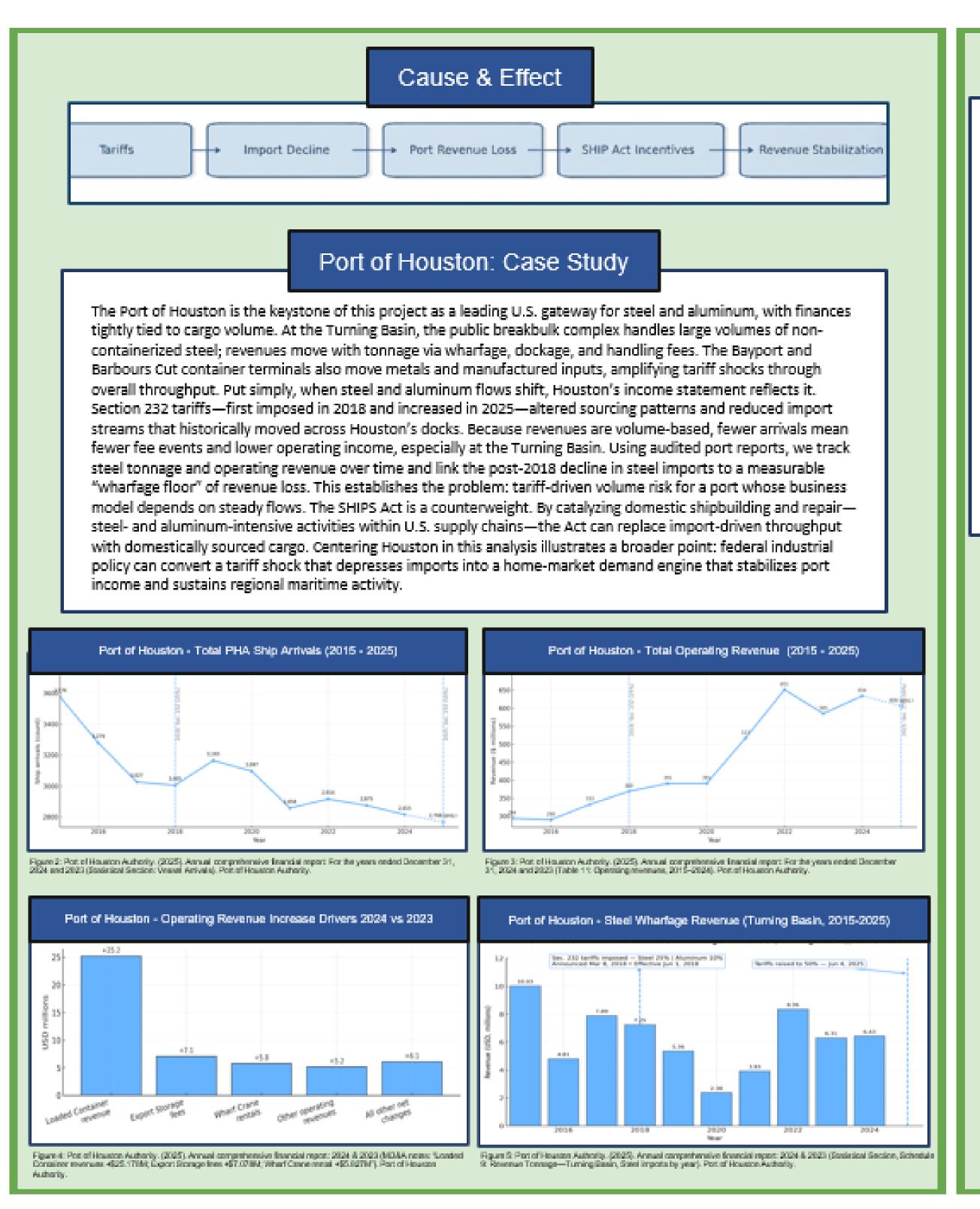


data, and port operating data, we track

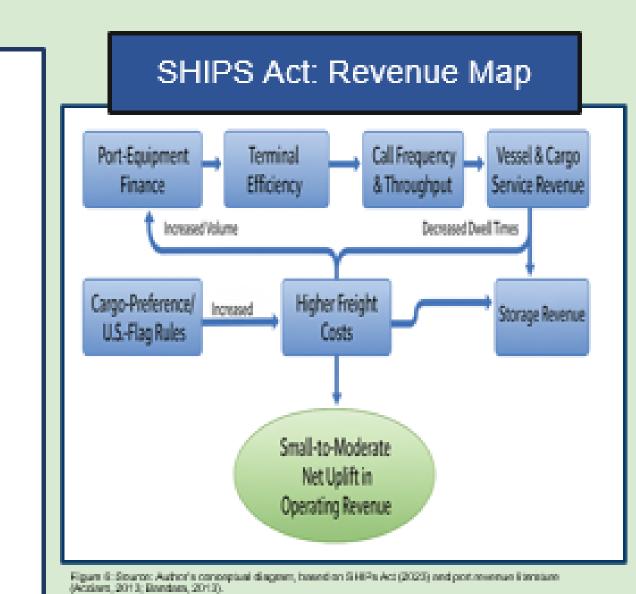
shifts to local port resilience.

2018-2025 trends to connect federal policy



Policy Effect

A SHIP(S) package—cargo-preference/U.S.-flag expansion plus port-equipment finance would likely raise call frequency and throughput by speeding crane and berth upgrades and shortening turn times, mechanisms linked to lower transport costs and higher trade (Clark et al., 2004; Sánchez et al., 2003; Limao & Venables, 2001). Efficiency shifts revenue toward wharfage, dockage, and stevedoring as time in port falls (Notteboom et al., 2020) and can reduce storage/demurrage per unit when dwell drops. Because many port-call charges are fixed, carriers consolidate loops into fewer, larger calls at efficient gateways. With SHIP-driven capex, trimmed rotations should concentrate Gulf calls at Port Houston—given scale, crane density, rail reach, and petrochemical/project-cargo depth. Countervailing: cargo-preference/U.S.-flag rules raise freight and can thin some foreign trades (Hoxie et al., 2022). Net for Houston: small-to-moderate operating-revenue uplift from more/larger calls and higher crane utilization; storage ambiguous (volume ↑, dwell ↓). As funds are capex-oriented gains arrive indirectly via activity/productivity, not direct operating transfers (Bottasso et al., 2014).



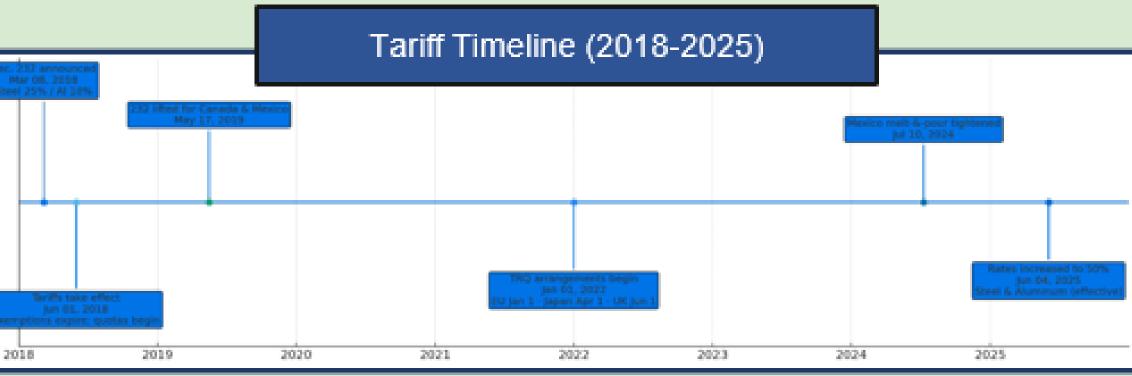


Figure 7: Thump, D. J. (2016, March 6). Preciamation 9705 of March 6, 2018: Adjusting imports of steel into the United States. Federal Register, 83(50), 11625–11636. https://www.govinto.gov/content/pkg/FR-2016-03-15/pdf2616-05-176.pdf

Conclusion

Section 232 tariffs reshaped the Texas port cargo mix. At Port Houston's Turning Basin, steel imports fell by approximately 714,000 short tons from 2018 to 2019, creating an estimated \$1.9 million wharfage shortfall tied to tariffed steel. Yet overall throughput and total operating revenue rose through 2024, indicating a targeted vulnerability rather than a system-wide collapse. Our graphs and sourced data suggest that replacing lost foreign steel with domestic shipbuilding and repair cargo—supported by SHIP Act incentives—can keep steel-linked revenue whole, with potential upside from dockage, storage, and related movements. Practically, Houston should pivot toward U.S. shipbuilding activity (new builds, repairs, modules, plate/sections) to sustain utilization while re-anchoring volumes domestically. We use audited public-terminal steel data and a conservative wharfage floor; containerized steel and ancillary fees likely raise the true effect. After the 2025 move to 50% tariffs, track steel/metal import tonnage, shipyard-linked domestic tonnage, Turning Basin revenue, and SHIP Act project awards to confirm stabilization.

Cargo to Capital: How Policy Hits Ports

Domestic

& Fleet Expansion

Omar Mourad, Arian Estrada, Mohammad Malik, Phoenix Tafoya Faculty Advisor: Professor Margaret Kidd University of Houston



