

## COMMUNITY PARTICIPATION FOR SUSTAINING INFRASTRUCTURES IN A COMMUNITY BASED SANITATION PROGRAM 'SANIMAS'

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### 1. Introduction

**SANIMAS** is a community based sanitation program for providing sanitation or domestic sewage infrastructures in Indonesia. It is based on the demand and situation of the community in which inhabitants are required to participate in all stages of the project. The purpose of SANIMAS is to improve, develop and maintain the community sanitation infrastructures. SANIMAS is the alternative choice of sanitation technology for local government. The project is promoted by the collaboration among local government, NGO, and community.

This paper show the outline of SANIMAS projects which have been done in Kediri city and important factors for good operation and maintenance by residents.

### 2. Outline of SANIMAS

Kediri City is located on East Jawa Province and has totally 241,130 in population<sup>1)</sup>. **Fig.1** shows four sub districts, Mrican, Balowerti, Dandangan, and Jamsaren, where SANIMAS projects have been done from 2005. The projects of the four sub districts cover 64, 80, 72 and 42 households, respectively. The expected sample number of respondents is totally about 125 households. The sample numbers of quastionaire at the each sub district are shown in **Fig.1**.

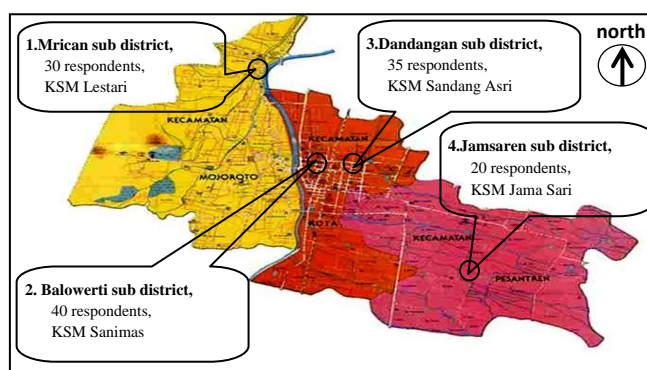
Additionally, interviews were done to some stakeholders, namely the heads of urban village, Non Governmental Organization (NGO) Borda, Community Based Organization (CBO) or KSM: *KSM Lestari* in Mrican sub district, *KSM Sanimas* in Balowerti sub-district, *KSM Sandang Asri* in Dandangan sub district, and *KSM Jama Sari* in Jamsaren sub district and, public work agency.

Community participations/involvements and their contents in planning, implemetation, monitoring/evaluation and operation/maintenance shall be important as shown in **Table 1**, considering the characteristics of SANIMAS. Their participation forms are providing idea, physical labor, money and construction material.

### 3. Survey and result

**Fig. 2** shows the number and percentage of respondents' participation into four stages of SANIMAS project: planning (1<sup>st</sup> stage), implementation (2<sup>nd</sup> stage), monitoring/evaluation (3<sup>rd</sup> stage), and operation/ maintenance (4<sup>th</sup> stage). The percentages in parenthesis are calculated to the respondents in each project. In all projects, the planning stage has the highest percentages of community's participation 62.5%-95% (average = 72.7%). At this stage, some activities such as socialization and training were performed to society, so that the most of the respondents participated.

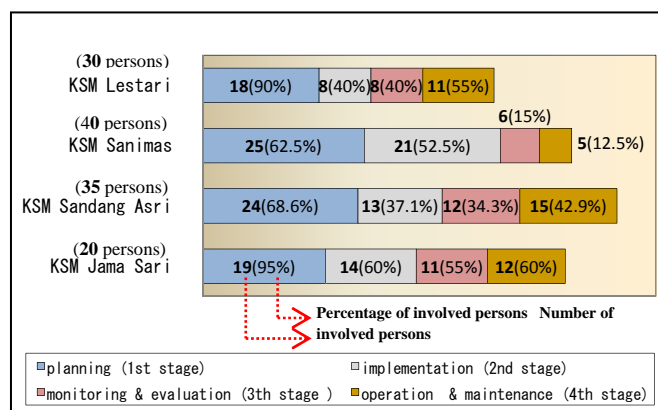
The implementation stage has percentages of 37.1%-60% (average = 47.4%). In this stage, various kinds of participation such as idea, physical labor,



**Fig. 1** Four research sub-districts in Kediri City

**Table 1** Parameter, variable, and indicator

Aspect	Parameter	Variables	Indicator
Community Participation for sustaining SANIMAS infra stucture	community involvement in the project	Planning stage of Program	Community involvement in the planning process (1st)
		Implementation stage of Program	Community involvement in the implementing program (2nd)
		Monitoring and evaluation stage	Community involvement in monitoring and evaluation (3rd)
		Maintainance and operation stage	Community involvement in the maintainance and operation (4th)
	Form of community participation	Kind of participation	Idea, labour, money, and construction material



**Fig.2.** Numbers of involved persons and their percentages to respondents in each stage of the project

money and construction material are provided by communities. And their expenditures are shown in **Table 3**.

Meanwhile, the operation and maintenance stage has percentages of 12.5%-60%. Their average is 42.6% and lower than ones of 1<sup>st</sup> and 2<sup>nd</sup> stages. Each user/household monthly pay CBO or KSM only 500 Indonesian Rupiah (IDR) based on Community Action Plan (CAP). It is used for operational & maintenance expenditure of the infrastructure. *KSM Lestari* has steady incomes and the incomes of *KSM Sandang Asri* fluctuate, while the incomes of *KSM Jama Sari* are very low. Some reasons are that some of them build their own latrine in their houses, the distance to the infrastructure is quite far, they use only on emergency purpose, and so on.

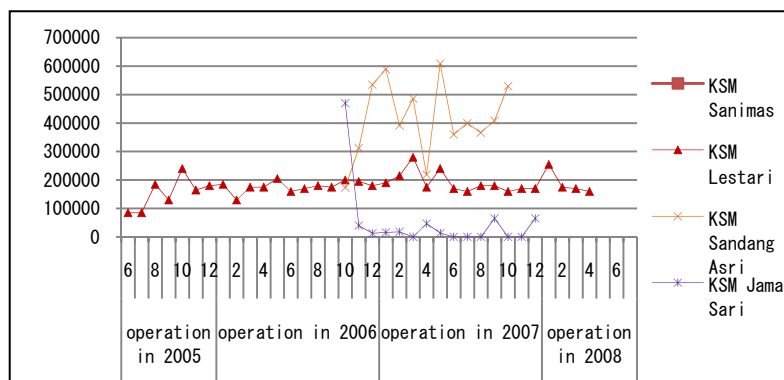
**Fig. 4** shows the financial income of CBO. The average incomes per month are shown in **Table 3**. The income of *KSM Sandang Asri* has the highest average income per month 413,676 IDR. *KSM Lestari* has 132,978 IDR and *KSM Jama Sari* only has 49,800 IDR.

The monitoring and evaluation has the lowest average percentage of community involvement 36%. Most people are passive and less intention to supervise the project. They may believe in their chief of CBO and local skilful labor to develop the project.

The operation and maintenance results of the four projects are almost good except for the lack of administration in *KSM Sanimas*. There may be clear influence of community participation on the results of performance of and maintenance of the infrastructure. It is required to analyze their relation.



**Fig.3 Stages of Community participation located at KSM Jama Sari in Jamsaren sub district**



**Fig.4 Financial incomes of CBO from fixed users (households) and temporary users**

**Table 3 Performance of community participation**

Name of CBO	Percentage of community participation in each step of the project (%)				Expenditure (Indonesia Rupiah/ IDR)		Average income per KSM/month (IDR)	Operation duration (year)	Performance Operation & maintenance result
	1st	2nd	3rd	4th	in-cash	in-kind			
KSM Sanimas	90	40	40	55	6,056,113	500,000	-	3	Good, lack of administration
KSM Lestari	62.5	52.5	15	12.5	2,019,721	5,423,522	132,978	3	good
KSM Sandang Asri	68.6	37.1	34.3	42.9	4,000,000	12,744,670	413,676	1	good
KSM Jama Sari	95	60	55	60	4,000,000	10,248,524	49,800	1	good

Note: 1st : planning stage ; 2nd : implementing stage ; 3rd : monitoring & evaluation stage ; 4th : operation & maintenance stage

#### 4. Summary

- 1) Many residents participated in all stages of SANIMAS projects in four sub districts of Kediri City.
- 2) Good performance and maintenance my result from the community participations except for *KSM Sanimas*.
- 3) It can not be seen that there is a relation between the expenditures by community residents and maintenance results. This relation should be analyzed in detail.

#### Reference

- 1) Kediri in figure 2007/2008, Statistical Board in Kediri.