

B SCHENKER

LOGISTICS DIGITALISATION

IE3100R/IE3100M Systems Design Project. | Department of Industrial Systems Engineering and Management.

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Project Overview

In the management of warehouses where outbound volumes are high, the picking process has to be optimized in order to deliver orders on time. This project aims to improve the picking efficiency for one of DB Schenker's client by creating an algorithm which will then be integrated in a mobile application.

Objectives

Improve picking process by:



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Algorithm to optimize the picking sequence

A mobile application to replace paper-dependent process





1. Time spent to print, sort and pick



2. Paper wasted in the process of printing pick tickets

instead of picking per tickets

Sorting

Batched items across pick tickets sorted according to S-path of warehouse layout

