

# PRIORITIES OF AIR QUALITY IN GAUTENG AS RELATED TO NATIONAL AIR QUALITY FRAMEWORK

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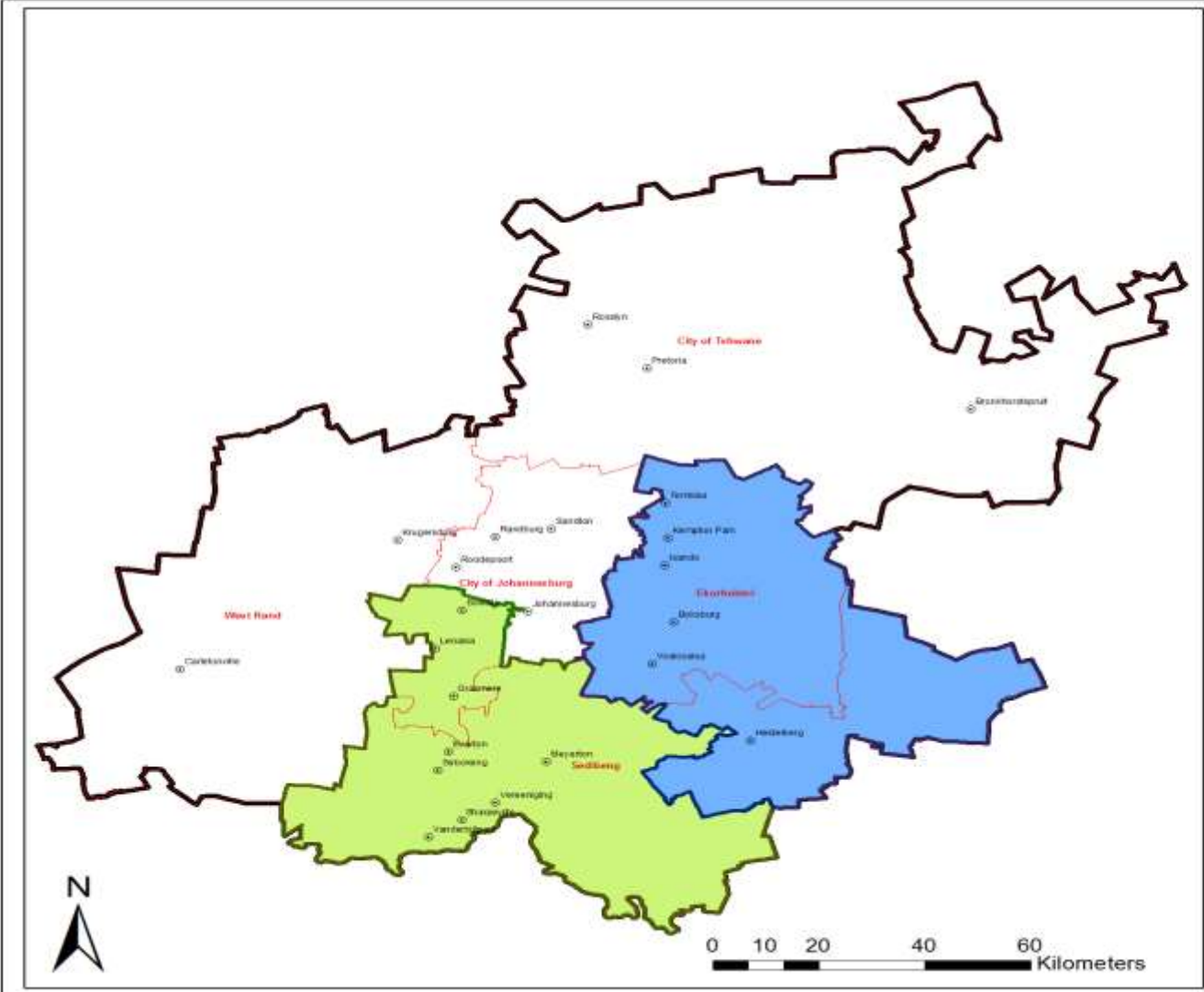
## OVERVIEW OF THE PRESENTATION

- Introduction
- Air Quality Priorities of Gauteng
- Information Management- Some Achievements
- Authorizations Implementation
- Strategy Development in relation to the Framework Review
- Compliance and Enforcement
- Some Lessons Learnt within the Province and the Current National Framework
- Areas of Improvement as Authorities
- Conclusions

## INTRODUCTION

- Gauteng is the only Province having 2 Priority Areas (Vaal Airshed and Highveld)
- Comprise of 3 Metros and 2 District Municipalities
- There are 29 Amb monitoring stations exclude DEA
- Recently the Gauteng Legislature/Premier in SOPA sub divided Gauteng in 5 Developmental Corridors (South, Central, Eastern, Northern and Western) in terms of Economic Developments
- There is integration of different types of activities which in most cases pose a risk of non compliant to air quality standards

# MAP OF GAUTENG PROVINCE



## Air Quality Priority Areas within Gauteng Province

**Legend**

- Towns
- District/Metro Municipality
- Highveld
- Vaal Triangle Airshed
- ▭ Gauteng Boundary

Coordinate System: GCS WGS 1984  
Datum: WGS 1984  
Units: Degree

Source: GOARD  
Author: Knowledge Management (ISM: GIS)  
Date: 14 September 2016

## AIR QUALITY PRIORITIES OF GAUTENG

- AQMPs reviews to align to latest developments like GDS, EMM Aretropolis, Gauteng Pillars and Devel Corridors
- Ambient air quality monitoring and data reporting
- Issuing of Quality Authorizations like AELs, EIAs within less than legislated timeframes e.g Premier want issuing of Quality Authorizations in 30 days
- Collaboration with Compliance and Enforcement on air quality issues
- Political buy in of air quality issues at MEC, MMC and IGR levels on resource issues
- Capacity development on air quality issues (staff, skills)

## OTHER RELATED GAUTENG PRIORITIES

- Design and implementation of air quality reduction strategies
- Agriculture especially Agro Processing which Gauteng want to enhance in less polluted area
- Re-industrialization and Modernization of Gauteng
- Transform Gauteng to low Carbon Economy
- Invest on Infrastructure development and other economic development

## INFORMATION MANAGEMENT

- Information sharing occurs at the Air Quality Forum in all main areas of air quality
- We established 2 Sub Committees on Ambient Monitoring and AELs including Controlled Emitters
- Free flow of information directly with official doing air quality within the province on urgent air quality issues
- Marketing of air quality issues on Developmental Agendas of our Authorities for Resource Allocations through involvement of MMs and HODs
- We have a very active technical IGR which recommend issues to IGR Committees where MEC, MMCs sit

## INFORMATION MANAGEMENT CONTINUES

- Maximize capacity development through trans-boundary skills by the Sub committees
- Report back from Air quality Working Group is provided
- ITT and MSRG information is used to support air quality mitigation or reduction projects
- Conduct joint Trainings funded by Province in some cases for capacity development
- Industries in 2 Priority Areas are encouraged to present on cleaner and best available technologies
- Authorities want to can view and draw Gauteng reported air quality data from SAAQIS in the proposed Phase 2 Upgrade



## SOME ACHIEVEMENTS OF AMBIENT SUB COM

- The Sub Committee influenced GDARD to resuscitate 1 ambient station at Sedibeng
- Improved authorities stations reporting to SAAQIS by more than 25% since establishment within 1 year
- Identified 16 Ambient Monitoring Stations as Indicator stations
- Trans-boundary skills improvement within the Province
- The aim is of Indicator stations to be operational and report air quality data for baseline and planning
- Requested support with available resources to the affected Authorities for such ambient stations

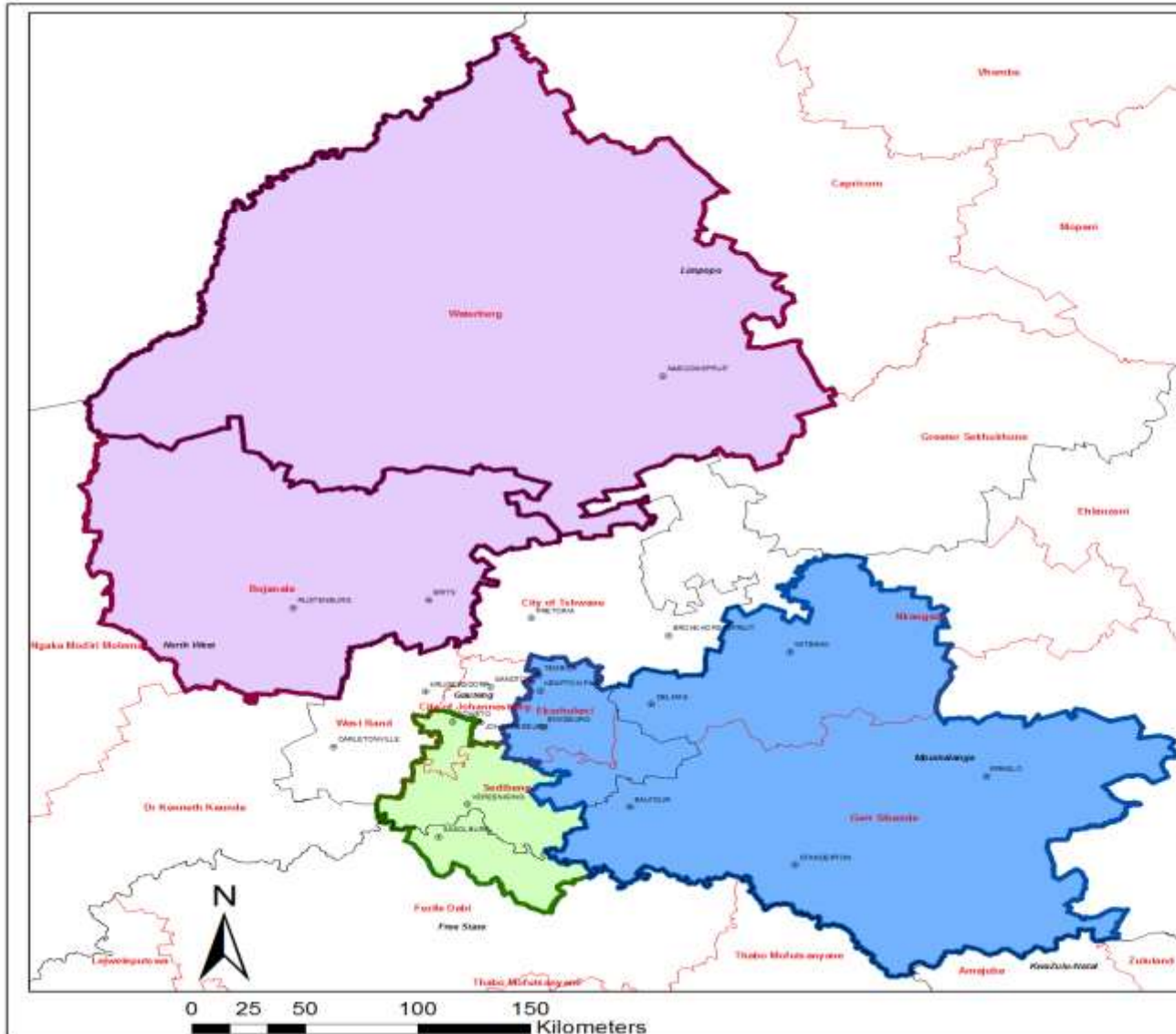
## AUTHORIZATIONS

- Gauteng AEL authorities has rigorously implemented AEL & EIA integrated system
- All AEL Authorities report AELs progress at each AQF
- GDARD provide support in a form of joint inspections to complex listed activities
- Training on identification of Controlled Emitters was conducted at our Air Quality Forum
- Gauteng objective is to issue Quality AELs in terms of the conditions set in AELs(**must lead to emission reduction**)

## AUTHORIZATIONS CONTINUES

- To date more than 350 AELs were issued by Gauteng responsible Authorities
- The AEL Sub Committee will look into standardization within the Province and tool improvement
- We also welcomed DEA (SAAELIP) online system and trainings provided on the system
- Gauteng is implementing the online system and is gaining momentum gradually

# SNAPSHOT OF 2 PRIORITY AREAS RELATIONSHIP



## Air Quality Priority Areas within Gauteng Province and Surrounding Areas

**Legend**

- Towns
- Bojanala & Waterberg
- Vaal Triangle Airshed
- Highveld
- District/Metro Municipality
- Province

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## STRATEGY DEVELOPMENT OF THE FRAMEWORK

- Gauteng is a bit small and manageable province occupying 1,5% of total area of the country.
- The 2 Priority Areas may cover +/- 60% of its area.
- The area of Tshwane share the boundary with Madibeng Municipality which is part of Waterberg Priority Area.
- Waterberg Priority Area may influence air quality within Tshwane metro
- GDARD is reviewing its AQMP and will in the process assess levels of air quality throughout the province
- This will enable the declaration of Gauteng as a Priority Area for comprehensive wide management of air quality

## SOME OPPORTUNITIES OF THE INTENDED AQMP REVIEW

- Identification of Priority Sources of air pollution to focus on
- Provincial wide implementation of reduction strategies
- Explore better usage of low income dense offset guideline at Informal Settlement
- Possibilities of sharing air quality responsibilities looking at available and future resource allocations
- Alignment of air quality issues to Provincial (Metros and Districts) Developmental Priorities
- Better skills utilization and capacity development within the Province

## COMPLIANCE AND ENFORCEMENT

- Gauteng is intensifying collaboration with EMIs
- Referrals of problematic listed activities to Compliance and Enforcement
- Enhance joint inspections or collaboration with EMIs to support as AELs drafters
- EMIs also sit in AQF and are requested their schedule of identified problematic listed activities
- EMIs are also expected at AQF to present the challenges they get in the AELs during compliance monitoring

## LESSONS LEARNT AROUND AQ SINCE 2005-2015

- Gauteng Authorities managed to develop and implement AQMPs for managing air quality issues
- Instead of planting more ambient stations share data of stations at boundaries of authorities
- Continuous operation of stations and reporting data for baseline, planning and design of adequate reduction strategies is important
- Developed minimum skills of air quality delivery within Gauteng Province
- Utilization of DEA support in some cases and it is appreciated



## LESSONS LEARNT 2005-2015 CONTINUES

- Authorities, Communities and Stakeholders need to work together to improve air quality
- Designated AQO in AEL Authorities must focus and co-ordinate air quality issues in their areas of jurisdictions
- In order to develop air quality capacity (Staff and Budget) must be provided continuously or per Financial year
- Improve the working relationship between 3 spheres of government by closing gaps that could compromise air quality at early stage

## AREAS OF IMPROVEMENT ON AIR QUALITY

- Request DEA Support to AEL Authorities in terms AQO Designation guideline e.g challenge is some Authorities designate HODs or Municipal Managers which is a disadvantage in a way
- Move together at same pace from Legislation Amendments and implementers (DEA not to fast for AELA that lack capacity)
- Improve engagements at Working Group 2 on Practical implementation of area of change/improvement
- Intensification of GDARD support throughout the Province AEL Authorities

## CONCLUSION

- Air Quality forms the integral part of development and is better managed at planning stage
- There is a greater need to develop a pool of air quality skills/knowledge throughout the Province
- Air quality Competitors (industries and Consultants) place a huge strain on AEL Authorities by recruiting their developed staff

**WITH COMPLIMENTS FROM GAUTENG AIR QUALITY OFFICIALS**

**I THANK YOU**