Monitoring and Evaluation of Water Monitoring and Evaluation of and Sewer Flows Water and Sewer Flows · Need for water use efficiency improvement • Role of Monitoring and Evaluation (M&E) in Presented to African Water Leakage Summit water use efficiency improvement on 20 August 2013 by Kobie Maré Rand Water • Current M&E focus: IWA Water Balance • Proposed M&E focus • Examples of enhanced M&E Conclusion **RAND WATER** VI

The Need for Water Use Efficiency Improvement in Water Sector

- DWA has capped Rand Water's abstraction license to 1600 Mm3/a until 2020
- RW actual abstraction in 2013 was already 1618 Mm3/a and growing at > 2% pa
- Unsustainable if water use efficiency is not improved across the whole water sector, including sanitation

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The Bole of Monitoring and Evaluation in Efficiency Improvement

- To measure is to know
- Demand can only be reduced if it is known how excessive it is and where
- Decisions regarding intervention planning and implementation should be informed by M&E

VI

 Scepticism exists at high levels: If the water losses are so high, why is Gauteng not a marshland?

The Bole of Monitoring and Evaluation in Efficiency Improvement

- The answer is simple: Gaudrain!
- Most of the leaks and excessive consumption is removed by means of stormwater and sewerage systems – Out of sight, out of mind
- M&E is necessary to measure important indicators, to benchmark them against own history and actuals of others









Proposed M&E Focus

be stepped up:

internet access

- Monthly, daily, continuous

 However, it should ideally be expanded to cover bulk water supply zones, sewer drainage areas, regions, towns, municipalities, water board areas of supply and DWA river management areas
The frequency and intensity of M&E should also

Manual and automated reading, logging, telemetry,

VI

 Integration of multiple data sources such as water supply, billing and sewer effluent measurements























