

## Introduction



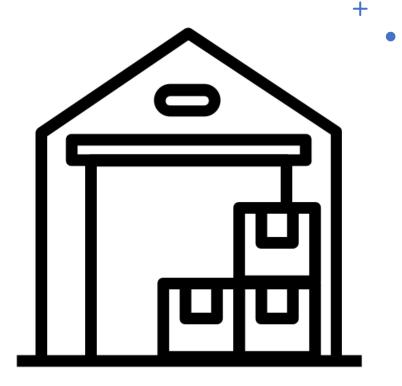
MyCarrier Logistic Solutions



Project: **Digital Warehouse** 

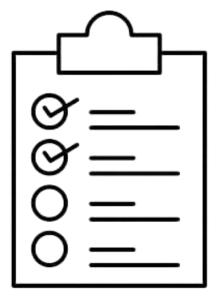


Drones may transform logistics through automation



## Strategic Goals

- Capacity and Efficiency Enhancement
- Quick Implementation
- Top Operational Visibility
- **Solution** Competitive Tariffs and Customized Contracts
- Less Challenges with Manual Inventory



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## Project Management Methodology

SCRUM: An Agile framework

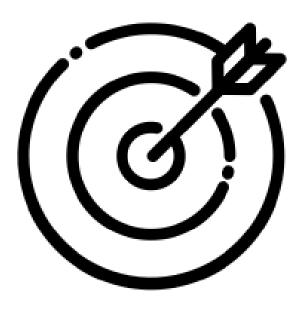
## Why?

- Complexity of the Project
- Accepts adjustments while exploring
- Open to continuous feedback
- Allows extensive testing



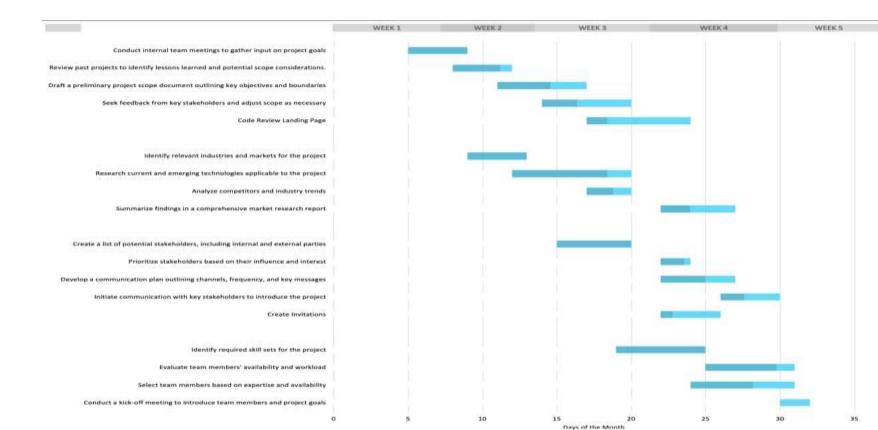
# Vision and Scope: Project Objetives

- MyCarrier Logistic Solutions: Business Context
- Logistic Warehousing Drones: Project Scope
- Technical and Scientific Objectives
- R&D: State of the Art Technological Landscape
- R&D: Uncertainty Resolution
- Methodology
- Expected Outcomes



## Vision and Scope: Gantt Chart

TASK NAME	START DATE	DAY OF MONTH*	END DATE	DURATION* (WORK DAYS)	DAYS COMPLETE*	DAYS REMAINING*	TEAM MEMBER	PERCENT
Define Project Objectives and Scope								1100
Conduct internal team meetings to								
gather input on project goals Review past projects to identify lessons	1/5	5	1/8	4	4	0	Nathan	100%
learned and potential scope								
considerations. Draft a preliminary project scope	1/8	8	1/11	4	3,2	0,8	Meredith	80%
document outlining key objectives and								
boundaries	1/11	11	1/16	6	3,6	2,4	Brandon	60%
Seek feedback from key stakeholders and								
adjust scope as necessary	1/14	14	1/19	б	2,4	3,6	Michael	40%
Code Review Landing Page	1/17	17	1/23	7	1,4	5,6	Rachel	20%



## Vision and Scope: Stakeholder Analysis



#### Internal Stakeholders

- Sponsor
- Project Management Office
- Steering Committee
- Process Owner
- o Team

	Sponsor	РМО	sc	PO	Team
Initiation	Α	R	R	С	С
Planing	Α	R	R	С	С
Execution	Α	R	R	R	R
Control	Α	R	R	R	R
Close	A	R	R	С	С

#### External Stakeholders

- Suppliers
- Regulators
- Investors and Shareholders
- Toyota
- Commercial Management
- Key Users

	Regulators	I&S	Toyota	СМ	KU
Initiation	С	С	1.	С	1
Planing	С	С	С	С	С
Execution	С	С	c	С	С
Control	R	С	C	С	С
Close	С	С	С	С	С

## Vision and Scope: Organizational Structure

Scrum Master



Product Owner

Scrum Team

- Software Engineers
- Business Analysts
- Mechanical Engineers
- Drone Technician
- Data Scientist
- Quality Assurance Specialist
- Supply Chain/Logistics Expert
- Regulatory Compliance Officer

## Risks and Mitigations

- 1) State of the Art Technology Complexity
- 2) Warehouse Diversity and Drone Adaptation
- 3) Extended Project Timeline
- 4) Challenges in Label Reading and Distinction
- 5) Indoor navigation and Autonomy in Drones
- 6) Technological Dependencies and Integration

	High			
Probability	Medium		3 and 4	1 and 5
	Low		6	2
		Low	Medium	High
			Impact	

### Communication Plan

#### Internal Stakeholders

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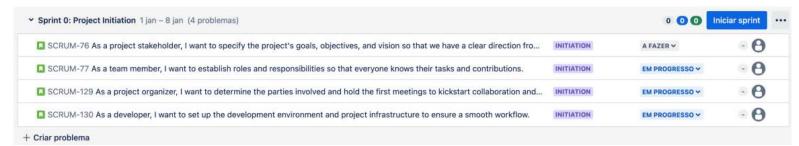
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## Jira as a Monitoring Tool

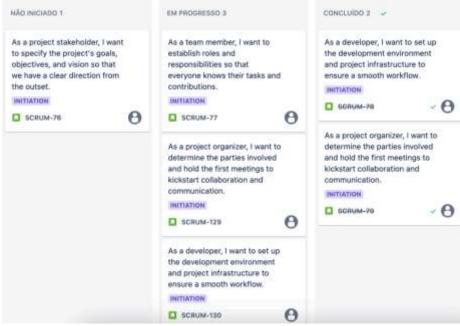
#### **Sprints**



#### Timeline



#### **Board**



## Indicators and Metrics

#### > During Development

- Task Progress and Completion
- Effort Variance
- Defect Density
- Code Churn Rate
- Burn-down Rate

#### > After Development

- Defect Removal Efficiency
- Customer Satisfaction
- o On-time Delivery
- Budget Variance
- Post-Implementation Defect Rate



### Conclusion

• **Project Viability and Success:** Our plan ensures robustness and a secure path to success.

• Methodology as a Success Driver: SCRUM is crucial for positive outcomes.

• Critical Components: Vision Scope, Risk Analysis, and Communication Plan.

 Operational Efficiency with JIRA: Streamlining operations and tracking progress