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Planning Consistency and the Political Budget Cycle in Indonesia: Simultaneous Regional Elections in 2017 and 2018

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ABSTRACT

This study aims to find empirical evidence of the relationship between planning and the practices associated with political budget cycles in Indonesia, with reference to the simultaneous regional head elections held in 2017 and 2018. A fixed-effect method using least-square dummy variables analyzes the role of planning in the relationship between local-government spending and political budget cycle behaviors. The results indicate that consistency between planning and budgeting can control the discretion applied by regional heads to increase and decrease budget expenditure in the two years before an election, one year before an election and in the election year itself. The magnitude of these reductions or increases differs between types of expenditure. The association between planning and the political budget cycle is significant in the two years before an election for primary expenditure allocations and in a year before an election for allocations of capital expenditure, social assistance, and grants and subsidies.

Keywords: political budget cycle, planning consistency, incumbent, Indonesia, local election

JEL Classification: H72, H75

INTRODUCTION

Planning plays an important role in realizing development goals that are formulated with clear and measurable targets in order to produce an effective and efficient budget. However, the budget formulation process is closely related to the political process and so the resulting budget is very reliant on the activities and decisions of the politicians involved. To be effective,

budget formulation must be consistent with planning: the more synchronous and consistent the formulation, the better the government's performance will be and the more likely development goals are to be achieved. When entering a general election period, economic policy is often used to influence voting, in that the politicians who run the government and are entitled to compete in forthcoming election will behave opportunistically by using the budget they have access to for particular allocations (Klein & Sakurai, 2015; Chortareas, Logothetis, & Papandreou, 2016). In election years, incumbents running for office tend to increase certain spending to send out a "good signal" that reflects their performance (Nordhaus, 1975; Rogoff, 1990). It is therefore important that planning of budget needs is carried out to minimize the potential non-neutrality of stakeholder behavior in the budget process (Lee, 2014).

The absence of a study that explains the relationship between consistency and political budget cycle practices is the

motivation for this study, which aims to analyze the relationship between budget planning and trends in political budget cycle practices of local governments in Indonesia. Indonesia regulates simultaneous elections for regional heads in its implementation of regional autonomy policies including development planning and budgeting authority. This research hypothesizes that the consistency index for planning and expenditure as political budget cycle practices can be controlled. This study predicts a relationship between consistency and political cycles with lower budget expenditure.

As the world's largest developing country (by population), Indonesia's political system is a young democracy with characteristics of low ideological division, loyalty to small parties, and the importance of money politics (Gonschorek, Schulze, & Sjahrir, 2018). Both communities and regional heads have opportunistic attitudes in taking advantage of the election period. Due to the high cost of regional elections, money politics, especially political

dowries and vote buying, cause rampant corruption in elections of regional heads.

To reduce or avoid campaign costs, an incumbent who has a budgetary function in local fiscal policy has an incentive to take advantage of certain budget components that will have the effect of attracting voters, such as grants, social assistance, and financial assistance (Sjahrir, Kis-Katos, & Schulze, 2013). In addition to the large discretion available to regional heads in regional election budgets, accountability at the regional level is still weak and democratization has not contributed significantly to reducing waste in regional government spending (Sjahrir, Kis-Katos, & Schulze, 2014). Budgetary order is one of the important solutions that can be built into the formulation of fiscal policy in the election period, a regulated in self-help budget institutional arrangement that involves the community in fiscal agreements (Sanchez, 2007). Accordingly, Indonesia established the Regional has **Development Planning Consultation**

(Musyawarah Perencanaan Pembangunan Daerah. known as Musrenbangda) in an effort to involve the community in the process of compiling a regional development plan that can then be used to produce a Regional Medium-Term Development Plan (Rencana Pembangunan Jangka Menengah Daerah or RPJMD). This process requires the regional government budget to be referred annually to the RPJMD. Synchronization and consistency of the budget with development planning requirements are essential to ensure appropriate performance of local governments in achieving targets and efficiency in their use of resources.

The first direct local-election implementation in Indonesia recognized political budget cycles in the regional government budgets allocated, especially for incumbents running again for election, together with increases in local-government expenditure in the categories of unexpected expenditure, subsidies, social assistance, financial assistance, interest, and grants (Sjahrir et

al., 2013). However, in regions led by elected regional heads. public investment decreased and the direct election process did not increase the accountability of local elites (Kis-Katos & Sjahrir, 2017). Direct elections have, however, increased local governments' responsiveness, increasing expenditure directly related to the community, such as in the health sector (Skoufias, Narayan, Dasgupta, & Kaiser, 2014). During an election year, an increase in the health budget can be utilized by regional heads in enhancing the image they present to the community.

There are various studies on the political budget cycle in Indonesia had been conducted, such as Sjahrir et al. (2013); Skoufias et al. (2014); Pierskalla & Sacks (2018); and Wiguna & Khoirunurrofik (2021). This research expects to contribute to the literature in twofold analyses. First, this study provides new findings that indicate planning consistency can be correlated or related to expenditure allocations as a reflection of political budget cycle practices. Second, according to our knowledge,

this study is the first to provide evidence that there is a relationship between planning and expenditure realization during the election period in situations in which the incumbent can utilize the budget for their electoral interests.

This paper is organized as follows. The first section provides an overview of the importance of the research and its novelty. The second section presents literature reviews and the third section outlines the research methodology and data. The fourth section sets out our findings and discussion, followed by conclusions and implications in the fifth section.

RESEARCH METHODS

This research uses regional government annual APBD realization data from 2015 to 2019 and any data used relates to provincial. district. and city-level participants in the 2017 and 2018 regional elections. and to the **RKPDs** consistency of with localgovernment RPJMDs for the period 2016

to 2019. This study uses fixed-effect panel data in which the local-government entity (province, district, or city) has different budget characteristics for each year, producing individual

specific effects following the research of Sjahrir et al. (2013), Chortareas et al. (2016) and Wiguna & Khoirunurrofik, (2021).

Unit

Source

Table 1. Description of variables

Description

Dependent	variables
Variable	

	1		-	
$GOVEX_{i,t}$	1. Realization of sub-personnel expenditure (billion rupiah)	Logarithmic	Ministry Finance	of
	2. Realization of sub-capital expenditure (billion rupiah)			
	3. Realization of sub-expenditure on social assistance,			
	grants and subsidies (billion rupiah)			
	4. Realization of the education function (billion rupiah)			
	5. Realization of the health function (billion rupiah)			
	6. Realization of housing and public facilities functions (billion rupiah)			
Independent	variables		•	
$CONS_{i,t}$	RKPD consistency index against RPJMD		Ministry Home Affairs	of
$DEY_{i,t-2}$	Dummy variable (1 = two years before the election, $0 = other$)	Dummy variable		
$DEY_{i,t-1}$	Dummy variable (1 = one year before the election, $0 = other$)	Dummy variable		
$DEY_{i,t}$	Dummy variable (1 = year before the election, $0 = other$)	Dummy variable		
DInc i, t	Dummy variable of the participation of regional heads in regional elections ($1 = \text{running for themselves}$, $0 = \text{not}$)	Dummy variable	KPU	
DWin i, t	Dummy variable of incumbent regional head's victory (1 = win, $0 = no$)	Dummy variable	KPU	
$DParty_{i,t}$	Dummy variable of affiliated political party (1 = affiliated with a political party supporting the national government, $0 =$ other)	Dummy variable	KPU	
$TOTREV_{i,t}$	Total revenue (billion rupiah)	Logarithmic	Ministry Finance	of
$LOCREV_{i,t}$	Local revenue (billion rupiah)	Logarithmic	Ministry Finance	of
$GRDP_{i,t}$	Gross regional domestic product (billion rupiah)	Logarithmic	BPS	
$POP_{i, t}$	Total population (million people)	People	BPS	
$POV_{i, t}$	Number of poor people (million people)	People	BPS	
$OUR_{i,t}$	Open unemployment rate		BPS	
$HDI_{i,t}$	Human development index		BPS	
SERVANT i, t	Number of national public ASN (hundred people)	People	BPS	

DISASTER_{i,t} Number of disasters

Source: authors' results

However, there are time invariance variables in this study; namely, the variables whose values do not change over time are the incumbent and winning variables. To address this concern, least-squares dummy variables (LSDV) analysis is used with ordinary least squares (OLS) estimation, incorporating the time-effect element so that the individual variable is not constant over time. The effect of the time effect is calculated by adding an individual dummy to avoid the trap of dummy variables, namely, conditions perfect collinearity where occurs (Gujarati, Porter, & Gunasekar, 2012). The equation model in this study can therefore be written as follows:

 $log \ GOVEX_{i,t} = \beta_0 \ D_{i,t} + \beta_1 \ CONS_{i,t}$ $+ \beta_2 DEY_{i,t-2} + \beta_3 DEY_{i,t-1} + \beta_4 DEY_{i,t}$ $+ \beta_5 DInc_{i,t} + \beta_6 DEY_{i,t-2} x DInc_{i,t}$ $+ \beta_7 DEY_{i,t-1} x DInc_{i,t} + \beta_8 DEY_{i,t} x DInc_{i,t}$ $+ \beta_9 DEY_{i,t-2} x DInc_{i,t} x CONS_{i,t}$ $+ \beta_{10} DEY_{i,t-1} x DInc_{i,t} x CONS_{i,t}$ $+ \beta_{11} DEY_{i,t} x DInc_{i,t} x CONS_{i,t} + \beta_{12} DWin_{i,t}$ $+ \beta_{13} DParty_{i,t} + \beta_{14} \log TOTREV_{i,t}$ $+ \beta_{15} log LOCREV_{i,t} + \beta_{16} log GRDP_{i,t}$ $+ \beta_{17} POP_{i,t} + \beta_{18} POV_{i,t} + \beta_{19} OUR_{i,t}$ $+ \beta_{20} HDI_{i,t} + \beta_{21} SERVANT_{i,t}$

(1)

 $+\beta_{22}DISASTER_{i,t}$

 $+ \varepsilon_{i,t}$

where $GOVEX_{i,t}$ are the logs of personnel expenditure, capital expenditure, social expenditure, education expenditure, health expenditure, and infrastructure expenditure in regional government i year t; $D_{i,t}$ is an individual dummy; *CONS*_{i,t} is the consistency index RKPD to RPIMD in local government i year t; the possibility of finding political budget cycles if the values β_6 , β_7 , and β_8 are positive and statistically different from 0; the relationship between the consistency of planning in the election year effect is indicated by the values β_9 , β_{10} , and β_{11} ; and $\varepsilon_{i,t}$ is the error term.

The main variable interacts with the incumbent dummy variable and the election year effect to answer the research questions. This process aims to look at the substantive relationship between planning and regional government budgeting in the year before the local election, during localelection administration, and after the election, to identify whether it is influenced by the incumbent regional head running again for election. In the econometric model, control variables are used, namely regional characteristics such as population, regional income, and number of employees, and the level of community welfare, such as human development, poverty, unemployment, and number of disasters.

This study uses government expenditure ($GOVEX_{i,t}$) as the dependent variable to reveal the political budget cycle, as in the study by Sjahrir et al. (2013) that uses local-government spending by categorizing administrative expenses and other expenses. This study uses personnel, capital, and social spending data (social assistance, grants,

and subsidies) because this type of expenditure is the largest area of discretion for regional heads in regional elections (Sjahrir et al., 2013; Pierskalla & Sacks, 2018). In addition, this study references local-government also budgets for education, health, and infrastructure, because these three budget functions are closely related to essential public services and are the favorites for regional heads to use in their efforts to attract voters. The election effect in this study ($DEY_{i,t-2}$, $DEY_{i,t-1}$, $DEY_{i,t}$) refers to Sjahrir et al.'s (2013) study that divides the two preelection and election years. Voters do not see the development results of the expenditure budget plan directly (Nordhaus, 1975); therefore, to deliver investment returns to voters in the campaign year, politicians must budget fiscal spending two years before the election.

The selection of control variables that reflect economic conditions is based on the regional income variables $TOTREV_{i,t}$, $LOCREV_{i,t}$) as used in the study by Bonfatti and Forni (2019).

These are chosen because all local-government expenditures are highly correlated with the amount of regional income. This approach is used because the realization of local-government budget will have a large impact and influence on the performance of the regional economy as reflected in the gross regional domestic product *GRDP*_{i,t} (Sjahrir et al., 2013; Wiguna & Khoirunurrofik, 2021).

The control variable that reflects political conditions is the variable status of the incumbent *DInc_{i,t}*, as used in the study of Klein and Sakurai (2015) which measures the possibility of fiscal policy being carried out by a first-period regional head who is allowed to run again. The winning incumbent variable $(DWin_{i,t})$ applied because is the incumbent uses fiscal policy to increase popularity (Eryilmaz & Mercan, 2015). The more opportunistic the incumbent is prepared to be in order to win, the more they will take advantage of fiscal policy. The political parties variable $(DParty_{i,t})$ is used in this study because regional heads who are not affiliated to

national political parties cause a cycle of expenditure in election year budgets motivated by election administration.

The selection of variables based on demographic conditions is as follows: the population variable $(POP_{i,t})$ is used in this study because population size affects the level of demand government services, which in turn is reflected in the amount of budget expenditure (Klein & Sakurai, 2015); the unemployment rate variable $(OUR_{i,t})$ is used because a higher rate unemployment in the community will encourage local governments to issue social assistance to alleviate poverty levels through means such as providing grants. Moreover, we add the human development index variable $(HDI_{i,t})$ to measure the human capital of people in the region. The study also uses a control variable for the amount of ASN ($SERVANT_{i,t}$), because the number of ASNs can be correlated with the amount of sub-expenditure personnel. Finally, the number of poor people $(POV_{i,t})$ and the number of disasters (DISASTER_{i,t}) are used because

these variables can correlate with changes in provision for the poor and for local-government social programs, such as providing social assistance, giving grants, and providing subsidies in the event of disasters.

RESULTS AND DISCUSSION

The variable of interest, namely the consistency index of RPJMD/RKPD, has an average of 82.17, with a minimum value of 41% for Central Java Province in 2018 and 100% for Central Java

Province in 2019, 2017, and 2016, DKI Jakarta Province in 2017 and 2019, and West Java Province in 2016 and 2017. The standard deviation of 11.33 means that the maximum increase decrease in the consistency variable mean is ± 11.33%. The coefficient of variation of the consistency variable is 0.14%, i.e. the data is close to being homogeneous. Table 2 presents the data the consistency of on average RPJMD/RKPD.

Table 2. Summary statistics

X7 ' 11				Statistics		
Variables	Note	Min	Mean	Max	Std. dev.	Coef.
Personnel expenditure	1040	93.13	768.62	21852.42	1380.70	1.79
Capital expenditure	1040	35.43	440.57	14118.61	780.93	1.78
Social expenditure	1040	0	313.83	20102.04	1273.93	4.06
Education expenditure	1040	1.59	597.09	16153.35	1324.71	2.22
Health expenditure	1040	0.30	269.86	8936.16	525.23	1.95
Infrastructure expenditure	1040	0	299.96	15436.75	752.18	2.51
Consistency	1040	41	82.17	100	11.33	0.14
Total revenue	1040	56.38	2402.59	64823.89	4844.98	2.02
Local revenue	1040	1.87	723.29	43901.49	3102.71	4.29
Elect-2	1040	0	0.25	1	0.43	1.73
Elect-1	1040	0	0.25	1	0.43	1.73
Elect	1040	0	0.25	1	0.43	1.73
Incumbent	1040	0	0.64	1	0.48	0.75
Winning	1040	0	0.45	1	0.49	1.11
Party	1040	0	2.21	4	1.77	0.79
GRDP	1040	174.98	68225.96	2840828	247345	3.62
Population	1040	0.01	1.34	48.68	4.56	3.42
Poverty	1040	1.23	146.64	4789.12	494.10	3.37
OUR	1040	0.11	5.16	17.05	2.69	0.52
HDI	1040	26.56	68.54	86.65	6.54	0.95
Servant	1040	10.05	141.52	4143.14	398.06	2.81
Disaster	1040	0	18.89	2741	104.39	5.52

Source: authors' results

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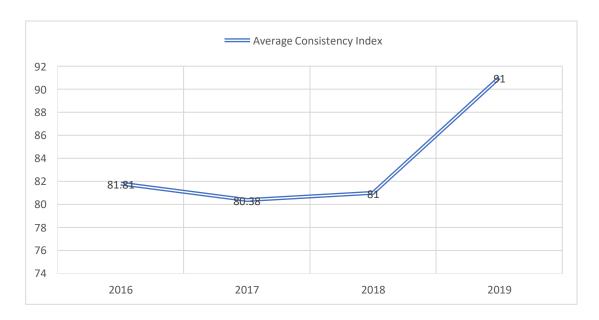


Figure 1. Average consistence of the 34 provinces in Indonesia

Source: Ministry of Home Affairs, 2019

Figure 1 shows that during the four-year period of 2016 to 2019, the lowest national average consistence was in 2017, namely 80.38 then increasing in 2018 to 81. The average level of consistency of the RPJMD toward local-**RKPD** in Indonesia government increased significantly in the 2019 fiscal year, reaching a value of 91. For local governments that carried out the 2017 local election, 2019 is the second year of implementing the RPJMD, while local governments that held 2018 local elections, 2019 is the third year of implementing the RPJMD. Increasing the planning consistency index can be

interpreted as an effort to achieve the regional head's vision and mission through the RKPD being adjusted to match the program listed in the RPIMD, after becoming an elected regional head. The 2017 local election was held by 96 regional governments and the 2018 election by 164 local governments, as presented in Table 3. In terms of regional heads' participation in local elections, several variables are shown in the table below (Table 4), which compares average regional government spending between regional heads who are running for re-election and regional heads who do not run again.

Table 3. Incumbent performance in local elections

C.1	Number	of regions	-	Incumbent	•
Selection type	2017	2018	Total	Win	Lose
Governor election	7	17	15	8	7
Mayor election	18	36	42	31	11
Regent election	71	111	109	77	32
Total	96	164	166	116	50

Source: authors' results

Table 4. Comparison of the mean of several variables (Rp billion)

Variables	Running (1)	Incumbent Not running (0)
Personnel expenditure	823.32	672.02
Capital expenditure	463.63	399.84
Social expenditure	373.32	208.77
Education expenditure	621.67	519.62
Health expenditure	286.74	217.46
Infrastructure expenditure	327.00	252.18
Consistency	81.74	82.95

Source: authors' results

Regional governments that are led by regional heads who run again have a higher average (mean) amount of personnel expenditure, capital expenditure, social spending, education expenditure. spending on health functions. and spending on infrastructure functions than regions led by regional heads not participating in the regional head elections. If further analyzed, as shown in Figure 2, the trend of the average regional

government spending led by regional heads who run again for the two years before the local election, one year before the local election, the year for the local election, and one year after the election can be seen. While the average expenditures for personnel, social. capital, education, and health have increased over the years, the average capital and infrastructure expenditures decreased during the election (Elect).

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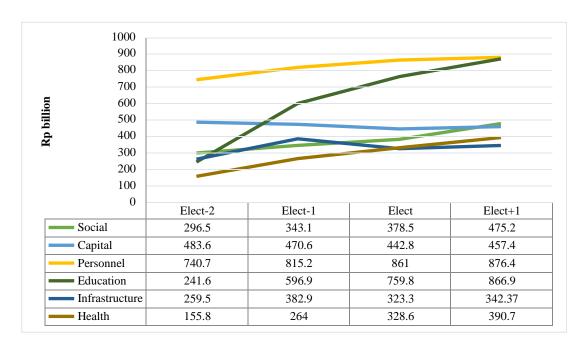


Figure 2. Average expenditure comparison (Rp billion)

Source: authors' results

In addition to the differences in average expenditure, Table 4 shows that the average consistency index value of local governments led by incumbents who ran again was lower, namely 81.74, compared to regions led by regional heads but did not run again, namely 82.95. From Figure 3, it can be seen that in the year the regional head elections were held, the average value of the consistency index of regional

governments led by regional heads who ran again decreased sharply to 73.97% compared to regions led by regional heads who did not run again at 80.49 %. This indicates that there were programs in the RKPD in the year the elections were held that were not in accordance with the existing programs in the RPJMD, leading to a fall in the consistency index in that year.

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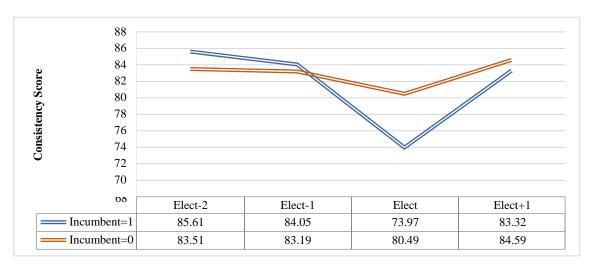


Figure 3. Average consistency comparison

Source: authors' results

Political budget cycle behavior spending, personnel capital expenditure, social spending, education budgets, health budgets, and infrastructure budgets can be revealed by analyzing the data through the coefficient values of the Elect-2 x Incumbent, Elect-1 x Incumbent, and Elect x Incumbent interaction variables. as shown in Tables 5 and 6. Overall, the

coefficient value is positive where in the two years before the local election, one year before the local election, and the year of the election there was an increase in local-government spending on personnel, capital expenditure, social assistance, grants and subsidies, education, health, and infrastructure, except in the two years before the election for the health budget.

Table 5. Dummy election year and dummy incumbent estimation coefficients

Dependent variable	Log of personnel	Log of capital	Log of social
	expenditure	expenditure	expenditure
Variables	Model (4)	Model (4)	Model (4)
Elect-2 x Incumbent	0.1044***	0.0651	0.0579
$(DEY_{i,t-2}xDInc_{i,t})$	(0.0307)	(0.0436)	(0.1375)
Elect-1 x Incumbent	0.0418	0.0849**	0.2158
$(DEY_{i,t-1}xDInc_{i,t})$	(0.0305)	(0.0432)	(0.1360)
Elect x Incumbent	0.0354	0.1240***	0.1814
$(DEY_{i,t}xDInc_{i,t})$	(0.0315)	(0.0447)	(0.1407)

Significant coefficient: * p < 0.10; ** p < 0.05; *** p < 0.01. Source: authors' results

In personnel spending, the three interaction variables indicate an increase in personnel spending in the two years before the election of 10.44%, one year before the election of 4.18%, and the vear of the election of 3.54% for local governments led by regional heads who run again. It can thus be said that there was a political budget cycle in the employee expenditure budget in two pre-election years and that it was statistically significant. Increasing personnel expenditure is one way for incumbents to attract the attention of employees who are also voters in the regional elections. As one example, a significant increase in personnel spending in the two years before the elections occurred in the form of Regional Performance Allowances (TKD) for civil servants in several regions. The steps to increase TKD are in line with efforts to improve the bureaucracy in terms of the welfare of the apparatus, although at the same time it has a beneficial value for the incumbent in gaining the sympathy of

voters from the ASN sector if they compete in the elections.

An increase in personnel spending in this study is also in line with findings of Skoufias et al. (2014) and Wiguna and Khoirunurrofik (2021). Their findings show the results of an increase in employee expenditure in the election year that was put in place because candidates could "buy" political support around election time by increasing employee welfare, so that employees felt satisfied with the performance of the regional head. In addition, politicians pay great attention composition of to the emplovee spending emplovees because influence policy during the election period and influence election results (Huber, 2016). However, an increase in personnel spending in an election year contradicts a study by Pierskalla and Sacks (2018) which found a decrease in personnel spending in the election year in regions led by incumbents running for regional elections.

For capital expenditure, the three interaction variables indicate an increase two years before the election of 6.51%, one year before the election of 8.49%. and in the year of the election of 12.4% for local governments led by regional heads who run again. It informs that there is a significant political budget cycle in the capital expenditure budget one year before the election and the year the election is held. There was an increase in capital expenditure one year before the local election and the election year, one of which was due to the delayed completion of development, so that in the last year of the regional head's term of office, the development programs contained in the RPJMD were completed pursue targeted to achievements.

The findings of this study are in line with those of Klein and Sakurai (2015) and Wiguna and Khoirunurrofik (2021) which indicate that incumbents reduce local tax revenues and adjust budget composition by increasing capital expenditure while maintaining the budget deficit at the same level. Capital spending requires the support of very

strong regional heads, even though an increase in capital spending is also often associated with increased corruption, especially when it is coupled with weak audit results (Lewis & Hendrawan, 2019). Supervision of capital spending in the election year therefore needs to be improved. Studies indicating a decrease in capital spending in an election year include that of Rogoff (1990), which states that in the election year there will increase in be an government consumption spending and a decrease in capital expenditure, and Pierskalla and Sacks (2018), which concludes that in the election year there will be a decrease in capital spending. incumbent is significantly subject to public scrutiny and this prevents incumbents and civil servants from facilitating complicated capital investments.

For social spending, the three interaction variables indicate an increase in spending on social resources, grants, and subsidies in the two years before the regional elections of 5.79%, one year before regional elections of 21.58%, and in the year of the regional elections of

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18.14% for local governments led by a regional head who is running again, although it is not statistically significant. These results indicate that incumbents have influenced discretionary spending, especially on social spending. Theincumbents behave opportunistically by increasing which affects spending their electability. This evidence is also in line

with previous research on the electoral budget expenditure cycle which states that incumbents who wish to be reelected prefer to increase this type of budget expenditure sub-category, by donations channeling and social assistance to citizens (discretionary funds) at election time to attract potential voters (Sjahrir et al., 2013).

Table 6. Dummy election year and dummy incumbent estimation coefficients

Dependent variable:	Log of education expenditure	Log of health expenditure	Log of infrastructure expenditure
Variables	Model (4)	Model (4)	Model (4)
Elect-2 x Incumbent	0.0441	-0.0289	0.1163
$(DEY_{i,t-2}xDInc_{i,t})$	(0.1319)	(0.1047)	(0.1278)
Elect-1 x Incumbent	0.1022	0.0814	0.1335
$(DEY_{i,t-1}xDInc_{i,t})$	(0.1308)	(0.1039)	(0.1265)
Elect x Incumbent	0.0448	0.0437	0.1744
$(DEY_{i,t}xDInc_{i,t})$	(0.1353)	(0.1074)	(0.1311)

Significant coefficient : * p < 0.10; ** p < 0.05; *** p < 0.01. Source: authors' results

which, in analyzing the education sector

In the education budget, the three interaction variables indicate an increase in the two years before the election of 4.37%, one year before the election of 10.21%, and the year of the election of 4.48% for local governments led by regional heads who run for re-election. The increase in spending in the education sector is in accordance with studies by Pierskalla and Sacks (2020)

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budget, found that in an election year, incumbent regional heads recruited more contract teachers who were not included in the remuneration received from the central government. Politicians set the timing of teacher recruitment to take place in an election year so as to reap political benefits. There is ample circumstantial evidence that the recruitment of contract teachers in Indonesia is seriously distorted when

the hiring of contract teachers' hiring can be a useful and effective way of improving student learning outcomes in some schools. Chang et al. (2013) stated appointment of contract that the teachers in Indonesia is characterized by corruption, lack of transparency, regional primitiveness, and co-option to the ruling authorities' political interests, with many teachers not being appointed according to the minimum standard requirements for teacher competence.

For the health budget, the three interaction variables indicate a decrease in the two years before the election of 2.89%, but there is an increase in expenditure in the one year before the election of 8.14% and the year of the election of 4.37% for local governments led by regional heads who run again. This result support previous studies of Skoufias et al. (2014) who observe that spending on the health budget increased significantly in the year regional head elections were held. In OECD countries. incumbents also behave opportunistically in increasing health spending in an election year because health budgets are an important topic in

electoral debates that greatly affect voters' interests (Potrafke, 2010). Improved health services can convince the public of the quality of regional heads who are seen to "side" with the people.

In the infrastructure budget, the three interaction variables indicate an increase in the two years before the election of 11.63%, one year before the election of 13.35%, and the year of the election of 17.44% for local governments led by regional heads who are running again. Thus it can be said that there is a political budget cycle in the infrastructure budget, although it is not statistically significant. An increase in this type of infrastructure spending is also similar to studies by Drazen and Eslava (2010)and Wiguna and Khoirunurrofik (2021) which find an increase in infrastructure spending in an election year because it attracts the attention of voters. Politicians prefer to focus on infrastructure spending rather than other spending allocations to attract more potential voters, because infrastructure spending is related to investment projects to build roads or

public facilities that benefit the community (Uribe & Pilar, 2013).

The relationship between the consistency of planning and political budget cycle behavior in personnel spending is seen through the interaction Elect-2 x Incumbent x variables Consistency, Elect-1 x Incumbent x Consistency, and Elect x Incumbent x Consistency. In capital expenditure, the coefficient value of the interaction variable Elect-1 X Incumbent x Consistency in Model (5) is 0.0084 and in Model (6) is 0.0082, both of which are significant at the 5% level. This indicates that the planning consistency index value one year before regional head elections in regions where the regional head is running for re-election is associated with or has a positive

correlation (relationship) with capital expenditure of 0.82% to 0.84% as compared to regions that are running for re-election where the regional head did not run again. In social spending, the coefficient value of the interaction variable Elect-1 X Incumbent Consistency in Model (5) is 0.0243 and in Model (6) is 0.0237, both of which are significant at the 1% level. This indicates that the planning consistency index value one year before the regional head elections in a region led by a regional head who is running for re-election is associated with or has a positive correlation (relationship) with spending social assistance, on grants and subsidies of 2.37% to 2.43% as compared to regions led by regional heads who did again. not run

Table 7. Political budget cycle comparisons

Dependent variable: Personnel expenditure				
	Election year effect x Incumbent	Election year eff	ect x Incumbent x Consistency	
	Model (4)	Model (5)	Model (6)	
Elect-2 ($DEY_{i,t-2}$)	0.1044***	-0.0010	-0.0008	
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	(0.0307)	(0.0024)	(0.0024)	
Elect-1 ($DEY_{i,t-1}$)	0.0418	0.0015	0.0017	
(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	(0.0305)	(0.0025)	(0.0025)	
Elect $(DEY_{i,t})$	0.0354	0.0038	0.0041	
,,,,,	(0.0315)	(0.0027)	(0.0027)	
	Dependent variable: Cap	pital expenditure		
	Election year effect x Incumbent	Election year effe	ct x Incumbent x Consistency	
	Model (4)	Model (5)	Model (6)	
Elect-2 ($DEY_{i,t-2}$)	0.0651	0.0051	0.0053	

	(0.0436)	(0.0034)	(0.0034)
Elect-1 ($DEY_{i,t-1}$)	0.0849**	0.0084**	0.0082**
Elect 1 ($DB1 l, l=1$)	(0.0432)	(0.0035)	(0.0035)
Elect $(DEY_{i,t})$	0.1240***	0.0053	0.0047
Elect (DET l,l)	(0.0447)	(0.0038)	(0.0038)
	Dependent variable: S	. ,	,
	Election year effect x Incumbent		fect x Incumbent x Consistency
	Model (4)	Model (5)	Model (6)
Elect-2 ($DEY_{i,t-2}$)	0.0579	0.0020	0.0018
(1,1 2)	(0.1375)	(0.0107)	(0.0106)
Elect-1 ($DEY_{i,t-1}$)	0.2158	0.0243***	0.0237***
(1,1 1)	(0.1360)	(0.0111)	(0.0110)
Elect $(DEY_{i,t})$	0.1814	0.0017	0.0011
1,0)	(0.1407)	(0.0120)	(0.0119)
	Dependent Variable: Ed	lucation expenditure	
	Election year effect x Incumben	t Election year ef	fect x Incumbent x Consistency
	Model (4)	Model (5)	Model (6)
Elect-2 ($DEY_{i,t-2}$)	0.0441	-0.0234**	-0.0239**
, ,,,,	(0.1319)	(0.0102)	(0.0102)
Elect-1 ($DEY_{i,t-1}$)	0.1022	-0.0166	-0.0162
	(0.1308)	(0.0106)	(0.0106)
Elect $(DEY_{i,t})$	0.0448	-0.0052	-0.0063
1,0)	(0.1353)	(0.0115)	(0.0115)
	Dependent Variable: I	Health Expenditure	
	Election year effect x Incumbent	Election year eff	fect x Incumbent x Consistency
	Model (4)	Model (5)	Model (6)
Elect-2 ($DEY_{i,t-2}$)	-0.0289	-0.0144*	-0.0140*
21000 2 (221 1,1=2)	(0.1047)	(0.0081)	(0.0081)
Elect-1 ($DEY_{i,t-1}$)	0.0814	-0.0004	0.0005
	(0.1039)	(0.0085)	(0.0084)
Elect $(DEY_{i,t})$	0.0437	-0.0027	-0.0022
21000 (221 1,1)	(0.1074)	(0.0092)	(0.0091)
	Dependent Variable: Infra	astructure Expenditu	ire
	Election year effect x Incumbent	Election year effect	ct x Incumbent x Consistency
	Model (4)	Model (5)	Model (6)
Elect-2	0.1163	-0.0467***	-0.0470***
$(DEY_{i,t-2})$	(0.1278)	(0.0098)	(0.0097)
Elect-1	0.1335	-0.0060	-0.0056
$(DEY_{i,t-1})$	(0.1265)	(0.0101)	(0.0101)
Elect $(DEY_{i,t})$	0.1744	0.0009	-0.0004
Elect (DEI l,t)	(0.1311)	(0.0110)	(0.0110)
Significant coefficie	ent: * p < 0.10 ; ** p < 0.05 ; *** p < 0.05		

In the education budget, the coefficient value of the Elect-2 x Incumbent x Consistency interaction variable in Model (5) is minus 0.0234 and in Model (6) is minus 0.0239, both significant at the 5% level. This indicates that the planning consistency index value in the two years before the regional head

elections in regions led by regional heads who are running for re-election is associated with or has a negative correlation (relationship) with expenditure on education functions of 2.34% to 2.39% compared to regions led by a regional head who does not run again. In the health budget, the

coefficient value of the Elect-2 x Incumbent x Consistency interaction variable in Model (5) is minus 0.0144 and in Model (6) is minus 0.0140, both significant at the 10% level. indicates that the planning consistency index value in the two years before the regional head elections in a region led by a head running for re-election is associated with or has a negative correlation (relationship) with expenditure on health functions of 1.43% to 1.45% compared to regions led by a regional head who does not run again. In the infrastructure budget, the coefficient value of the Elect-2 x Incumbent x Consistency interaction variable in Model (5) is minus 0.0467 and in Model (6) is minus 0.0470, both significant at the 1% level. This indicates that the planning consistency index value in the two years before the regional head elections in a region led by a regional head running for reelection is associated with or has a negative correlation (relationship) with expenditure on infrastructure functions of 4.67% to 4.7% compared to regions

led by a regional head who does not run again.

Given these differences in the amount of expenditure before and after elections interacting with consistency in planning, it is very important to pay attention to consistency between planning and budgeting at election time because it is an indicator useful for assessing local-government performance and thus ensuring that all government programs and activities effectively achieve the goals that have been determined. This consistency can minimize the opportunistic attitude of regional heads in seeking benefits from budget allocations which help them to obtain election-winning votes (Nordhaus, 1990). 1975; Rogoff, Opportunistic attitudes of this type lead to inconsistencies in the performance of regional expenditure in election years through the use of the allocation composition of expenditure (Drazen & Eslava, 2010), when in fact the main problem faced in regions is limited resources and revenue available to finance activities.

CONCLUSION

There have been many studies discussing political budget cycles both national and regional levels. This research analyze aims to the relationship between planning consistency and political budget cycles in case studies of local governments participating in the 2017 and 2018 local elections in Indonesia. The study finds that consistency between planning and budgeting can control regional heads' discretion around increasing decreasing budget expenditures in the two years before the election, one year before the election, and in the year of the election. The magnitude of these reductions and increases differs between types of expenditure.

In the year of a local election and one year before, there was a significant increase in the allocation of capital expenditures, while in the two years before the local election there was a significant increase in the allocation of personnel spending. The relationship between planning and the political budget cycle is significant in the two

years before the election for education, health, and infrastructure, while this relationship is significant in the year before the election for the allocation of capital expenditure, social assistance expenditure, and grants and subsidies.

Given the consistent relationship between planning and budgeting and practices of the political budget cycle that can increase or decrease budget expenditures as a form of regional discretion. all stakeholders. heads' including central government, local government, and the Regional People's Representative Council (DPRD), who also play a role in determining using the budget, should be able to review budget documents in the year the regional head elections are held so that they are adjusted to the programs listed in the Regional Medium-Term Development Plan to ensure budget synchronization with development planning.

It is reasonable to suggest that a number of limitations might have influenced the results of this study, such as not controlling for the variable

characteristics of the individual regional heads, such as their educational background, or for the condition of the Regional Representative Council which of course influences the determination of the budget plan of political parties in the Regional People's Representative Council (DPRD). In addition, the use of regional head dummy cannot accommodate the possibility of regional heads who have served for two terms supporting replacement candidates for leadership from the same political party. Further research could add control variables for candidates from the elected regional heads' political parties because of possible relationships to budget allocations during the election period. It would then be advisable to use data over a longer period to produce a comprehensive analysis.

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