Blue and Green Infrastructure in context with South Africa
(A need to begin for BEGIN)

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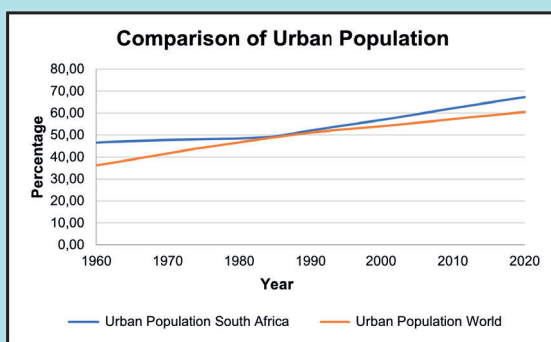1-Wissenschaftliche Hilfskraft at Bauhaus-Universität Weimar
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Urban Ecosystem CO_2↑ + Blue Green Infra. =

Introduction

Rapid Urbanisation is the main cause for the stress on urban ecosystems, which is further impacting the quality of urban life. The only path to bring back life is transformation into blue and green infrastructure without impacting the existing ecosystems.

The below graph explains Urbanisation in South Africa.

Comparison of Urban Population

(Source:www.data.worldbank.org)

South Africa referred as "Rainbow nation" is the only country in the world with three capitals. Due to it´s diversified features the nation faces challenges till date.

"The recovery of sprawl to vibrant places is literally our generations greatest Challenge ."
- Steve Mouzon

Need

- Poor Air Quality
- Reduced life span
- Reduced Quality of Life
- Rise in temperatures
- Unemployment
- Water Scarcity
- Mental and Physical Stress

Challenges

- Post Apartheid differences
- Cultural differences
- Gap between rich & poor
- Execution
- Transformation
- Adaptability
- Public Willingness

Methodology

Target Area Selection
↓
Detailed Investigation of Area
↓
Literature review
↓
Discussions with professionals from Academia and Industry
↓
Selection of Suitable technologies
↓
Drafting of report

Findings (Some of them)

- Integrated Storm Water management

Image depicting utilisation of shock absorbers as communal spaces.
(Source: Picture from Erfurt ,Anger.)

- Vertical Gardens

Image depicting utilisation of Vertical gardens as façade systems.
(Source: IGS magazine. Image credit: Luc Boegly.)

- Green Spaces

Image depicting embedding of Green Spaces into the public utility spaces.
(Source: Picture taken from Leipzig main station.)