



PROJECT PRESENTATION



3D -FIXED MOUNTED BARCODE
SCANNER



AGENDA

∨ INTRODUCTION	03
∨ OBJECTIVE	03
∨ FUNCTION	06
∨ IMPACT	07
∨ COST ANALYSIS	10
∨ PROJECT TIMELINE	15
∨ RISK ASSESSMENT	18
∨ CONCLUSION	03



INTRODUCTION

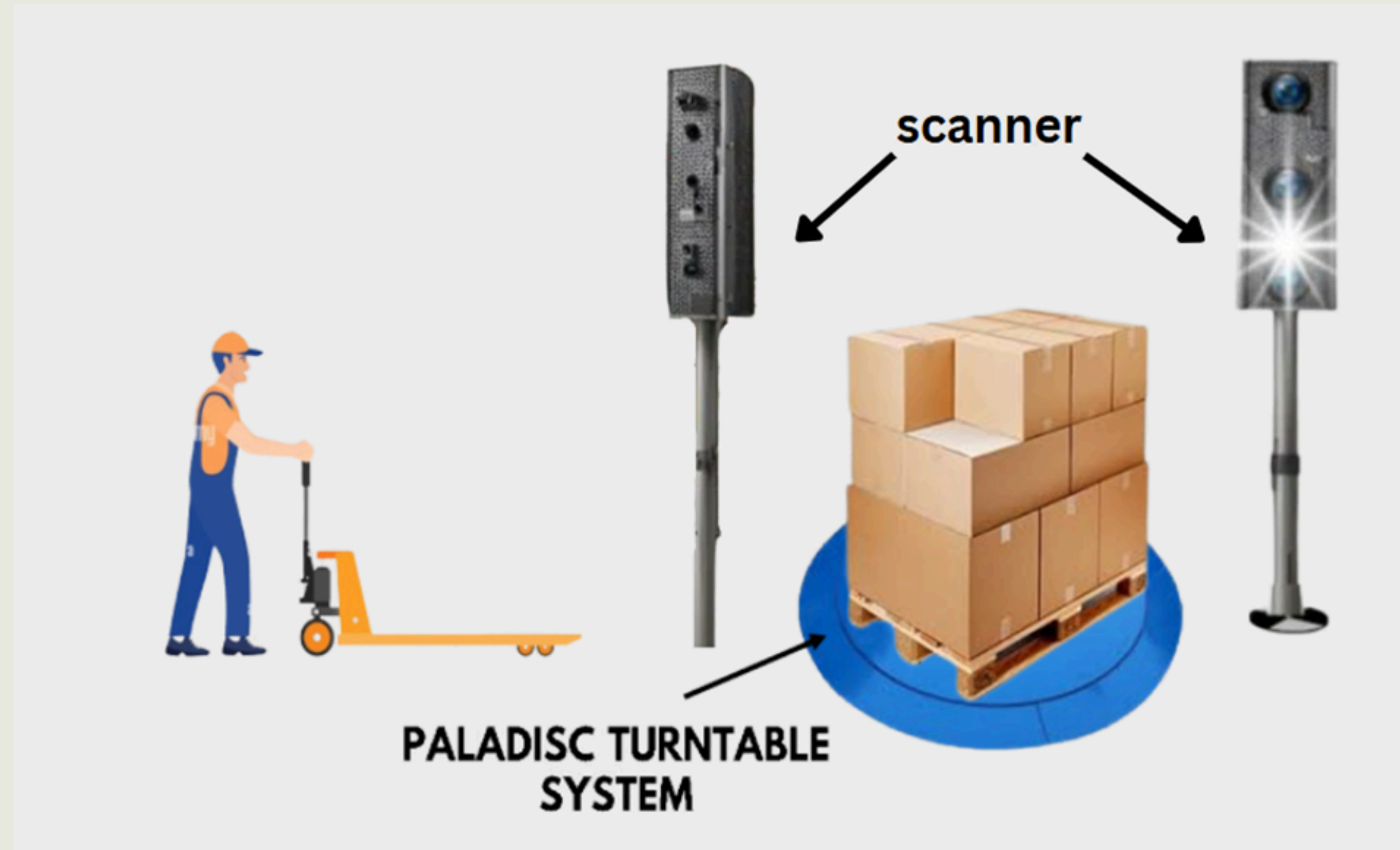
Scanning → Identification → Verification



INTRODUCTION

- Manual Process
- Error

✓ Integrates with WMS



PROJECT OBJECTIVE

boosts efficiency, scalability, and cost-effectiveness.

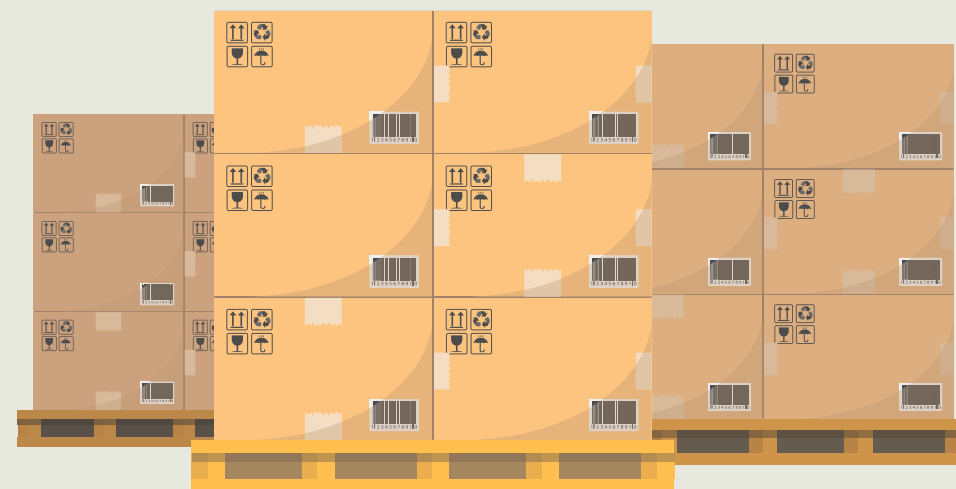
Enhancing Scanning Efficiency

Scans multiple cartons at once, reduces errors, and includes real-time error detection.



Increasing Throughput & Integrate

Handles 100+ pallets daily while integrating smoothly with existing Warehouse Management System (WMS) systems.



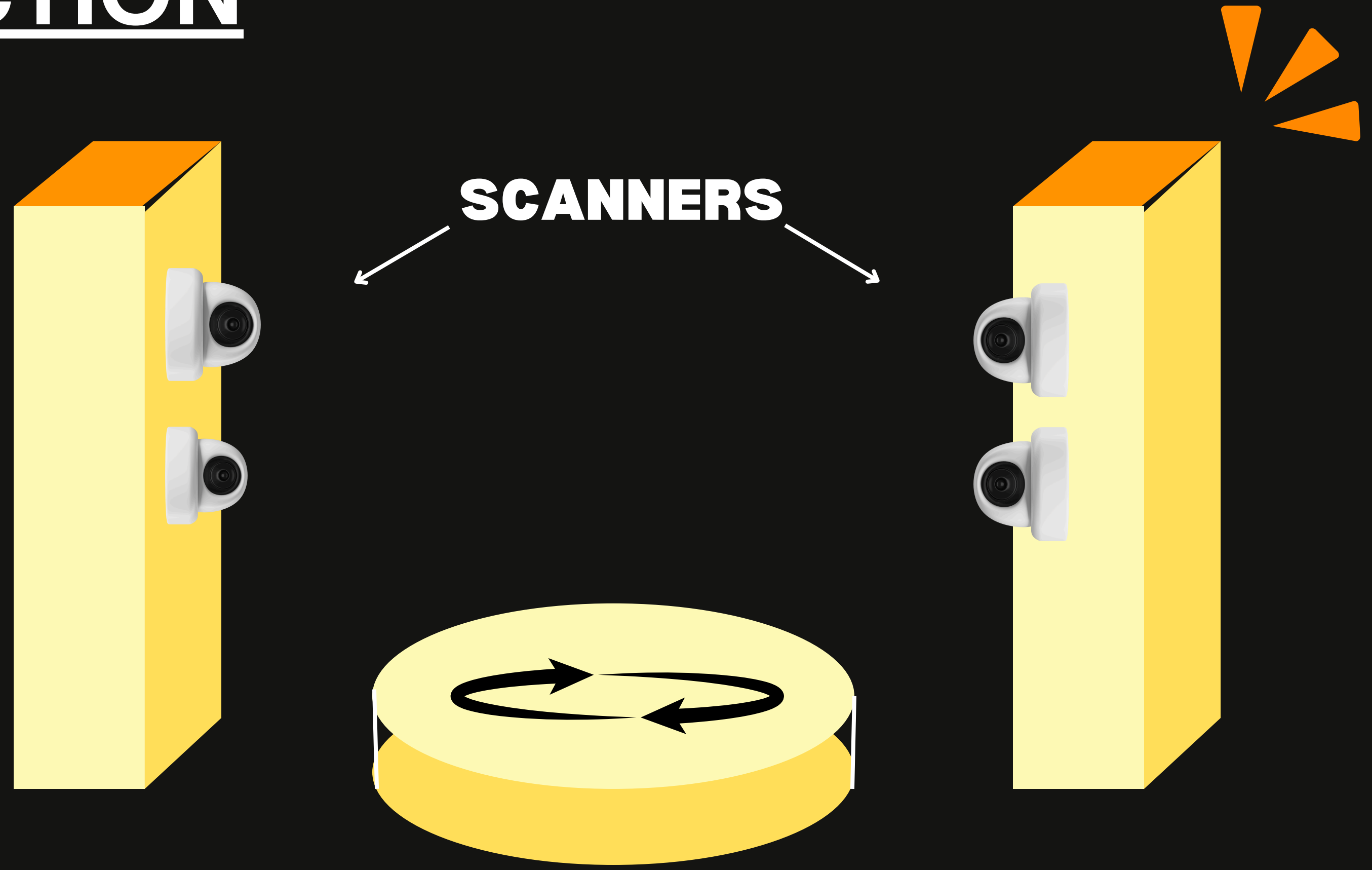
Reducing Costs

Cuts labor time, minimizes errors, and improves financial performance.



FUNCTION

3D FIXED MOUNTED BARCODE SCANNER



360 ROTATING PLATFORM

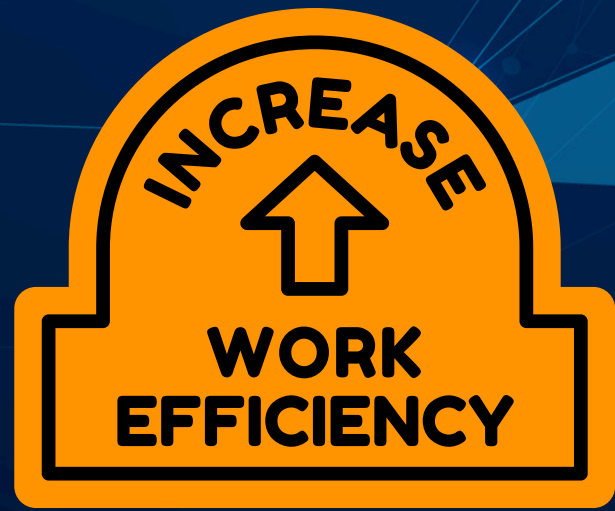
IMPACT



- Processing Time

- Throughput

- Operational Efficiency



IMPACT



COST ANALYSIS

No	Items	Qty	Estimate Budget (RM)	Budget Overhead (RM)	Total Cost (RM)	Actual Cost (RM)	Variance Cost (RM)
1.	Double Layer Cardboard (80x80)	20	50.00	5.00	55.00	0	55.00
2.	Hot Glue Gun	1	20.00	2.00	22.00	0	22.00
3.	Hot Glue Gun Refill	1	10.00	1.00	11.00	5.90	5.10
4.	Cutter	1	7.00	0.70	7.70	4.00	3.70
5.	Cutter Refill	1	5.00	0.50	5.50	2.00	3.50
6.	Drafting Paper	5	2.00	0.20	2.20	0	2.20
7.	Measurement Tape	1	11.00	1.10	12.10	0	12.10
8.	Rotating display platform	1	45.00	4.50	49.50	39.00	10.50
9.	LED light	5	20.00	2.00	22.00	19.10	2.90
10.	Battery	15	35.00	3.50	38.50	29.80	8.70
	TOTAL		205.00	20.50	225.50	99.80	125.70

Table 2.4 Budget Analysis for the project

TIMELINE

3D-Fixed Mounted Barcode Scanners

Gantt Chart

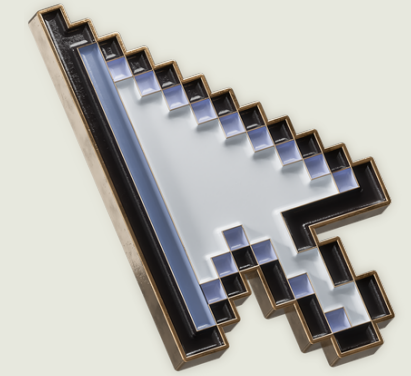
Start Week **Feb 20, 2025**

Week	1				2				3				4				5				Notes
Starting	Feb 23	Feb 25	Feb 27	Feb 1	Mar 2	Mar 4	Mar 6	Mar 8	Mar 9	Mar 11	Mar 13	Mar 15	Mar 16	Mar 18	Mar 20	Mar 22	Mar 23	Mar 25	Mar 27	Mar 29	
Phase One	Research and Planning																				
	Idea Generation																				
	Finalize Plan																				
Phase Two	Proposal																				
	Drafting protoype																				
	Collecting resources																				
	Initial developing of prototype																				
	Accaeptance of prototype																				
	Developing product																				
Phase Three	Proposal checking																				
	Proposal finalization																				
	Turn in proposal																				
	Presentation preparation																				
	Presentation																				
	Final Preparation																				
Exhibition Day																					

P
R
O
J
E
C
T

E
N
D

TIMELINE



Phase 1

(Week 1)

- Conduct research
- Brainstorm innovative ideas
- First meeting on February 28
- Final concept: 3D-Fixed Mounted Barcode Scanners

Phase 3

(Week 5)

- Submit proposal on March 21
- Prepared materials and scripts for presentation on 21 March
- Showcase the prototype on exhibition day (March 26)

Phase 2

(Weeks 2-4)

- Outline project scope and challenges
- Build prototype
- Gather necessary materials
- Improve the prototype into a more functional version

RISK ASSESSMENT



Hardware Risks

- 01** AI cameras, RFID, and LIDAR sensors may misread shipments if misaligned or damaged. Regular maintenance, sensor checks, and backup scanners are needed.

Software & Data Risks

- 02** Integration with WMS/ERP can lead to bugs, data loss, or cyber threats. Regular testing, strong cybersecurity, and real-time monitoring are essential.

Operational Risks

- 03** Damaged or unreadable barcodes may require manual intervention. Establish a manual scanning area with real-time alerts for quick resolution.

CONCLUSION



THANKS FOR LISTENING !