

ASTRAZENECA CASH FLOW DASHBOARD

Weekly Cash Flow Analysis & Forecasting | Prophet Model Baseline

Report Generated: December 19, 2025

COUNTRIES

8

Active Entities

DATA PERIOD

44 Weeks

Jan - Nov 2025

NET CASH FLOW

\$-4.2M

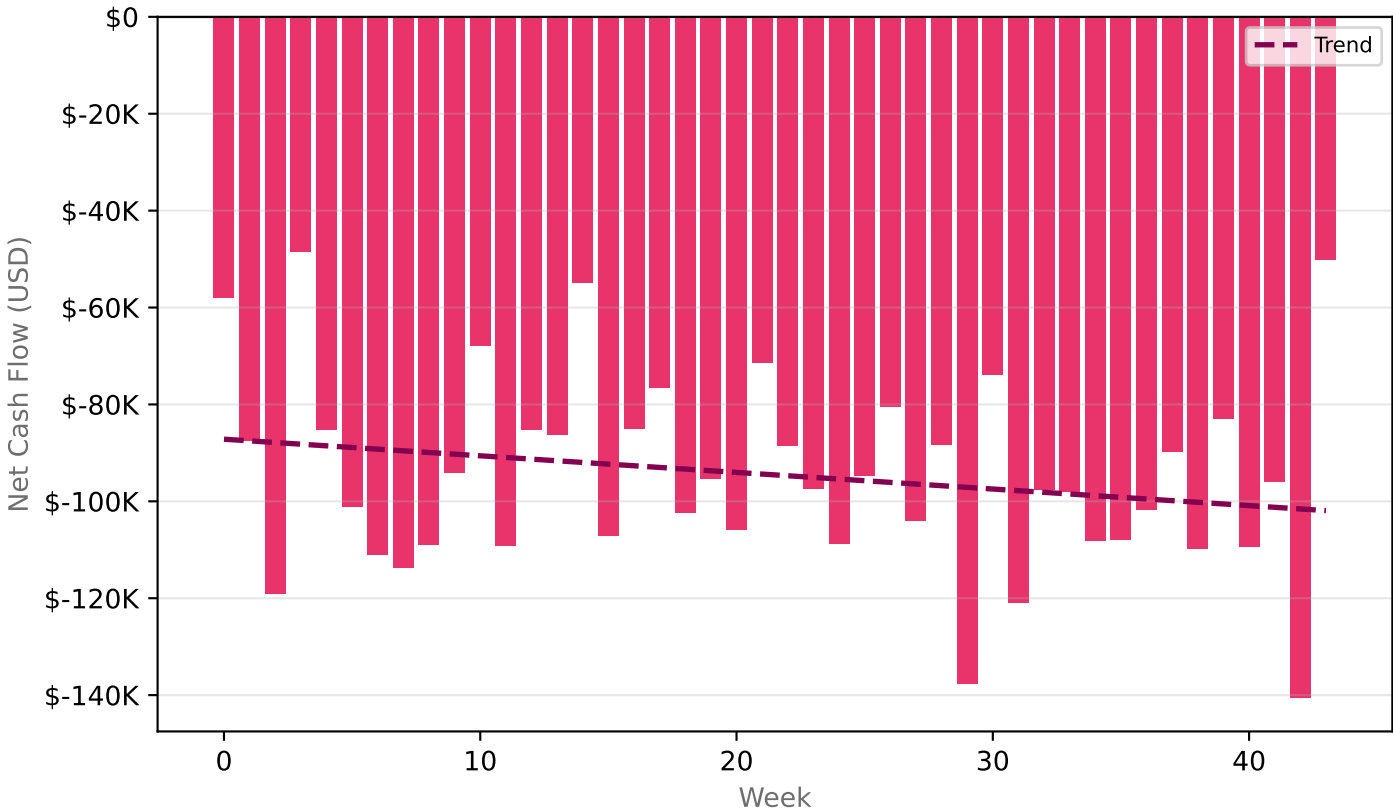
Total USD

AVG WEEKLY

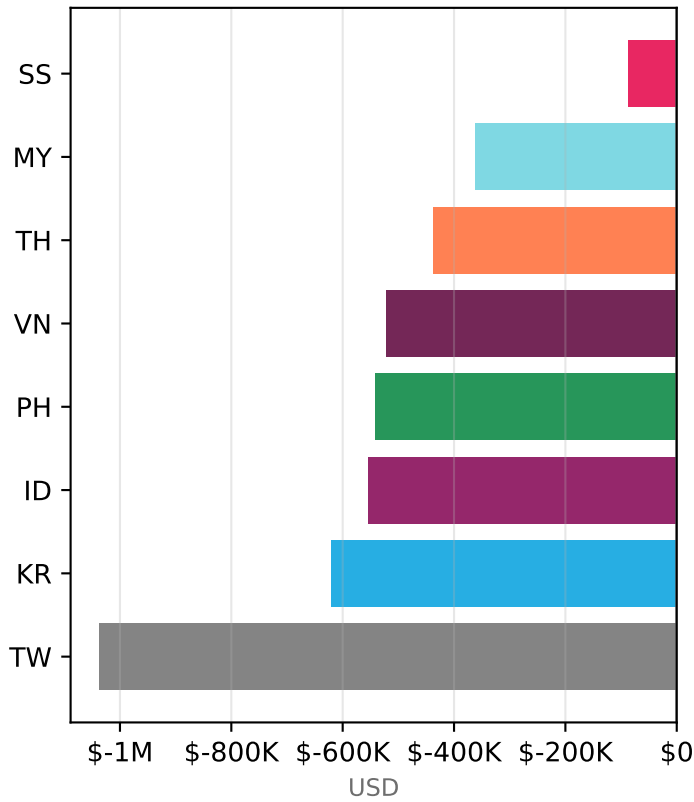
\$-94.5K

Per Week

Weekly Net Cash Flow Trend (All Countries)



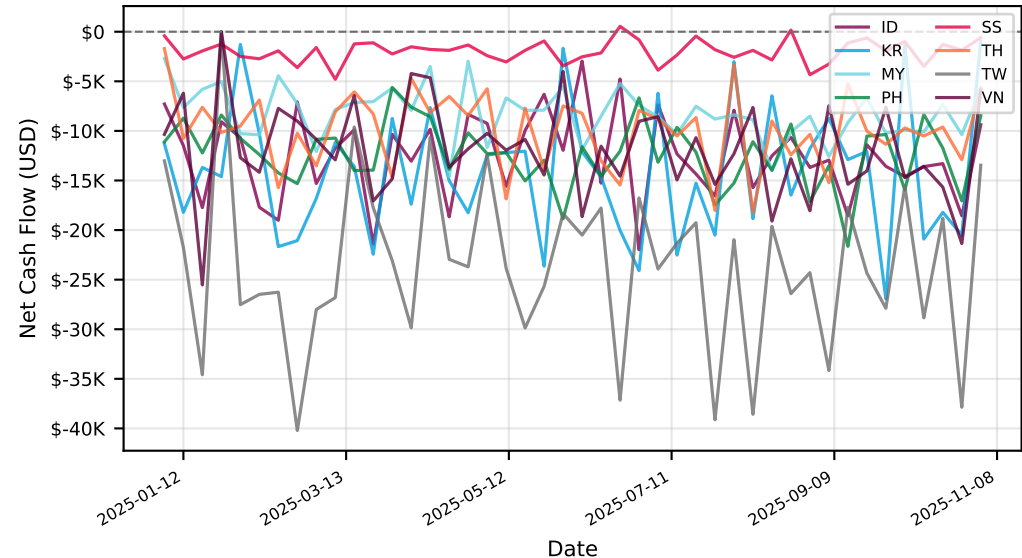
Net Cash Flow by Country



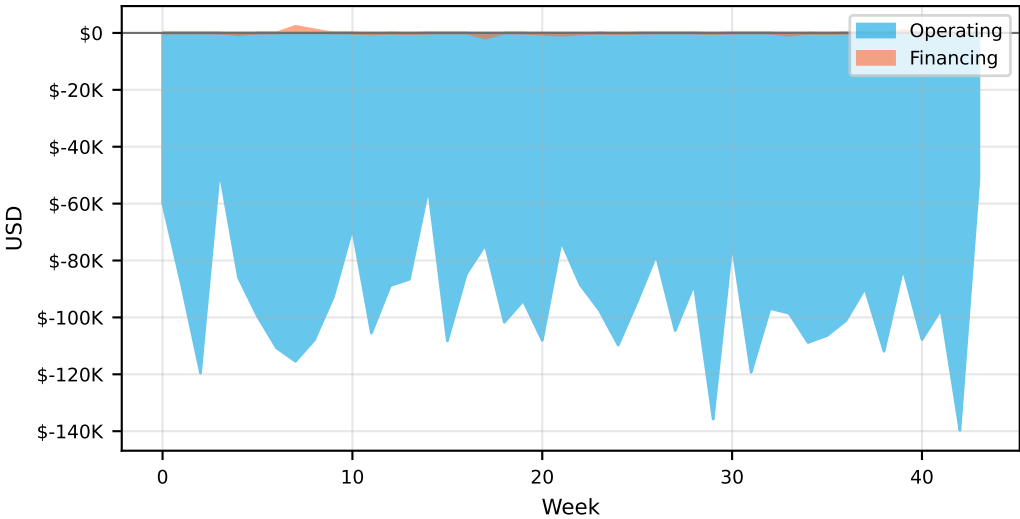
CASH FLOW TRENDS & CATEGORY ANALYSIS

Historical patterns and breakdown by operating categories

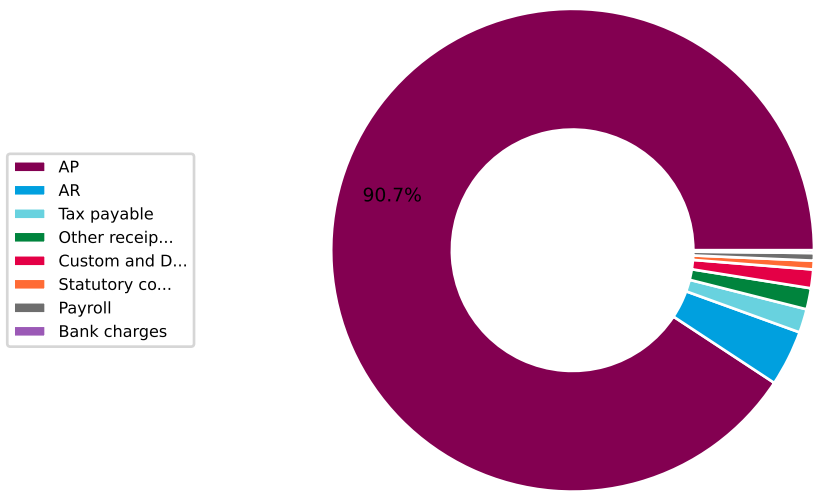
Weekly Cash Flow by Country



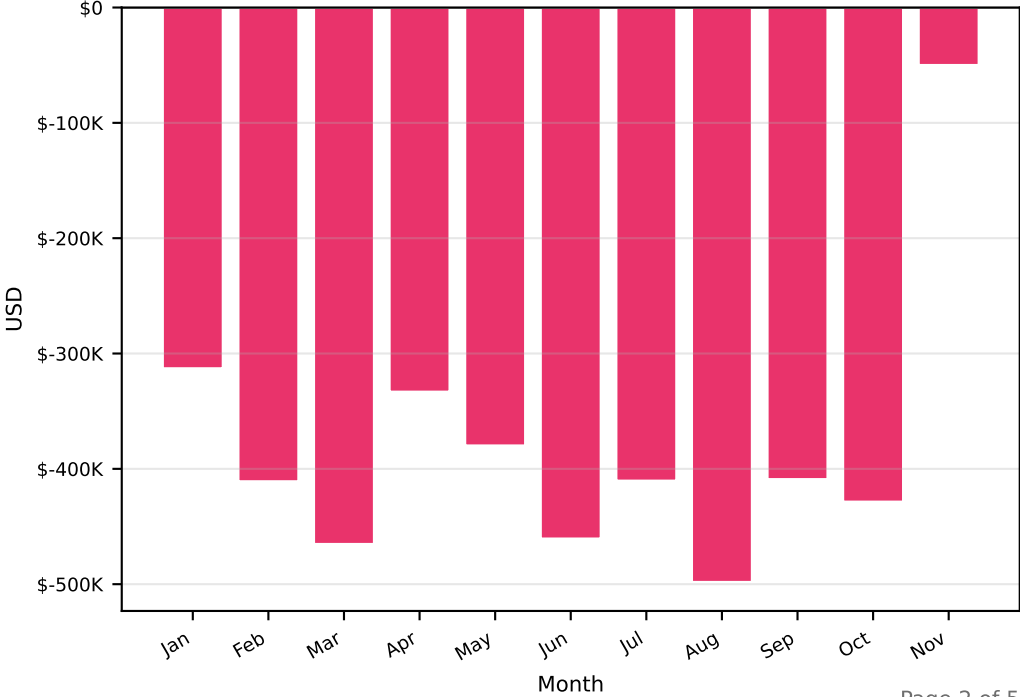
Operating vs Financing Cash Flow



Cash Flow by Category (Top 8)



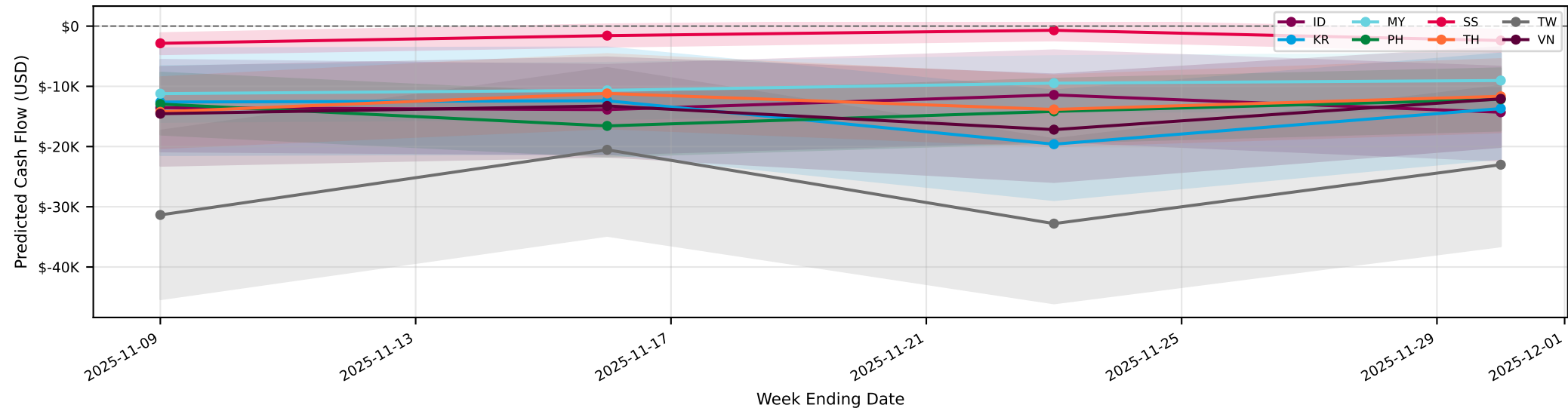
Monthly Net Cash Flow Pattern



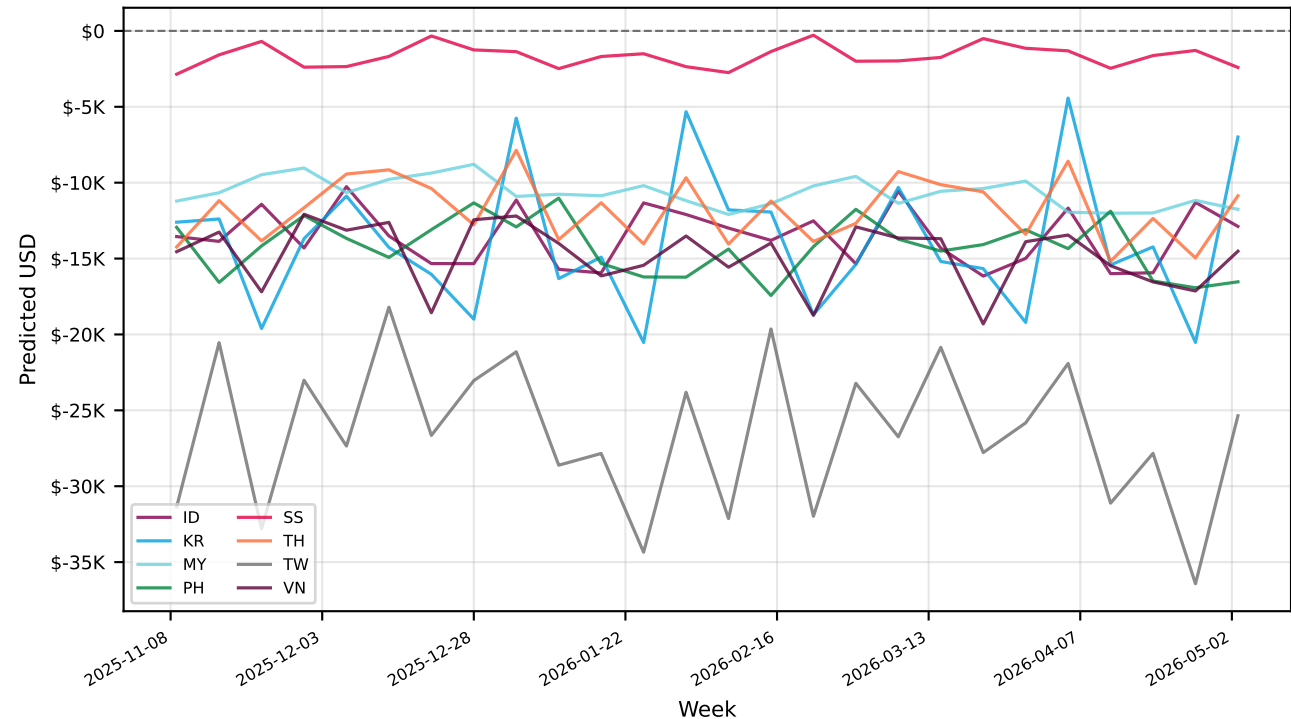
PROPHET FORECAST RESULTS

1-Week, 1-Month, and 6-Month forecasts using Prophet time series model

1-Month Forecast (4 Weeks Ahead) with 95% Confidence Interval



6-Month Forecast (26 Weeks Ahead)



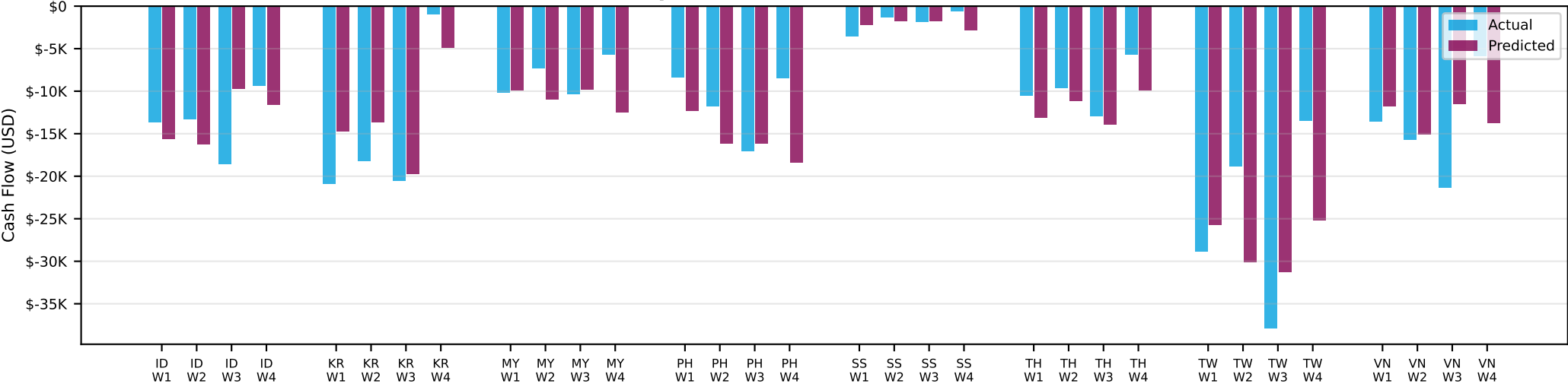
Forecast Summary

Country	1-Month	6-Month
ID	\$-53.1K	\$-352.2K
KR	\$-58.3K	\$-361.1K
MY	\$-40.4K	\$-277.2K
PH	\$-55.8K	\$-369.9K
SS	\$-7.5K	\$-43.4K
TH	\$-50.9K	\$-306.4K
TW	\$-107.7K	\$-689.6K
VN	\$-57.1K	\$-384.0K

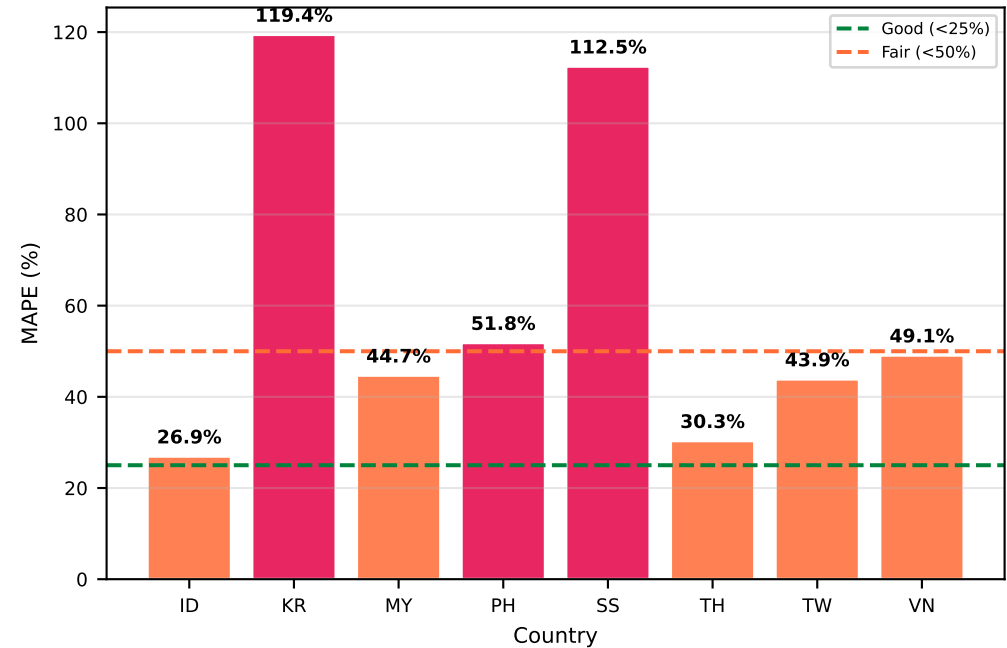
MODEL VALIDATION & PERFORMANCE

Backtesting results comparing actual vs predicted cash flows

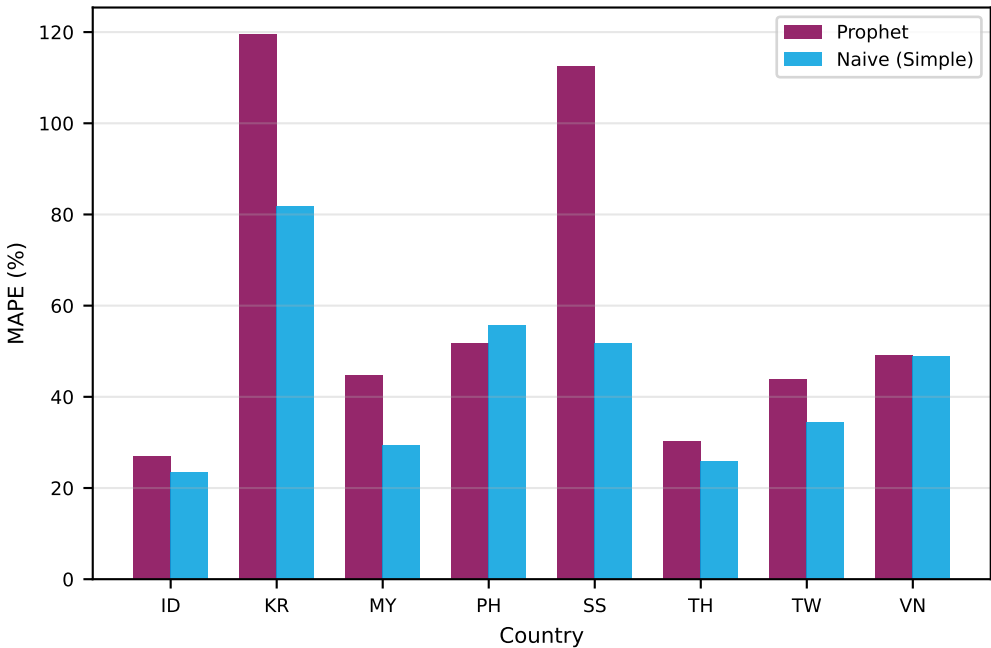
Actual vs Prophet Predicted (4-Week Validation Period)



Prophet MAPE by Country



Prophet vs Naive Baseline



INSIGHTS & RECOMMENDATIONS

Key findings and actionable recommendations for finance teams

KEY INSIGHTS

[Cash Flow Patterns]

- Consistent negative net cash flow across most countries
- Operating cash flows dominate (AP payments, Payroll)
- Month-end patterns visible in weekly data

[Forecast Performance]

- Prophet model shows variable accuracy by country
- Best performance: ID, TH (MAPE < 30%)
- Challenging: KR, SS (high volatility)

[Liquidity Observations]

- Short-term liquidity risk: All countries show negative projected cash flows
- 6-month outlook: Stable negative trend expected
- Key drivers: Accounts Payable, Payroll cycles

[Data Quality Notes]

- 44 weeks of historical data (Jan-Nov 2025)
- 8 countries/entities analyzed
- Clean data with no missing values

RECOMMENDATIONS

[Short-Term Actions: 1-4 Weeks]

- Monitor high-volatility countries (KR, SS)
- Review AP payment timing for optimization
- Set up alerts for cash flow deviations > 20%

[Medium-Term Actions: 1-6 Months]

- Implement rolling forecast updates (weekly)
- Consider ensemble model approach
- Add external regressors (FX rates, seasonality)

[Model Improvements]

- Collect more historical data for better training
- Add ARIMA/XGBoost for comparison
- Implement anomaly detection pipeline

[Dashboard Enhancements]

- Add real-time data refresh capability
- Include drill-down by transaction type
- Integrate with Power BI for interactivity

MODEL PERFORMANCE SUMMARY

Country	RMSE (USD)	MAE (USD)	MAPE	Status
ID	\$4,907	\$3,995	26.9%	Good
KR	\$4,334	\$3,872	119.4%	Review
MY	\$3,887	\$2,817	44.7%	Fair
PH	\$5,795	\$4,791	51.8%	Fair
SS	\$1,306	\$1,024	112.5%	Review
TH	\$2,620	\$2,319	30.3%	Fair
TW	\$8,921	\$8,189	43.9%	Fair
VN	\$6,371	\$5,041	49.1%	Fair