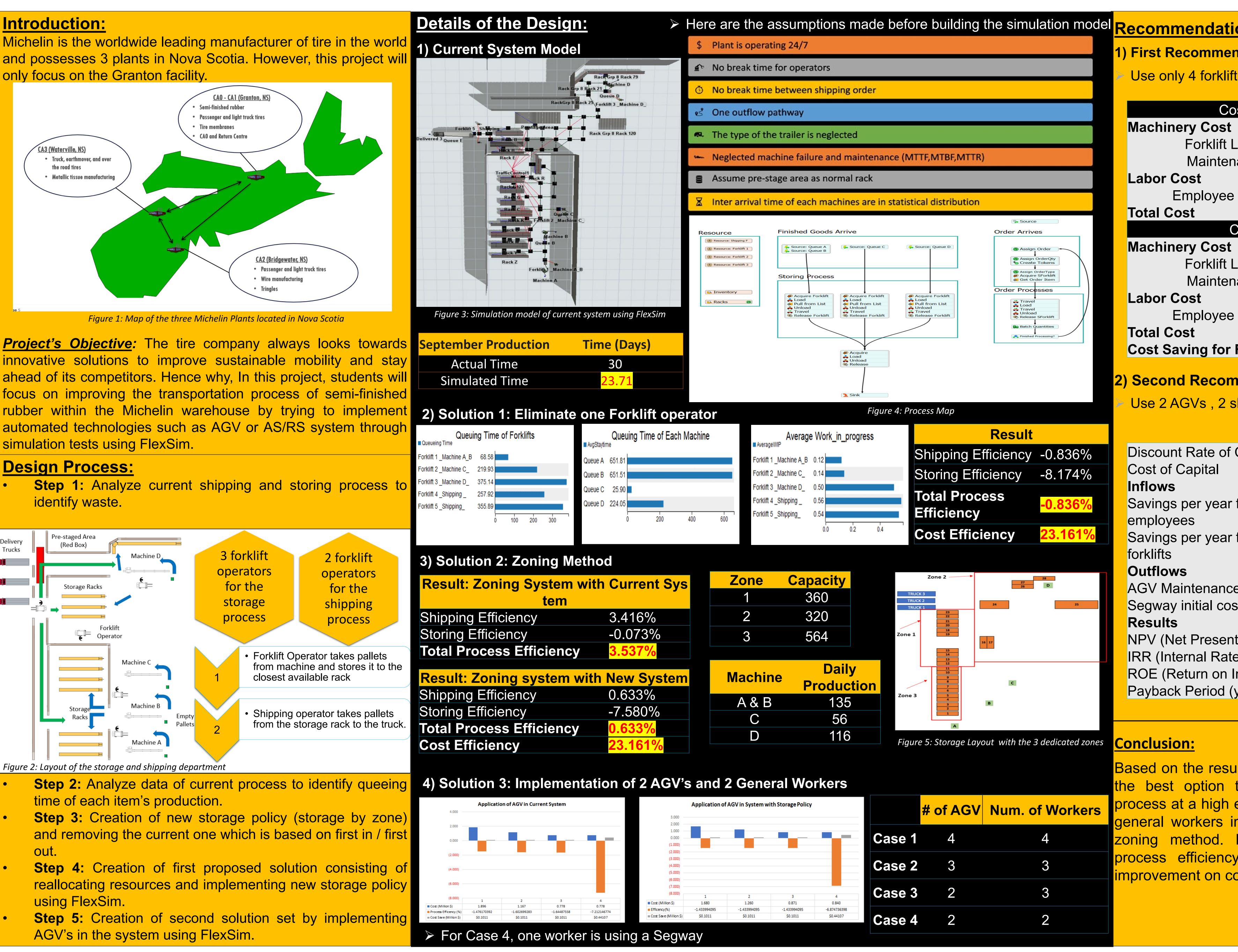
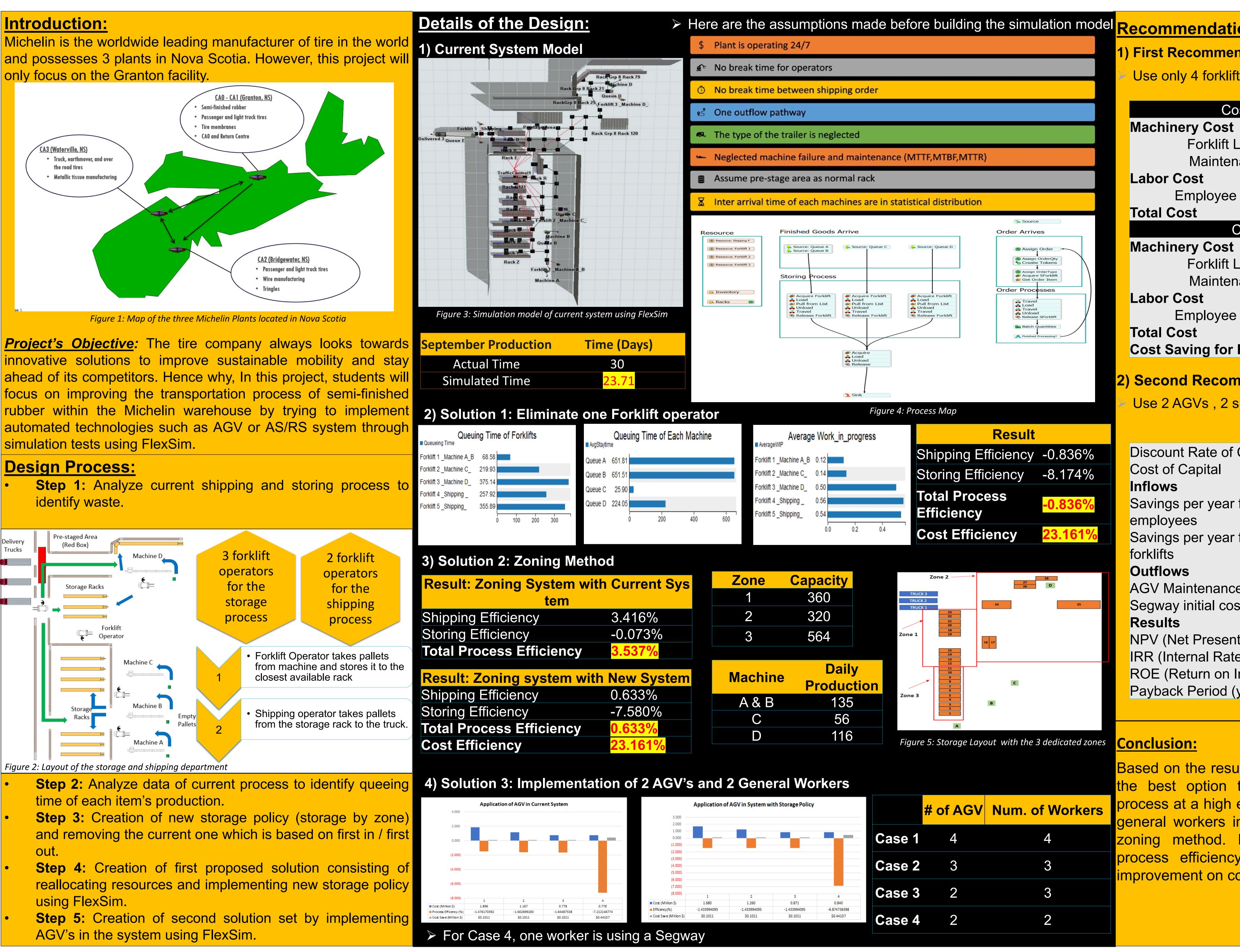


### Department of Industrial Engineering





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# **Optimization of Rubber Pallet Transportation**

## Team 13: Michelin Capstone Project

Based on the results from the different simulation models. the best option that will optimize the transportation process at a high efficiency would be using 2 AGVs and 2 general workers including the new storage policy of the zoning method. Despite case 1,2,3 having a better process efficiency rate, case 4 has more significant improvement on cost saving.

ions ndation: It and new storage policy policy		
ost of Current System		
Lease nance	CAD 66,000.00 CAD 102,454.00	
Wages	CAD 1,445,000.00 CAD 1,613,454.00	
Cost of New system		
Lease nance	CAD 52,800.00 CAD 81,963.20	
Wages	CAD 1,105,000.00 CAD 1,239,763.20	
First Solution	CAD 373,690.80	
nmendation: shipping operators, 2 general operators		
Capital	5.61% CAD 778,000	
from reduction o	CAD 340,000	
e cost per Year st	CAD 50,457 CAD 11,000	
it Value) e of Return) Investment) years)	CAD 1,461,866 48.8% 125.29% 2.21	