

Client Background

- Founded in 1985, Wabash, has become a manufacturing powerhouse providing advanced engineering solutions in transportation, logistics and distribution. Nine years after being founded, they achieved the number one market position in their industry.
- Wabash has created a culture of safety and sustainability that supports its customers. Their missions are Safety, Sustainability, Community Support.
- The main facility in this project is in Goshen, Indiana. It is one of five facilities across the country that produces a variety of final mile solutions – dry freight body, cargo body, cargo XL body, and conventional refrigerated freight body.

Problem Statement

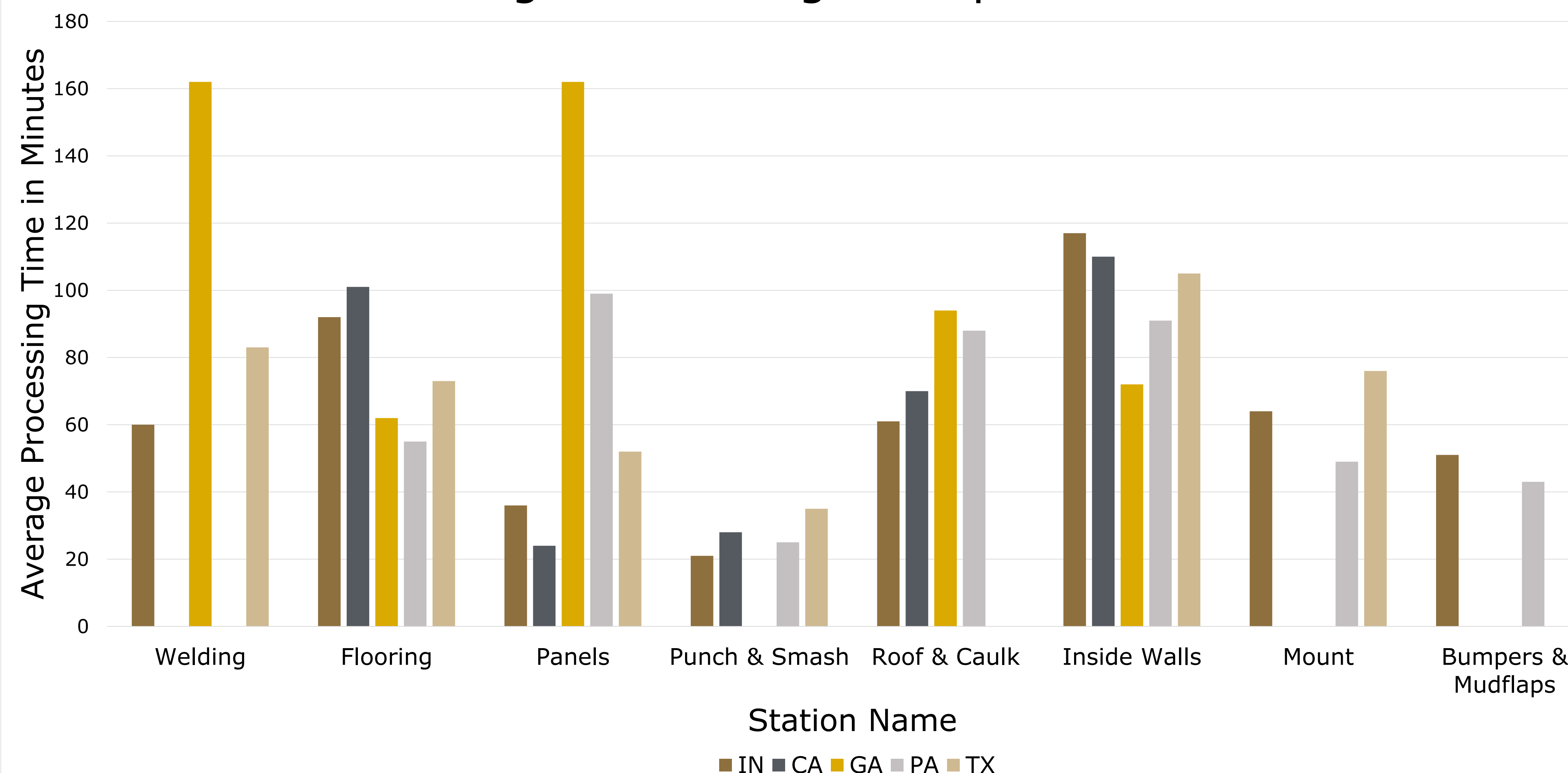
- Wabash offers a diverse range of products, including different body types, body sizes, option content, and chassis, in response to customer demand. However, the wide product variation makes it challenging for Wabash to gather extensive data.
- The layout of Wabash's plants presents challenges in optimizing production lines, but it also creates opportunities for improving efficiency.
- Because of the variability in Wabash's work, the standard work procedures do not cover every possible build or option combination. Instead, workers rely on their tribal knowledge and experience.
- The combination of product variations and facility layout challenges can lead to inconsistent cycle times in Wabash's operations. This inconsistency can result in less efficient production and performance that may not meet expectations.

Results

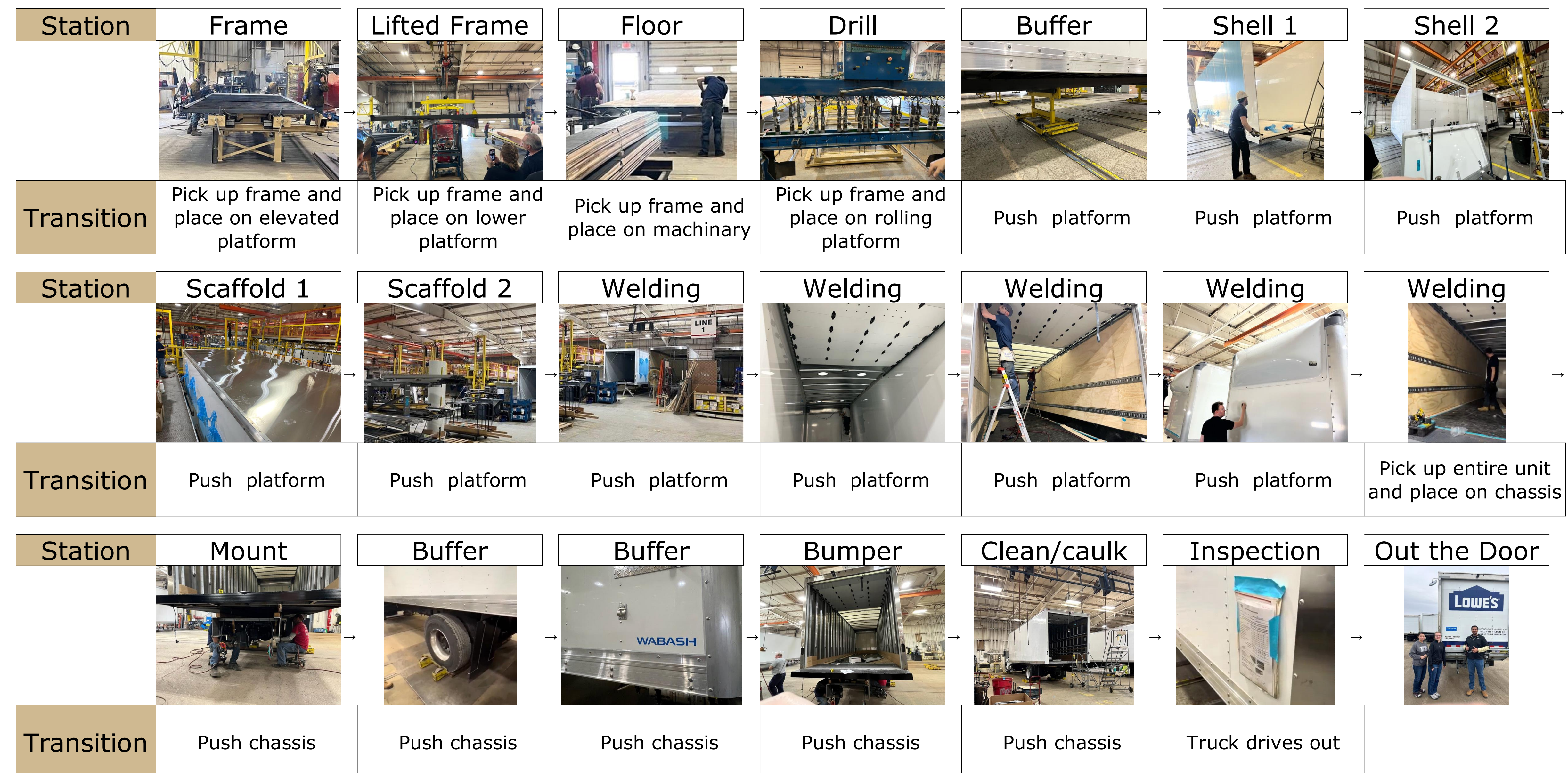
	Welding	Flooring	Panels	Punch & Smash	Roof & Caulk	Inside Walls	Mount	Bumpers & Mudflaps
IN	60	92	36	21	61	117	64	51
CA	-	101	24	28	70	110	-	-
GA	162	62	162	-	94	72	-	-
PA	-	55	99	25	88	91	49	43
TX	83	73	52	35	-	105	76	-

Make this one station

Average Processing Time per Station



System Model



	Workers/Shift	Hours/Shift	Trucks/Shift	Trucks/Hour	Trucks/Worker
IN	53	8	7	0.88	0.13
CA	22	9	5	0.56	0.23
GA	28	10	6	0.60	0.21
TX	29	7.25	4	0.55	0.14

Cycle Time Analysis across Facilities

