

New Water Distribution Network



Introduction

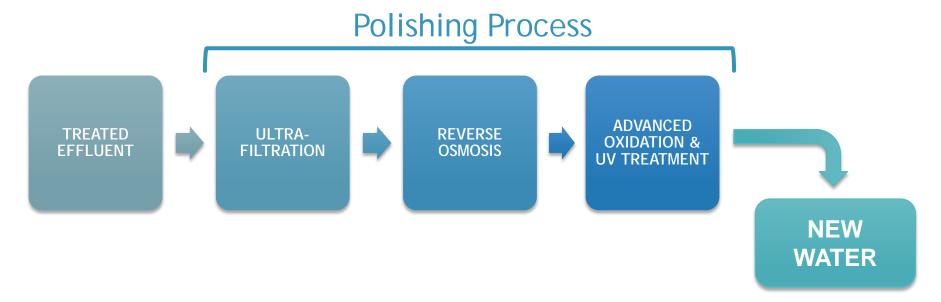
- ▶ What is New Water?
- ► What have we done up to now Project Phase I
- What we are planning to do Project Phase II
- Q & A time





What is New Water?

New Water



New water is produced from the polishing of treated waste water which has till now been treated to bathing quality and disposed of in the sea.



What is New Water?









Who can use New Water?

- New water will be classified as second class highly polished reclaimed water, or Non-Potable Water. As such its uses will be limited by law.
- ► Mainly recommended for agricultural irrigation and selected industrial usage.
- ► Applications will be analysed by a board prior to granting access to New Water.





Project Description

- ► Phase 1: 2007-2013 programming period
 - ►WSC invested in 3 polishing plants (2 in Malta and 1 in Gozo) to enable the production of 7 million m³ of highly polished reclaimed water for the use of industry and agriculture.
 - ► Currently one plant (Ċumnija North) is commissioned.
 - At this stage the delivery of the polished water is envisaged to be carried out by the use of water tankers from specific distribution points.





Phase 1 The 3 Treatment Plants

New Water



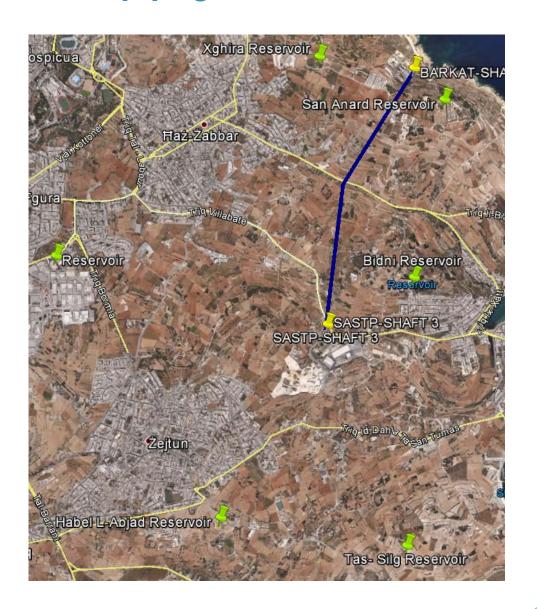
Phase 1 Main Supply - North

New Water





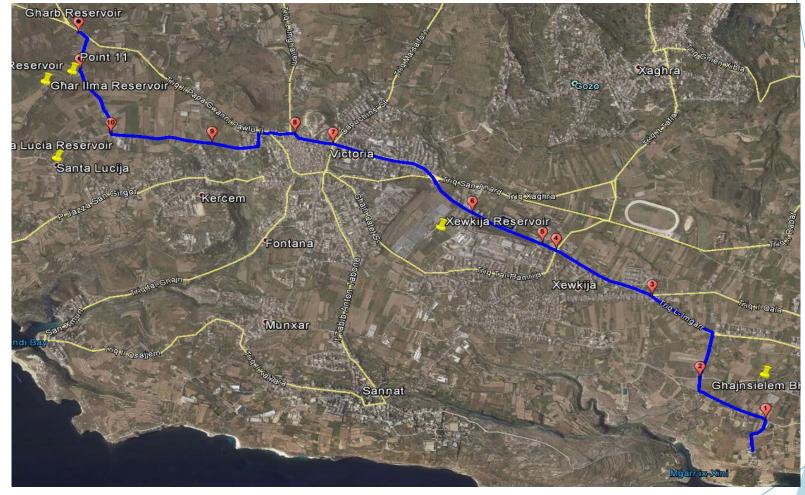
Phase 1 Main Supply - South







Phase 1 Main Supply - Gozo







Project Description

- ► Phase 2: 2014-2020 programming period
 - ► Distribution Network Gozo Region 8Km
 - ► Distribution Network North Region 16Km
 - ► Distribution Network South Region 30Km
 - ► Horizontal Directional Drilling (HDD) supplies to 3 South Reservoirs
 - Construction of new 6400m³ Reservoir in Gozo





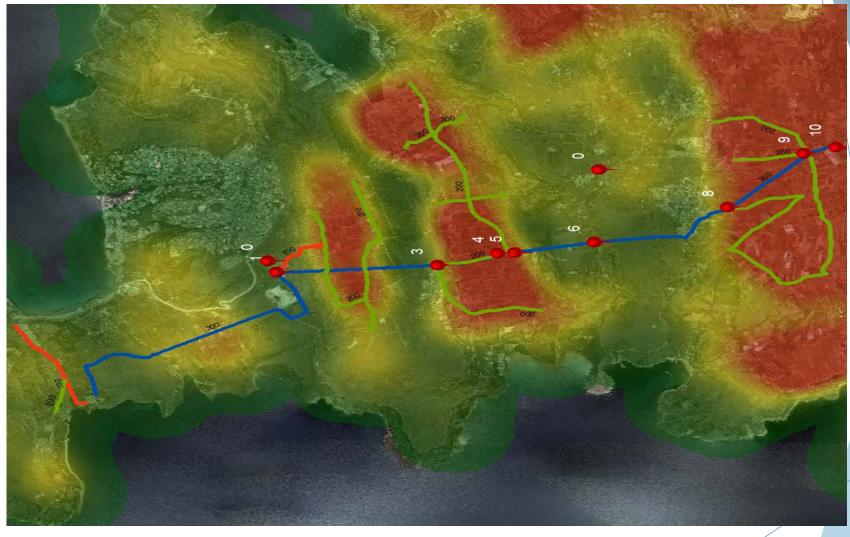
Agricultural Area to be Served

- ► In order to calculate the area required an annual consumption of 5000 m³/ha was considered.
- ▶ In view of this it is planned that:
 - ► Cumnija will serve 450 ha (North)
 - ► Barkat will serve 600ha (South)
 - ► Ras iI-Ħobż will serve 200 ha (Gozo)
- ► Total area served will be 1250 ha.





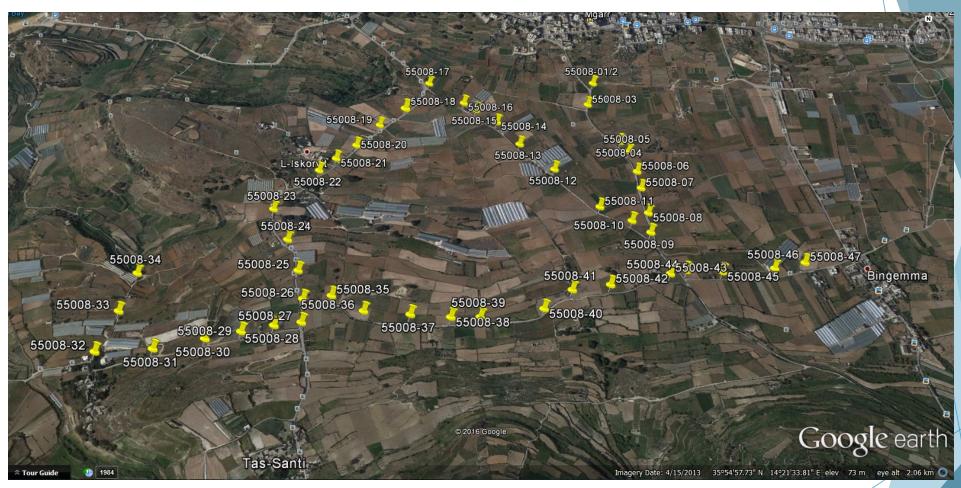
North Proposed Distribution Network







Phase 2 North Network - Bingemma







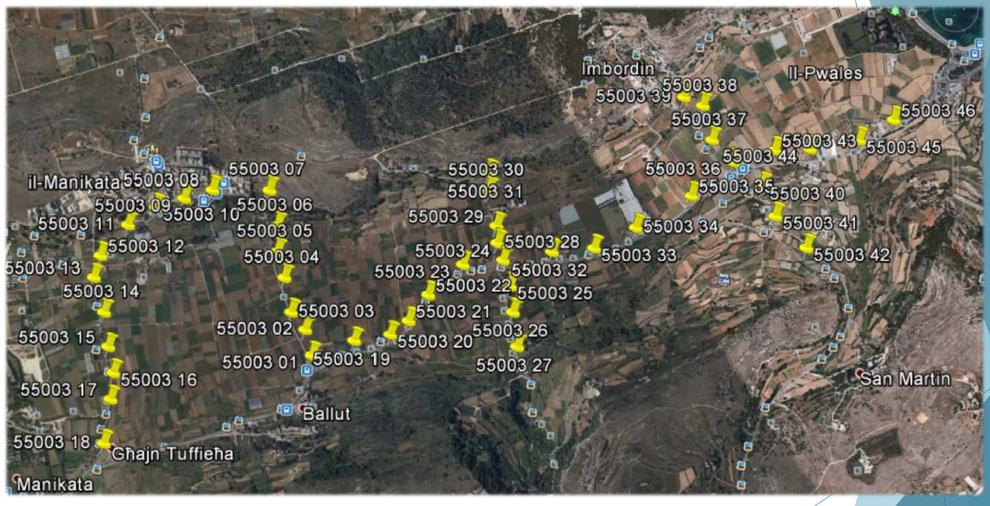
Phase 2 North Network - Mizieb







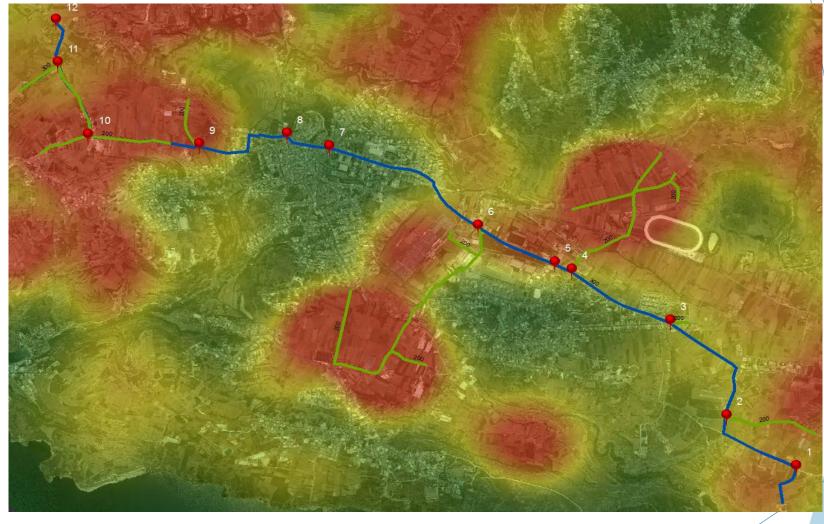
Phase 2 North Network - Pwales







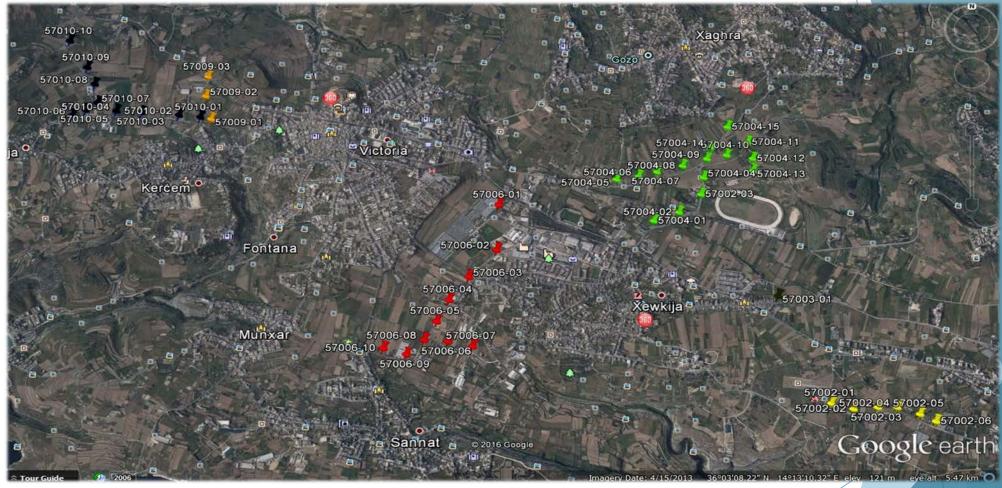
Gozo Proposed Distribution Network







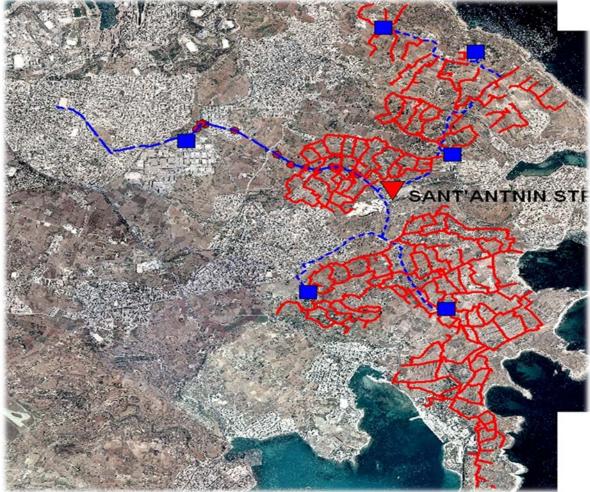
Phase 2 Gozo Network







South Existing Network



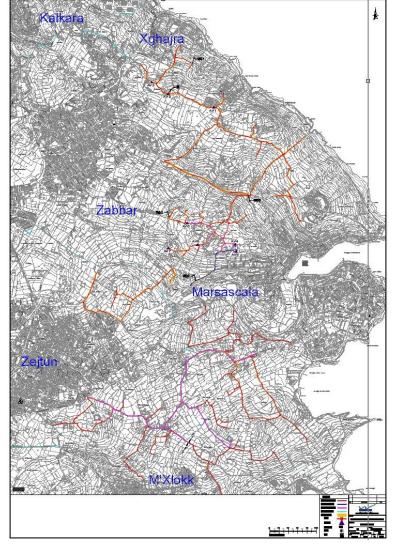


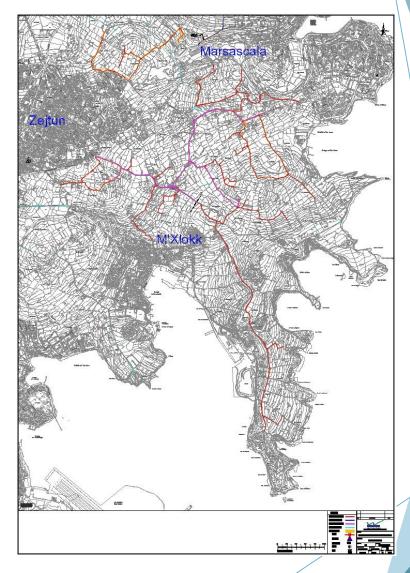






Phase 2 Proposed South Network









Prepaid Dispensing System



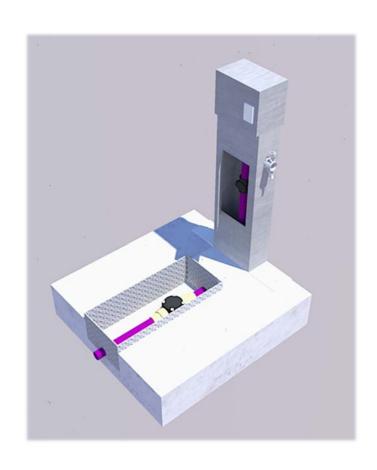








Phase 2 Water Dispensing Point









Phase 2 New Water Distribution Network

ACTIVITY COST (k€) Supply of Pipes, Trenching & Pipe laying **Route Options Analysis CBA + Fund Application** Permits TM/PA/ERA €10.3 M Tendering

	- -		
	D o	Route Options Analysis	
Sub Action 4	y HD voirs kat	CBA + Fund Application	€4.0 M
	Connection b South Reser Tal-Bar	Permits TM/PA/ERA	
		Tendering	
		HDD	

Trenching & Pipe Laying

Sub Action 5 Construction of Reservoir for New	najnsie 20	CBA + Fund Application PA/TM Permits Tendering Construction	€2.2 M
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PERIODS Q2 '16 Q3 '16 Q4 '16 Q1 '17	02 117 02 117	04 17	01 119	O2 '10	O2 !10	04 '18	01 '10	02 110	03 110	04 110	01/20	02 20	03 130	04 '20	01 21	02 21
Q2 16 Q3 16 Q4 16 Q1 17	Q2 17 Q3 17	Q4 17	Q1 18	Q2 18	Q3 18	Q4 18	Q1 19	Q2 19	Q3 19	Q4 19	QI /20	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Q3 20	Q4 20	QI ZI	Q2 21
			1/2													



Advantages of Using New Water

- ► High quality of water much better than Ground Water
- ► Reduce dependence on Ground Water Less over-abstraction
- ► Improvement in Ground Water over the long term







Thank You



