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BY INVITATION

## Parks vs people: barriers to greening efforts in Tshwane

Urban green spaces have recently been getting more research attention because of the various benefits they offer, say researchers **Titilope Funmbi Onaolapo** and **Christina Breed** from the University of Pretoria, and **Kristine Engemann Jensen** and **Maya Pasgaard** from Aarhus University in Denmark.

Gardens, parks, reserves and trees have been linked to cultural, spiritual and alternative medical solutions. Natural or seminatural land areas can also deliver ecosystem services such as food supply, storm-water management and climate control. Cities can plan and manage these for maximum benefit.

Our research team works on the Integrative Green Infrastructure Planning project, a collaboration between the University of Pretoria in South Africa and Aarhus University in Denmark. We reviewed policy documents relating to green infrastructure in the City of Tshwane Metropolitan Municipality (Pretoria and surrounds) to look for ways to plan, manage and maintain these green-space resources. We also interviewed city officials and held workshops with officials and consultants.

We discovered that Tshwane needs guidelines based on green infrastructure principles. An increase in the awareness of green infrastructure among city officials and residents will increase the many benefits that green spaces can deliver.

The views expressed in our weekly opinion piece do not necessarily reflect those of Farmer's Weekly. This is an edited version of an article first published by The Conversation. To

read the original article, visit bit.ly/3XU2UHF.

## RAPID DEVELOPMENT

Tshwane is an area rich in biodiversity. It is also one of the world's largest metropolitan municipalities by area, and is growing at 3,1% a year. Despite the change of government to democratic rule in 1994, the impact of the apartheid era still shows in the city's neighbourhoods and land development. People are still separated spatially, and some areas have more services, facilities and access to planned green infrastructure than others.

Green infrastructure in Tshwane takes the form of public and private gardens, street trees, community parks, unmanaged vegetated land and reserves. In 2016, the Bioregional Plan for the City of Tshwane revealed that its biodiverse, ecological and protected areas covered 456 340ha or 26% of the entire city's land.

In any city, expansion often comes at the expense of green spaces. Through our research, we found that in Tshwane, challenges to green infrastructure include rapid development, budget constraints, departmental silos, negative perceptions, and limited capacity within departments.

Collaboration is also insufficient among different disciplines in the city's departments to manage and sustain green infrastructure.

One official told us: "The biggest challenge for green infrastructure sustainability has to do with rapid developments linked to aspects such as higher rates of formalising the informal settlements, which is difficult for planning to meet up with."

## CITIES NEED TO BALANCE RESIDENTS' DAILY NEEDS WITH THE CONSERVATION OF GREEN SPACES FOR BIODIVERSITY AND ENVIRONMENTAL HEALTH

Another challenge is that of resources. A city official explained that projects such as electricity provision and road construction were prioritised above the environment. In her words: "If we look at the capital budget, the portion of the budget going into the environment is probably less than 1%."

We found that the flow of information among departments was limited. One informant said the situation could complicate necessary or urgent decisions and actions. For example, solutions to flooding might need to go beyond the Department of Public Works and Infrastructure and include the departments of Social Development and Human Settlements with welfare and relocation.

"We don't optimise the benefits of understanding the connections between different departments," the informant added.

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