Building Inclusive Information & Knowledge Societies

Through Government-Led Multi-Stakeholder Collaboration & Cross Border Implementation

Regional Review of the World Summit on the Information Society (WSIS) Implementation in Asia Pacific
The Digital Advancement Landscape

Source: Harvard Business Review
Hospitality Industry Initiative

**Challenge Process**

1. Confirm partnership with vendor
2. Vendor submits application by 28 Aug'17
3. STB shortlists & awards projects by Oct’17
4. Development of prototype/pilot
5. Completion of pilot
6. Post-Pilot Adoption

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**DEVELOPMENT/PILOT PHASE**

<table>
<thead>
<tr>
<th>Fund Recipient</th>
<th>SOLUTION PROVIDER</th>
<th>POST-PILOT PHASE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eligibility Criteria</td>
<td>Singapore-registered business with at least 1 pilot partner</td>
<td>Singapore-licensed hotels that have participated in prototyping any one of the approved solutions for the Innovation Challenge.</td>
</tr>
<tr>
<td>Support Funding Level</td>
<td>Successful SME and Non-SME applicants will receive funding support of up to 70% of qualifying costs.</td>
<td>Successful SME applicants will receive funding support of up to 90% of qualifying costs*</td>
</tr>
<tr>
<td>Qualifying Solutions</td>
<td>Solution(s) addressing any of the problem statements in the Innovation Challenge that requires development</td>
<td>Any approved solutions prototyped and piloted via the Tourism Innovation Challenge, excluding solutions addressing statements 4c and 5**. See list of qualifying problem statements below.</td>
</tr>
<tr>
<td>Qualifying Costs</td>
<td>Professional Services; Hardware, Software, Materials &amp; Consumables; Training; Testing and Certification; Third Party Audit</td>
<td></td>
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</tbody>
</table>

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*In case of multiple applicants, the support will be shared among them.
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## Digital Transformation Case Study

<table>
<thead>
<tr>
<th>Problem:</th>
<th>High Operational Costs &amp; Low Operational &amp; Energy Efficiency</th>
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</thead>
<tbody>
<tr>
<td>Solution</td>
<td>Centralization of Asset Performance Management (Chiller Plants of Five different hotels)</td>
</tr>
<tr>
<td>Project Year</td>
<td>2018 – Present</td>
</tr>
</tbody>
</table>
| Solution (in-detail) | • Complete Digitization of energy & process data  
• Integration of Chiller Operations across 5 diff hotels.  
• Equipment & Operations profile building.  
• Remote Operations/Process Monitoring & Control System  
• Robo-assisted abnormalities & deviation alerting system.  
• Automated operations & sustainability reporting system. |
| Solution Benefits | **Operational Benefits:**  
• 25 -40% Improvement in the operational efficiency.  
• 30% reduction in facility related OPEX  

**Business Benefits:**  
• 35% reduction in the energy cost.  
• CO₂ emission reduction 1200 tonnes/year  
• 10% less customer complaints due to equipment breakdown |

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### Pan Pacific ties up with Singapore startup for digital transformation

By TTO data / Posted on 8 October, 2018 10:21

Pan Pacific Hotels Group (PPHG) and energy startup EverConn Singapore have kicked off their inaugural collaboration to enable digital-ready hotels across the former’s global portfolio.

Using EverConn’s proprietary technology, a Building Energy Management System harnessing Artificial Intelligence and the Internet of Things will be deployed across all of Pan Pacific Hotels Group’s hotels, resorts, and serviced suites, starting with Singapore.
AI-enabled Operations & Knowledge Scalability

As-is:
Engineers need to define the function steps, statistics and control rules.

Sensor Data (Data Engineering Output)

Our Approach:
- Reduce the subjective judgment
- Extract patterns for comparison and clustering

Learning by Data (Time-based Features)

Extracted Signature Database

Knowledge scatter across individuals
Cross-Border Collaboration

Selected for PTT first regional Accelerator Program in Thailand

• Successfully completed 3 months pilot program
• Company setup in Bangkok with local partners
• Strategic partnership for digitalization services co-creation
Joint Capabilities Development & Training

World’s Biggest Engineering College

College of Science
- Physical & Mathematical Sciences
- Biological Sciences
- Earth Observatory of Singapore (EOS)
- Singapore Centre on Environmental Life Sciences Engineering (SCELSE)

College of Engineering
(CBE, CEE, SCE, EEE, MSE, MAE)

Nanyang Business School

Nanyang Technopreneurship Centre (NTC)

Research Impact: No.1 in Asia
Industrial Collaborations: No.1 in the world
Thank You