

# << Improving Airports in 2020 >>

## Starting with Gap/Risk Analysis and Business Process Modeling

By David Tamir

With 24 years of experience improving dozens of airports, David Tamir has developed an efficient gap/risk analysis methodology for identifying and prioritizing airport improvement projects. David leverages straight forward Excel (see below), using a practical methodology, which quickly achieves results and is easy to understand. David sits with airport stakeholders to: identify and grade airport functions, systems, assets, etc.; define respective criticalities; calculate consequent risks; identify dependencies; and layout a 5-year phased funding plan, based on priorities derived from above.

Airport Gap/Risk Analysis Matrix										Scorecard					Dependencies				5 Year Funding Plan					Notes															
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Revision Date: November 2019										1-10 1-10 1-100					JOC Need				FY19 FY20 FY21 FY22 FY23 FY24																				
Division SBS# Systems Breakdown Structure (SBS) Description										Gap Criticality Risk					CMS Integration Need BI Need				Last Year This Year Next Year 3rd Year 4th Year 5th Year																				
Facit 3.2 Pavement Management System										7 8 56					1 1 0 0									WK Dickson															
Facit 3.3 Electrical										9 7 63					0 1 0 0																								
Facit 3.3.1 Electrical Panel Management System										1 In work					0 1 0 0				This Year					There is an need panel.															
Facit 3.3.2 UPS backup power for Life Safety Systems										9 7 7					0 0 0 0				Next Year																				
Facit 3.3.3 UPS backup power for IT Systems										6					0 0 0 0				3rd Year					Issues are p															
Facit 3.4 NAVAIDS										7					0 1 0 0				4th Year																				
Facit 3.4.1 Airfield Lighting System (ADB)										3 10 30					0 0 0 0				5th Year					Replacing not mainta															
Facit 3.4.2 Precision Approach Path Indicators (PAPIs)										7 10 70					0 0 0 0																								
Facit 3.5 Building Automation System (BAS) (Metasys)										4 9 36					0 3 2 0				This Year					Continuing Added via B															
Facit 3.5.1 People Movers Monitoring System										7					0 3 3 0				Next Year																				
Facit 3.5.2 Loading Bridge Monitoring System										1 In work					0 0 0 0				3rd Year					Looking to n															
Facit 3.5.3 Energy Management System										9 5 45					0 0 0 0				4th Year																				
Facit 3.5.4 Integration with GIS/CityWorks/FireAlarm for Situational Awareness										1 In planning					1 3 0 0				5th Year					Interested i															
Facit 3.6 Baggage Handling System (BHS)										6 10 60					0 0 0 0																								
Facit 3.6.1 Headend (e.g., Servers, Network, Security, etc.)										4 In work					0 0 0 0																								
Facit 3.6.2 Software										6 In work					0 2 0 0																								
Facit 3.6.3 Controllers (PLCs)										7					0 0 0 0																								
Facit 3.6.4 Business & Revenue Reporting										1 In work					3 0 0 0																								
Facit 3.7 Fueling Systems										6 8 48					1 1 0 0																								
Facit 3.7.1 Vehicle Fueling Management (Fuel Master>>>Gas Boy)										7 10 70					2 2 0 0																								
Facit 3.7.2 Aircraft/GSE/RAC Fuel Management System (Gas Boy)										9 4 36					0 3 0 0																								
Facit 3.8 Vehicle Tracking Systems										4 7 28					0 2 0 0																								
Facit 3.8.1 Bus Tracking (GeoTab)																																							
Roadmap										Criticality Criteria					Revenue					JOC Need					CMS Integration Need					BI Need					Strategic				
										4					3					2					1					Nice to Have									

To achieve success with airport improvement projects involving business process changes, it's essential to diagram the old "as-is" airport business processes, and then design the new "to-be" improved processes. The required business processes need to drive and shape the implementation. David leverages ISO standardized Business Process Modeling (BPM); as shown in example below. David has developed hundreds of airport business processes spanning Finance & Procurement, Planning, Engineering & Construction, Facilities Maintenance, Operations, Properties & Leasing, IT, HR, Legal, etc.

