

Pulse

IBM SolutionsConnect 2013

Intelligent Operations for Smarter Physical Infrastructure

IBM Smarter Cities Software Team

13/6/2013





IBM Smarter Cities

- **Video – IBM Smarter Cities**
- <http://www.youtube.com/watch?v=TULPgbIz-UA>

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IBM SolutionsConnect 2013



City of Dubuque

real-time monitoring achieves **6.6%** decrease in water consumption over 9-week period



Metropolitan Police (UK) utilized social network analysis to dismantle an organized crime group, making over **140 arrests** with 70% conviction rate



Analyzing data to perform proactive maintenance, **DC Water & Sewer Authority** achieves ROI of **629%** in 2 months



WorkCover SA

achieves, no touch, end to end processing for more than **20,000** claims annually



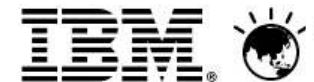
Singapore Land Transport Authority

can forecast traffic conditions up to **60 minutes** into the future to help prevent traffic congestion



Rio de Janeiro,

automated alerts of changes in flood and landslide forecast to **reduce reaction times** in emergencies





IBM Smarter Cities

- **Video – City of Rio**
- <http://www.youtube.com/watch?v=1BWxO9nqABo>



IBM Smarter Cities - we say NO to this!





IBM Capabilities

IBM Research		IBM Products		
Customer Case Studies				
Dubuque	Malta	Sonoma County	South Bend	Valley of the Moon
 Allowing citizens / users to understand and alter water consumption, and for utilities to improve demand forecasting. Value - Achieved 8.6% decrease in water consumption over a 9-week period.	 Island nation with limited freshwater and water reserves Value - Data from the intelligent meters analysed to lower costs, adopt efficient and sustainable consumption patterns and cut greenhouse gas emissions.	 Several municipalities using dashboards to share one water agenda. Value - Reduced water shortages & lost water through improved monitoring and improved management of recreation areas.	 CSO monitoring using single and system level integrated views. Value - Reduced wet-weather overflows by 25% and virtually eliminating dry-weather wastewater overflows from 27 events to 2 in its first year of operation.	 Active pressure management to reduce septic, maintain tank levels, maintain turnover and maintain service levels. Value - Loss/turnover reduction of 16% compared to previous year (18% as compared to previous three years).



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Assets



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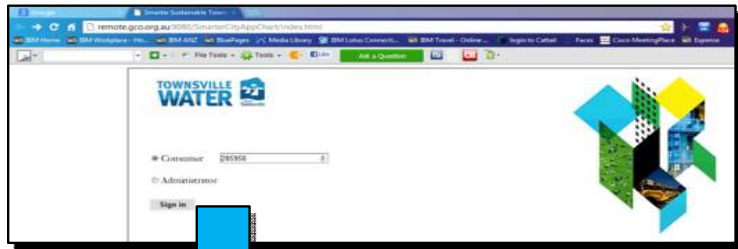
- **Video DC Water**

- <http://www.youtube.com/watch?v=xFEIO1SczNk>

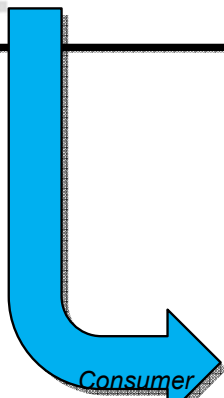
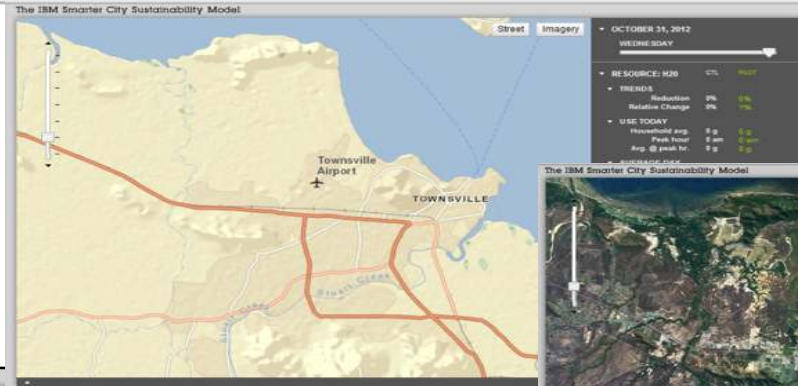




Townsville: A water conservation story



Administrator



Consumer



Input profile data

Objectives:

To validate that Consumption Analysis and Behaviour Analysis can reduce water usage in Townsville

Measures:

1. The degree Smart Water System impacted pilot household's water use
2. The degree to which pilot households actually used the Smart System
3. Features of the Smart Water System most used
4. The ways in which the Smart Water System impacted water use, and associated factors such as *beliefs, attitudes and knowledge*

...al leak of 20L per report click here call 07 3335 4444

Detected

A potential leak of 20L per hour. To report click [here](#) report or call 07 3335 4444



IBM Smarter Cities – A transportation scenario





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■ **Transportation demonstration**

- Ralph Klaassen
- David Robinson





IBM Smarter Cities

THANK YOU

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