Truly remote and smart

Dubai Municipality and SYSCOM

Uzma Qureshi, SYSCOM | Mohammed Binghalib, Binghalib Group
ABOUT

THE SOLUTION PARTNER

SYSCOM – BINGHALIB GROUP OF COMPANIES, UAE
Welcome to Binghalib Group of Companies
Since 1982
CORPORATE MANAGEMENT STRUCTURE

Flat Structure, Standardized across all companies

<table>
<thead>
<tr>
<th>STAFF</th>
<th>DIRECTOR HR</th>
<th>DIRECTOR FINANCE</th>
<th>DIRECTOR ENGINEERING</th>
<th>CLO-Central Logistics</th>
<th>MARKETING</th>
<th>ERP</th>
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<th>ENGINEERING</th>
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<tbody>
<tr>
<td>✓ Engineering design/solutions</td>
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<tr>
<td>✓ Sales order Finalizations</td>
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<tr>
<td>✓ R&amp;D - Group</td>
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<tr>
<th>HR</th>
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<tr>
<td>✓ Human Resource Management</td>
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<td>✓ Vehicle Management</td>
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<tr>
<td>✓ Inhouse finance/funding</td>
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<table>
<thead>
<tr>
<th>FINANCE</th>
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<tbody>
<tr>
<td>✓ Overall Finance and accounts</td>
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<tr>
<td>✓ Feasibilities for new ventures</td>
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<tr>
<td>✓ Inhouse fund management</td>
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<tr>
<th>CORPORATE STRATEGY</th>
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<tr>
<td>✓ Strategy planning</td>
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<tr>
<td>✓ Change Management</td>
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<tr>
<td>✓ Process Optimization</td>
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<td>✓ New Business Development</td>
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<tr>
<th>AI/BI</th>
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<tr>
<td>✓ SMART automated process/product/facility</td>
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<td>✓ 4IR</td>
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<tr>
<td>✓ Automation</td>
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<tr>
<td>✓ Development(SW)</td>
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<tr>
<td>✓ Business Intelligence/analysis</td>
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<tr>
<td>✓ Engineering innovation</td>
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<tr>
<td>✓ Design/build</td>
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<tr>
<td>✓ Development</td>
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20% Retained Earnings

100% Inhouse team

Online, Automated

MEDIA |
| Group Media and website requirements |
| Online News Portal |
| Online Org Chart etc. |

QUALITY |
| Procedures & Forms |
| Reporting |
| Audit/Inspection & testing |

100% Inhouse team

CLO |
| Complete logistics and purchase planning for the group |
| Overall inventory management |

Central – for Entire Group-Automated

INHOUSE FINANCE |
| Funds Management |
| Internal Financing |
ELECTRICAL AUTOMATION MECHANICAL SOFTWARE

DOMAIN EXPERTISE/KNOWLEDGE

INDUSTRY 4.0
>80% AUTOMATED-
PROCESS SYSTEMS
FACILITIES
PROCEDURES
SOFTWARE DEVELOPMENT

ALL THE WAY FROM APPS, TO SOFTWARE DEVELOPMENT, FIRMWARE CODING, 3D CAM, SIMULATION, TO:

• OUR OWN RADIO COMMUNICATION DEVICE
• OUR OWN SATELLITE 2021
➢ **Turnkey Solution Provider** in the field of Industrial Automation and Process Control

➢ First in UAE and Middle East to implement IoT concepts 15 years ago

➢ One of first to implement AUGMENTED REALITY for switchgear/panels/industry

➢ Open System integration with over 35 years of experience with any Make/OEM

➢ Certified System Integrator and Authorized Distributors for all major Automation OEMs

➢ **Complete scope**: Design, Engineering, Panel Manufacturing, Commissioning, Hand-Over
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SEGMENTS / SECTORS

WATER / WASTE WATER
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INDUSTRIAL AUTOMATION

SPECIALIZED APPLICATIONS

AI based Condition Monitoring for motors, generators etc

Backup Solution for All Assets, complying to Cybersecurity

Cybersecurity, SL2- SL4, Firewall, Network Intrusion Detection, NMS, etc

Interactive Online Reporting integrated with SCADA – first in region

Water Network Mgmt. / hydraulic modelling, pressure optimisation
ABOUT

THE CLIENT

DUBAI MUNICIPALITY
Dubai Municipality is one of the largest governmental institutions in the United Arab Emirates (UAE), it is considered as one of Dubai’s leading growth and development institutions in terms of its smart projects and services.

Over the years, Dubai Municipality has proven its excellence in managing the tasks and responsibilities entrusted to it, as it currently runs four specialized agencies and two sectors, and has contributed to making Dubai among the world’s most advanced and sustainable cities. Dubai Municipality has also managed to expand and grow in carrying out its responsibilities through 40 departments and 172 sections within an organizational structure that includes quality and excellence offices and the efforts of more than 11,000 employees and workers.
In implementation of the decision of the UAE Vice President, Prime Minister and Ruler of Dubai His Highness Sheikh Mohammed bin Rashid Al Maktoum, and in line with the Dubai Strategic Plan 2020, Dubai Municipality invested in automation of all pumping stations and Sewerage treatment plants to manage the network across Dubai city.

In line with Sheikh Mohammed’s vision of smart city.
FOR GREEN DUBAI

AL AWIR STP

39M $ AED144m ($39m) investment

260,000 m³ /DAY plant’s capacity 260,000 m³ a day

4 sludge pumps 4 x 12 m³/h

4 x 12 m³/h

20 Pre-sedimentation tanks

16 Aeration tanks

12 Large diameter clarifiers

100,000 tons of water from one treatment unit to the other, 24/7, all year long.

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100,000 tons of water from one treatment unit to the other, 24/7, all year long.
JEBEL ALI STP-1

LARGEST PLANT
One of the largest Treatment Plants

700M L/DAY
Cut back the use of costly desalinated

77 Tank clusters and buildings structures

16 Aeration tanks

20 Pre-sedimentation tanks

375,000 tons of water from one treatment unit to the other, 24/7, all year long.

FOR GREEN DUBAI
LARGEST PLANT
One of the largest Treatment Plants

700M L /DAY
Cut back the use of costly desalinated

77 Tank clusters and buildings structures

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12 Large diameter clarifiers

375,000 tons of water from one treatment unit to the other, 24/7, all year long.
THE COMPLEX NETWORK

- >15 MAIN PUMPING STATIONS
- >100 SUBSIDIARY PUMPING STATIONS
- >45 STORMWATER PUMPING STATIONS
- >3 LARGE STPS
- >50 MANHOLE MONITORING
- >85 IRRIGATION PUMPING STATIONS
- >250 IRRIGATION CHAMBERS
- 5M METERS PIPELINE
Objectives

Not just a SCADA

- A Central **Command** center
- Not just monitoring, but **Control**
- Decision making and Commands in **Critical or Emergency** situations
- **Instant** Data at fingertips
- **Right Decisions** at the **Right Time**
- Navigation with **LEAST amount of clicks/screens**
Dubai has indeed become a global hub known for its multicultural luxury lifestyle and attractions. The city's visionary development and infrastructure have attracted people from around the world. Dubai Municipality plays a crucial role in ensuring the safety and cleanliness of the environment for both residents and visitors. Their commitment to enhancing and maintaining these standards contributes to the city's appeal and continued growth.

1. 2007: Old SCADA with manual Callout
2. 2019: Planned to Built SPF
3. 2020: Introduced SPF
4. Reporting: Dream Report

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SCADA KPI

Central Command Control SCADA achieving their target on Steps.

01 System Availability
High availability, continuous monitoring and control of processes

02 Response Time
User commands & provide real-time data

03 Data Accuracy
Accurate data collection, displaying to take Decisions and ensuring process reliability.

04 Data Security
Monitoring and measuring security measures

05 Network Performance
Supporting the SCADA system to ensure data reliability and low latency

By Hafiz Aziz
NOT JUST A SCADA, BUT A COMMAND CENTER

TRULY REMOTE AND SMART

UZMA QURESHI

MOHAMMED BINGHALIB
Dubai Municipality increases visibility, improves production by 21%, and saves USD 2million per day

**Challenge**

- Integration of different stations from more than 10 different OEMs and manufacturers into a single platform with intelligence and analytics to manage complete infrastructure
- Collating data from geographically dispersed assets across the water value chain
- Missed data/critical alarms in communication failures
- Large network spread across the city, with high demand in water

**Solution**

- Designed and implemented AVEVA™ System Platform along with various other AVEVA products, to provide a system that is scalable, flexible and has capability of future enhancements without major infrastructure changes, providing measurements/KPI for outputs as per strategic plans of the City and Country

**Results**

- Developed, designed and configured system to manage hundreds of site remotely and provide predictive data, analysis and monitoring and control by increasing productivity and efficiency by 21%
- Enhanced operations by reducing the maintenance costs
- Managing total savings of USD $2 million per day through reuse of the water
CHALLENGES
Challenges

Managing Large Networks

• Lack of central monitoring of entire Network – STPs, Sewerage Stations, Irrigation

• Largest number of different OEMs in several pumping stations

• Integration of all these into a single platform with intelligence and analytics

• Standardizing 100s of sites by selecting the right protocol to manage and control remote sites

• Maintenance of sites with manual data gatherings

• Biosolids treatment, reuse and disposal

• Water discharge to environment and reuse
### Solution
Remote and Smart – in True Sense!

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<tr>
<th>Solution</th>
<th>why</th>
<th>how</th>
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<tr>
<td>Central Monitoring of all Stations</td>
<td>Important actions at the RIGHT TIME</td>
<td><strong>AVEVA™ System Platform</strong></td>
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<tr>
<td>LARGE VIDEOWALL (thinnest bezel in world -0.8mm)</td>
<td>Visualize Multiple Sites/Screens at one shot</td>
<td><strong>OMI functionality</strong></td>
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<tr>
<td>Access Control systems</td>
<td>Manage access to REMOTE sites, safety/security, manhole monitoring</td>
<td><strong>Integration</strong> with Access Control System</td>
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<tr>
<td>Redundant Communication (up to triple redundancy in media)</td>
<td>Large # remote sites, Desert harsh environment, Communication interference</td>
<td>- ADSL(broadband), M2M and Satellite</td>
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<td>- <strong>DNP3</strong> – <strong>AVEVA telemetry Server</strong></td>
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<td>Totally Secure</td>
<td>M2m private network control, remote sites</td>
<td>- Firewall with built-in communication</td>
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<td>- Camera/CCTV <strong>integration</strong></td>
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<td>Upgrade all Control Systems – max cost effectiveness</td>
<td>Standardize on DNP3 protocol Compatibility with AVEVA</td>
<td>- Least investment – Site modification with new RTUs instead of replacing entire system</td>
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<td>- PLC upgrades/modification in logic</td>
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### Solution

Remote and Smart – in True Sense!

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| Geographical Information System with Document Management etc. | • Digitize all the data with live coordinates for Optimized Maintenance  
• Region wise control and monitoring  
• Region wise decisions and analytics | GI Size                                  |
| Maximum data in a SINGLE CLICK                | • Control in Emergency Situation  
• Monitoring with least navigation                                         | Customized Libraries, symbols, templates |
| Live and Interactive Reporting                | Reduce Maintenance reporting Costs (manually)  
Right decision at Right time  
Access to all levels with no dependencies | • AVEVA™ Historian Insight - dashboards  
• PBI – extensive fault analysis with visualization |
SECURED NETWORK

• EACH AND EVERY REMOTE SITE WAS CONNECTED TO THE CENTRAL MONITORING SYSTEM AND COMMAND CENTRE, VIA FIREWALLS INTEGRATED WITH M2M, SATELLITE AS WELL AS ADSL CONNECTIONS (SECURED PRIVATE NETWORK), ALL IN ONE FOR TRIPLE REDUNDANCY

• ONE OF THE MOST UNIQUE SOLUTIONS IMPLEMENTED THROUGHOUT THE REGION

• BETA TESTING OF FIREWALLS WITH FORTINET AND CONTRIBUTION TO THE PRODUCT ENHANCEMENT
DS150/2 - INTEGRATED CONTROL SYSTEM - SCADA - PUMPING STATION - Y

Diagram showing connections between FW1, FW2, ESW1, ESW2, New RTU Panel, Scada Pack RTU, Modbus Serial, PS X1, Broadband Connection Primary, Satellite Connection Backup.
Implementation Strategy

No missing critical alarms

- Implementation of DNP3 protocol in all sites ensuring timestamp of 1ms and backfilling of trends in case of communication failure from remote sites
• REDUNDANT IO SERVER
• REDUNDANT APPLICATION SERVER
• GR SERVER RED NODE
• REDUNDANT TELEMETRY SERVER
• AVEVA™ HISTORIAN
• 6X2 OPERATOR WORKSTATIONS
One-Click: Entire Network critical parameters LIVE!
8 PARAMETERS IN 1 SINGLE SYMBOL

- ALL LEVELS
- INFLOW
- OUTFLOW
- PUMP STATUS
- TIMESTAMP OF VALUE
- EXACTLY WHICH PUMP ON/FAULT/STOP
- TANK PARTITION BOTH LEVELS
- LEVEL GAUGE
- STATION NAME
- FAULT/ALARM STATUS
- # OF PUMPS
CUSTOMIZED GRAPHICS

- SPECIAL SYMBOLS CUSTOMIZED AND CREATED WITHIN THE SYSTEM PLATFORM LIBRARY WHICH WEREN’T EXISTING

- CREATIVELY DESIGNED SPECIALLY TO GET MIN OF 10 PARAMETERS STATUS ON ONE ICON ALLOWING COMPRESSION OF THE VISUALISATIONS INTO REDUCED SCREENS

- DASHBOARD CONCEPT = AVEVA™ PI SYSTEM / LIBRARY FOR DASHBOARD WAS NOT EXTENSIVE
More than 50 screens compressed into 2 screens

NO CHANCE OF MISSING ANY CRITICAL DATA/ALARM
- # of PUMPS RUNNING
- # of MIXERS RUNNING
- # of AERATOR RUNNING
- GAUGE INDICATION-LEVEL
- PPM
- P&ID ICON TO UNDERSTAND EASILY
OMI FUNCTIONALITY

• VISUALIZE SEVERAL SCREENS AND DATA AT ONE GO

• CONFIGURE BASED ON OPERATOR ROLE
All parameters, Alarms etc. on single screen

If any alarm or critical conditions happen, can be missed due to OVERLAPPING of info and lack of space in single screen

Conventional pop ups

Navigation to other data and screens

LOCAL SCADA

Central Command Center
Benefits of OMI

4 Monitors - Automatic Screen Config based on operator log on
Enough Space for POPUPS – Not overlapping
CRITICAL ALARM MANAGEMENT

- COMPLETELY CUSTOMIZED USING SCRIPT
- DEVELOPED TRACING TO THE MOST DETAIL
Highest critical Alarms pop on every single OPEN screen
Special customized scripts done to achieve this
THERE WAS A NEED FOR MORE TO OPTIMIZE THE OVERALL MONITORING OF THE COMPLETE CITY

- EXACT LOCATIONS
- NETWORK
- REGIONS
- SUBSIDIARIES CONNECTED
- PIPELINES
- DRAWINGS/DOCUMENTATIONS
COMPLETE INTERACTIVE REPORTS VISIBILITY AND ALERTS ARE CONFIGURED USING THE INSIGHT INTEGRATING TO THE HISTORIAN

ONLINE LIVE TRENDS

DASHBOARDS
Critical Data from Anywhere, Anytime

Browser based dashboards
LIVE INTERACTIVE MANAGEMENT REPORTING

- INTEGRATION OF POWER BI
- TO ADD SOME EXTRA INTERACTIVE EDGE TO THE ENTIRE SOLUTION FOR THE SENIOR MOST MANAGEMENT, AVEVA HISTORIAN WAS UTILIZED TO TRANSFER DATA LIVE TO POWER BI
- SCRIPTS/QUERIES, FOR EASY CUSTOMIZED LIVE INTERACTIVE FAULT ANALYSIS
- ADVANCED ANALYTICS

* PI SYSTEM WAS NOT PART OF AVEVA THEN!
Live interactive reports

INSTANT REPORTS @ FINGERTIPS
WHY AVEVA?

• OPEN software solution
• Vendor – independent
• Powerful Application – Customizable engineering easily
• seamless integration with all add-ons
• OMI functionality
• Powerful historian and Telemetry Server for DNP3
GOAL/FUTURE

• The Command Center is regularly upgraded each year by integrating min 50 new sites per year along with existing sites upgraded. Approx more than 400 Pumping stations and several DCS, several thousands of irrigation sites will be connected over the course of coming years.

• While the Command Center Visualization is enhanced regularly, the optimization phase for future features will begin:
  
  • **Workforce integration**: AVEVA™ Work Tasks (previously Wonderware Skelta)
  
  • **Operator monitoring/scheduling**: AVEVA™ Mobile Operator (previously IntelaTrac)
  
  • **Asset performance management**: AVEVA™ Asset Performance Management
  
  • **Water network optimisation**: EcoStruxure™ Water Cycle Advisor – Water Simulation (formerly AQUIS)
Marketing is the study and management of exchange relationships. Marketing is the business process of creating relationships with and satisfying customers.

**SCADA Planning 2023**

- **Irrigation SCADA**
  - All Irrigation sites migration

- **SERVER Upgrade**
  - SSD and RAM
  - SSD size increment

- **01**
  - 32 PS integration
  - Critical out of Communication Sites

- **02**
  - Sewage Network
  - Valve Automation

- **04**
  - Upgrade
  - 2017 to 2023
  - AVEVA System Platform

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Future improvement
Hydraulic molding along with AI implementation

01 Initiation
All sites connection

02 Waste To Energy
Man less operation & Control

03 Installation
FLOW, PMU and Data

04 Networking
With all DM Sites Data Handshake

05 AI
Artificial Intelligence control

By Hafiz Aziz

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Dubai Municipality, represented by the Sewerage Treatment Plants and Drainage Network Department, won the first place in the International Water Reuse and Recycling Award, organized by the International Desalination Association. The Jebel Ali Sewage Treatment Plant Expansion Project (Phase 2) won the award in the Exceptional Utility Leader category.

https://www.dm.gov.ae/2020/10/05/remote-control-room-launched-at-jebel-ali-sewage-treatment-plant/

https://www.dm.gov.ae/2022/01/06/dubai-municipality-wins-international-award-for-water-reuse-and-recycling/
LAUNCH PUBLISHED IN MEDIA

MAJOR SUCCESS WITHIN THE DEADLINES (OF DUBAI)
Uzma Qureshi
Director – Corporate Strategy
• SYSCOM
• uzma@binghalib.com

Mohammed Binghalib
CEO
• Binghalib Group
Questions?
Please wait for the microphone.
State your name and company.

Please remember to...
Navigate to this session in the mobile app to complete the survey.

Thank you!
This presentation may include predictions, estimates, intentions, beliefs and other statements that are or may be construed as being forward-looking. While these forward-looking statements represent our current judgment on what the future holds, they are subject to risks and uncertainties that could result in actual outcomes differing materially from those projected in these statements. No statement contained herein constitutes a commitment by AVEVA to perform any particular action or to deliver any particular product or product features. Readers are cautioned not to place undue reliance on these forward-looking statements, which reflect our opinions only as of the date of this presentation.

The Company shall not be obliged to disclose any revision to these forward-looking statements to reflect events or circumstances occurring after the date on which they are made or to reflect the occurrence of future events.
ABOUT AVEVA

AVEVA is a world leader in industrial software, providing engineering and operational solutions across multiple industries, including oil and gas, chemical, pharmaceutical, power and utilities, marine, renewables, and food and beverage. Our agnostic and open architecture helps organizations design, build, operate, maintain and optimize the complete lifecycle of complex industrial assets, from production plants and offshore platforms to manufactured consumer goods.

Over 20,000 enterprises in over 100 countries rely on AVEVA to help them deliver life's essentials: safe and reliable energy, food, medicines, infrastructure and more. By connecting people with trusted information and AI-enriched insights, AVEVA enables teams to engineer efficiently and optimize operations, driving growth and sustainability.

Named as one of the world's most innovative companies, AVEVA supports customers with open solutions and the expertise of more than 6,400 employees, 5,000 partners and 5,700 certified developers. The company is headquartered in Cambridge, UK.

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