CROWLEY HAZARDOUS SHIPMENT HANDLING

ALLISON MOOTHART, KYLE NEFF, JOHANNA ROBINSON







TEAM ORGANIZATION

FSU Student Team

Allison Moothart, Phase Leader Kyle Neff, Process Engineer Johanna Robinson, Process Engineer

Crowley Team

Dorinda Geans-Jay, Project Contact Coleman Cosgrove, Project Sponsor

Additional Stakeholders

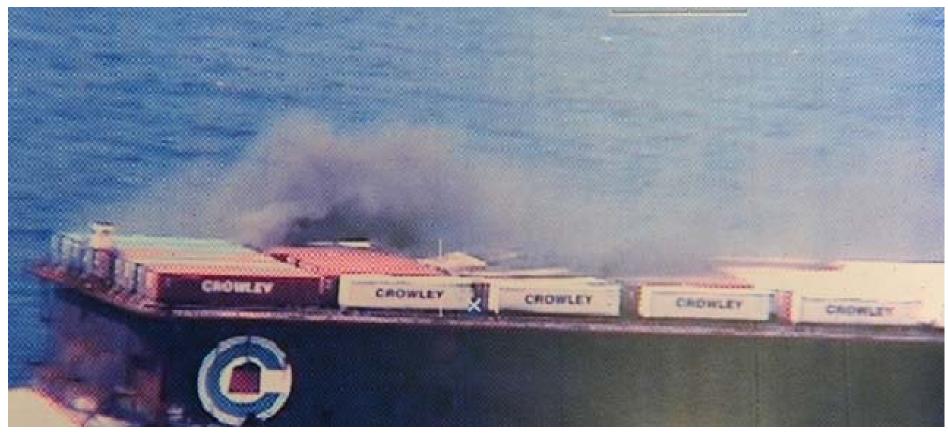
Dr. Okoli, Senior Design Professor Ryan Adams, PhD Candidate Margaret Scheiner, PhD Candidate

BACKGROUND

- Maritime shipping and transport
- Massive fleet of vessels
- International



MIAMI BARGE FIRE



Kyle 4

SCOPE AND CONSTRAINTS

Scope

- Just Jacksonville port
- Only hazardous material shipments

Constraints

Change in processes cannot negatively affect:

- Alpha or Beta errors
- Adherence to the shipping schedule
- Administrative burden

THREATS AND OPPORTUNITIES

	Threat	Opportunity
Short Term	Increased regulationsIncreased fines	Decreased regulationsDecreased finesDecrease in shipping delays
Long Term	 Increased premiums for insurance Increased safety risks Potential loss of business 	Decreased premiums for insurance

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CURRENT SHIPPING PROCESS

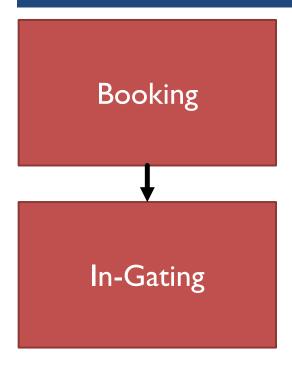
Documentation

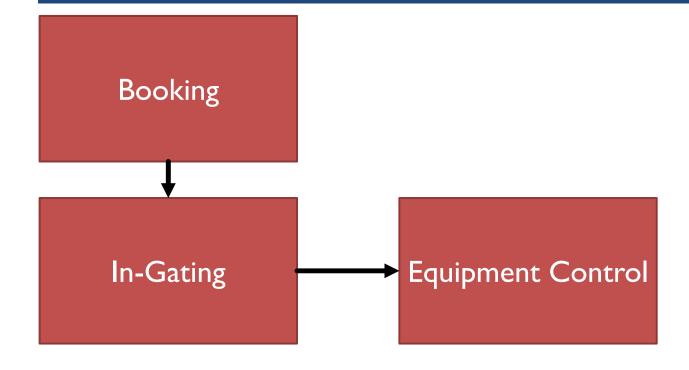
Placards

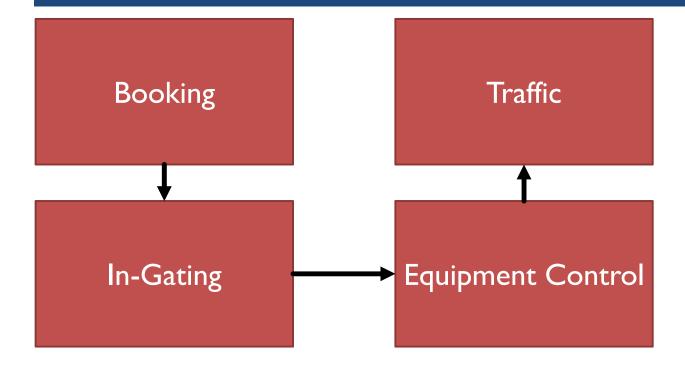
Bill of Lading (BOL)

Load List

Booking



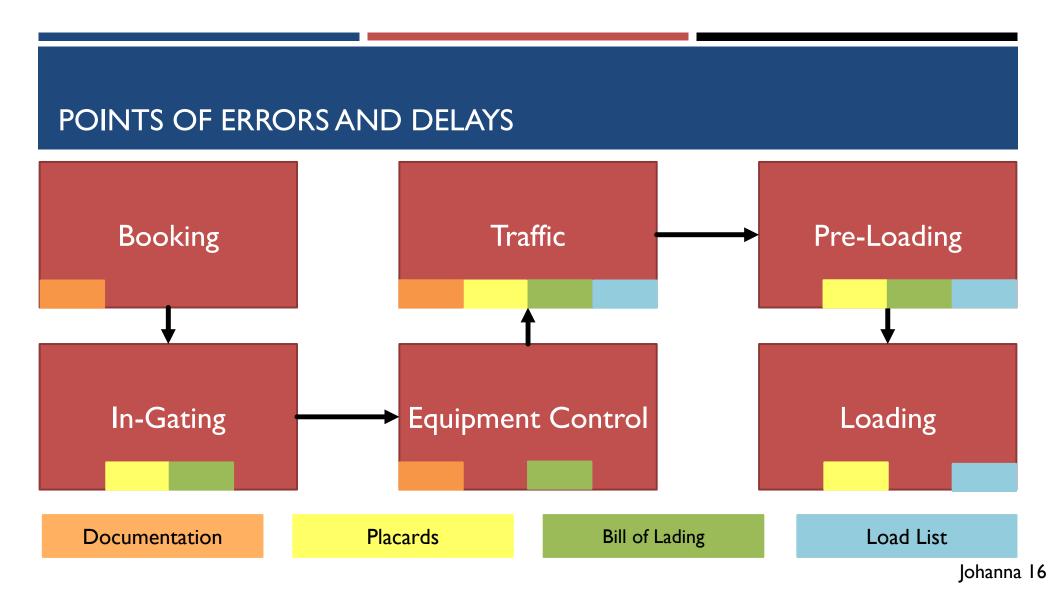




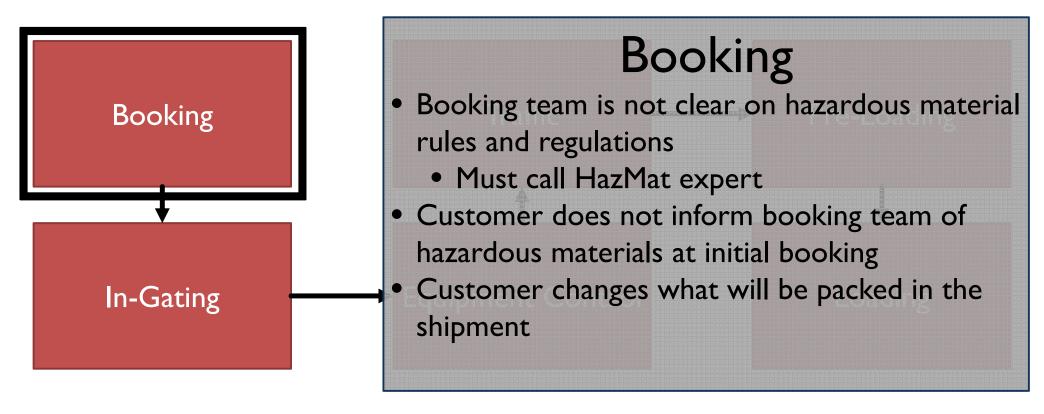
CURRENT PROCESS FOR HANDLING HAZARDOUS SHIPMENTS Booking Pre-Loading Traffic In-Gating **Equipment Control**

CURRENT PROCESS FOR HANDLING HAZARDOUS SHIPMENTS Booking Pre-Loading Traffic In-Gating **Equipment Control** Loading

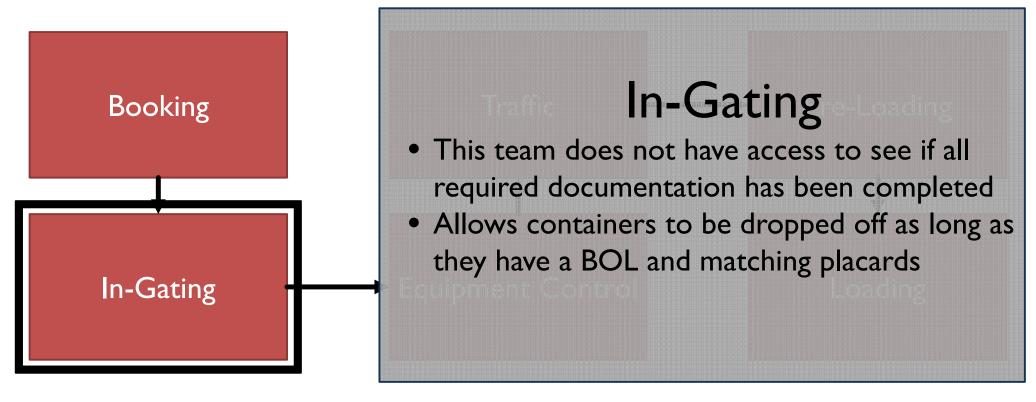
POINTS OF ERRORS AND DELAYS



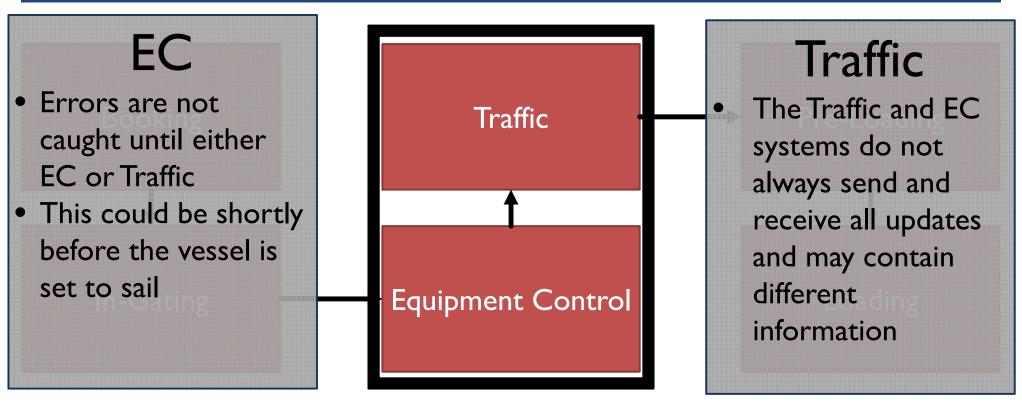
POINTS OF ERROR AND DELAYS



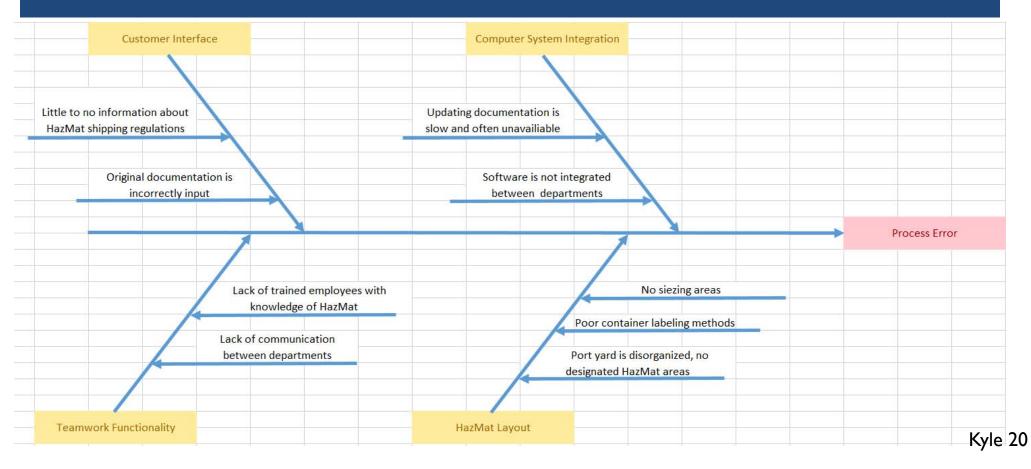
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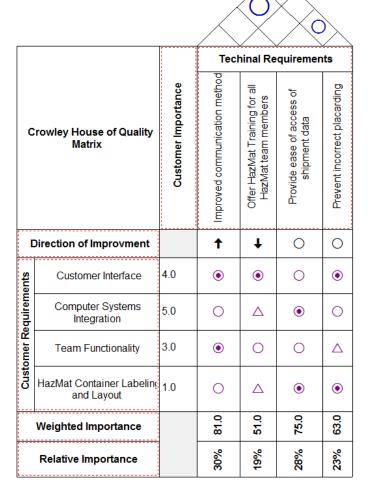


FISHBONE



HOUSE OF QUALITY





PROJECT PLAN

	Plan	Plan	Actual	Actual				Week			
	Start	Duration	Start	Duration	6	7	8	9	10	11	12
Team Meeting		1									
Review Completed Measurement Documentation	6	1									
Meet with Sponsor	6	1									
Determine Additional Measurements Needed		2									
Meet with Sponsor		1									
Vist Facility	8	1									
Obtain Additional Measurements	8	1									
Review All Measurments	9	2									
Create Poster	11	2									
Present to Senior Design Class	12	1									

CONCLUSION

- Team visited port to observe processes
- Analyzed where the errors are occurring
- Determined four critical points
 - Customer Interface
 - Computer System Integration
 - Teamwork Functionality
 - HazMat container yard layout and placarding

QUESTIONS?

