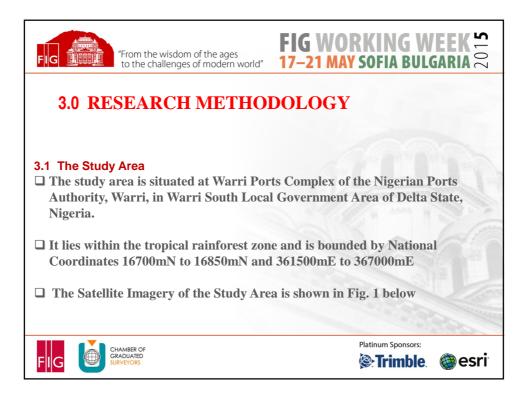
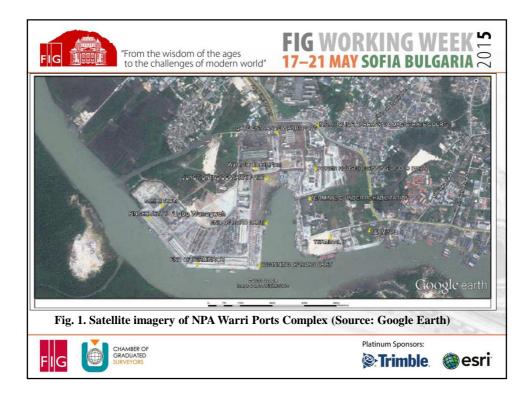
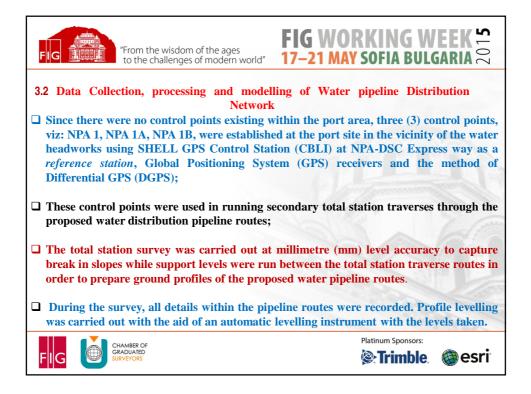
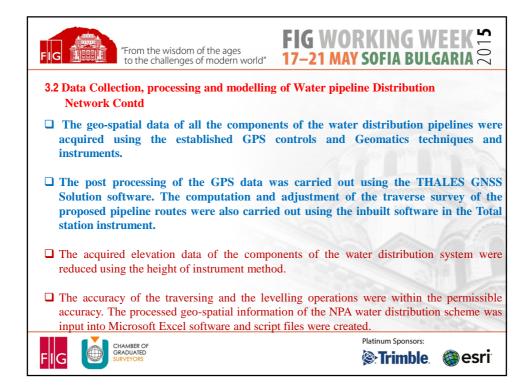


FIG	From the wisdom of the ages to the challenges of modern world"	FIG WORKING WEEK		
2.0 LIT	ERATURE REVI	EW CONTD		
-		tem and Modelling purposes (Walski et al, 2003)		
Component	Type of Network Modelling Element	Primary modelling purpose		
Reservoir	Node	Provides water to the system		
Pipe	Link	Conveys water from one node to another		
Pump	Node	Raises the hydraulic grade to overcome elevation differences and friction losses.		
Storage Tank	Node	Stores excess water within the system and releases that water at times of high usage.		
Junction	Node	Removes (demand) or adds (inflow) water from/to the system.		
Valve	Node or Link	Controls flow or pressure in the system based on specified criteria		
GRA	MBER OF DUATED CETORS	Platinum Sponsors:		









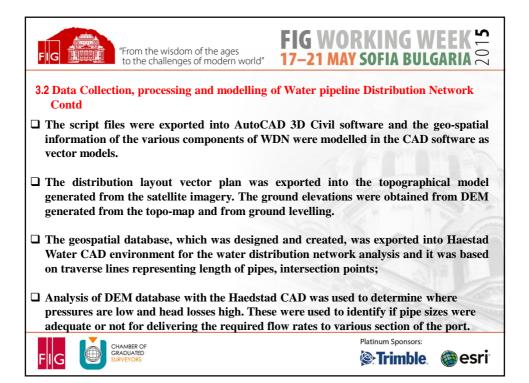


FIG #From the wisdom of the ages to the challenges of modern world"			es n world" 17–	FIG WORKING WEEK 17–21 MAY SOFIA BULGARIA 2		
	4.0 RESULTS AND DISCUSSION Table 2: WGS 84 Coordinates of the GPS Reference stations in Minna Datum and Established Controls at NPA site					
Station ID	East (m)	North (m)	Height (orthometric) (m)			
CBL 1	376 194.180	166 859.940	4.270			
NPA 1	366 330.062	168 055.404	3.008			
NPA 1A	366 238.369	168 133.840	2.589			
NPA 1B	366 441.071	168 058.694	2.440			
FIG	CHAMBER OF GRADUATED SURVEYORS			Platinum Sponsors: Trimble. @esri		

	eo-spatial in	formation and	d the Estimate	ed Borehole Capac	ity in the Stu	dy Area
Borehole (BH)	Service Area	Coordinat Easting (m)	tes Northing (m)	Status/ Proposed work	Proposed Yield (m ³ /hr)	Proposed Yield (m ³ /day)
BH1	New Port	366 097.259	168050.883	NF/Reactivation	70 m ³ /hr	1400 m ³ /day
BH2	New Port	366 033.392	168029.223	NF/Reactivation	70 m ³ /hr	1400 m ³ /day
BH3	New Port	366 455.782	167 992.213	NF/Reactivation	70 m ³ /hr	1400 m ³ /day
BH4	New Port (Standby)	366 027.041	168139.879	New Construction	70 m ³ /hr	1400 m ³ /day
BH5	Old Port (Standby)	366 767.493	167 493.883	New Construction	70 m ³ /hr	1400 m ³ /day

Table 4 Attri	"From the wisdom of to the challenges of bute information t ribution pipeline	of the components of I	WORKING MAY SOFIA BU	
System Component	Pipe Material	Pipe Diameter	Hazen – Williams factor (C)	Deign Period (years)
Transmission pipes	uPVC	200mm	140-150	30
Distribution Pipes	uPVC	250mm (Mains 200mm (Sub- mains)	140-150	30
Distribution system Appurtenance	Gate valves, Er Hydrants	nd cap, Washout valves,	Air relief valves,	Water metres and
GR	IAMBER OF RADUATED RVEYORS		Platinum Sponsor	

