate of the mud blast is at 112,71° E and 7,52° S inside the area of petroleum oil drilling which covering 5 villages at SubD Porong (Glagaharum, Renokenongo, Mindi, Siring, Jatirejo), 4 villages at SubD Tanggulangin (Ketapang, Kalitengah, Gempolsari, Kedungbendo) and 3 villages at SubD Jabon (Kedungcangkring, Pejarakan, Besuki).

The disaster of overflowing and blast of hot mud gave the negatif influence to the situation surrounding and also influenced land value over the land market reaction.











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- The factors that influence land value in this research is determined from literature review, which are: distance of parcel to CBD, distance to main road, distance to disaster location, distance to infrastructure relocation, and land use type.
- Determination of weight score of each factors and
- determination of land value score on land use criteria is using the AHP method.
- Determination of land parcel in all criteria of distance is using spatial analysis.
- Land value modeling using multiple regression method obtaining four land value formulation model, that will be selected the best one to predict land value of every parcel.
- To determine the land value for PBB, the land value prediction result is classified and use dissolve operation to
- form the LVZ man





















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Analysis of Advantage and Weakness of the LVZ research n LVZ existing		
	Advantage	Weakness
Land Value Zone classes by research analysis	More objective, because the determination each parcel of value based on the computer system such as spatial analysis, AHP method and regression analysys	Diference with common context/opinions, such as : the same object use in nearest neibour should be in the same land value
LVZ classes by Existing	Considering the common content then can reduce the taxatic conflicts	Tends to be subjective, LV determination is done manually and there is some generelisation.
Overcoming the weakness → need to do some re-evaluation of LV (Land value) for identifying source of errors which is not proper in common contexts		



CONCLUSION AND RECOMMENDATION

CONCLUSION :

- Land value determination for the forming of Land Value Zone for PBB at near disasterpotential area can be obtained by using the combination of spatial analysis, AHP, and multiple regression approach.
- LVZ obtained from this study for sub-district.Porong, Jabon and Tanggulangin within District of Sidoarjo area can be used as a comparison for current LVZ class of PBB.
- Land value classification resulted from regression model is more various than current land value class. It is because the land value class from regression model is calculated automatically from computerized system, different with current land value class that tends to generalized because it is made from manual concept.
- The proses and method of valuation and LVZ forming can be an alternative to determine the land value Zone for the Land and Building Tax office.
- Land value zone classification resulted from analysis is more objective, because the quantitative data obtained from spatial analysis and the qualitative data is processed by AHP technique.
- LVZ map from this study still have to reevaluate because the land value predicted still does not reflect to the real condition (the value is under assessment). It will be important to create fairness in taxation and prevent some conflicts in implementation of Land and Building Taxation.

CONCLUSION AND RECOMMENDATION

Recommendation :

- The process and methods studied can become a recommendation for Land and Building Tax office in analyzing the land value zone.
- In this study still there is a weakness in model. The model passed some tests, but in model evaluation still it is not fulfill the accuration level and homogeneity requirements (COV=24.92% and PRD=1.0432). This value result is predicted because the capability of model to explain the research condition is low (R² = 58.71%) which means there is some other variables not included in the analysis that also have significant effect to explain the NJOP(Sale Value of Tax object) value variation. Besides, data transaction from PPAT/public notary may give bias to the model equation.
- Based on this condition, fur further study can be suggested:
 - 1. PPAT/public notary data transaction should be check and confirmed first to reach a valid land value data.
 - 2. The independent variables should be added to gain better model.
- Spatial analysis for distance measurement from its centroid should be restudied and use other alternative to get more valid distance measurement.



