Digital Transformation of JR Group's Operations & F&B Industry

IE3100M Systems Design Project (AY2018/19) Department of Industrial Systems Engineering and Management SDP Supervisor: Professor Andrew Lim

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Project Overview

SDP Group 17 aims to identify opportunities to establish digital solutions in the F&B industry. The digitalization roadmap of the F&B industry involves 4 phases. The team started with introducing digitalization into JR Group, an F&B organization in Singapore, through process documentation, problem identification, solution ideation and implementation in Phase 1 and 2. The team then identified the potential of scaling JR Group specific solutions to an industry-wide level in Phase 3 and established a data cloud framework to encompass stakeholders, interactions and information flows in the F&B industry to provide intelligent information for stakeholders to perform their key activities more optimally in Phase 4.

Inefficient & ineffective inventory management methods

Procedures

People



People

Inability to gather data related to customers

Procedures

NUS

Identify goals



Inventory Management System



Reservation App

Inventory control and management systems in ' / Potential benefits of video analytics ' / Existing reservation applications have high subscription ' local food manufacturing organizations are explicable in the F&B industry i costs and prevents key customer information extraction

and rollout of solutions in JR Group

> Continuous ement EF

CI

Reliance on third party table reservation

Procedures

applications

People

implementation plan of solutions

underdevel	oped

→Great potential for more effective inventory management applications

organizations

→ Allow scalable video analytics $| \cdot |$ → Presents the opportunity for the proposed reservation applications to be catered to F&B application with a revamped cost structure and increased customer data transparency and sharing

Monitor performance and gather feedback

Onsite testing of solutions in JR Group

Bulk

Orders

Greater

Base

Phase 4 Future Work — Data Cloud



Application into F&B Industry