



*Maynilad*

*Implementing a Comprehensive-  
Computerized NRW Management System*

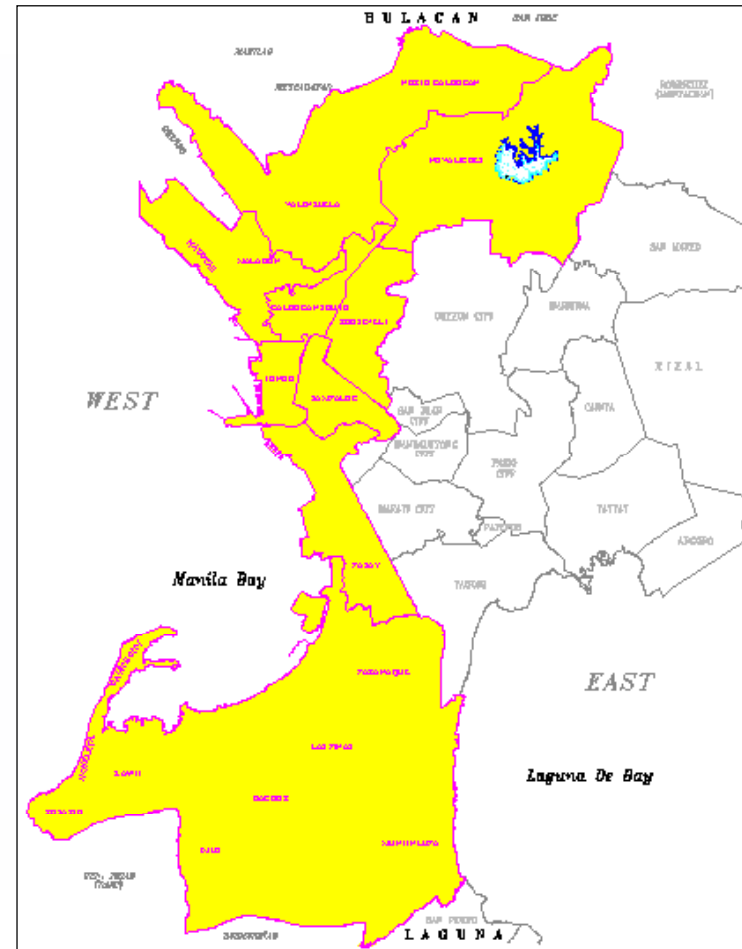
*Bangkal, Makati  
November 19, 2010*

*By RYAN B. JAMORA  
Maynilad Central NRW Mgt.  
Manila, Philippines*



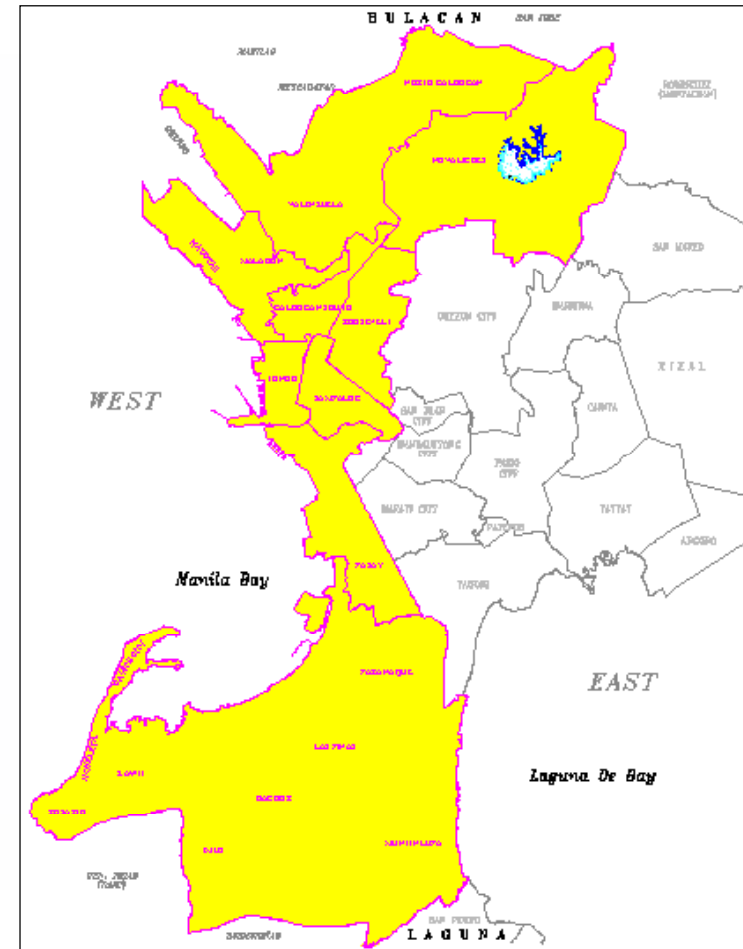
# Maynilad

- **Maynilad is the Philippine's largest water company**
- **Serves more than 6 million people ; with an area of 540 square kilometers**
- **Covers 12 cities in Metro Manila and 5 towns in Cavite**
- **Managed by DMCI-MPIC Water Company**

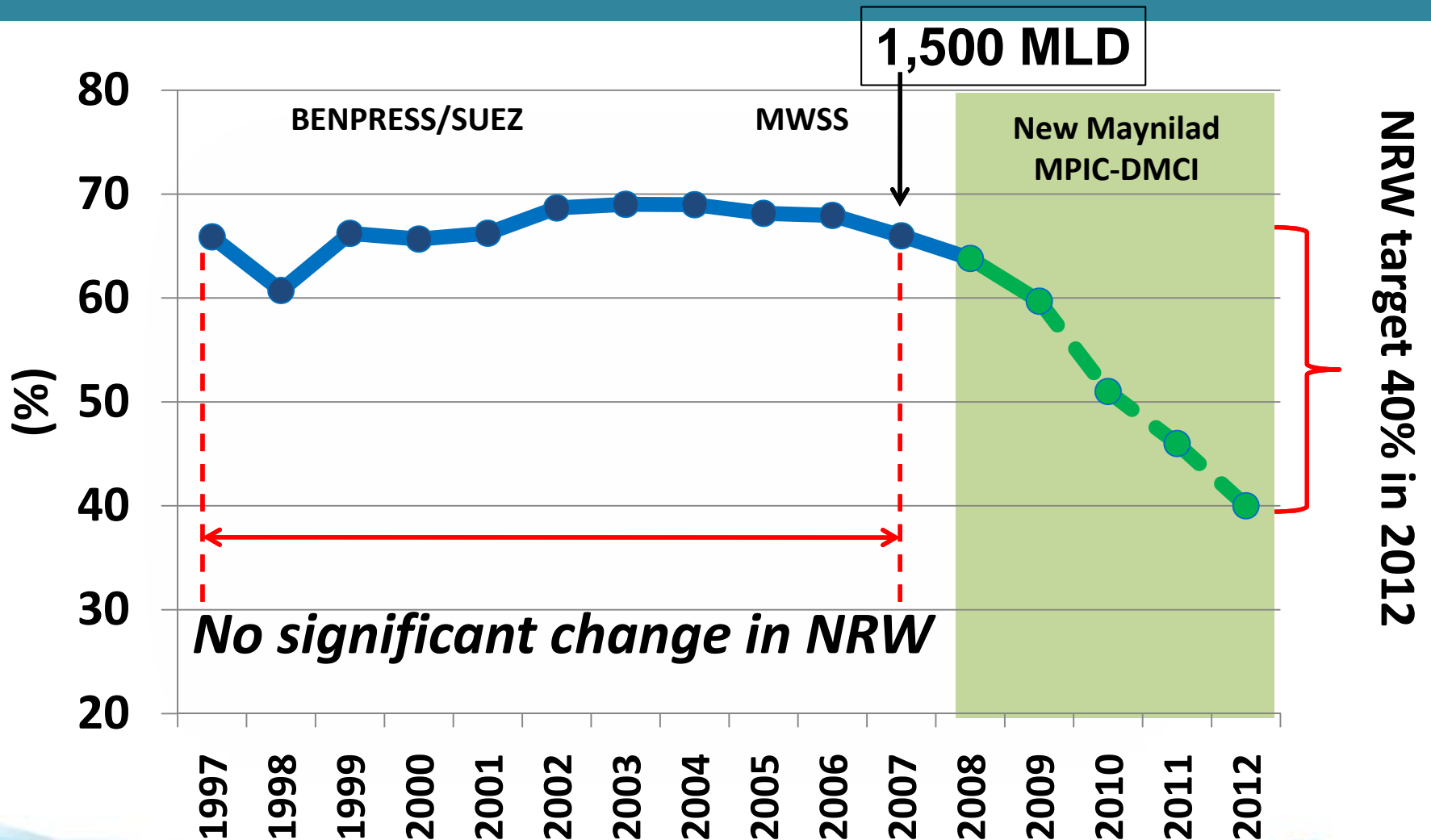


# 2009 Profile

<b>Treatment Plants</b>	<b>:</b>	<b>2</b>
<b>Ave. Supply (MLD)</b>	<b>:</b>	<b>2,425</b>
<b>Kilometer of Pipes</b>	<b>:</b>	<b>5,779</b>
<b>Pumping Stations</b>	<b>:</b>	<b>13</b>
<b>Reservoirs</b>	<b>:</b>	<b>16</b>
<b>No. of Customers</b>	<b>:</b>	<b>814,645</b>
<b>Supply Duration</b>	<b>:</b>	<b>21 Hrs</b>
<b>Average Pressure</b>	<b>:</b>	<b>7 M</b>
<b>No. of Employees</b>	<b>:</b>	<b>2,025</b>
<b>Ratio/1000 wsc</b>	<b>:</b>	<b>2.5</b>



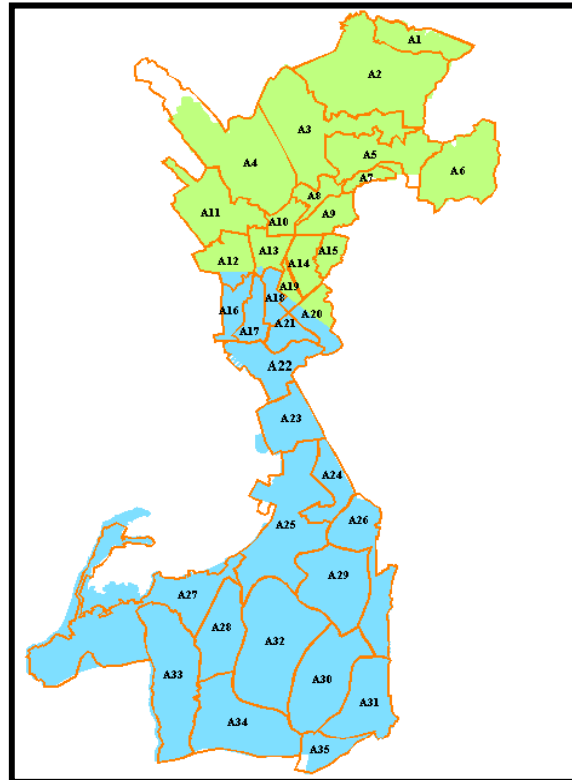
# NRW Management Program



# Key Strategy on NRW Management

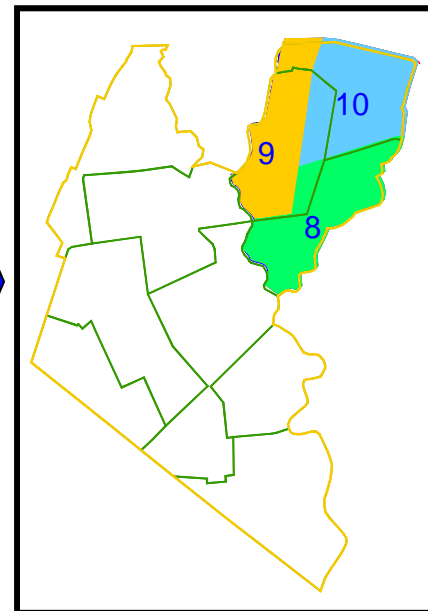
## Maynilad

**More than 1,000 monitoring points!!!**



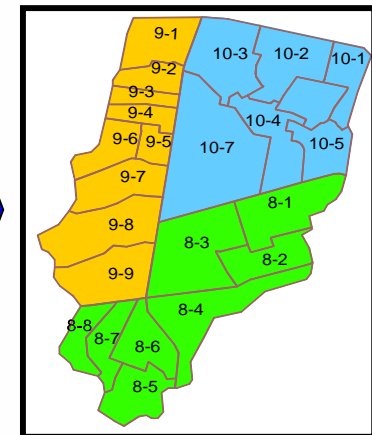
830,000 connections

## 35 Hydraulic Zones



20,000-50,000 connections

## 844DMAs



500-1,200 connections

**Each Zone and every DMA  
needs a comprehensive NRW assessment**



Maynilad

# NRW Assessment : Sample inputs

- Total daily inflow/ pressure measurements
- Night-flow measurements
- Leak reports
- On-going maintenance activities
- Consumption monitoring
- Asset location and condition

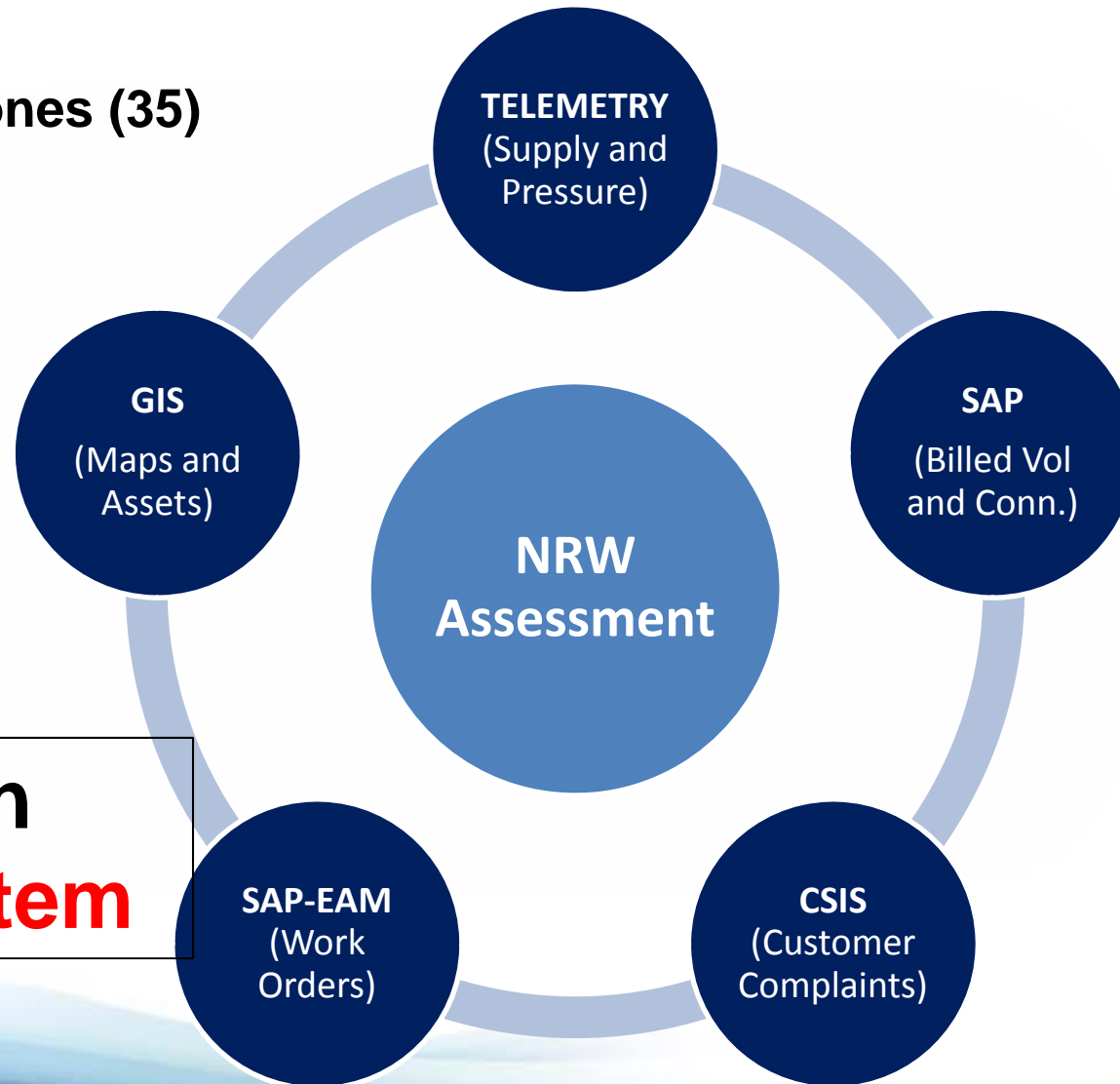
**Each Zone and every DMA,  
needs a comprehensive NRW assessment**



Municipal

# NRW Assessment : Comprehensive

- ✓ **Maynilad**
- ✓ **Hydraulic Zones (35)**
- ✓ **DMAs (844)**



**Integration  
into 1 system**

# Without Integration...



**You don't want this...  
Where do you start?**



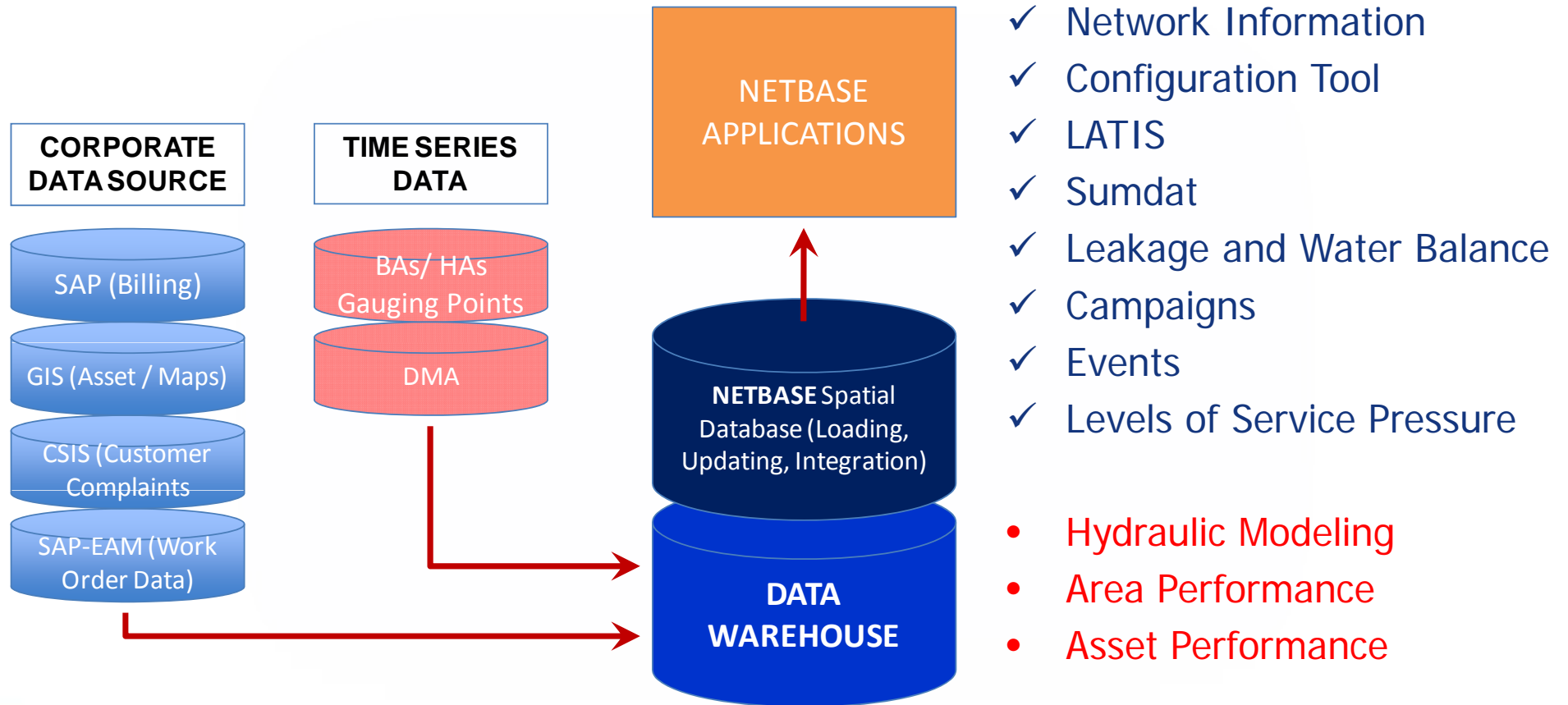
# When do you consider integration?

**“Every time you invest in a new system, or upgrade an existing one...think how you can later on integrate with others”**

# Shopping for solution

- SEEK ADVICE (Partner – **MIYA**)
- Short list potential providers
  - ❑ Visit actual implementation
- Review the science behind the system
- Return on investment
  - ❑ Direct and indirect cost and savings

# Maynilad – Miya : Netbase (Crowder)



# Output

- Improved operational efficiency
  - ✓ Faster response
  - ✓ Monitor progress and effectiveness of program
  - ✓ Accessible information to operations and management
- Long term : Sustainability of the program

# Maynilad experience : Implementation

- Infrastructure (Integration) : Outsourced locally  
**(e-PLDT)**
  - ✓ One system integrator = One responsible

# Maynilad experience : Implementation

- Data collection and loading:
  - ❑ GIS – significant changes (data and structure)
  - ❑ Telemetry – minimal changes
  - ❑ SAP – predominantly definition of data
  - ❑ CSIS/ SAP-EAM – data import

## To date...

- Undergoing training on Netbase
  - ✓ Seeing initial results from some DMAs
  - ✓ Other Department starts to appreciate the system
- Target to go-live by December (Pilot Areas)

Initial results...







Water Loss  
Specialist Group

# Water Loss 2012

Manila, Philippines

January 22-25, 2012

---

**The World's Largest Water Loss Conference**

---

Hosted jointly by:

Manila Water



*Maynilad*

For more details, visit [www.iwa-waterloss.org/2012](http://www.iwa-waterloss.org/2012)



*Maynilad*

*Thank you.*