Manar Abdulla Al-Khalifa
Director of System Development and Maintenance
Acting Director of GIS
Tasareeh is a national initiative that promotes the infrastructure sector in the Kingdom of Bahrain through processing all infrastructure permits under one umbrella.
Alignment with Vision 2030

- Government Service Efficiency
- Faster allocation of investment and residential properties
- Cost Efficiency
- Better governance and urbanization planning
- Efficient utility service delivery
Faster provision of essential utility services
Faster allocation of investment and residential properties
Better governance and urbanization planning
Efficient utility service delivery

Impacted Segment(s)

All segments of society (residents, investors, etc)

Government and private entities managing infrastructure

Tasareeh System
How did the story begins?
Wayleave permits issue

Previous Method:

- Manual processes
- Duration: Several Months
- Lost application
- Lack of integration between stakeholders
Wayleave permit solution

**Current Method:**

- Processes reengineering and automation (2013)
- Unified application and approval
- Direct distribution to stakeholders
- Integrate it with BSDI
Main features – Integrated with BSDI

Bahrain Spatial Data Infrastructure (BSDI)

- Integrated with BSDI
- 30 Government Entities
- 1000+ BSDI Users
- 300 Data Layers
- Daily Data update
- 2 sec Data load time
## Old wayleave vs new wayleave

<table>
<thead>
<tr>
<th>Feature</th>
<th>Manual Wayleave</th>
<th>E-Wayleave</th>
</tr>
</thead>
<tbody>
<tr>
<td>New Submitted Wayleaves per day</td>
<td>4 max</td>
<td>Unlimited</td>
</tr>
<tr>
<td>Distribution of Wayleave to stakeholders</td>
<td>Several days</td>
<td>Instantly</td>
</tr>
<tr>
<td>Wayleave loss in approval process</td>
<td>Frequently</td>
<td>Eliminated</td>
</tr>
<tr>
<td>Wayleave approval time</td>
<td>Weeks to months</td>
<td>5 - 10 days</td>
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<tr>
<td>Approval confidence</td>
<td>Low</td>
<td>High</td>
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<tr>
<td>Wayleave request monitoring and tracking</td>
<td>Not possible</td>
<td>Possible</td>
</tr>
<tr>
<td>Stakeholder Accountability/commitment</td>
<td>Low</td>
<td>High</td>
</tr>
<tr>
<td>Cost Efficiency</td>
<td>Resource cost, logistics and contingencies</td>
<td>Major cost saving</td>
</tr>
</tbody>
</table>
Manual and E-Wayleave System Comparison

Wayleave Permit Comparison

10400
7427

Successful Outputs

• Better harmonized delivery of services
• Automated approval processes
• Allow decision-makers to analyze and predict situation much more accurately
• Faster provision of essential utility services
• Increased the confidence level of approval
• Process standardization
• Ability to track the applications
• Improvement in performance of the employees
Implementation Strategy

- Stakeholders engagement
- Empower system with up to date GIS data
- Customized stakeholder internal workflow
- Stakeholders GIS data centralization and interoperability
- System scalability and sustainability
- Customer satisfaction
Success of eWayleave System
Welcome to Tasareeh
Main features – Submit request from any where and any time
Main features – Managing my requests
Advanced Management tools to Auto-distribute Requests

Main features – Auto Distribution

SEPDG Active Distribution List

Technician Basket

HPPD
1. Hassan Ali Eid
2. Johnny Escop
3. Jothi Basu Mangandu
4. Raja Naqi Qayed
5. Munir Mohammed Awadhi

RPDD
1. Hassan Ali Eid
2. Johnny Escop
3. Jothi Basu Mangandu
4. Raja Naqi Qayed
5. Munir Mohammed Awadhi

RPMD
1. Hassan Ali Eid
2. Johnny Escop
3. Jothi Basu Mangandu
4. Raja Naqi Qayed
5. Munir Mohammed Awadhi

SAN
1. Hassan Ali Eid
2. Johnny Escop
3. Jothi Basu Mangandu
4. Raja Naqi Qayed
5. Munir Mohammed Awadhi

OTHER WAYLEAVES
1. Hassan Ali Eid
2. Johnny Escop
3. Jothi Basu Mangandu
4. Raja Naqi Qayed
5. Munir Mohammed Awadhi

Engineer Basket

HPPD
1. Dana Nasser
2. Jumana S. Obea
3. Maryam Nasser Shalash
4. Sara A. Hamood

RPDD
1. Dana Nasser
2. Jumana S. Obea
3. Maryam Nasser Shalash
4. Sara A. Hamood

RPMD
1. Dana Nasser
2. Jumana S. Obea
3. Maryam Nasser Shalash
4. Sara A. Hamood

SAN
1. Dana Nasser
2. Jumana S. Obea
3. Maryam Nasser Shalash
4. Sara A. Hamood

OTHER WAYLEAVES
1. Dana Nasser
2. Jumana S. Obea
3. Maryam Nasser Shalash
4. Sara A. Hamood
## Main features – Manage received requests

### Received Wayleaves

<table>
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<tr>
<th>Filter results: Type to filter results</th>
<th>Internal Status</th>
<th>Pending Organizations</th>
<th>Time Left</th>
<th>Created</th>
<th>Last Action On</th>
<th>Actions</th>
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</thead>
<tbody>
<tr>
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### Pending Wayleaves

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<tr>
<th>New Wayleave</th>
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<td>EDD / 672 / 2017</td>
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### Resubmit

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### Ministry

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### Ministry Approval

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</table>
Main features – Supported with up-to-date Spatial Data
Main features – Mark Project conflict on the Map

Choose the graphic from the template picker to draw the redline.

To update/delete select the graphic from map and click on save or delete button in the attribute inspector window.
Main features – Detailed KPI Report

BATELCO KPI REPORT MARCH 2016

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Total: 599 138 0 901 503 58 54 3.04
Main features – User Management tool

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<th>User</th>
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<tbody>
<tr>
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<td>User name: ahmed</td>
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<tr>
<td></td>
<td>Full Name: Ahmed Saleem Itani</td>
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<td></td>
<td>CPR number: CPR Number</td>
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<td>Phone: 7777777777</td>
</tr>
<tr>
<td></td>
<td>Mobile: Mobile Number</td>
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<td>Email: <a href="mailto:ahmed@cio.gov.bh">ahmed@cio.gov.bh</a></td>
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1. Processes
2. Roles
3. Map Layers
Main features – Considering users leaves
Main features – General search tool

<table>
<thead>
<tr>
<th>Number</th>
<th>Status</th>
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Main features – Notifications center tool
Awards

Best e-Project by a government Sector
5th Bahrain International eGovernment Forum
Bahrain 2012

Excellence in GIS Implementation Award
GISWROX
Dubai 2017
Tasareeh video
“Advancing Bahrain to New Heights”

Thank You