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The Role of Social Capital with Local Wisdom in Household Food Security in Bali Province

ABSTRAK

Provinsi Bali memiliki ketahanan pangan yang sangat baik namun wilayah yang memiliki ketahanan pangan baik, belum tentu seluruh individu di wilayah tersebut memiliki akses yang merata terhadap pangan. Tantangan muncul dari sisi permintaan maupun penawaran. Tujuan penelitian ini adalah untuk mengidentifikasi hubungan modal sosial terhadap ketahanan pangan rumah tangga di Provinsi Bali dan menguji bentuk-bentuk modal sosial dengan kearifan lokal yang berpengaruh terhadap ketahanan pangan rumah tangga di Provinsi Bali. Penelitian menggunakan data primer dimana pengumpulan data dilakukan dengan metode purposive nonrandom sampling. Tujuan penelitian dicapai dengan menggunakan analisis regresi linear berganda. Variabel analisis menggunakan modal sosial sebagai variabel interest dengan mempertimbangkan variabel kontrol berupa karakteristik individu dan karakteristik rumah tangga. Hasil penelitian menunjukkan bahwa modal sosial berpengaruh terhadap ketahanan pangan sebagai indikator kesejahteraan rumah tangga. Teridentifikasinya modal sosial dengan kearifan lokal rumah tangga di Provinsi Bali menjadi referensi alternatif pendekatan dalam mencapai ketahanan pangan di Provinsi Bali.

Kata kunci: ketahanan pangan, kearifan lokal, modal sosial

Klasifikasi JEL: A13, D10, I31

ABSTRACT

Despite the fact that Bali Province has an excellent level of food security, it does not necessarily mean that all individuals in the region have equal accesses to food. Considerable challenges may arise from both supply and demand sides. The objectives of this research are to identify the effect of social capital on household food security in Bali Province and to examine the various forms of social capital with local wisdom that affect household food security in Bali Province. This research uses primary data collected under the purposive nonrandom sampling method. The research objectives were achieved by employing multiple linear regression analyses. The analysis variable is social capital as variable of interest while also taking into consideration several control variables in forms of individual characteristics and household characteristics. The results show that social capital has an effect on food security as an indicator of household welfare. The identification of social capital with local wisdom of households in Bali Province serves as a reference for alternative approaches in achieving food security in Bali Province.

Keywords: food security, local wisdom, social capital

JEL Classification: C68, F43, L52

INTRODUCTION

In Law Number 18 Year 2012 regarding Food, food security is defined as "the condition of food fulfillment for the state until individuals, which is reflected by the Bali Province, as one of the many diverse, nutritious, equitable access to sufficient, safe and nutritious the 18/2012, the measure of food security food consists of three dimensions, namely food seminars,

availability, food affordability/access, and food utilization. Food security is measured at various levels from national, regional, household, until individual levels.

availability of food that is sufficient, both provinces in Indonesia, faces various in terms of quantity and quality, safe, challenges related to the condition of its and food security. Based on food security affordable as well as not contrary to any indicators, the current condition of food the religions, beliefs, and the culture of the security in Bali is very good. One of such community, in order to be able to live a indicators is the rate of food inflation healthy, active and productive life in a (volatile food), which in September 2019 sustainable manner." FAO defines food was measured at 1.12 percent (yoy) and security as "a state where all people, at all significantly lower than the total inflation times, have physical, social and economic of 2.54 percent (yoy) (BPS, 2020). However, of condition Bali's economic food that meets their needs for an active development in the future indicates that and healthy life." It is also stated that food there are several challenges that need to be security consists of four dimensions, anticipated early on. The food security namely sufficient availability (availability), challenges in Bali Province arise from both access to food (access), proper food sides of the equation. First, they arise from utilization (utilization), and stability in the demand side due to the increasing food stock and price (stability) (Simon, demand as a consequence of the increase 2012). In Indonesia, based on the concept in population, the increase of the intensity of food security as defined in Law of activities that require additional mass demand such as conferences, ceremonies, holiday

tourism areas. Second, the challenges from of view of the Balinese people. the supply side are caused by the decline in agricultural land which has been altered into residential areas, the decline in the number of farmers who serve as the main actors in the agriculture sector, and the suboptimal implementation of agricultural technology.

Food security is a vital condition due to its characteristics related to These indicators have several daily lives of the Balinese people. identification of social capital with local level of household welfare. Education is

celebrations, and the increase in the wisdom is needed. In this research, social number of tourist visits, especially for capital is seen from the local wisdom point

Social capital with Balinese local wisdom is a form of social capital that is highly relevant to community life because it is in accordance with the lifestyle of the Balinese people. Based on this, problems that will be addressed in this research are first. how individual and household direct relationship with the survival of the characteristics influence household food community. Various studies have proven security. Second, how social capital with that food security is not only influenced by local wisdom influences household food activities in the security in Bali Province. Social capital as a agriculture sector, but also influenced by factor that affects food security will be other factors, such as by socio-economic more compatible with the characteristics of factors and even by cultural factors. One of the Balinese people. Thus, any efforts the social factors that is closely related to aimed at achieving a stable and reliable such culture is the social capital variable. food security will be much easier to obtain Similar researches in the past measured and much more likely to occur since social social capital with relatively general capital with local wisdom is a unique form indicators such as networking, trust and of capital that is already instilled to the

weaknesses since they are not necessarily Kasimin (2015) found that household food compatible with the characteristics of the security was influenced by income level, local community. For this reason, an the number of household members and the

another factor that also has a significant of social capital with local wisdom on role in household food (Damayanti & Khoirudin, 2016). Suandi Primary data analysis is supported by the (2012), Endarwati and Wahyuni (2014), analysis of secondary data. The sample and Utama and Suprapti (2020) provided was selected using the stratified accidental evidences that social capital also has a sampling method where the sampling strong influence on household food order was stratified at the district level. security. The forms of social capital used in The total number of sample is 385 these researches include trust, networks, households. The research location is Bali and social norms. All of which fall under Province and the research object is the general view of social capital. No one households in Bali Province. is measured using an approach that proportion, to achieve an equitable and sustainable of household food expenditure. food security.

RESEARCH METHODOLOGY

namely primary and secondary Primary data were obtained

security household food security in Bali Province.

has yet to identify the influence of social The examination of the effect of social capital under the local wisdom approach. capital with local wisdom on household In this research, the influence or role of food security in Bali Province uses food social capital is emphasized on the local security as the dependent variable. The wisdom point of view where social capital dependent variable is expressed as a the i.e. proportion of measures the daily life habits of Balinese household food expenditure relative to the people so that food security performances total household expenditure. The use of can be maintained and improved in order this variable enables us to see the pattern variable of interest is a social capital variable that identifies several forms of This research uses two types of data, social capital with local wisdom. The data. forms of social capital used in this research from are sekeha, mecingkreman, and households in Bali Province. Primary data Control variables in this research are is the main data used to analyze the effect characteristics that affect food security.

HH

Broadly, these variables are grouped into Individual = individual characteristics two main categories, namely: consisting of the age of the

- 1. Individual characteristics consisting of:
 - a) Age of the head of the household
 - b) The last education completed by the head of the household
 - c) Gender of the head of the household
- 2. Household characteristicsonsisting of:
 - a) Number of household members
 - b) Location of residence
 - c) Household assets
 - d) Total household income

The analysis of the role of social capital in affecting household food expenditure patterns was done using a multiple linear regression method. The estimation model used is as follows:

Food = β_0 + ϕ_i social capital + individual_i η_i + $HH_i\delta_i$ + ϵ_i

Food = the proportion of household food expenditure relative to total household expenditure

Social capital = consists of 3 forms of social capital, namely sekeha, mecingkreman, and subak.

- individual characteristics consisting of the age of the head of the household, the education of the head of the household, and the gender of the head of the household.
- = total household income, number of household members, location of residence, and household assets.

RESULTS AND DISCUSSION

The general description of the research samples is showed in table 1. The dependent variable is food security which identified using the food access approach. This variable was calculated from the proportion of household food expenditure relative to total household expenditure during the most recent one month. This proportion of food expenditure reflects the structure of household expenditure during one month. The average proportion of household expenditure relative to total household expenditure in one month is 44 percent. This indicates that the average household

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expenditure on food is not very high. The household members is six persons. The determinants of food security in this average total monthly income earned by research are identified using individual households is IDR 4.6 million. The characteristics, household characteristics household assets is measured from the and several forms of social capital based ownership of several forms of assets, on Balinese local wisdom.

equivalents. However, there are household land.

heads who have higher education levels. The household characteristics consist of grouped into three forms. First is sekeha. location of residence, ownership of This variable is measured by the amount household assets, number of household paid by a household as a contribution to members and total household income. The the sekeha group where it will be pooled location of residence is divided based on and redistributed to other sekeha members whether the household is located in urban as a low interest bearing loans. The or rural areas.

in urban areas while the rest reside in rural month. The second social capital form is areas. The burden of a household can be the participation status of households in approximated by the number of household the members. The

namely the status of having alternative The average age of the head of households sources of income other than income from is 45 years with the youngest being 21 land, ownership of savings and ownership years old and the oldest being 83 years old. of jewelries. The status of owning such The majority of household heads are male. assets serve as a form of backup income Based on the level of education completed, sources for the household. More than half the average level of education of the of the respondent's households own household head is 9 years, or generally jewelries while not owning any savings equal to junior high school level or its and other sources of income other than

The social capital based on local wisdom is average amount spent by households for More than half of the households is located *sekeha* activities is IDR 400 thousand per mecingkreman activity. The average number of mecingkreman activity is a pattern of households participating in *mecingkreman* third determinant groups, is robust. system maintains a balance, i.e. the needs the the respondent's households are members expenditure agriculture.

communal living aimed to develop the security. First, the determinant group economy in order to ease the overall comprising individual and household burden of the community, which has characteristics. Second, the determinant grown and developed, with a loyal and group comprising forms of social capital honest spirit, in the traditions of the with local wisdom and the third, the Balinese people. Every month, community determinant group which comprise all members, known as krama, spend money combined determinants of food security. as contributions, according to a paruman These were also done simultaneously in (meeting) decree, to be pooled then rolled order to examine whether the influence of out as low-interest loans. The number of social capital, especially in the second and

activities are less than half of the total In table 2 (column 2), it can be seen that respondents. The last form of social capital individual and household characteristics is participation of a household member as affect household food security. The age of a *subak* member. The existence of the *subak* the household head has a very significant system in Bali is deeply related to the effect on food security. This means that as religious values in the region. The subak the age of the household head increases, proportion of household of the community to produce food on one expenditure also increases. This indicates hand and the unwillingness to destroy the that older age requires greater calorie nature on the other hand. Less than half of intake so that the proportion of food also increases. Another of subak. Subak membership also indicates individual characteristic that influences that the economic activity being carried household food security is the education of out is in the primary sector, namely the household head. The education of the household head has a positive effect on The analysis of the effect of social capital food security. In other words, the higher on food security is divided into 3 groups the education of the household head, the according to the determinants of food higher the proportion of household food

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The increase in expenditure. education tend to be more exposed to that own assets in form of savings. food quality.

number of household members has a household significant positive effect on number of greater the inevitably increase.

food This is reasonable because having other expenditure can be traced to two causes: sources of income means that households first, the increase in food quantity and have access to additional income that can second the increase in food quality. Higher be used to increase the quantity and education also implies better level of quality of food they consume. Likewise, knowledge so that those with higher the same case also applies to households

information regarding the importance of The third column of the table shows the influence of social capital with local Household characteristics that affect food wisdom on food security. The first form of security are the number of household social capital is sekeha. Sekeha shows a members and asset ownership status. The positive influence on the proportion of food expenditure. The the mechanism behind this is that proportion of food expenditure. The contributions paid will be returned to the household sekeha members in form of low interest members, the greater the proportion of bearing loans. Having access to these type household food expenditure. This is very of loans will make it easier for households natural. The more members a household to meet their food requirements. Both in has, the more quantity of food it needs to terms of increasing the quantity and consume. Thus, the spending on food will quality of food consumed. The same case also applies for *mecingkreman*. Households Asset ownership status also affects the who participate in the mecingkreman tend proportion of household food expenditure. to have better food security compared to Households with non-land sources of those that do not participate in the income have a higher proportion of food *mecingkreman*. The mechanism behind the expenditure compared to households that role of mecingkreman in increasing the do not have non-land sources of income. proportion of household food expenditure

follows same mechanism for the sekeha subak, farmers will have access to a better *subak* member is synonymous with being a consume better food.

membership. The main difference is that irrigation system that enables them to the amount of loan funds that can be obtain better agricultural products in form accessed from mecingkreman is likely to be of food produce compared to those who smaller than that of sekeha. Another social are not members of the subak. Better capital that also affects food security is agricultural products will also provide subak, namely subak membership. Being a better opportunities for households to

farmer. By becoming a member of the

Table 1: Descriptive Statistics of Research Variables

Variables	Mean	Min	Max
HH Income	4.604.234	4166.667	8.66e+07
Sekeha	409.540	0	9.858.333
Mecingkrem	0,07	0	1
Subak	0,31	0	1
Food Security	0,45	0	1
Age of HH Head	45,29	21	83
Education of HH Head	8,64	0	16
Gender of HH Head	0,91	0	1
Number of HH	6,00	1	7
Members			
Non Land Assets	.1201044	0	1
Savings	.3289817	0	1
Jewelries	.5691906	0	1
Location (rural/urban)	.6031332	0	1

Source: primary data, processed (2021)

When compared with the significance and the direction of the an relationship between the variables, it can household

be seen that these variables did not In the first column, all independent change in term of their significances variables were included in the analysis. except for the education of the household results head variable. In the overall analysis, it presented in column two and column was found that the education of the three, it can be seen that the partial household head variable no longer affects effects of the variables did not change household food security. This implies that significantly. When analyzed from the the education of the household head has insignificant role in affecting security, which food

predominantly influenced by other variables.

Table 2: The Influence of Social Capital, Individual Characteristics, and Households on Food Security

	Food Security		
Variables	(1)	(2)	(3)
Age of HH Head	0.00448***		0.00506***
	(0.00120)		(0.00119)
Gender of HH Head	0.0220		0.0200
	(0.0248)		(0.0252)
Number of HH Members	0.0158***		0.0156***
	(0.00509)		(0.00516)
Education of HH Head	-0.00505		-0.00547*
	(0.00328)		(0.00329)
HH Income	1.45e-09		1.22e-10
	(2.08e-09)		(2.10e-09)
Sekeha	5.69e-08***	6.44e-08***	
	(1.92e-08)	(1.93e-08)	
Mecingkreman	0.0991*	0.101*	
	(0.0539)	(0.0559)	
Subak	0.0584*	0.0772**	
	(0.0328)	(0.0303)	
Non Land Assets	0.0824**		0.0894**
	(0.0419)		(0.0427)
Savings	0.0747**		0.0710**
	(0.0298)		(0.0313)
Jewelries			0.00516
			(0.0295)
Location (rural/urban)	-0.00107		-0.0137
\ ''' / ''' /	(0.0306)		(0.0285)
Constant	0.366***	0.444***	0.354***
	(0.0814)	(0.0188)	(0.0836)
Observations	383	383	383

Standard errors in parentheses; *** p<0.01, ** p<0.05, * p<0.1

Source: primary data, processed (2021)

CONCLUSION

Social capital with local wisdom has an important role in affecting household food security in Bali Province. Households with social capital will tend to have higher food security compared to households that do not possess social capital. Specifically, the following are factors that influence food security in Bali Province. First, social capital consisting of sekeha, mecingkreman and subak has a significant effect on food security. Households that possess social capital will have better food security than those that do not. Second, individual characteristics, namely the age of the household head and the education of the household head have significant effects on food security, however the role of the education of household head was found to variables. Third, household characteristics which has funded this research. have significant effects on household food security. These characteristics consist of the number of household members and household asset ownership. All of these characteristics have positive effects on

household food security. This implies that increase in assets will lead to increase in household food security.

The identification of social capital with household local wisdom in Bali Province a reference for alternative approaches in achieving food security in Bali Province. The importance of the role of social capital in achieving household food security in Bali Province has an implication in form of the need to increase the ownership of social capital in the household, especially social capital based on local wisdom. Social capital with local wisdom is the form of social capital that is most compatible with the characteristics of households in Bali Province.

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be not robust. This can be seen from the The authors would like to thank The loss of the role of education when food Institute for Research and Community security is controlled by social capital Services (LPPM) of Udayana University

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