Best models overall, per region, country, sector and industry

Table 1: Methods providing the three best performing models per forecast horizon for EBIT, Net Income and ${\it EPS}$

	sMAPE	MASE	sMIS
EBIT Quarter (1)	ARIMA ARNN Simple	ARIMA ARNN Simple	ARIMA Drift Holt
Year (1-4)	ARNN ARIMA Simple	ARIMA ARNN Simple	ARIMA Snaive Holt
Long (5-6)	ARNN Simple GRU	ARNN GRU Simple	ARNN Simple ARIMA
Total (1-6)	ARNN Simple GRU	ARNN Simple ARIMA	ARIMA ARNN Snaive
Net Incom	ne		
Quarter (1)	ARIMA ARNN Holt	ARIMA ARNN Simple	ARIMA Drift Holt
Year (1-4)	ARNN ARIMA Simple	ARNN ARIMA Simple	Snaive Naive ARIMA
Long (5-6)	ARNN Simple GRU	ARNN GRU Simple	Naive ARIMA Snaive
Total (1-6)	ARNN Simple GRU	ARNN ARIMA GRU	Naive Snaive ARIMA
EPS			
Quarter (1)	ARIMA ARNN Simple	ARIMA ARNN Simple	ARIMA Drift Holt
Year (1-4)	ARNN ARIMA Simple	ARIMA ARNN Simple	ARIMA Naive Drift
Long (5-6)	ARNN Simple GRU	ARNN GRU Simple	Naive ARIMA Drift
Total (1-6)	ARNN Simple GRU	ARNN ARIMA Simple	Naive ARIMA Drift

Table 2: Methods providing the three best performing models by sMAPE, MASE and sMIS per forecast horizon by index

	sMA	APE	MA	ASE	sN	/IIS
	SPX	SXXR	SPX	SXXR	SPX	SXXR
EBIT						
Quarter (1)	ARIMA ARNN Holt	ARNN ARIMA Simple	ARIMA ARNN Simple	ARIMA ARNN Simple	ARIMA Holt Drift	ARIMA Drift Naive
Year (1-4)	ARNN ARIMA Simple	ARNN Simple Snaive	ARIMA ARNN Simple	ARNN ARIMA Snaive	Snaive ARIMA Holt	ARIMA Snaive Holt
Long (5-6)	ARNN Simple GRU	ARNN Simple GRU	ARNN GRU Simple	ARNN GRU Simple	ARNN Simple ARIMA	ARIMA Snaive ARNN
Total (1-6)	ARNN Simple GRU	ARNN Simple GRU	ARNN Simple ARIMA	ARNN ARIMA Simple	ARNN ARIMA Simple	ARIMA Snaive Holt
Net Incom	ne					
Quarter (1)	ARIMA ARNN Holt	ARIMA ARNN Simple	ARIMA ARNN Simple	ARIMA ARNN Simple	Drift ARIMA Holt	ARIMA Drift Naive
Year (1-4)	ARNN ARIMA Simple	ARNN Simple ARIMA	ARIMA ARNN Simple	ARNN ARIMA Simple	Naive Drift ARIMA	ARIMA Snaive Holt
Long (5-6)	ARNN Simple GRU	Simple ARNN GRU	ARNN GRU Simple	ARNN Simple GRU	Naive Drift ARNN	ARIMA Snaive Holt
Total (1-6)	ARNN Simple GRU	ARNN Simple GRU	ARNN ARIMA GRU	ARNN Simple ARIMA	Naive Drift ARIMA	ARIMA Snaive Holt
EPS						
Quarter (1)	ARIMA ARNN Holt	ARNN ARIMA Simple	ARIMA ARNN Simple	ARIMA ARNN Simple	ARIMA Drift Holt	ARIMA Drift Holt
Year (1-4)	ARNN ARIMA Simple	ARNN Simple ARIMA	ARIMA ARNN Simple	ARNN ARIMA Simple	Naive Drift Snaive	ARIMA Snaive Holt
Long (5-6)	ARNN GRU Simple	ARNN Simple LSTM	ARNN GRU Simple	ARNN Simple GRU	Naive Drift ARIMA	Snaive ARIMA Holt
Total (1-6)	ARNN Simple GRU	ARNN Simple GRU	ARNN GRU ARIMA	ARNN Simple ARIMA	Naive Drift Snaive	ARIMA Snaive Holt

Table 3: Methods providing the three best performing models by sMAPE, MASE and sMIS per forecast horizon by country

		sMAPE			MASE			sMIS	
	GER	SWE	USA	GER	SWE	USA	GER	SWE	USA
EBIT									
Quarter (1)	ARIMA ARNN Simple	ARNN Simple GRU	ARIMA ARNN Holt	ARIMA ARNN Simple	ARIMA ARNN Simple	ARIMA ARNN Simple	ARIMA Naive Drift	ARIMA Drift ARNN	ARIMA Holt Drift
Year (1-4)	ARNN Simple ARIMA	ARNN Simple GRU	ARNN ARIMA Simple	ARIMA ARNN Snaive	ARNN ARIMA Snaive	ARIMA ARNN Simple	ARIMA Snaive ARNN	ARIMA Holt Naive	Snaive ARIMA ARNN
Long (5-6)	ARNN GRU Simple	ARNN LSTM GRU	ARNN Simple GRU	ARNN GRU Simple	ARNN GRU LSTM	ARNN GRU Simple	ARIMA Snaive ARNN	Naive Snaive ARIMA	ARNN Simple ARIMA
Total (1-6)	ARNN Simple GRU	ARNN Simple LSTM	ARNN Simple GRU	ARNN ARIMA Simple	ARNN ARIMA GRU	ARNN Simple ARIMA	ARIMA Snaive ARNN	ARIMA Naive Snaive	ARNN ARIMA Simple
Net Incom	ne								
Quarter (1)	ARIMA Drift ARNN	ARNN GRU ARIMA	ARIMA ARNN Holt	ARIMA ARNN LSTM	ARIMA ARNN Simple	ARIMA ARNN Simple	ARIMA Drift Naive	ARIMA Holt Snaive	ARIMA Drift Holt
Year (1-4)	Snaive ARIMA ARNN	ARNN Simple Holt	ARNN ARIMA Simple	ARIMA ARNN Simple	ARNN ARIMA Simple	ARIMA ARNN Simple	ARIMA Snaive Holt	ARIMA Snaive Holt	Naive Drift ARIMA
Long (5-6)	Simple GRU ARNN	Simple ARNN GRU	ARNN GRU Simple	ARNN Simple GRU	ARNN Simple GRU	ARNN GRU Simple	Simple Snaive ARIMA	Snaive ARIMA Holt	Naive Drift ARNN
Total (1-6)	ARNN Snaive ARIMA	ARNN Simple GRU	ARNN Simple GRU	ARNN ARIMA Simple	ARNN Simple ARIMA	ARNN ARIMA GRU	ARIMA Snaive ARNN	Snaive ARIMA Holt	Naive Drift ARIMA
EPS									
Quarter (1)	ARIMA Drift Naive	ARNN ARIMA Simple	ARIMA ARNN Holt	ARIMA ARNN Snaive	ARIMA ARNN Simple	ARIMA ARNN Simple	Naive Drift ARIMA	ARIMA Holt Snaive	ARIMA Drift Holt
Year (1-4)	Snaive ARNN ARIMA	ARNN Simple Holt	ARNN ARIMA Simple	ARNN ARIMA GRU	ARNN ARIMA Simple	ARIMA ARNN Simple	ARIMA Snaive Naive	ARIMA Snaive Holt	Naive Drift Snaive
Long (5-6)	ARNN Simple LSTM	ARNN Simple GRU	ARNN Simple GRU	ARNN LSTM Simple	ARNN GRU LSTM	ARNN GRU Simple	Snaive ARIMA ARNN	Snaive Holt ARIMA	Naive Drift ARIMA
Total (1-6)	ARNN ARIMA Snaive	ARNN Simple GRU	ARNN Simple GRU	ARNN ARIMA GRU	ARNN ARIMA Simple	ARNN GRU ARIMA	ARIMA Snaive ARNN	Snaive ARIMA Holt	Naive Drift Snaive

Table 4: Methods providing the three best performing models by sMAPE per forecast horizon by sector

	CD	CS	нс	IT	Industry	Material	Utils
EBIT							
Quarter (1)	ARIMA ARNN Snaive	ARIMA ARNN Snaive	Holt ARIMA ARNN	ARIMA Holt ARNN	ARIMA Naive Drift	ARIMA ARNN Naive	ARNN Snaive ARIMA
Year (1-4)	ARNN ARIMA Snaive	ARNN ARIMA Simple	ARNN ARIMA GRU	ARNN Simple GRU	ARNN ARIMA Naive	ARNN Simple ARIMA	ARNN ARIMA GRU
Long (5-6)	ARNN Simple GRU	ARNN Simple GRU	ARNN GRU Simple	ARNN Simple LSTM	ARNN Simple GRU	ARNN Simple LSTM	ARNN GRU LSTM
Total (1-6)	ARNN Simple GRU	ARNN Simple ARIMA	ARNN GRU Simple	ARNN Simple GRU	ARNN ARIMA Simple	ARNN Simple LSTM	ARNN GRU LSTM
Net Incom	ne						
Quarter (1)	ARIMA ARNN Simple	ARIMA ARNN Snaive	Holt ARIMA Naive	ARIMA Holt Drift	Drift Naive ARIMA	ARIMA Drift ARNN	Snaive ARNN ARIMA
Year (1-4)	ARNN ARIMA Snaive	Simple ARNN ARIMA	ARNN ARIMA GRU	ARNN Holt Simple	ARIMA Naive ARNN	ARNN ARIMA Simple	ARNN Simple Snaive
Long (5-6)	ARNN Simple LSTM	ARNN Simple GRU	GRU ARNN Simple	Simple GRU ARNN	ARNN Simple GRU	Simple ARNN GRU	ARNN Simple GRU
Total (1-6)	ARNN Simple ARIMA	ARNN Simple GRU	ARNN GRU Simple	ARNN Simple GRU	ARNN ARIMA Naive	ARNN Simple GRU	ARNN Simple ARIMA
EPS							
Quarter (1)	ARIMA ARNN GRU	ARIMA ARNN Simple	Holt Naive ARNN	ARIMA Holt Drift	ARIMA Drift Naive	Naive ARIMA Drift	Snaive ARNN ARIMA
Year (1-4)	ARNN ARIMA Snaive	ARNN Simple ARIMA	ARNN GRU ARIMA	ARNN Simple GRU	ARIMA ARNN Naive	ARNN ARIMA Simple	ARNN Snaive GRU
Long (5-6)	ARNN Simple GRU	ARNN GRU Simple	GRU ARNN LSTM	ARNN Simple GRU	ARNN GRU Simple	Simple GRU ARNN	ARNN Simple GRU
Total (1-6)	ARNN GRU ARIMA	ARNN Simple GRU	ARNN GRU Simple	ARNN Simple GRU	ARNN ARIMA Naive	ARNN Simple GRU	ARNN Simple Snaive

Table 5: Methods providing the three best performing models by MASE per forecast horizon by sector

	CD	CS	НС	IT	Industry	Material	Utils
EBIT							
Quarter (1)	ARIMA ARNN Snaive	ARIMA ARNN Snaive	ARIMA Holt ARNN	ARIMA ARNN Simple	ARIMA Naive Drift	ARIMA Drift Naive	Snaive ARIMA ARNN
Year (1-4)	ARIMA ARNN Snaive	ARIMA ARNN Snaive	ARNN ARIMA GRU	ARNN ARIMA Simple	ARIMA ARNN Simple	ARNN ARIMA Simple	ARNN Snaive ARIMA
Long (5-6)	ARNN Simple GRU	ARNN Simple LSTM	GRU ARNN Simple	ARNN GRU Simple	ARNN GRU Simple	Simple ARNN LSTM	ARNN GRU Simple
Total (1-6)	ARNN ARIMA Simple	ARNN Simple ARIMA	ARNN GRU Simple	ARNN Simple GRU	ARNN ARIMA Simple	ARNN Simple GRU	ARNN ARIMA Snaive
Net Incom	ne						
Quarter (1)	ARIMA ARNN Simple	ARIMA ARNN Snaive	Holt ARIMA ARNN	ARIMA ARNN Holt	ARIMA Drift Naive	Drift ARIMA Naive	Snaive ARIMA ARNN
Year (1-4)	ARIMA ARNN GRU	ARIMA ARNN Simple	ARNN ARIMA GRU	ARNN ARIMA Simple	ARIMA ARNN Drift	ARNN ARIMA Simple	ARIMA ARNN Snaive
Long (5-6)	ARNN GRU Simple	ARNN GRU Simple	GRU ARNN Simple	ARNN GRU Simple	ARNN GRU Simple	Simple ARNN GRU	ARNN ARIMA Snaive
Total (1-6)	ARNN ARIMA GRU	ARNN ARIMA GRU	ARNN GRU Simple	ARNN Simple GRU	ARIMA ARNN Drift	ARNN Simple ARIMA	ARNN ARIMA Snaive
EPS							
Quarter (1)	ARIMA ARNN Snaive	ARIMA ARNN Snaive	Holt Naive Drift	ARIMA ARNN Holt	ARIMA Naive Drift	ARIMA Drift Naive	Snaive ARIMA ARNN
Year (1-4)	ARIMA ARNN Snaive	ARIMA ARNN Simple	ARNN ARIMA GRU	ARNN ARIMA GRU	ARIMA ARNN Naive	ARIMA ARNN Simple	ARIMA ARNN Snaive
Long (5-6)	ARNN GRU LSTM	ARNN GRU Simple	GRU ARNN LSTM	ARNN GRU Simple	ARNN GRU Simple	Simple ARNN GRU	ARNN ARIMA Snaive
Total (1-6)	ARNN ARIMA GRU	ARNN Simple ARIMA	ARNN GRU LSTM	ARNN GRU Simple	ARNN ARIMA GRU	Simple ARNN ARIMA	ARNN ARIMA Snaive

Table 6: Methods providing the three best performing models by sMIS per forecast horizon by sector

	CD	CS	нс	IT	Industry	Material	Utils
EBIT							
Quarter (1)	ARIMA Snaive ARNN	Snaive ARIMA Holt	Drift Naive Holt	ARIMA Holt ARNN	ARIMA Drift Naive	Drift ARIMA Naive	Snaive ARIMA ARNN
Year (1-4)	Snaive ARNN ARIMA	Snaive ARIMA Simple	Drift Naive Holt	Holt Snaive ARIMA	ARIMA Naive Drift	Naive ARIMA Holt	Snaive ARIMA ARNN
Long (5-6)	ARNN Simple ARIMA	Snaive ARNN ARIMA	Drift Naive ARNN	ARNN Simple Drift	Naive Drift ARIMA	Naive Drift Snaive	Snaive ARIMA ARNN
Total (1-6)	ARNN Snaive ARIMA	Snaive ARIMA Simple	Drift Naive ARNN	ARNN ARIMA Snaive	Naive ARIMA Drift	Naive Drift Snaive	Snaive ARIMA ARNN
Net Incom	ne						
Quarter (1)	ARIMA Simple Snaive	Drift Naive Holt	Holt Drift Naive	Holt ARIMA Drift	Drift ARIMA Naive	ARIMA Naive Drift	ARIMA Snaive Drift
Year (1-4)	ARIMA ARNN Snaive	Naive Snaive Drift	Drift Naive ARIMA	Drift Naive Snaive	Drift Naive ARIMA	Snaive ARIMA Holt	ARIMA Snaive Holt
Long (5-6)	ARNN ARIMA Simple	Naive Snaive Drift	Drift Naive ARNN	Drift Naive ARNN	Drift Naive ARIMA	Snaive Holt ARIMA	ARIMA Snaive Holt
Total (1-6)	ARNN ARIMA Simple	Naive Snaive Drift	Drift Naive Simple	Drift Naive Snaive	Drift Naive ARIMA	Snaive Holt ARIMA	ARIMA Snaive Holt
EPS							
Quarter (1)	ARIMA Snaive ARNN	ARIMA Holt Snaive	Holt Naive Drift	ARIMA Holt Drift	Drift ARIMA Naive	Drift Naive ARIMA	Snaive ARIMA Drift
Year (1-4)	Snaive ARIMA ARNN	Snaive Naive Holt	Drift Naive Snaive	Drift Naive Holt	Drift Naive ARIMA	ARIMA Snaive Holt	ARIMA Snaive Holt
Long (5-6)	ARIMA ARNN Snaive	Snaive Naive ARNN	Drift Naive ARNN	Drift Naive Snaive	Naive Drift ARIMA	Snaive ARIMA Naive	ARIMA Snaive Holt
Total (1-6)	ARIMA Snaive ARNN	Snaive Naive Simple	Drift Naive Snaive	Drift Naive Snaive	Drift Naive ARIMA	ARIMA Snaive Naive	ARIMA Snaive Holt

Table 7: Methods providing the three best performing models by sMAPE per forecast horizon by industry

	Electric	Equity RE	HCE	Machine	Oil, Gas	Semiconduct
EBIT						
Quarter (1)	ARIMA	ARIMA	ARNN	Naive	Naive	Drift
	ARNN	Drift	Naive	ARIMA	Drift	Naive
	Snaive	Naive	Drift	Holt	Holt	Holt
Year (1-4)	ARNN GRU ARIMA	ARNN ARIMA Drift	ARNN Drift Naive	ARIMA ARNN Naive	Naive Drift ARNN	Naive Drift Holt
Long (5-6)	ARNN	ARNN	ARNN	Simple	GRU	Simple
	GRU	GRU	Simple	ARNN	Simple	Drift
	Simple	Simple	GRU	LSTM	ARNN	Naive
Total (1-6)	ARNN	ARNN	ARNN	ARNN	Simple	Naive
	GRU	GRU	Simple	Simple	GRU	Drift
	ARIMA	LSTM	Drift	ARIMA	ARNN	Holt
Net Incom	ne					
Quarter (1)	Snaive	ARNN	Naive	Holt	ARNN	Drift
	LSTM	ARIMA	Drift	ARIMA	Naive	Naive
	ARNN	GRU	ARNN	Naive	Holt	Holt
Year (1-4)	ARNN Simple ARIMA	ARNN GRU Simple	ARNN GRU Simple	ARIMA Holt Naive	ARNN Simple GRU	Drift Naive Holt
Long (5-6)	ARNN	ARNN	GRU	ARNN	GRU	Simple
	Simple	Simple	Simple	Simple	Simple	Drift
	GRU	GRU	ARNN	GRU	ARNN	Naive
Total (1-6)	ARNN	ARNN	ARNN	ARNN	Simple	Drift
	Simple	GRU	GRU	Simple	ARNN	Naive
	ARIMA	Simple	Simple	Naive	GRU	Holt
EPS						
Quarter (1)	Snaive	ARIMA	Naive	Naive	Naive	Drift
	ARNN	Holt	Drift	Drift	Drift	Naive
	ARIMA	ARNN	Holt	ARIMA	ARIMA	Holt
Year (1-4)	ARNN Simple GRU	ARNN GRU Simple	ARNN Naive Drift	Naive ARNN Drift	ARNN Naive ARIMA	Naive Drift Holt
Long (5-6)	ARNN Simple LSTM	ARNN Simple LSTM	ARNN Simple GRU	ARNN LSTM Simple	Simple LSTM ARNN	Simple ARNN Drift
Total (1-6)	ARNN	ARNN	ARNN	ARNN	ARNN	Drift
	Simple	GRU	Simple	Simple	Simple	Naive
	GRU	Simple	GRU	Naive	LSTM	ARNN

Table 8: Methods providing the three best performing models by MASE per forecast horizon by industry

	Electric	Equity RE	HCE	Machine	Oil, Gas	Semiconduct
EBIT						
Quarter (1)	ARIMA	Drift	Holt	Naive	Naive	Naive
	Snaive	Naive	ARIMA	Drift	Drift	Drift
	ARNN	ARIMA	ARNN	ARIMA	ARIMA	ARIMA
Year (1-4)	Snaive ARNN ARIMA	Drift ARNN ARIMA	ARNN ARIMA GRU	ARIMA ARNN Naive	Naive Drift ARNN	Naive Drift ARNN
Long (5-6)	ARNN	GRU	GRU	Simple	Simple	Simple
	GRU	ARNN	ARNN	ARNN	GRU	GRU
	ARIMA	LSTM	Simple	GRU	ARNN	ARNN
Total (1-6)	ARNN	GRU	ARNN	ARNN	Simple	Simple
	ARIMA	ARNN	GRU	Simple	Naive	ARNN
	Snaive	Drift	Simple	ARIMA	ARNN	GRU
Net Incom	ne					
Quarter (1)	Snaive	ARNN	ARNN	Holt	ARNN	Drift
	ARIMA	ARIMA	Holt	ARIMA	ARIMA	Naive
	ARNN	Holt	ARIMA	Naive	Holt	Holt
Year (1-4)	ARNN	ARNN	ARNN	ARIMA	Simple	Naive
	ARIMA	Simple	Simple	Naive	ARNN	ARNN
	Snaive	GRU	GRU	Holt	GRU	Simple
Long (5-6)	ARNN	ARNN	GRU	Simple	Simple	Simple
	ARIMA	GRU	ARNN	ARNN	GRU	ARNN
	Snaive	LSTM	Simple	GRU	ARNN	GRU
Total (1-6)	ARNN	ARNN	ARNN	ARNN	Simple	Simple
	ARIMA	GRU	GRU	Simple	ARNN	ARNN
	Snaive	Simple	Simple	Naive	GRU	Naive
EPS						
Quarter (1)	Snaive	Holt	Holt	Naive	Naive	Naive
	ARIMA	ARIMA	Naive	ARIMA	Drift	Drift
	ARNN	ARNN	ARIMA	Drift	ARIMA	Holt
Year (1-4)	ARNN	ARNN	ARNN	Naive	Simple	ARNN
	Snaive	Simple	ARIMA	ARNN	ARNN	Naive
	ARIMA	GRU	GRU	ARIMA	Naive	Simple
Long (5-6)	ARNN	Simple	GRU	Simple	Simple	Simple
	Snaive	LSTM	ARNN	ARNN	LSTM	ARNN
	LSTM	ARNN	LSTM	GRU	ARNN	LSTM
Total (1-6)	ARNN	ARNN	ARNN	ARNN	Simple	ARNN
	Snaive	Simple	GRU	Simple	ARNN	Simple
	ARIMA	GRU	Simple	Naive	GRU	LSTM

Table 9: Methods providing the three best performing models by sMIS per forecast horizon by industry

	Electric	Equity RE	HCE	Machine	Oil, Gas	Semiconduct
EBIT						
Quarter (1)	Snaive ARIMA Drift	Drift Naive Holt	Naive Drift Holt	Drift Naive ARIMA	Naive Drift Holt	Naive Drift Holt
Year (1-4)	Snaive ARIMA Holt	Drift Naive Holt	Drift Naive Holt	Naive Drift ARIMA	Naive Drift Snaive	Naive Drift Holt
Long (5-6)	Snaive ARIMA ARNN	Drift ARNN Naive	Drift Naive ARNN	Naive ARIMA Drift	Naive Drift Snaive	Drift Naive Snaive
Total (1-6)	Snaive ARIMA ARNN	Drift Naive ARNN	Drift Naive ARNN	Naive Drift ARIMA	Naive Drift Snaive	Drift Naive Holt
Net Incom	ne					
Quarter (1)	Snaive ARIMA Drift	Naive Drift ARIMA	Holt Naive Drift	Holt Drift ARIMA	Drift Naive Holt	Drift ARIMA Naive
Year (1-4)	ARIMA Snaive Holt	ARIMA Naive Holt	Naive Drift Simple	Naive Drift Holt	Naive Drift Snaive	Naive Drift Snaive
Long (5-6)	ARIMA Snaive Holt	ARIMA Snaive Holt	Naive Drift Simple	Simple Naive Holt	Snaive Naive Drift	Snaive Naive Drift
Total (1-6)	ARIMA Snaive Holt	ARIMA Snaive Holt	Naive Drift Simple	Naive Drift Holt	Naive Drift Snaive	Naive Drift Snaive
EPS						
Quarter (1)	Snaive ARIMA Drift	Holt Drift Naive	Naive Holt Drift	Naive Drift ARIMA	Drift Naive Holt	Drift Holt Naive
Year (1-4)	Snaive ARIMA Holt	Drift Naive Holt	Naive Drift Snaive	Naive Drift Holt	Naive Drift Snaive	Naive Drift Holt
Long (5-6)	Snaive ARIMA Holt	Drift Naive Snaive	Drift Naive ARNN	Naive Drift Simple	Naive Drift Snaive	Snaive Naive Drift
Total (1-6)	Snaive ARIMA Holt	Drift Naive Snaive	Drift Naive Snaive	Naive Drift Holt	Naive Drift Snaive	Naive Drift Snaive