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# Improvement of Population Data for Kuta Mbelin Village, STM Hulu District, Deliserdang Regency to Open SID Based Population Data

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#### ABSTRACT

The community service program conducted in the fostered village of LPPM USU, namely Kuta Mbelin Village, STM Hulu District, Deliserdang Regency, which already has a village information system (https://s.id/kutambelin) as a manifestation of a digital village, should convert the population data processed conventionally into population data that can be integrated with the village's needs. This includes the ability to monitor population growth, facilitate correspondence and archiving, obtain village population statistics, and more. To improve this data, the fostered village team is implementing an open-source Village Information System, commonly known as Open SID. The data processed by the village using MS Excel covers two hamlets out of the three in Kuta Mbelin village. Hamlet I has 261 residents and Hamlet II has 532 residents, while Hamlet III is still being processed by the village operator. This existing population data needs to be refined and integrated into the Open SID-based population data platform by first performing data cleaning to ensure it can be incorporated into the village information system. The data entry process is continuously carried out by the LPPM USU community service team and village operators, involving USU MBKM KKN students in the village.

Keyword: Population Data, Open SID, Village Information System

### 1 Introduction

Kuta Mbelin Village, located in STM Hulu District, Deliserdang Regency, North Sumatra, is one of the many villages in Indonesia that is still grappling with challenges in population data management. The manual recording system that has been used by the village government often causes various problems, ranging from data inaccuracy, duplicate data, to difficulties in accessing important information needed for planning and decision-making. In a broader context, this problem not only affects the efficiency of village administration, but also has an impact on the quality of public services and village development as a whole. In general, the population data is used for various purposes, including:

1. Public services including the issuance of driving licenses, business permits, taxpayer services, banking services, land certificate issuance services, insurance, public health insurance, and social security for workers.

- 2. Development planning, namely for national development planning, education planning, health planning, workforce planning, and poverty alleviation.
- 3. Budget allocation includes determining the General Allocation Fund (DAU) and calculating potential taxation.
- 4. Democracy development, namely the preparation of Population Aggregate Data per sub-district (DAK2) and the preparation of Potential Voter Population Data for the Election (DP4).
- 5. Law enforcement and crime prevention, among others, to facilitate the tracking of criminals, prevent human trafficking and prevent the sending of illegal workers. [1], [2]

Specifically, UU No. 24 of 2013, article 1 point 9 states that population data is individual data and/or structured aggregate data as a result of population registration and civil registration activities. In UU No. 24 of 2013 concerning Population Administration, data is grouped into:

- 1. Personal Data is certain individual data that is stored, maintained, and maintained as true and its confidentiality is protected (article 1 point 22).
- 2. Database is a collection of various types of population data that are stored systematically, structured and interconnected using software, hardware and data communication networks (article 1 point 29 of PP No. 37 of 2007).
- 3. Population Data is individual data or aggregate data that is structured as a result of population registration and civil registration activities. [3],[4]

There are 3 types of population data utilization, namely:

- a. aggregate data, including individual data sets in the form of quantitative data and qualitative data,
- b. data matching/matching,
- c. population data access by name by address by NIK. [5]

OpenSID (Open Source Village Information System) is an information system developed as an open source, which is specifically designed to help villages manage population data and village administration more efficiently and in an integrated manner [6].

The concept of this free application/OpenSID was initially initiated in 2006 by the Lumbung Komunitas Combine Resource Institution, a civil society organization dedicated to developing alternative community-based information and communication technology; which is openly developed together by the SID care community. Technically, the application flow of this software includes the following stages:

- 1. Forming a working team with the village government
- 2. Discussing what databases are needed for residents
- 3. Collecting population data from residents from Family Cards (KK)
- 4. Registering the SID project and its software application
- 5. Installing the SID software application on the village server computer
- 6. Entering population data into SID
- 7. Modifying settings according to village needs
- 8. Sharing information about the village so that it can be accessed by residents [5]

The issue of inaccurate population data is a critical problem that can hinder various development programs at the village level. Invalid data can lead to misallocated funds, unequal distribution of aid, and development planning that does not align with the community's needs. Therefore, efforts to improve the population data management system in Kuta Mbelin Village are urgent and essential. One solution to address this problem is to implement a technology-based village information system. OpenSID is one platform that can be used for this purpose. By leveraging information technology, OpenSID can provide various conveniences in recording, managing, and updating population data, thereby enhancing the accuracy and accessibility of the data.

# 2 Method

In implementing this community service program, a participatory approach will be used to ensure active involvement from various parties, including the village government, the community, and other stakeholders. Through surveys, interviews, and group discussions, the needs and challenges faced in population data management will be identified. Based on the results of this needs analysis, training and workshops will be conducted to provide understanding and skills to village officials and the community regarding the use of OpenSID. The system implementation will be carried out in stages, with periodic monitoring and evaluation

to ensure the system operates as expected and delivers maximum benefits. The implementation of the community service activities involves several stages:

- 1. Socialization and coordination of the community service program for the fostered village by LPPM USU with the Head of Kuta Mbelin Village and the Head of STM Hulu District, Deliserdang Regency as partners.
- 2. Preparation of activity proposals to be carried out in Kuta Mbelin Village, STM Hulu District, Deliserdang Regency, and preparation of partner community service letters.
- 3. Preparation of the population data server.
- 4. Creation of a domain for OpenSID Kuta Mbelin Village and setting up web hosting for Kuta Mbelin Village.
- 5. Structuring the database based on tables used in OpenSID through data export and import.

### **3** Result and Discusssion

Population data management using MS Excel by village operators allows for easy collection, processing, and analysis of population data according to the village's needs. With the advancement of information technology, a new idea has emerged about an integrated and precise population database based on Open SID. The village head must immediately update this population data, but assistance from academicians who understand how to operate the Open SID-based population data system is needed. The LPPM USU Foster Village Team placed in Kuta Mbelin initiated assistance in using the Open SID-based population data system for village officials, ensuring they understand and can operate the system. The existing structure of the population data features in Kuta Mbelin Village is as follows:

Nama <u>Lengkap</u>	
No Kartu Keluarga	
NIK	
Hub. Keluarga	
Jenis Kelamin	
Tempat Lahir	
Umur	
Agama	
Pendidikan <u>Terakhir</u>	
Pekerjaan	;
Status Perkawinan	1
Orang Tua (Ayah)	;
Orang Tua (Ibu)	
Dusun	;
Suku	1
Keterangan	

Figure 1. Existing features in Kuta Mbelin Village's population data.

			DA	TA PE	ND	UDUI	K DE	SA	K	UTAM	IBELIN D	SN I					
N-	Nama Lengkap 🔍 👻	No Kartu Keluai 👻	NIK 👻	Hub.Keluar 👻	Kelc 👻	Tempat La 👻	Tang' Le	Un 🖵	Ag 👻	Pendidika Terakhir	Pekerjaan 💌	Status Perkawii 👻	Orang Tua (Aya 💌	Orang Tua (Ibu) 👻	Dusu 👻	Suku 👻	Ketanj 👻
13	Aulia Anaaraavini	1207201409091027	1207204607170001	Anak Kandung	Р	Deli Tua	06-Juli -2017	6	Islam	Tidak Sekolah	Belum / Tidak Bekerja	Belum Kawin	Aprizal	Dahliana	DUSUN I	Jawa	Baik
14	Arwan	1207200601210002	1207051609680005	Kepala Keluarga	L	Bekala	16-Sep-1968	55	Kristen	SLTP	TNI	Kawin Tercatat	Nglanken Surbakti	Bujur Br Ginting	DUSUN I	Jawa	Baik
15	Litna Br Perangin-Angin	1207200601210002	1207054105830004	Istri	Р	Tiga Juhar	01-Mei-1983	39	Kristen	SLTA	Mengurus Rumah Tangga	Kawin Tercatat	Keleng Perangin -Angin	Riah Br Ginting	DUSUN I	Karo	Baik
16	Srimulyani Br surbakti	1207200601210002	1207054312060003	Anak Kandung	P	Medan	05-Des-2006	16	Kristen	Belum Tamat SD	Pelajar	Belum Kawin	Arwan	Litna Br Perangin-Angin	DUSUN I	Karo	Baik
17	Wahyu Tuah Bastanta Surbakti	1207200601210002	1207051509090002	Anak Kanduna	<i>L</i>	Medan	5-Sep-2008	15	Kristen	Belum Tamat SD	Pelajar	Belum Kawin	Arwan	Litna Br Perangin-Angin	DUSUN I	Karo	Baik
18	Andri anus Ginting	1207200709150002	1207200204030001	Kepala Keluarga	L	Talun Kenas	2-Apr-1993	31	Islam	SLTP	Petani / Pekebun	Kawin	Ingan malem Ginting	Norma Br Tarigan	DUSUN I	Karo	Baik
19	Elisa Br Barus	1207200709150002	1207066810970001	lstri	Р	Namo Mbelin	18- Okt-1997	25	Islam	Tamat SD	Mengurus Rumah Tangga	Kawin	Japet Barus	Sumarni	DUSUN I	Karo	Baik
20	Vernanda Ginting	1207200709150002	1207202805160001	Anak Kandung	L	Namo Rambe	28-Juni-2015	7	Islam	Tidak Sekolah	Belum / Tidak Bekerja	Belum Kawin	Andri Anus Ginting	Elisa Br Barus	DUSUN I	Karo	Baik
21	Agus Wahyudiy	1207200211170001	1207200608960001	Kepala Keluarga	L	Ujung Suka	06-Agust-1996	26	Islam	SLTP	Petani / Pekebun	Kawin	Ramlan	Suarni	DUSUN I	Jawa	Baik
22	Elina Fitrah	1207200211170001	1207096503970001	lstri	Р	Greahan	25-Mar-1997	27	Islam	SLTP	Mengurus Rumah Tangga	Kawin	Wagiran	Rohani	DUSUN I	Jawa	Baik
23	MHD Rizky Pratama	1207200211170001	1207200104180001	Anak Kandung	L.	Ranggit- Git	1-Apr-2018	6	Islam	Tidak Sekolah	Belum / Tidak Bekerja	Belum Kawin	Agus Wahyudiy	Elina Fitrah	DUSUN I	Jawa	Baik
24	Arisahputra	1207200107220002	1207203001000001	Kepala Keluarga	L	Ujung Suka	31-Jan-2000	24	Islam	SLTP	Petani/Pekebun	Kawin Tercatat	Ramlan	Suarni	DUSUN I	Jawa	Baik
25	Delia Utari	1207200107220002	1218024308020003	Istri	Р	Tanah Merah	03-Agust-2002	21	Islam	SLTP	Mengurus Rumah Tangga	Kawin Tercatat	Salman	Dian	DUSUN I	Jawa	Baik
26	Andi Harmaja	1207202107220001	1207201404970001	Kepala Keluarga	L	Aceh	14-Apr-1997	27	Islam	SLTP	Petani/Pekebun	Kawin Tercatat	Zaharuddin	Hari Ayati	DUSUN I	Jawa	Baik
27	Rina	1207202107220001	1207206706990001	lstri	Р	Ranggit- Git	27-Jun-1999	25	islam	Tamat SD	Mengurus Rumah Tangga	Kawin Tercatat	Penno	Idawati	DUSUN I	Jawa	Baik
28	Agus Darmawan Ginting	1207200305210002	1207200707970001	Kepala Keluarga	L	Simpang Deleng	07-Agust-1997	25	Islam	SLTA	Karyawan Swasta	Kawin Tercatat	Muhamat Jawi Ginting	Rukiati	DUSUN I	Karo	Baik
29	Emma Amanda Yani Purba	1207200305210002	1207076911990001	Istri	P	Biru-Biru	28-Nov-1997	26	Islam	SLTA	Mengurus Rumah Tangga	Kawin Tercatat	Andan Purba	Haribrinarty, S.Pd,M.Si	DUSUN I	Simalungun	Baik
30	Muhammad Alzam Muzakki Ginti	1207200305210002	1207202412210001	Anak Kandung	L	Deli Tua	24-Des-2021	1	Islam	Tidak Sekolah	Belum / Tidak Bekerja	Belum Kawin	Agus Darmawan Gintin	Enna Amanda Yani Purb	DUSUN I	Karo	Baik
31	Asrizal Sembirina	1207201201210002	1207200511950001	Kenala Keluaraa	L	Kuta Mhelin	5-Nov-1995	28	Kristen	SLTA	Petani / Pekehun	Kawin Blm Tercotat	Krista sembirina	Malem Paoi Rr Torioan	DUSUN I	Kara	Baik

Figure 2. Current population data table in Kuta Mbelin Village.

With the available population data, village officials face difficulties in processing and analyzing data for educational, health, planning, and village development requests, among other needs. Thus, migrating to the integrated and precise Open SID-based population data system is necessary. This can be done by accessing the official website of Kuta Mbelin Village at https://s.id/kutambelin with the following display:



Figure 3. Kuta Mbelin Village website display.

Click "admin login" to go to the village administration web page with the following display:

👻 🧕 Sistem Informasi Desa Kuta Mb	× 👰 Statistik Bantuan Penduduk - W 🗙	S (78) WhatsApp	+	- o ×
$\leftrightarrow$ $\rightarrow$ C $\stackrel{\bullet}{=}$ kutambelin.co	om/v1/index.php/hom_sid			∞ ⊠ ୧ ☆ ඞ 🛭 🕄
OpenSID	=		<b></b>	🖴 💬 🖂 👶 Administrator 🔗
Desa Kuta Mbelin Kecamatan STM Hulu Kabupaten Deli Serdang	Tentang OpenSID			# Home > Tentang OpenSID
Pencarian Q	Pembaruan Tersedia! OpenSiD 2207.0.0 telah tersedia. Periksa berisi perbaikan termasuk peningkatan keam     Cotatan Ras	catatan tilis untuk melihat daftar perubahar anan data sejak versi yang anda gunakan sa	di versi ini. Sangat dianjurkan untuk melakuka at ini <mark>v2308.0:0</mark> . Petunjuk melakukan pembarua	n pembaruan ke versi terkini, karena setiap rilis an dapat dilihat di <u>sini</u> .
# Home				
🙆 Info Desa 🛛 <	3	28	9	0
Kependudukan <	Wilayah Desa	Penduduk	Keluarga	Surat Tercetak
🛃 Statistik <	Lihat Detail O	Lihat Detail 🛇	Lihat Detail 🔿	Lihat Detail 🛇
🔁 Kehadiran 🛛 <				
😻 Kesehatan 🛛 <	0	0	0	0
🛢 Layanan Surat 🛛 <	Kelompok	Rumah Tangga	Bantuan	Verifikasi Layanan Mandiri
Sekretariat <	Lihat Detail O	Lihat Detail 🧿	Lihat Detail O	Lihat Detail O
🖪 Buku Administrasi Desa 🛛 🔇				
د Keuangan ،				
🖌 Analisis <	Aplikasi OpenSID, dikembangkan oleh Komu	nitas OpenSID.		Versi 2308.0.0
<b>e</b>	🛛 🔍 Search	- 🤃 🚬 🖸 🖬	🖻 🔮 📹 🖷	∧ 📀 🗇 d× 🖢 1:28 PM 🌲 🧖

Figure 4. Kuta Mbelin Village administrator web display.

Click "population" to go to the population data section with the following display:

← → G =• kutambel	lin.com/v1/index.php/penduduk 🔤 🖈 🖸 🛃 🔕
OpenSID	E 🏛 🖨 💬 🔀 👶
Kependudukan	Data Penduduk 🔮 Home - Data Penduduk
Penduduk	
嶜 Keluarga	🕂 Tambeh Penduduk 🝵 Hepus Data Terpilih 🕐 Path Alexi Lamnya 🔿 Impor / Ekspor 🖉 Bersitikan
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🔥 Kelompok	
Data Suplemen	NO AKSI FOTO NIK © TAGID CARD NAMA © NO. KK © NAMA AYAH NAMA IBU NO. RUMAH TANGGA ALAMAT DUSUN KW KT PENDIDIKAN
Calon Pemilih	Data Tidak Tersedia
🗹 Statistik	
2 Kehadiran	
Kesehatan	
🕈 Layanan Surat	
Sekretariat	
🖞 Buku Administrasi Desa	
垫 Keuangan	

Figure 5. Population Data display using Open SID.

Since no population data entries have been made in the Open SID-based population data system, the MS Excel format from Open SID must be used. Click the import/export button, and Open SID will provide the data entry format in MS Excel. Then, copy the data from the previous population data and paste it into the Open SID-based population data, adjusting the features accordingly. The display for data adjustment is as follows:

1 alamat	dusun	rw	rt	nama		no_kk		nik		sex	tempatlahir	tanggallahir	agama_id	d pendidikan_	_kk_id pendidika	n_sedang_id	pekerjaan_id	status_kawin	kk_level		warganeg	ara_id
2 Kuta Mbel	in 1	0	0	Ali Usman Bintang		12072005	10180001	11750101058	90001	LAKI-LAKI	Launjuhar	5-Jan-198	9 ISLAM	SLTA/ SED	ERAJ/ TIDAK SEI	DANG SEKOLAH	WIRASWAST	A KAWIN	KEPALA KELUA	RGA	WNI	
3 Kuta Mbel	in 1	0	0	Sela Indriyani		12072005.	10180001	12072049010	40001	PEREMPUAN	Kuta Mbelin	1-Sep-200	24 ISLAM	BELUM TAN	IAT SE TIDAK SEI	DANG SEKOLAH	MENGURUS	RIKAWIN	ISTRI		WNI	
4 Kuta Mbel	in 1	0	0	Kosong		12072005.	10180001	12072006023	90001	LAKI-LAKI	Deli Tua	2-Jun-201	9 ISLAM	BELUM TAN	IAT SE SEDANG	TK/KELOMPOK E	ER BELUMTIDA	EBELUM KAWIN	ANAK		WNI	
5 Kuta Mbel	in 1	0	0	Bilqis Anastasya Bintang		12072005	10180001	12072062112	20001	PEREMPUAN	Deli Tua	22-Nov-202	2 ISLAM	TIDAK / BEL	UM SIBELUM M	ASUK TK/KELON	POIBELUMTIDA	EBELUM KAWIN	ANAK		WNI	
6 Kuta Mbel	in 1	6	0	Amat		12072014	09090959	12072017043	20001	LAKI-LAKI	Salang Buah	17-Mar-193	72 ISLAM	TAMAT SD /	SEDE TIDAK SEI	DANG SEKOLAH	PETANI/PEK	BIKAWIN	KEPALA KELUA	RGA	WNI	
7 Kuta Mbel	in 1	0	0	Supartik		12072014	09090959	12072061023	60001	PEREMPUAN	Tanjung Jati	21-Feb-193	75 ISLAM	SLTP/SEDE	RAJA' TIDAK SEI	DANG SEKOLAH	PETANI/PEK	BKAWIN	ISTRI		WNI	
8 Kuta Mbel	in 1	0	0	Dedy shaputra		12072014	09090959	12072019059	70001	LAKI-LAKI	Ujung Suka	19- Mei-199	77 ISLAM	TAMAT SD /	SEDE TIDAK SEI	DANG SEKOLAH	BELUMTIDA	EBELUM KAWIN	ANAK		WNI	
9 Kuta Mbel	in 1	6	0	Ega Putri		12072014	09090959	12072066030	30001	PEREMPUAN	Simpang Dele	23-Mar-200	23 ISLAM	BELUM TAN	IAT SE SEDANG	D-1/SEDERAJAT	BELUMTIDA	EBELUM KAWIN	ANAK		WNI	
10 Kuta Mbel	in 1	0	0	Aprizal		12072014	09091027	12072017048	20001	LAKI-LAKI	Medan	17-Apr-198	32 ISLAM	TAMAT SD /	SEDE TIDAK SEI	DANG SEKOLAH	BURUH HAR	ALKAWIN	KEPALA KELUA	RGA	WNI	
11 Kuta Mbel	in 1	0	0	Dahliana		12072014	09091027	12072066049	10001	PEREMPUAN	Brandan	26-Apr-199	1 ISLAM	TAMAT SD /	SEDE TIDAK SEI	DANG SEKOLAH	MENGURUS	RIKAWIN	ISTRI		WNI	
12 Kuta Mbel	in 1	6	0	Dodi Aldiansyah		12072014	09091027	12072005010	50002	LAKI-LAKI	Medan	5-Jan-200	5 ISLAM	BELUM TAN	AT SETIDAK SEI	DANG SEKOLAH	BELUMTIDA	EBELUM KAWIN	ANAK		WNI	
ayoh_aik a	ano_oysh	ibi_ni	k i	กระกะ_ibu	golosgan	da akta_lahir	dokener_pa:	tanggal_akhir_pas	dokumen_kitas	skta_perkowi	van tanggalperka	wakta_perceraian	tanggalpercer cr	acat_id cars	kb_id hamil	ktp_cl	status_rekam	alamat_ockarang_stal	na_dasar seku	tog_id_cord	id_asurandi	no_astrato
ayoh_aik a	ins_sysh Tapii Bintang	ibi_til	k .	nini_ibi Filda	qolosqun_ 0	da akta_lahir	dokener_pa:	tunggal_akhir_pas	dokumen_kitas	skts_perkowi	ian tanggalporka	w akta_perceraian (	tanggalpercer ci	<mark>acat_id can</mark> 7	<mark>a_kb_id hamil</mark> 3	ktp_d 1 2	status_rekan 4	alamat_sekarang_stal Kuta Mbelin	ns_dusur suku 1 Janra	tog_id_card	id_asurandi	no_astrato
a Naja J	<mark>ins_oph</mark> Tapii Bintang Nuhammad Su	ibı_nil 	•	nini_ibi Rida Suhami	qolosgun_ 0 0	_ds_okto_lohir	dokener_par	tanggaLakhir_pas	dokumen_kitas	skta_perkowi	ion tanggalporka	w alita_perceraian (	tanggalparcar et	acat_id can 7 7	<mark>s_kb_id hamil</mark> 3 3	ktp_d 1 2 1 2	status_rekam 4 4	alama <u>t sekarang</u> stal Kuta Mbelin Kuta Mbelin	ns_dusur suku 1 Jawa 1 Jawa	tog_id_cord	id_asuransi	no_astrato
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Figure 6. Population data table in Open SID format (MS Excel export data format).

Once the population data is correctly filled out, it can be imported into the population data system by clicking import/export and selecting import data, with the import process displayed as follows:

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Figure 7. Import file display for population data in MS Excel format.

Then, import the population data by browsing to select the file datapendudukcoba.xlsx in the folder where the file is stored. With a trial of 28 cleaned data entries matching the datasheet export from Open SID, the Data Penduduk display on the Kuta Mbelin Village web administrator appears as follows, which can be updated by the Kuta Mbelin web administrator:

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Figure 8. Population Data display on Kuta Mbelin Village web administrator.

The Kuta Mbelin Village website's population menu will display statistics on the population, such as Resident Status, Social Class, Population Assistance Recipients, and Family Assistance Recipients. An example display of the Population menu with resident status statistics appears as follows. More statistics can be displayed according to the population data in the Open SID system database:



Figure 9. Display of processed population data statistics through the Open SID system.

## 4 Conclusion

The OpenSID system can help improve the accuracy of population data. With more systematic and digital recording, errors that commonly occur in manual systems can be minimized. OpenSID enables easier and faster data access for village officials and the community. Information needed can be obtained quickly without going through convoluted processes. Additionally, transparency in data management will also increase. With an open and integrated system, the community can more easily monitor and access population information, thereby increasing trust in the village government.

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