

COVID-19: Impact on the Finance and Delivery of Local Public Services in Indonesia

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Access to Local Services under Covid-19: Claims

- Phased re-opening of schools in "green and yellow zones" but enrolments are still declining
- Renewed focus on health care but puskesmas and regional hospital service utilization rates are falling
- Reduced access to improved water constraining necessary uptick in hand washing
- Shrinking access to improved sanitation (toilets, treated wastewater) exacerbating spread of coronavirus



- Reasons
 - District provision of public services deteriorating due to cutbacks in funding?
 - Household ability to pay for services worsening because of reduced income and consumption?
- Solutions
 - Increase funding to districts?
 - Expand income support to households?



Objective and Preview of Main Point

- Examine the impact of Covid-19 on the finance and delivery of district public services
 - Intergovernmental transfers/district spending and household spending
 - Household access to education, health, and infrastructure services
- We find:
 - Rather modest effects of decreased district and household spending on local public service access
 - Caveats...



Covid-19 Geography

- Covid-19 has spread to all 34 provinces
- 489 out of 514 districts have reported Covid-19 cases
- Total cases more concentrated on Java
- Per capita caseload severe in Jakarta, South and East Kalimantan





Cumulative Confirmed COVID Cases by District

Source: Kawal COVID19, retrieved from https://datawrapper.dwcdn.net/MwHOx/81/





Cumulative Confirmed COVID Cases Per Million Population by Province

Source: Kawal COVID19, retrieved from https://commons.wikimedia.org/w/index.php?curid=90617451



Role of Subnational Governments

- Subnationals may lead mitigation efforts but only under strict guidelines provided by central government
- Districts responsible for large-scale social restrictions but only after securing Ministry of Health approvals
- Nevertheless:
 - District task forces guide overall local mitigation efforts
 - Puskesmas responsible for initial screening of cases, contact tracing, monitoring of suspected cases, surveillance testing
- MoF has instructed that subnationals reallocate budgets to respond to the crisis



Conceptual Framework



gGDP	Growth of GDP	DEXP	District Expenditure Per Capita
ČREV	Central Government Revenue	HHEXP	Household Expenditure Per Capita
Transfers	Intergovernmental Transfers Per Capita	Services	Household Access to Services

Impact of COVID-19 on Local Service Delivery



INTERMEDIATE IMPACTS OF COVID-19



Economic Growth

- 2019 Economic growth: 5.0 percent
- MoF estimates that economic growth in 2020 may decline to between 0.2 and -1.1 percent
- Change in economic growth rates between 2019 and 2020 may lie somewhere between -4.8 and -6.1 percentage points
- (Note that a variety of estimates for 2020 economic growth are available: World Bank, 0.0 percent; IMF -0.3 percent; and ADB, -1.0 percent)
- We take the midpoint of government's growth projection as our working estimate, giving a decline in economic growth of -5.45 percentage points



Central Government Revenues



Figures are in constant 2010 terms. Δ for economic growth is the difference in growth rates. Δ for government revenue is the percent change

MoF estimates that government revenues in 2020 will drop by about 21.5 percent



Intergovernmental Transfers

Government revenue and Intergovernmental transfers (IDR tn)



Figures are in constant 2010 terms. A for government revenue and intergovernmental transfers are percent changes

MoF estimates that intergovernmental transfers in total (not including village transfers—*Dana Desa*) will decline by 8.5 percent in 2020 from 2019 levels

This represents a reduction in per capita district transfers of about 5.5 percent





2019 and 2020 are budget figures. GDP deflator for 2019 and 2020 is assumed to be at the same level of 2018, which is 1.4

Central fiscal transfers to regions, 2001-2020



District Spending

- To examine the impact of Covid-19 on district spending we specify an econometric model that posits spending as a function of intergovernmental transfers and various controls.
- We estimate that a one percent decrease in district transfer revenue per capita leads to a 1.1 percent decrease in district spending per capita.
- So, a 5.5 percent decline in district transfers would lead to about a 6.0 percent decline in district per capita spending.



1% change in per capita fiscal transfers leads to a 1.1% change in district per capita spending



Transfers determine district spending, 2010-2018



Household Spending

- We base our estimate of the impact of Covid-19 on household spending on Suryahadi et al (2020)
 - One percentage point change in economic growth is associated with a 1.4 percent change in household spending per capita.
- A change in the economic growth rate of -5.45 percent is associated with a change in household per capita spending of approximately -7.6 percent



Household Access to Services, 2018

Service index is simple average of school enrolments, attended births, and household access to water and sanitation





Summary of Intermediate Effects

COVID-19 Effects, 2020

Change in:	Effect
Economic growth rate	-5.5
Central government revenues	-21.5
Transfers per capita	-5.5
District spending per capita	-6.0
Household spending per capita	-7.6

Effect for economic growth rate is the percentage point change in the rate of growth. Effects for all other variables represent percent changes.



Final Effects of Covid-19 on Household Access to Services

- To examine the impact of Covid-19 on service access, we first estimate an econometric model that posits change in access to services as a function of district spending, household spending and several control variables
- We then simulate the impact of a simultaneous 6.0 percent decrease in district spending per capita and a 7.6 percent decline in household spending per capita on the change in annual service access based on estimated model



1% change in district spending leads to a 0.2 percentage point change in service access

1% change in household spending leads to a 0.1 percentage point change in service access



Impact of District and Household Spending on Change in Service Access





Impact of COVID-19 on household service access

• Annual change in household service access

Numbers are percentage point changes in service access. Figures in parentheses are standard errors

Households will experience an estimated 2.2 percentage point decline in service access



Caveats

- Geographic heterogeneity of impact
- Differential effects for districts that rely to a larger extent on ownsource revenues
- Differential effects given variation in district budget reallocations
- Effects of downturn in provincial spending
- Effects of Covid-19 on quality of local public services
 - Education and shift to online learning
 - Core health services given shift in focus to Covid-19



Government Policy Response

- Focus on maintaining level of village transfers and expanding conditional cash transfers (among others)
- Should government increase intergovernmental transfers to provinces and districts as many have advocated?
- Probably not. Why?
 - Central government budget deficit
 - Asymmetric districts needs
 - Subnational fiscal reserves
 - Subnational spending inefficiency
 - Subnational governance
- Alternative approach: a crisis loan program
 - Significant challenges, given experience with subnational lending



Conclusions

- We estimate that the combined downturn in district and household spending would subsequently
 result in an approximate two percentage point reduction in access to local public services from
 the baseline
- Ironically perhaps, inefficient district government spending and the rather weak linkage between household spending and service access both help to constrain the negative impact of the crisis on service delivery
- This points to the relative importance of more structural factors—initial conditions, population size and density, poverty rates, the level of economic activity, and a variety of district fixed effects (and "unobservables")—in determining local service delivery
- And social distancing initiatives directly affect some local public service access, especially
 education and health
- Potentially more significant impact may relate to effects of Covid-19 on local public service quality
- Increase in intergovernmental transfers unnecessary at present; crisis subnational loan program perhaps better idea, but significant challenges exist