



## ROBOTICS FOR LOADING / UNLOADING AUTOMATED CONTAINER IN LOGISTICS

An interdisciplinary branch of engineering and science that includes mechanical engineering, electronic engineering, information engineering, computer science, and others

### OPPORTUNITY DEFINITION | ROBOTICS | LOADING / UNLOADING AUTOMATED CONTAINER SOLUTION

This project aims to automate/semi-automate loading / unloading of containers from trailers to improve efficiency, improve safety, and require goods movement.

#### TARGET MARKET



##### Target Market

Gulf Warehousing Company (GWC) operates approximately 830,000 sqm of warehouses and distribution centers.

##### Target Users

- Warehouse operators

#### KEY PROBLEM STATEMENT | NEED

The main safety issue during any loading and unloading operations are personal injuries and accidents. The other concern during the operations is an extensive bottlenecks that arise due to full dependence on manual labor. Migrating to automated picking gives productivity gains to manual operations.. Manual picking is being increasingly complemented and supplemented by goods-to-person (G2P) picking solutions, thereby cutting down on a lot of labor time and costs.



#### PROCUREMENT CYCLE



##### Identification Stage

The opportunities will be tendered in 2021.

#### TIMESPAN



Total duration of 4 – 12 months in phases including implementation and testing.



#### ADJACENT OPPORTUNITIES

- Connected Warehouse
- Automated Picking Systems

#### STAKEHOLDERS

- Gulf Warehousing Company (GWC)



#### OWNER AND SECTOR

**Owner** Gulf Warehousing Company (GWC)

**Sector** Logistics



#### BUDGET ACROSS ROBOTICS ECOSYSTEM

The Middle East & Africa market for Robotics is projected to reach **USD 400 million** by 2022, at a compound annual growth rate (CAGR) at 8% from 2019 to 2022.

