



A SALGA led initiative supported by the Water Research Commission

Getting Started with Benchmarking for Performance Improvement...

" for municipalities, by municipalities, to benefit of municipalities"



Why Benchmark Water Services?







Something has to change...

Improved Performance in Water Services



Match Result

Match Information

Match Status: South Africa won by an innings and 193 runs

Result: won - Winning team: - MOM: DW Steyn - MOS:

Umpires: Kumar Dharmasena, Ian Gould - Third umpire: Rod Tucker - Referee: David Boon

1st innings

Batting		R	В	4s	6s
AN Petersen	c Patel b Bracewell	21	40	3	0
GC Smith	c Watling b Wagner	54	88	8	0
HM Amla	c Watling b Boult	110	235	8	0
JH Kallis	c Watling b Bracewell	8	11	2	0
AB de Villiers	c Williamson b Patel	51	81	6	0
F du Plessis	c McCullum b Munro	137	252	14	2
D Elgar	not out	103	170	14	1
RJ Peterson	c Patel b Munro	8	13	1	0
DW Steyn	c Patel b Bracewell	5	23	0	0
RK Kleinveldt	not out	7	13	1	0
M Morkel	dnb	0	0	0	0
Extras	(b 6, lb 8, w 4, nb 3)	21			
Total	(8 wickets; 153.5 overs)	525			

Bowling	0	М	R	w
Boult	32.0	5	108	1
Bracewell	34.0	6	94	3
Wagner	33.0	4	135	1
Patel	36.5	2	134	1
Munro	18.0	4	40	2

Fall of wickets

Petersen - (29 - 9.6ov) Smith - (121 - 30.4ov) Kallis - (137 - 35.4ov) de Villiers - (223 - 61.1ov) Amla - (336 - 97.6ov) du Plessis - (467 - 136.5ov) Peterson - (481 - 142.6ov) Steyn - (508 - 150.1ov)

1st innings

Batting		R	В	4s	6s
MJ Guptill	c Petersen b Steyn	1	11	0	0
BB McCullum	c Kallis b Peterson	13	61	2	0
KS Williamson	c Smith b Steyn	4	5	1	0
DG Brownlie	c de Villiers b Kleinveldt	10	22	2	0
DR Flynn	lbw b Kleinveldt	0	4	0	0
P.I. Watting	a Smith h Markal	60	07	12	٥

Bowling	О	М	R	w
Steyn	13.0	5	17	5
Morkel	12.4	6	26	1
Kleinveldt	11.0	3	53	2
Peterson	7.0	2	20	2
Kallis	1.0	1	0	0

File Icols Help

Projected Score Calculator

Batting Average Calculator

Bowling Strike Rate Calculator

Overs and Decimals

Flury per over calculator

Bowling Strike Rate Calculator

Batting Strike Rate Calculator

Bowling Average Calculator

184 Overs Wickets Tool 45

What is Bowling Strike Rate?

Bowling strike rate is, the average of balls which the bowler takes a wicket.

for example, If the Bowling Strike Rate is 20.5, he will take 1 wicket for each average 20.5 balls

Formula

24.53

Find t.....

Bowling 5/R = Overs Bowled x 6

Wickets Took



STATISTICS

100	Statistics	
48	Shots	40
5	Corner kicks	3
1	Yellow cards	0
0	Second yellow card and red card	0
0	Red Cards	0
55%	Possession (%)	45%





SUCCESS





The Challenge of Successful Change

- Most people/organisations don't like change!
- Change introduces risk / requires focused effort
- Many change programmes fail before they start

Change requires:

- 1. High Quality Leadership
 - 2. Excellent Management







8 Steps to a Successful Change Process

- A Sense of Urgency/Need
- A Strong Guiding Coalition
- 3. A Clear and Compelling Vision
- 4. Communicating the Vision
- 5. Empowering Others to Act on the Vision
- 6. Maintaining a pipeline of Wins
- Consolidating Improvements and Producing Still More Change
- 8. Institutionalizing New Approaches





Successful Change

Successful change is quite simple if you have the tools, the leadership and follow the process



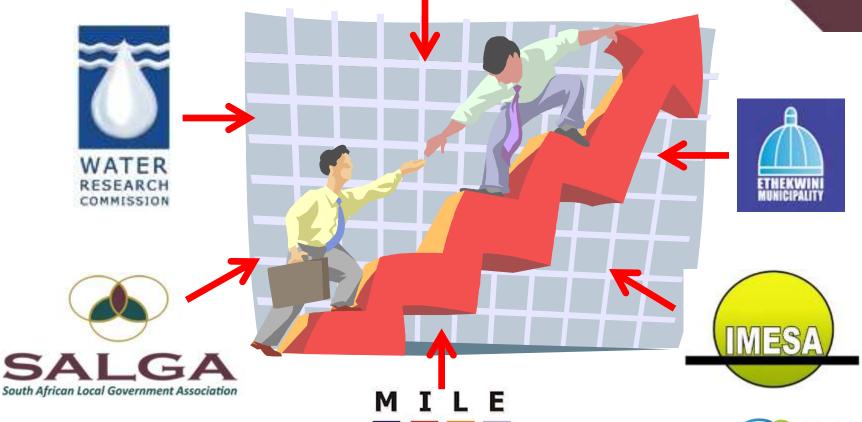






Municipal Benchmarking Initiative

water services



MUNICIPAL INSTITUTE OF LEARNING





MBI: Key Aspects of Approach to Benchmarking

- Make benchmarking part of "normal, good business practice" assists with day-to-day operations, demonstrates economic benefits and value
- Focus on hands-on support ("how do I do that?")
- Create a support network and culture of information exchange between peers ("how did they do that?")
- Use a web-based real-time data-capture and reporting system for tracking and measuring performance
- Use a modular, tiered approach to encourage and enable all to participate
- Be aligned with current capabilities and future aspirations





A Modular & Tier based Approach









MBI: Key Elements

- 1. Pl's, to support performance improvement
- Access to relevant Case Studies, to assist improved performance
- 3. Access to relevant Tools, to assist improved performance
- 4. Peer Learning initiatives, to assist improved performance
- → Peer Group activities to support above AND ensure that each of 1 to 4 is relevant and appropriate to that peer group







Value of Asset Management Performance Improvement

- Historically → asset management performed in an informal fashion, without the necessary strategic vision and corporate commitment
- An asset management framework ensures all processes are effective and provided to achieve a specific goal
- WSA becomes aware of status against current leading practice in corporate policy and business planning, asset capability planning, acquisition, operations and maintenance; and asset replacement and rehabilitation



"10 Mindset Shifts to Unleash the Transformative Power of Performance Measurement" – Stacey Barr

- 1. A continuous improvement philosophy
- 2. A results focus (not activity focus)
- 3. Patterns, not points (understand variation)
- 4. Statistics & numbers aren't hard
- 5. Absolutely no blame (curiosity instead)
- 6. A bias for action (learn by doing)
- 7. Process thinking
- 8. Systems thinking
- 9. No failure, only feedback
- 10.Performance measurement is PART of your job



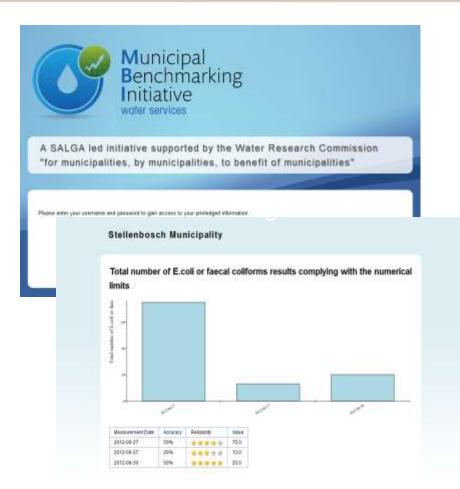








Municipal Benchmarking Initiative



- → 6 introductory modules focus on recognised national priority areas of municipal performance
- 1. Water Demand Management
- 2. Backlogs & Service Delivery
- Human Resource Management & Skills Development
- 4. Operations & Maintenance
- 5. Product Quality
- 6. Financial Performance





MBI Web-based System

- www.munibench.co.za
- Register (obtain username/password)
- Step 1: Login
- Step 2: Set-up client information
- Step 3: Select/enable Pls
- Step 4: Enter data
- Step 5: View performance

A SALGA led initiative	The state of the s	HARACON HURSON		
"for municipalities, by r	nunicipali	ties, to be	nefit of mu	nicipalities"
Please enter your username and password to g	ain access to your	priviledged information		
	Usemame Password			
		Login		
		Logic		





Pls, Variables and Context Information

Variables

- Data element or input
- Performance Indicators (PIs)
 - Calculated result or output
 - E.g. Variable 1 / Variable 2 x 100
 = 3 / 4 X 100 = 75 %
 - Compare to target value (e.g. 80%)



Compare (E.g. population, network length, types of activity)





Pls, Variables and Context Information

▲ Up one level

Performance Indicators (e

Add Category

- Financial Management
- Human Resources and Skills Development
- Operations and Maintenance
- Product Quality
- Service Delivery and Backlogs
- Water Loss and Demand Management

Delete

▲ Up one level

Variables (<u>edit</u>)

Add Category

- A Wastewater Environmental Data
- A Water Volume Data
- B Personnel Data
- C Physical Assets Data
- D Operational Data
- E Demography and Customer Data
- F Quality of Service Data
- G Financial Data
- H Time Data

Delete

▲ Up one level

Context Information (edit)

Add Category

- Consumption and Peak Factors
- Demography and Economics
- Environment
- Service Information
- System Assets
- Undertaking Profile

Delete



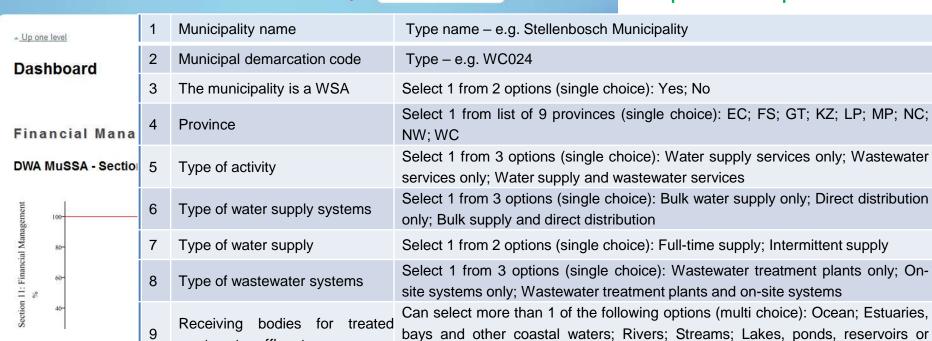


Set-up Client Information



wastewater effluent

Complete basic WSA information – peer comparison





Select/Enable Pls

Stellenbosch Municipality

▲ Up one level

Performance Indicators

▲ Up one level

Performance Indicators

Operations and Maintenance

Human Resources and Skills Development

DWA MuSSA - Section 9: Infrastructure Asset M

B DWA MuSSA - Section 10: Operations and Main

B DWA RPMS KPI 10: Strategic Asset Marageme

B Drinking water treatment plant utilisation (IWA)

B Electricity use (wastewater treated)

Mains replacement (water) (IWA Op18)

Sewage system inspection (IWA wOp1)

Sludge Production in WWTP (IWA wEn6)

Sludge thermally processed (IWA wEn10)

Mactowator numbers overflowe the numbers

📓 Other sludge disposal (IWA wEn11)

Electricity use (water produced)

Meter replacement (IWA Op8)

Sewer blockages (IWA wOp34)

Sludge disposal (IWA wEn8) Sludge going to landfill (IWA wEn9)

Residual Studge utilisation (IWA wEn7)

Sewer replacement (IWA wOp23)

Mains failures (IWA Op31)

Performance Indicators

Biogas re-use

Financial Management

- Performance Indicators Financial Management Human Resources and Skills Dev Operations and Maintenance Product Quality Service Delivery and Backlogs Water Loss and Demand Manage Add Category
- My own Pls

Delete

Select existing PIs or can create own

Pls = combination of IWA and SA specific

Electricity use (wastewater treated) Total electricity used for wastewater treatment / total wastewater treated, for all wastewater treatment plants during the assessment period. Expression: D137/WA2 Enabled: 🗹 Target: Save

. Up one level

Performance Indicators

Performance Indicators Financial Management Human Resources and Skills Development Coperations and Maintenance & Biogas re-use B DWA MuSSA - Section 9: Infrastructure Asset N DWA MuSSA - Section10: Operations and Main DWA RPMS KPI 10: Strategic Asset Manageme & Drinking water treatment plant utilisation (TWA Electricity use (wastewater treated) Electricity use (water produced) Mains failures (IWA Op31) Mains replacement (water) (IWA Op18) Meter replacement (IWA Op8) & Other sludge disposal (IWA wEn11) Sewage system inspection (IWA wOp1) & Sewer blockages (IWA wOp34) Sewer replacement (IWA wOp23). Sludge Production in WWTP (IWA wEn6) Słudge disposal (IWA wEn8) Sludge going to landfill (IWA wEn9) Sludge thermally processed (IWA wEn10) Sludge utilisation (IWA wEn7)

Municipal

Initiative

Benchmarking

Initiative



Enter Data

All data needs

indication of data

reliability & accuracy

Municipal Benchmark

Operational Data

Setup

Context Information

Data Entry |

Dashboard

□ Category: E - Demography and Customer Data

Dogistared sustamors (IMA E10) E10

Stellenbosch Municipality

System
displays all
variables that
need to be
completed to
calculate your

selected Pls



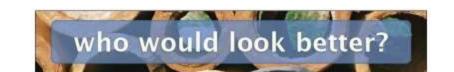


Accuracy and Reliability





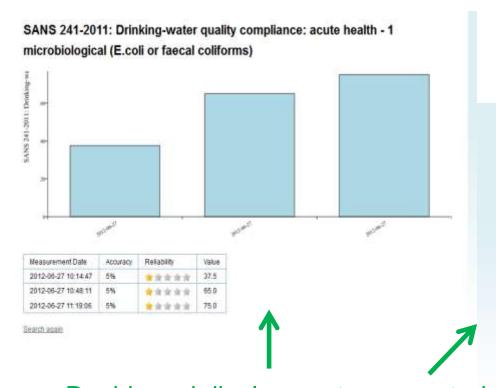
Source: IWA Benchmarking Workshop, Nov 2011

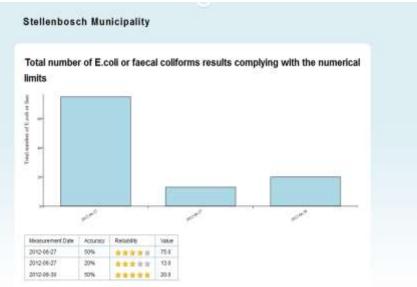






View Performance: Dashboard





Dashboard displays auto generated views of performance (can also draw manually)





The Big Why???

WIIFM

→ What's In It For Me???

FTSOW
For The Sake
Of What'

"People don't do what you expect, they do what you inspect!"

"unless people can see value in their participation in it, you'll get compliance, not commitment"

- 1. What?
- 2. So what?
- 3. Then what?
- → Need all 3!!!

Measure what matters....





Some Tips for Getting Started...

Start small

 Zoom in on a single goal or performance result... something you can use right now...

2. Commit

Make it part of your day-to-day activities...

3. Find those who know

 Peers, specialists → learn from them, take their advice, and don't waste time reinventing wheels or falling into traps....

4. Build gradually

Start with a single goal...continue with two goals...etc







Some Tips for Getting Started (cont)...

- Make mistakes
 - Don't repeat the mistakes of others...make new ones ©
- 6. Balance, not sacrifice
 - We are all super busy…don't wait for perfection…get started!
- 7. Have a support system
 - Peer groups...
- 8. Blinders on
 - Don't let anyone's objections get into your head...
- 9. Have fun and enjoy!!





Need To get Going!!!

- Core set of Modules with core Pls already enabled with "basic" data
- Free to choose other Pls, as suits goals/objectives
- Start basic less is more entrench basic participation, and then expand
- Initiation of peer groups...

MBI Team will be in contact...

Need help??
Tel: 0218802932

Email: mbi@emanti.co.za







Thank You!



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