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OPINION



WEAKENS COVID-19 RESISTANCE AS WE surpass 35 000 Covid-19 deaths amid a terrifying second wave of the

health at risk.

Poor air quality from industrial pollution makes us more vulnerable to a variety of health problems including pandemics such as Covid-19. Air pollution in our industrial economy drives climate change which interacts with pandemics to worsen the impact of each. That is why improving air pollution must be central to a just post-corona transition. The satellite imagery showing mas-

pandemic we need to begin an honest

discussion to define and reflect on the

bigger picture that puts our society's

South Africa during our national lockdowns was testament to just how unsustainable to health our "normal

sive declines in air pollution across

Europe, China and the Highveld in

economies" really are. Similarly, they also demonstrated to us how quickly it is possible to achieve massive global reductions in air pollution (and, by association, climate-change gases) if there is a political will to do so. Sadly, more recent

satellite imagery shows us how quickly

we can bounce back to a dirty reality if air pollution emissions are not mean-

ingfully addressed. As more research investigating the link between air pollution and the spread of Covid-19 becomes available there appears to be growing evidence that people living in polluted cities are more at risk from the coronavirus. There are good reasons to suspect that air pollution worsens Covid-19. Many health studies investigating the impacts of air pollution on health conclusively find that air pollution

is known to cause and exacerbate

long-term health conditions affecting

the respiratory system (the lungs) -

impairing our capacity to fight off lung infections, the cardiovascular systems (the heart and blood systems) and also many other cancer health outcomes. A recent study hot off the press, published in the health science journal Cardiovascular Research, takes a step further and estimates the proportion of Covid-19 deaths due to air pollution. The authors estimate that long-term exposure to air pollution generated by human activity is linked to about 27%

One of the study co-authors, Professor Thomas Münzel from Johannes

regulations were in place.

of Covid-19-related deaths in East Asia

and 15% mortality worldwide. They

state that the deaths could largely have

been prevented if better air quality

Gutenberg University and the German Centre for Cardiovascular Research, said: "When people inhale polluted air, the very small polluting particles, the PM 2.5, migrate from the lungs to the blood and blood vessels, causing inflammation and severe oxidative stress, which is an imbalance between free radicals and oxidants in the body that normally repair damage to cells. This causes damage to the inner lining of arteries, the endothelium, and leads to the narrowing and stiffening of the arteries. "The Covid-19 virus also enters the body via the lungs, causing similar

against poor air quality and climate change. The remedy is to mitigate emissions. The transition to a green economy with clean, renewable energy sources will further both environmental and public health locally through improved air quality and globally by limiting climate change," Münzel said. What is the relevance for us here in South Africa? Eskom is our biggest industrial pol-

damage to blood vessels, and it is

now considered to be an endothelial

"However, there are no vaccines

disease.

are Sasol and the oil refineries. We must choose an unprecedented set of opportunities to forge a just transition to equitable, resilient soci-

luter. Other mega polluting industries

eties that provide decent work for all, universal healthcare and contribute to a sustainable and clean energy system and ultimately a healthy climate. As many across the world rise up against systemic racism and discrimination, we must also forge a broad,

interconnected agenda for change that fosters health equity, ecological sustainability, and social justice. Euripidou is an environmental and

public health specialist at groundWork,

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