

Think Infrastructure Partnerships



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PRESENTATION

IDA Panel Discussion

Direction of TE Reuse



UNDER THE PATRONAGE OF THE EGYPTIAN PRIME MINISTER

11TH WATER DESALINATION CONFERENCE IN THE ARAB COUNTRIES

UNDER THE THEME: NATIONALIZATION OF DESALINATION INDUSTRY IN THE ARAB WORLD

18- 19 April 2017

INTERCONTINENTAL CITY STARS - CAIRO - ARAB REPUBLIC OF EGYPT



Date

18 April 2017



Location

ARWADEX conference
– Intercontinental City
– CAIRO, EGYPT



Presenter

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BESIX
Concessions & Assets^{v1.0}



Water

- Demand in the GCC & ME
 - Limited water resources
 - Inefficient use of TE
 - Deteriorating Groundwater
 - Weak regulatory framework



- BESIX Owned/Managed Assets produce 35% of UAE TE

- Reuse options
 - Recreational
 - Irrigation
 - Agriculture
 - Industrial
 - Domestic
 - Potable (through aquifer storage/recharge)





- Public Private Partnership- BESIX-Gov't of Ajman -VEOLIA
- 250 km of sewers, 22 pumping stations, WWTP and TDF
- 25 years operations & maintenance (incl. customer service)
- Operator – Moalajah – achieved major power savings and;
- Reliable TE quality -61.000 m3/day :
 - BOD: 1mg/l
 - TSS: 4 mg/l
 - Turbidity: 5 NTU
- Expanding Reuse for Irrigation and Industrial/Commercial

SAFI OPERATIONS

Safi



SAFI

DOES IT WORK?





- Project structure: trailblazer in the region- 600 tankers per day.
- Global Water Summit 2012 – Rome:
Distinction Award “Water Reuse Project of the Year 2012”
- Reliability and quality assurance- ISO 9001:2015 certified
- Financially feasible:
 - Capex and Opex funded by income from selling “polished water”
 - No recourse to direct subsidies from central bodies...thus really guaranteeing its sustainability on the long run!
- Collaboration & support - Ajman Municipality Environmental Dept



SAFI

NOT DRINKING WATER REUSE

- Safi  SAFI water for:
- Non-potable use in labour camps
 - Customers with single tank

Safi  Council of Leading Islamic scholars (CLIS) of Saudi Arabia (1978)

“[...] considered as pure water [...] if its treatment using advanced technical procedures is capable of removing its impurities with regard to taste, color and smell [...]”

Safi  Fatwa, UAE (2013)

“[...] water [from SAFI] can be used for washing and for wodo'o”

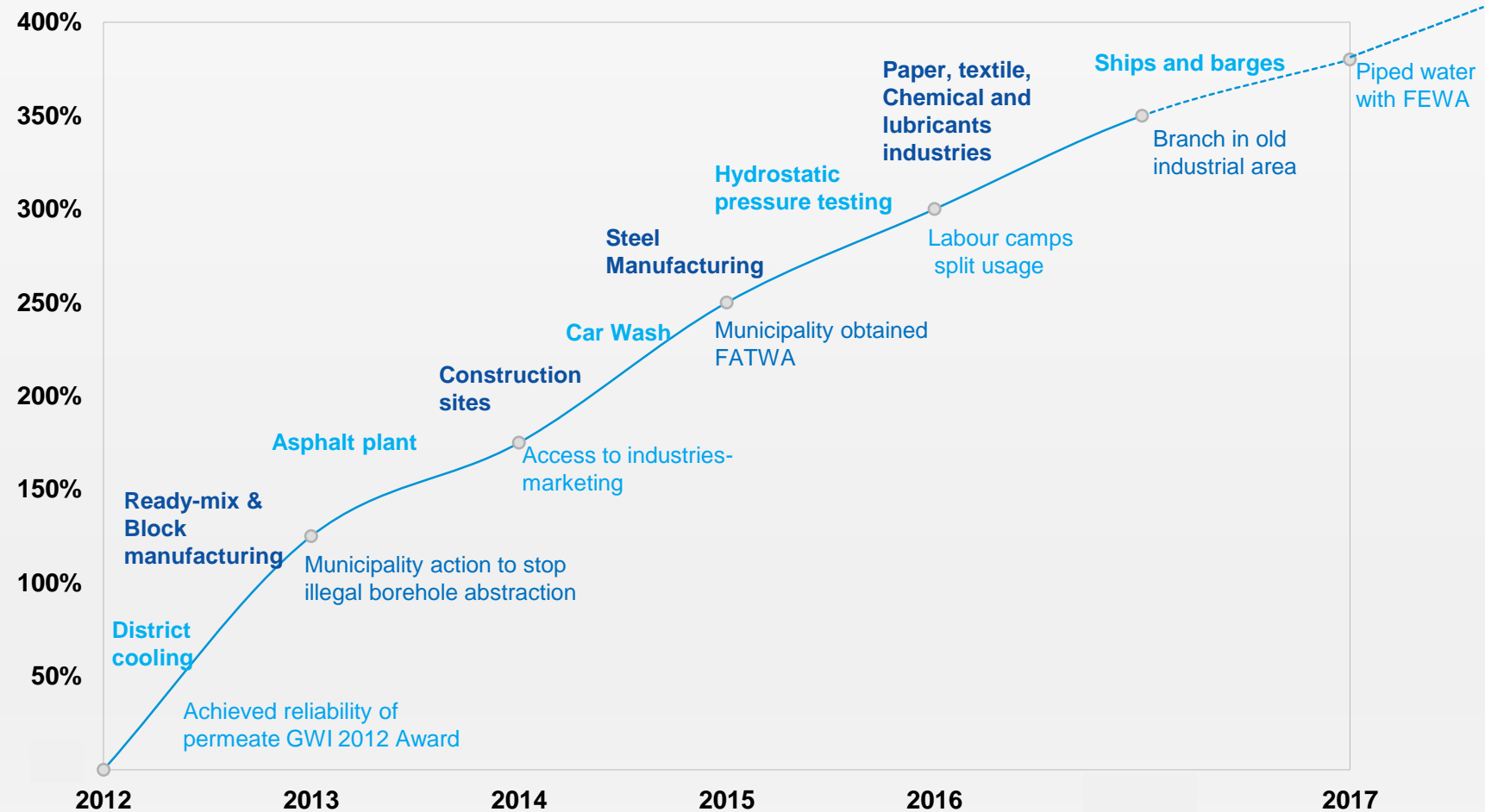
Safi  Ensure that water is not used for drinking



المهينة العامة للشؤون الإسلامية والأوقاف
GENERAL AUTHORITY OF ISLAMIC AFFAIRS & ENDOWMENTS



Drivers of Safi Growth



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**THANK
YOU**

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