



IDRIS : INNER DOHA RESEWERAGE IMPLEMENTATION STRATEGY A World Class Sewage Solution For Doha



Jud Joyner- Programme Director

ConsMa 2017



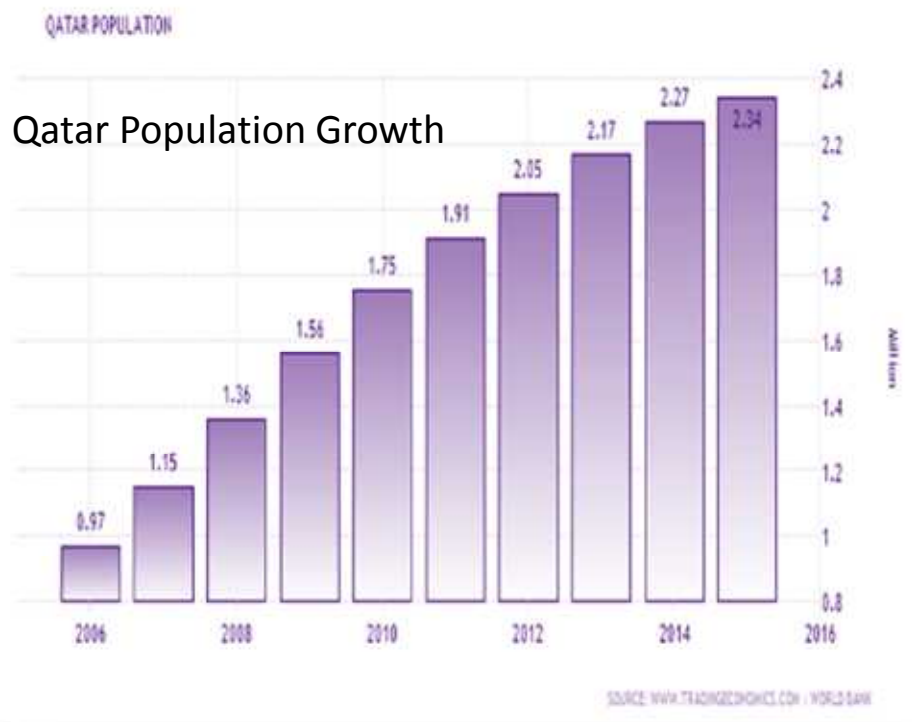
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SM

WHAT I WILL PRESENT

- A BIT ABOUT DOHA
- THE NEED - WHY IDRIS
- THE SOLUTION
- OUR DELIVERY – UNIQUE AND INNOVATIVE
- PROGRESS SO FAR



A BIT ABOUT DOHA



In Middle East Gulf

Tremendous population
growth in only 10 years

Doha Then and Now



Doha West Bay - 1980

Doha West Bay- Today



Doha The Future

FIFA 2022 World Cup



Doha Metro System



Doha Expressways



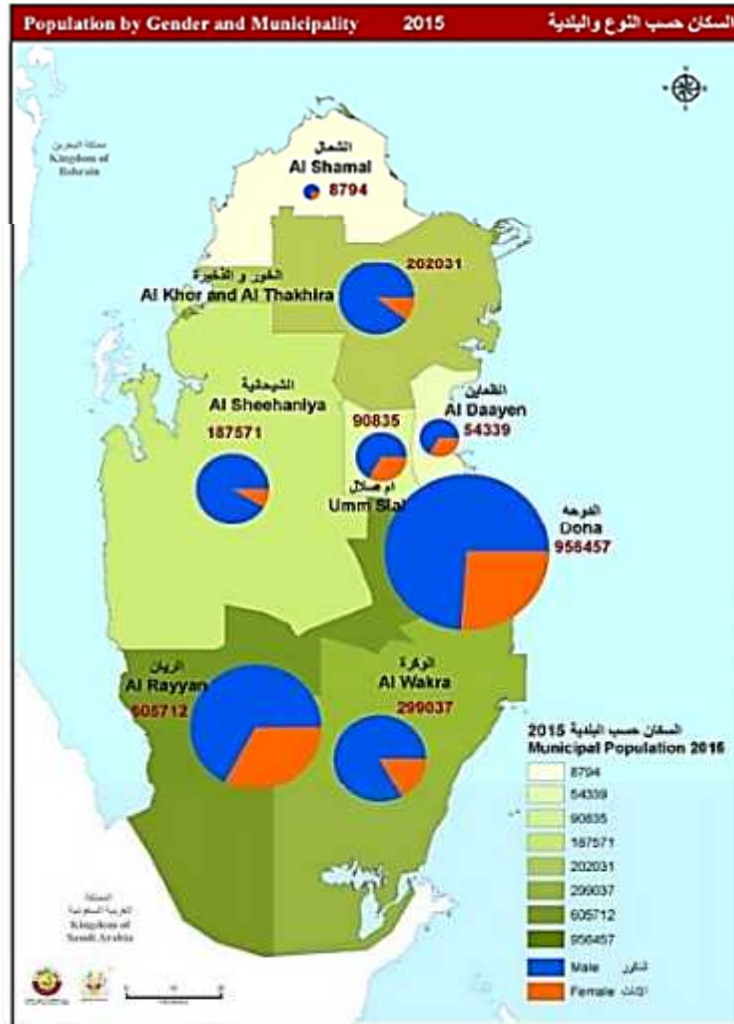
New International Airport



WHY IDRIS ?

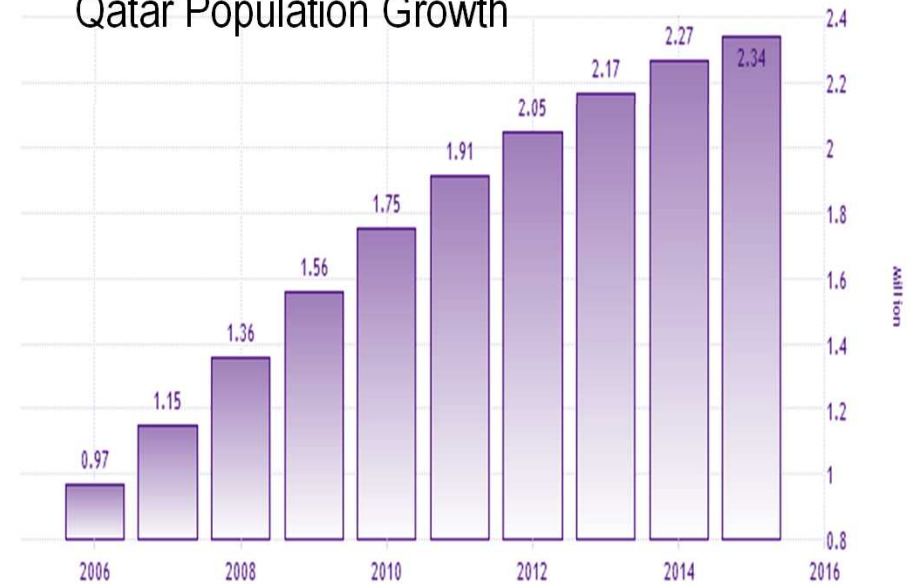


SUPPORTING POPULATION GROWTH...



QATAR POPULATION

Qatar Population Growth



SOURCE: WWW.TRADINGECONOMICS.COM | WORLD BANK

South Doha forecasted to grow from 600,000 to 1.5 million
By 2030

Occasional Sewage Flooding in Doha



AGING SEWERAGE INFRASTRUCTURE....



**30 Pumping Stations to
be decommissioned**

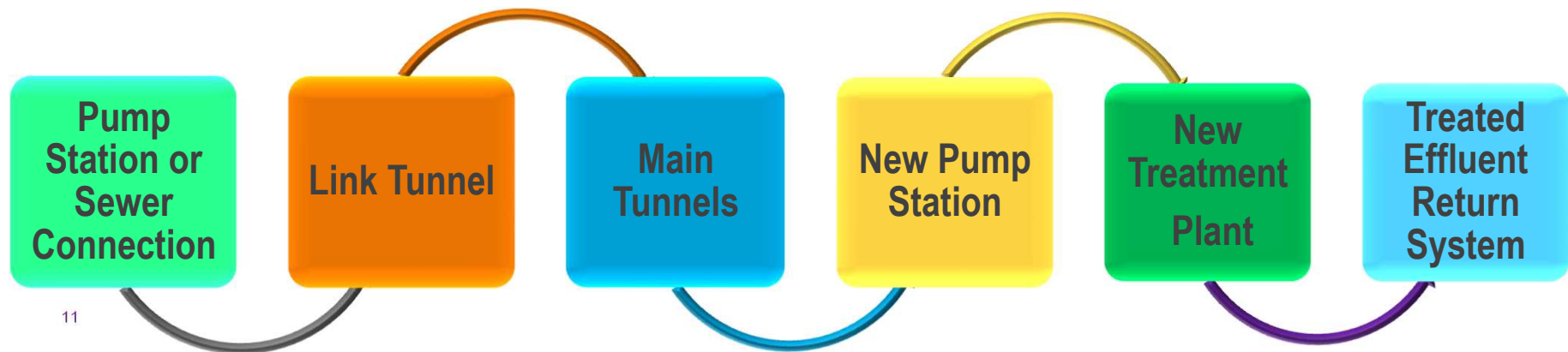
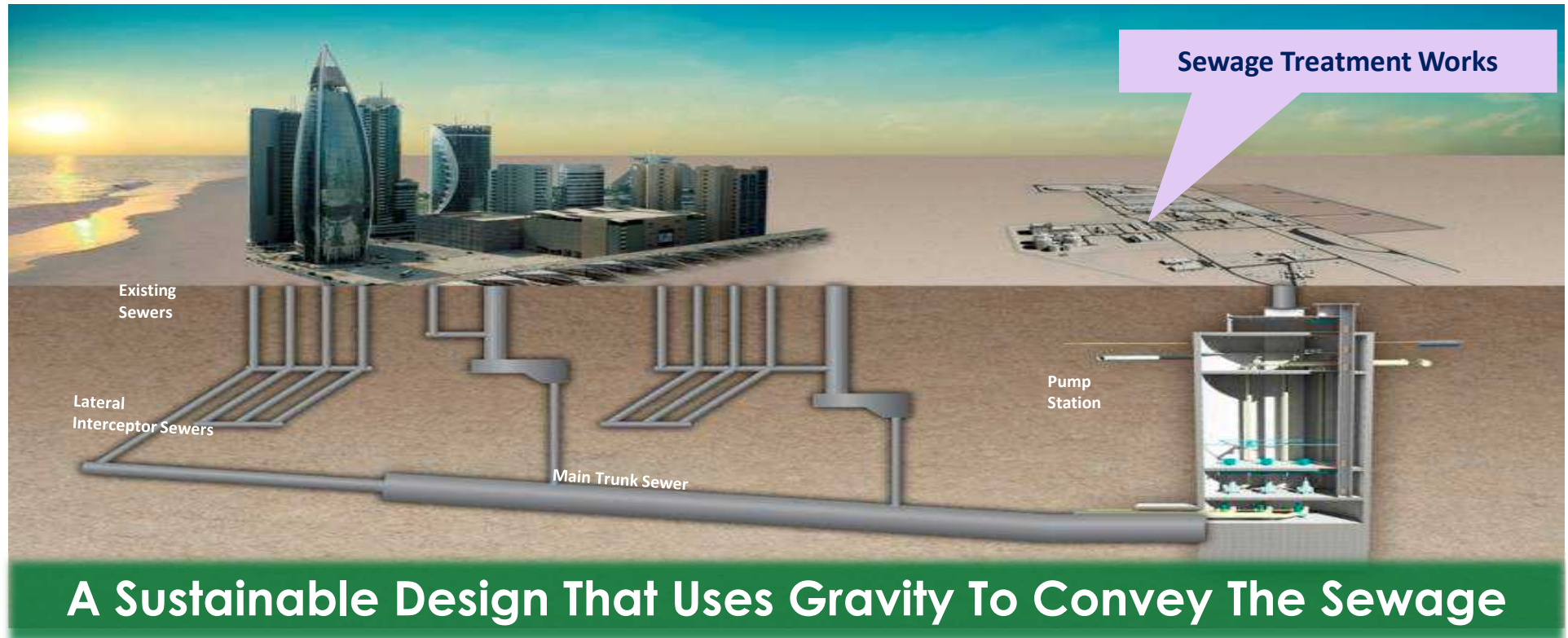


**Doha South STW operating
since 1980**

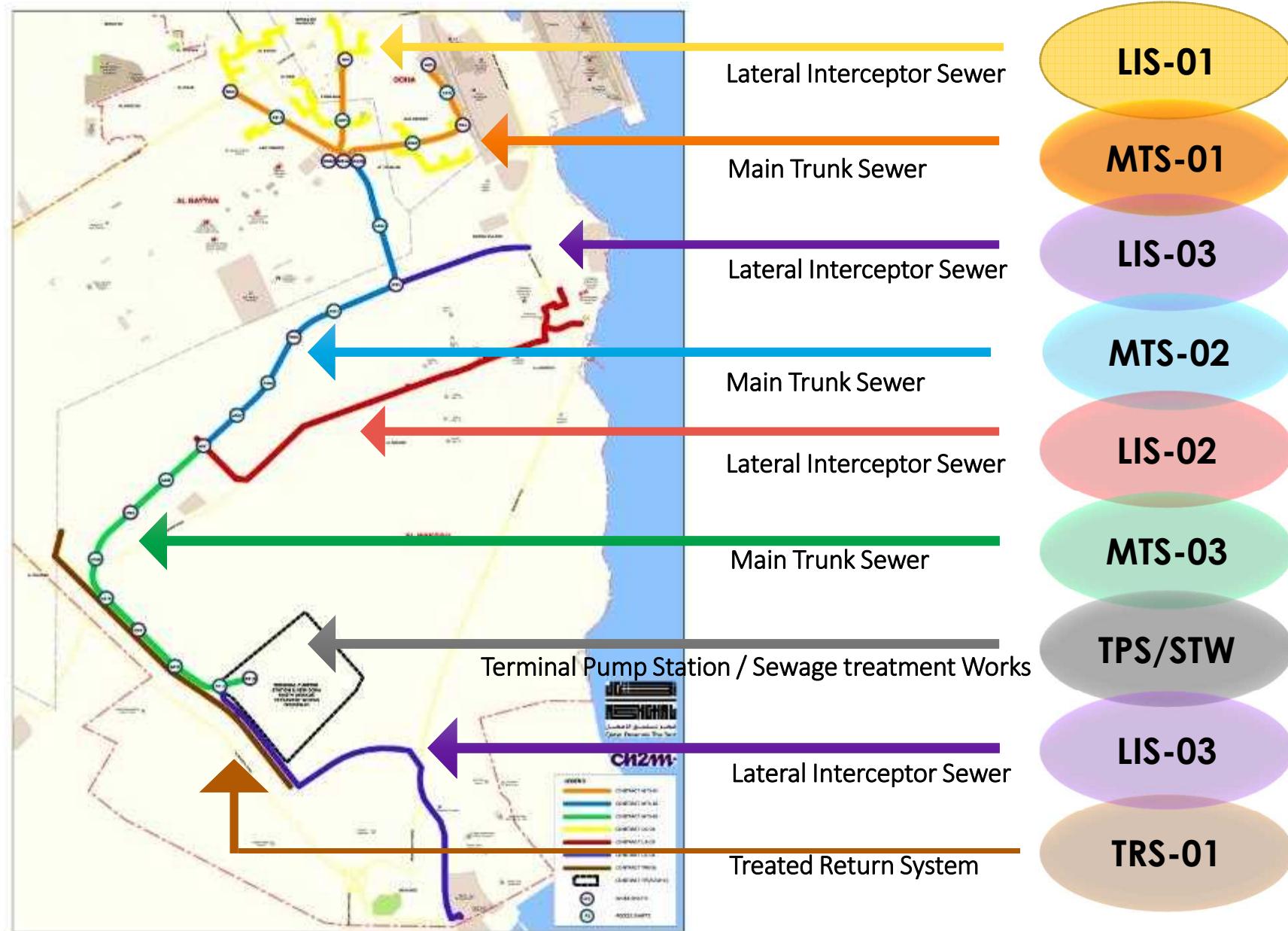
A purple-tinted image of a spiral staircase, viewed from above, creating a strong sense of depth and rotation. The text "THE SOLUTION....." is overlaid in the center in a bold, white, sans-serif font.

THE SOLUTION.....

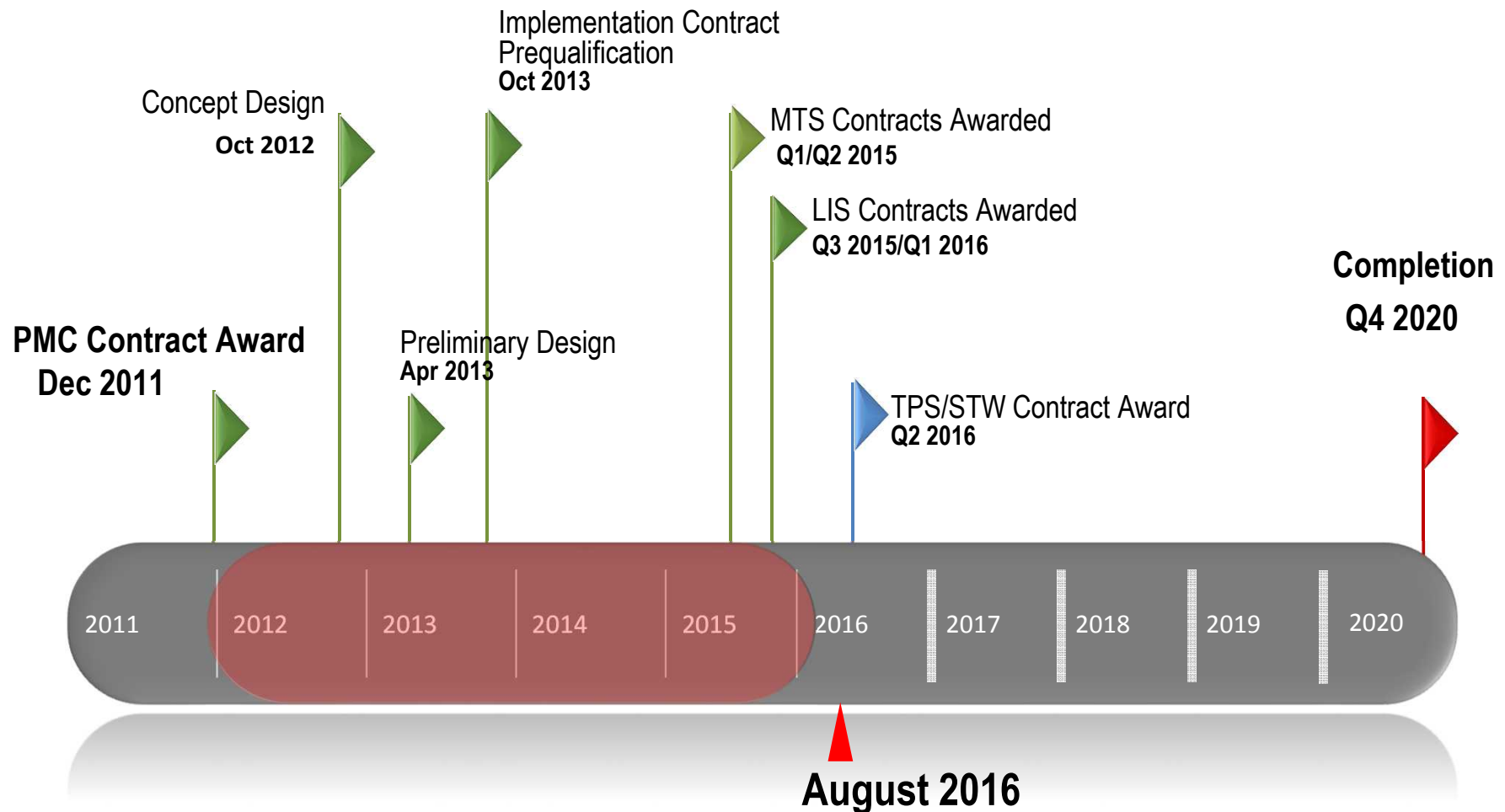
IDRIS COMPONENTS



4 Packages – 8 Contracts



IDRIS TIMELINE - PLAN





However...

**The 2016 Oil Price Crisis
Forced Client to Defer Major
Portion of IDRIS**

IDRIS Reduced to 2 Contracts



Lateral Interceptor Sewer

LIS-01

Main Trunk Sewer

MTS-01

Lateral Interceptor Sewer

~~LIS-03~~

Main Trunk Sewer

~~MTS-02~~

Lateral Interceptor Sewer

~~LIS-02~~

Main Trunk Sewer

~~MTS-03~~

Terminal Pump Station / Sewage treatment Works

~~TPS/STW~~

Lateral Interceptor Sewer

~~LIS-03~~

Treated Return System

~~TRS-01~~

Main Trunk Sewer (MTS) 01

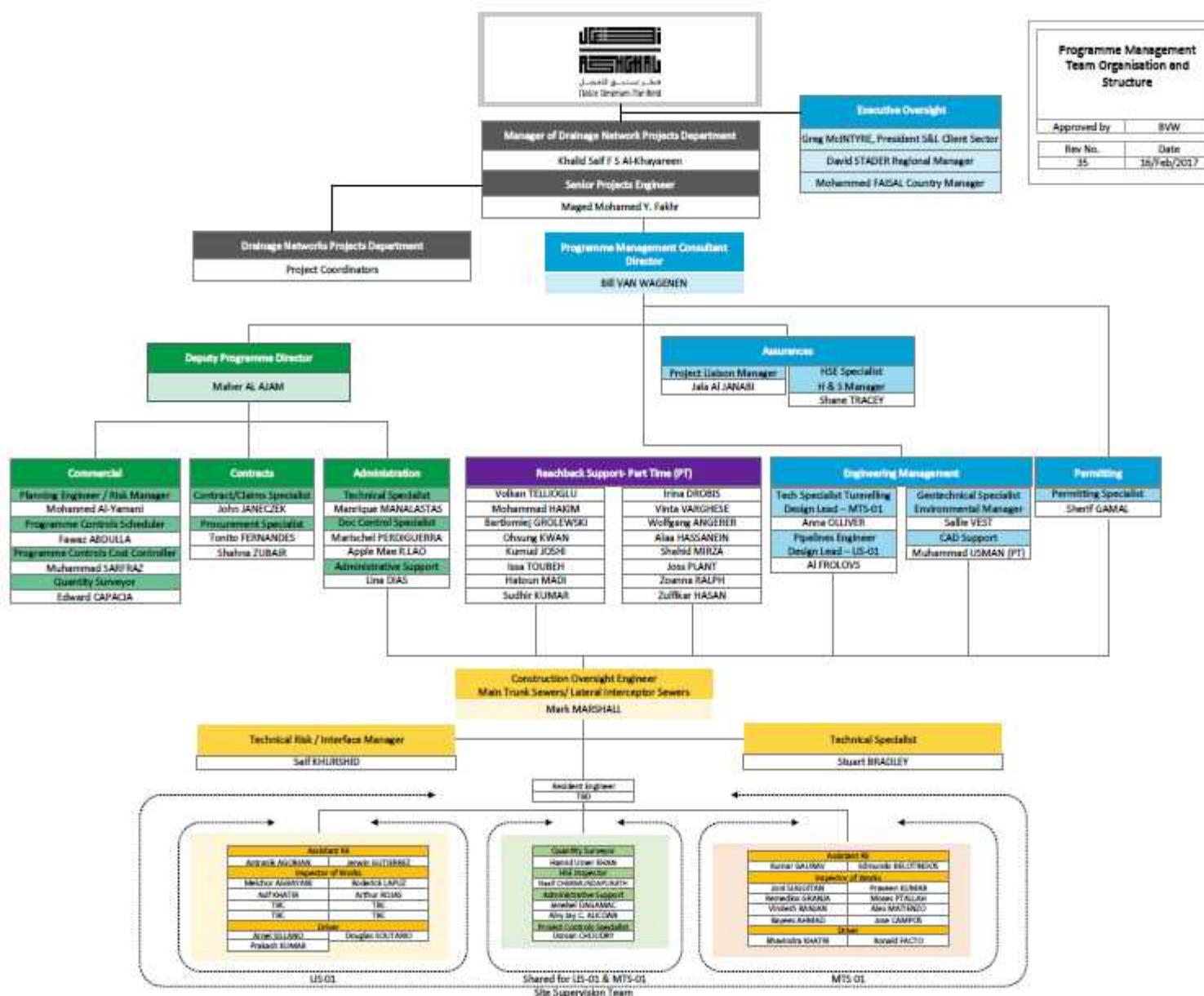


Description	Name	Contract No.	Contract Value (QAR)	Commencement Date	Anticipated Completion Date
Design and Construction of Main Trunk Sewer (MTS-01)	Bouygues-UCC Joint Venture	C 2015/69	964,669,220	02 Aug 2015	02 Feb 2019

Lateral Interceptor Sewer (LIS) 01



Description	Name	Contract No.	Contract Value (QAR)	Commencement Date	Anticipated Completion Date
Design and Construction of Lateral Interceptor Sewers (LIS-01)	QTCG/MSF-Joint Venture	C 2016/53	1,084,607,299	18 Sep 2016	15 Feb 2020



INTEGRATED DOCUMENT MANAGEMENT SYSTEM

SINGLE SYSTEM SHARED BY ALL PARTIES

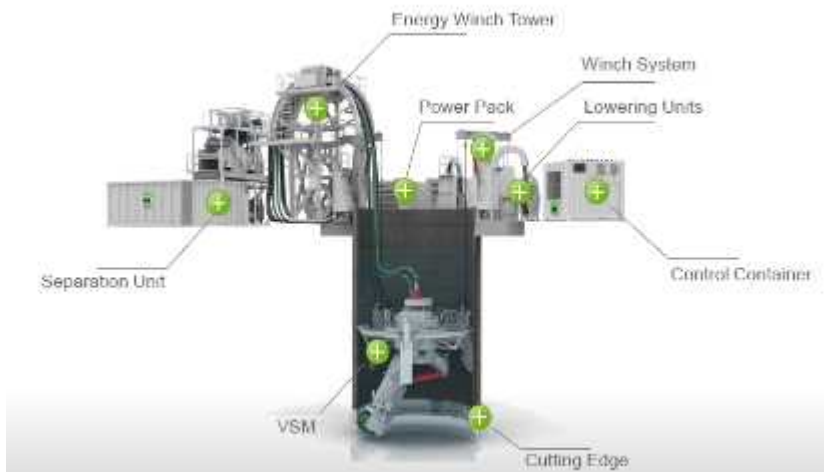




INNOVATIVE TECHNOLOGIES INTRODUCED

Vertical Shaft Sinking Machine (VSM) Safer, Faster, Quieter

Description of machinery equipment.



Integrated Tunnel Precast Segments

- Primary, Secondary and HDPE Lining Precast Together
- Fiber Reinforced Concrete
- Improved Quality
- Safer Installation



Typical 3m dia. Tunnel Ring – HDPE membrane installed and welded at the inner face

All done in Contractor Precast Factory

Highest Standards for Safety, Welfare and Environmental Protection

- Workers Live in High Quality Facilities

CEEQUAL Environmental Rating System
First Time Used in GCC



Evaporating Cooling Bandana

- Workers wets every three hours
- Reduces temperature by up to 10°C

A purple-tinted photograph of a tunnel with a person walking away in the distance. The text "Progress To Date" is overlaid in the center.

Progress To Date

Main Tunnelling Underway with 2 TBMs



TBM 1 Launch

NATM Gallery Excavation



TBM 1 Drive



Main Shaft Works Well Advanced



VSM Shaft Excavation Started



Main Tunnel Drive
Shafts Completed



Lateral Interceptor Sewer Micro-Tunnelling Set-Up

MTBM Control Room



MTBM Launch Frame

THANK YOU

