

Today

- Fishing
- Global IWA Issues and Activity
- Water Loss, quick introduction
- Bigger Picture items
- WLSG success?
- A new Plan



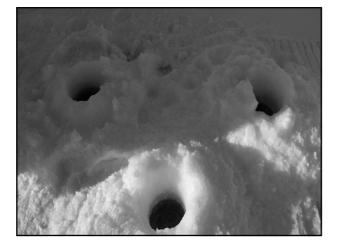
**3rd African Regional IWA Conference** 

# **Global Water Politics**

**Tim Waldron** Chair IWA Water Loss Specialist group IWA Strategic Council IWA Board Director Former CEO WBW Corporation Australia













**3rd African Regional IWA Conference** 

## **Global Water Politics**

#### Tim Waldron

Chair IWA Water Loss Specialist group IWA Strategic Council IWA Board Director IWA Chairman Honours and Awards Former CEO WBW Corporation Australia Its not all Fishing! As Chairman of IWA WLSG, I meet some interesting people



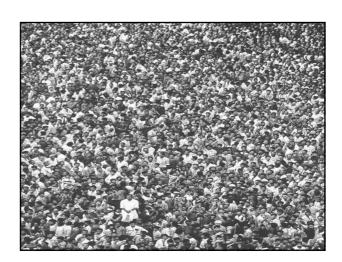
# Why is Water Loss the most important KPI of a Water Company ?

- · It impacts on every part of the business
- Treatment, finance, debt, depreciation, dams, Operational cost, Capital deferment, asset life extension, distribution knowledge, organisational speed, intelligent understanding, engineering challenge, measurement knowledge, impacts on "total Management plans and Corporate structure"
- It impacts on profitability, less service interruptions, water quality improvements via less contamination, environmental excellence, political strength, and disaster management recovery.



How does this all influence the actions of the International Water Associations issues?





# How Do we Deal with the World Water Issue ?

- A new city every week.
- Viewing ourselves what is missing?
- · Innovation and training
- · Challenge, search,
- · Appreciation of different views
- Cultural
- Different thinking



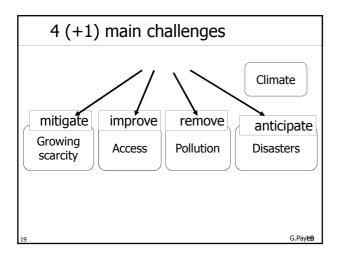
Un Secretary General's Advisory Board on Water & Sanitation **"UNSGAB"** 

High-level independent board created by Kofi Annan on 22 March 2004

To stimulate action by political decisionmakers, with a focus on access to drinking water and sanitation

20 members from all continents

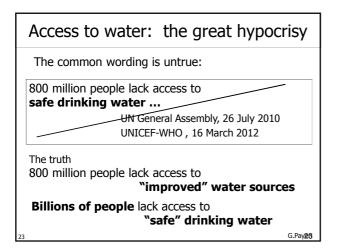
www.unsgab.org

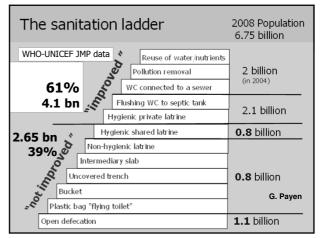




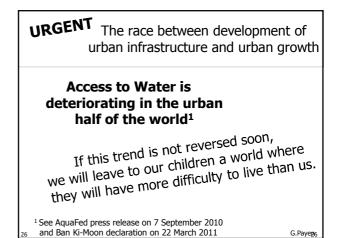


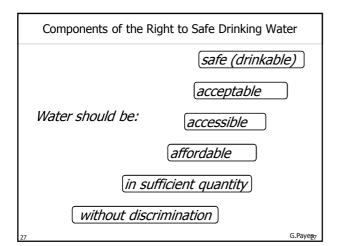






Global trends between 2000 and 2008						
Cha	Change of population (millions) Urba		<b>Rural</b> half			
ater	without access to permanent tapwater (running water)	Not mo	nitored			
Safe Water	without access to tapwater	+114	-24			
Safe	without access to "improved" sources	+13	-188			
Sanitation	without wastewater treatment	Not mo	nitored			
	without wastewater collection	Not mo	nitored			
	without private sanitary toilets (= "improved" sanitation)	+134	-69			
	without toilets (Open defecation)	+7~~	-129			



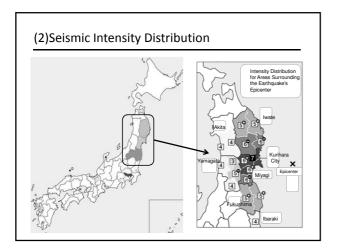




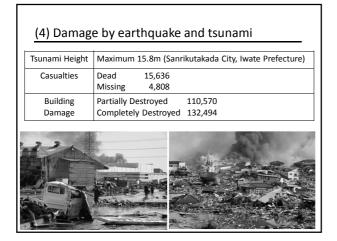


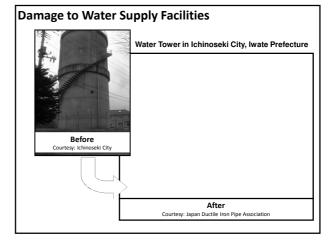
#### 1 Outline of the Great East Japan Earthquake (1) Earthquake Outline

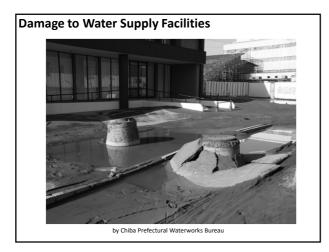
Time & Date	2:46 PM, Friday March 11th, 2011 Magnitude 9.0			
Scale				
Epicenter	Sanriku Coast, Pacific Ocean, Depth of 24km (38.1 North Latitude, 142.9 East Longitude)			
Maximum Strength (Shindo)	Shindo 7 (Kurihara City, Miyagi Prefecture)			
(Silliuo)				
. ,				
(For Reference) Great Kanto Ear	thquake	1923	Magnitude 7.9	
(For Reference)		1923 1933	Magnitude 7.9 Magnitude 8.1	

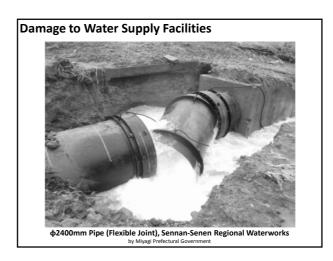


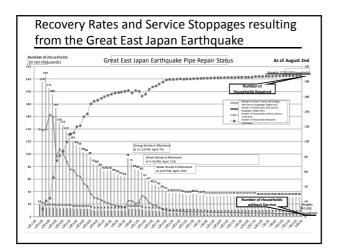


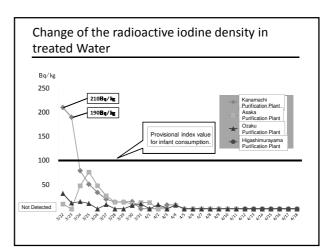


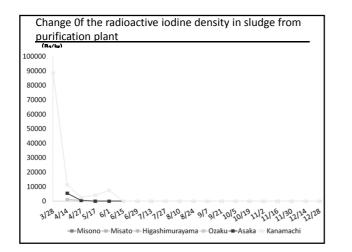


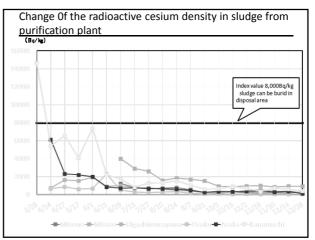


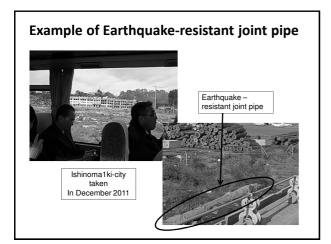


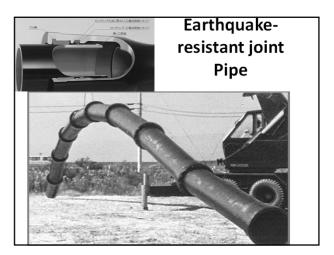


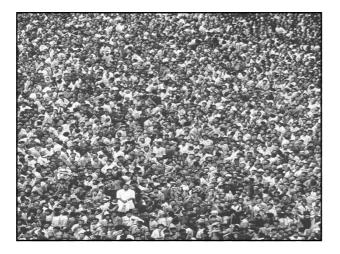










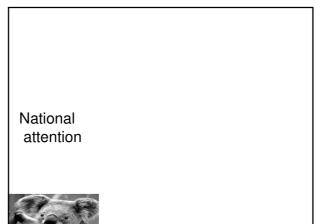


## You

- · Ask yourself why you are here
- Tomorrows needed leaders
- Ask yourself what makes you get up in the morning
- · Essential needs
- Why the world needs you to get up and be brilliant
- · Your team, your company, your community and



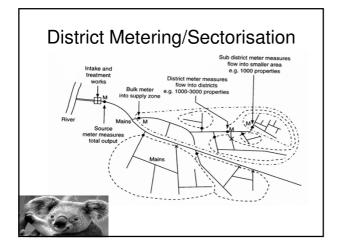


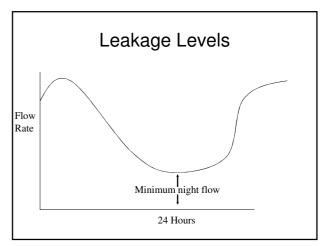


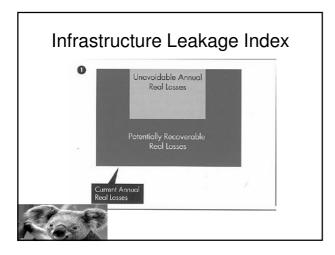
# New To Water Losses?

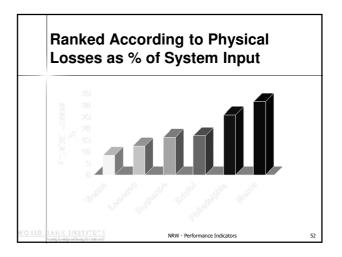
- Some strategic fundamentals
- · Keep the vision that's needed
- Will your actions definitely reduce losses?

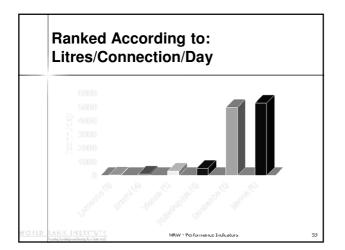
	Authorised Consumption	Billed Authorised Consumption	Billed Metered Consumption	Revenue	
System Input Volume			Billed Unmetered Consumption	Water	
		Unbilled Authorised Consumption	Unbilled Metered Consumption		
			Unbilled Unmetered Consumption		
	Water Losses	Apparent Losses	Unauthorised Consumption	Non	
			Customer Meter Inaccuracies	Revenue	
		Real Losses	Leakage on Transmission and Distribution Mains	Water	
			Leakage on Overflows at Storage Tanks		
			Leakage on Service Connections up to point of Customer Meter		
R	os P	5076			

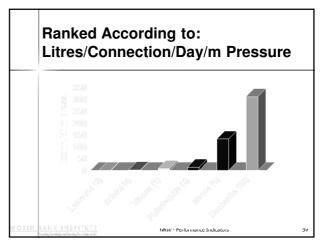


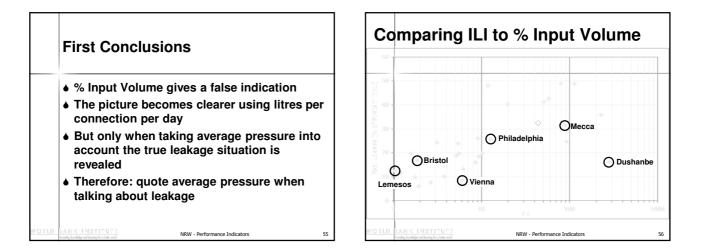


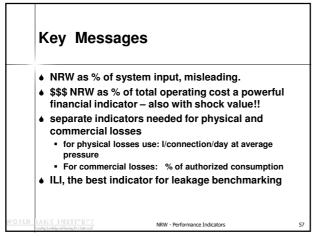


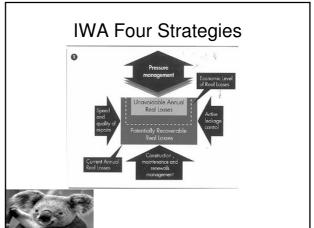










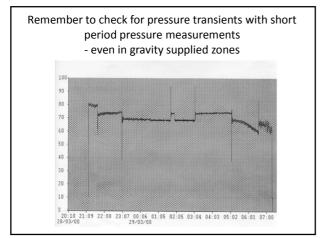


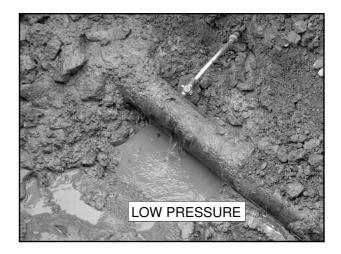
## Nice Idea, But it won't work here...

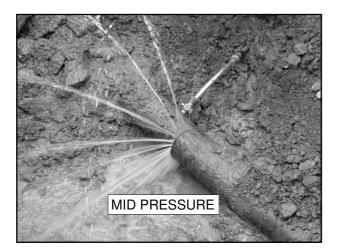
- "Ya But" barrier, don't do any thing different
- Lots of excuses not to implement concepts:
  - System designs, redundancy, minimum pressure, cost too much, no benefit, never needed it before
    Looping, fire flow, water quality, dead ends, blah...
- DMA can be installed throughout system:
- Assess candidate areas for implementation DMA & PMA: installed around the world to great benefit
- Even in fire flow designed systems

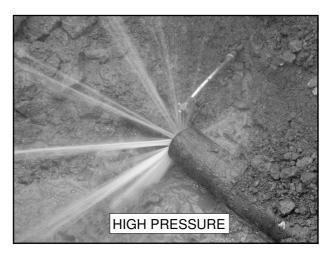
## Recognize barriers Nice Idea, But it won't work here...

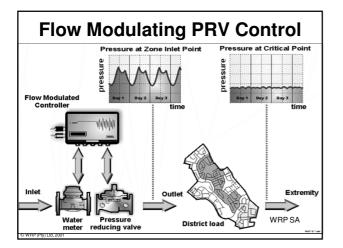
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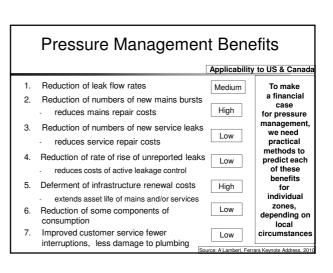


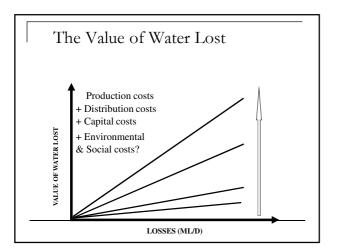


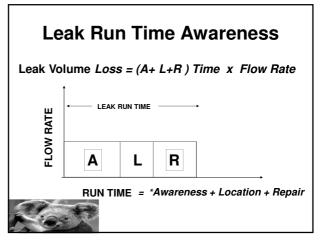


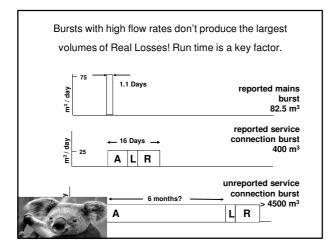






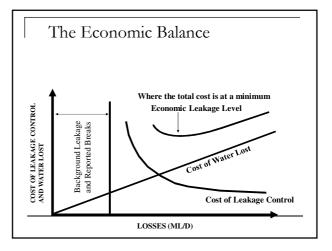


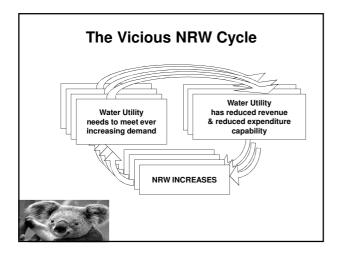


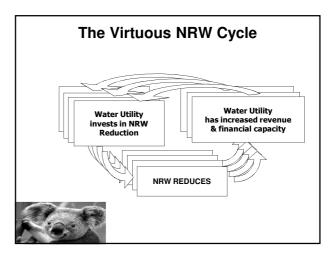




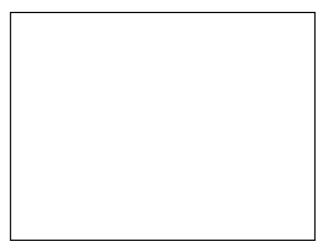


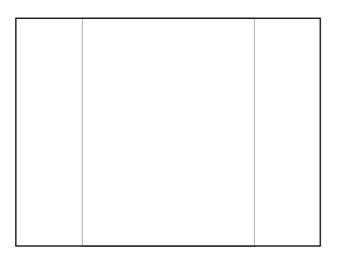


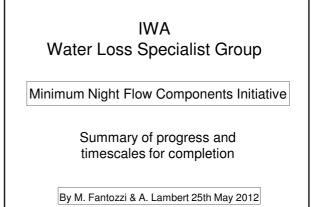


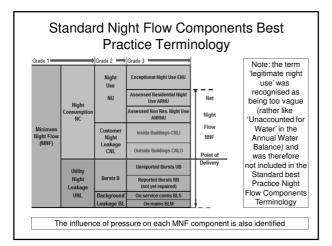


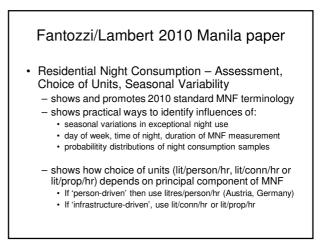












# **Remaining Deliverables**

- c) develop and propose guidelines on how to define when an approximate estimate is satisfactory and when further investigation is needed (depending mainly on night flow figures)
   use Grade 1 terminology, needs writing up in final report
- d) Investigate relationship between leakage and legitimate night
- use.
   recommend this is dropped from initiative, the term 'legitimate night leakage' is too vague, and there is no logical reason why there should be any such generally applicable relationship
- e) Develop a matrix which will be the basis for calculating night consumption under any operating regime in any geographical location
  - this can now be attempted in the final report using principles outlined in the Fantozzi/Lambert Manila 2010 paper.

IWA Water Loss Specialist Group Pressure Management Specialist Team Summary of progress and intentions for completion

By A. Lambert 12th April 2012

### Target Setting Initiative Progress at May 2012

Stuart Trow – <u>StuartTrow@hotmail.co.uk</u> David Pearson – daviddpc@btinternet.com

# Reasons for setting targets

- · To ensure efficient operations
- · To safeguard future water supplies
- For technical comparisons between organisations
- To demonstrate continuous improvement to customers and the general public
- To satisfy political considerations
- To meet regulatory requirements

