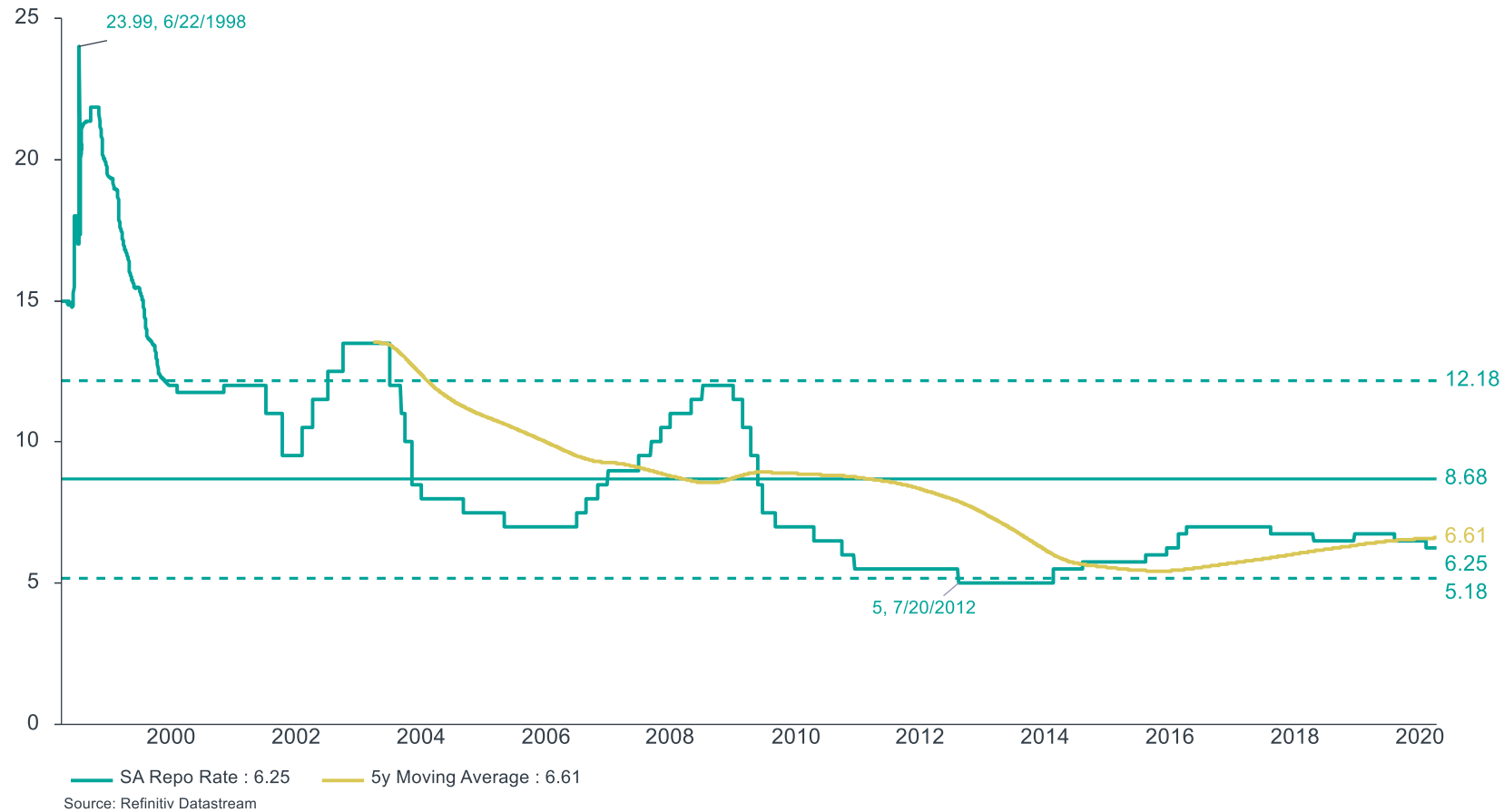




20 March 2020

CHART BOOK: MINI

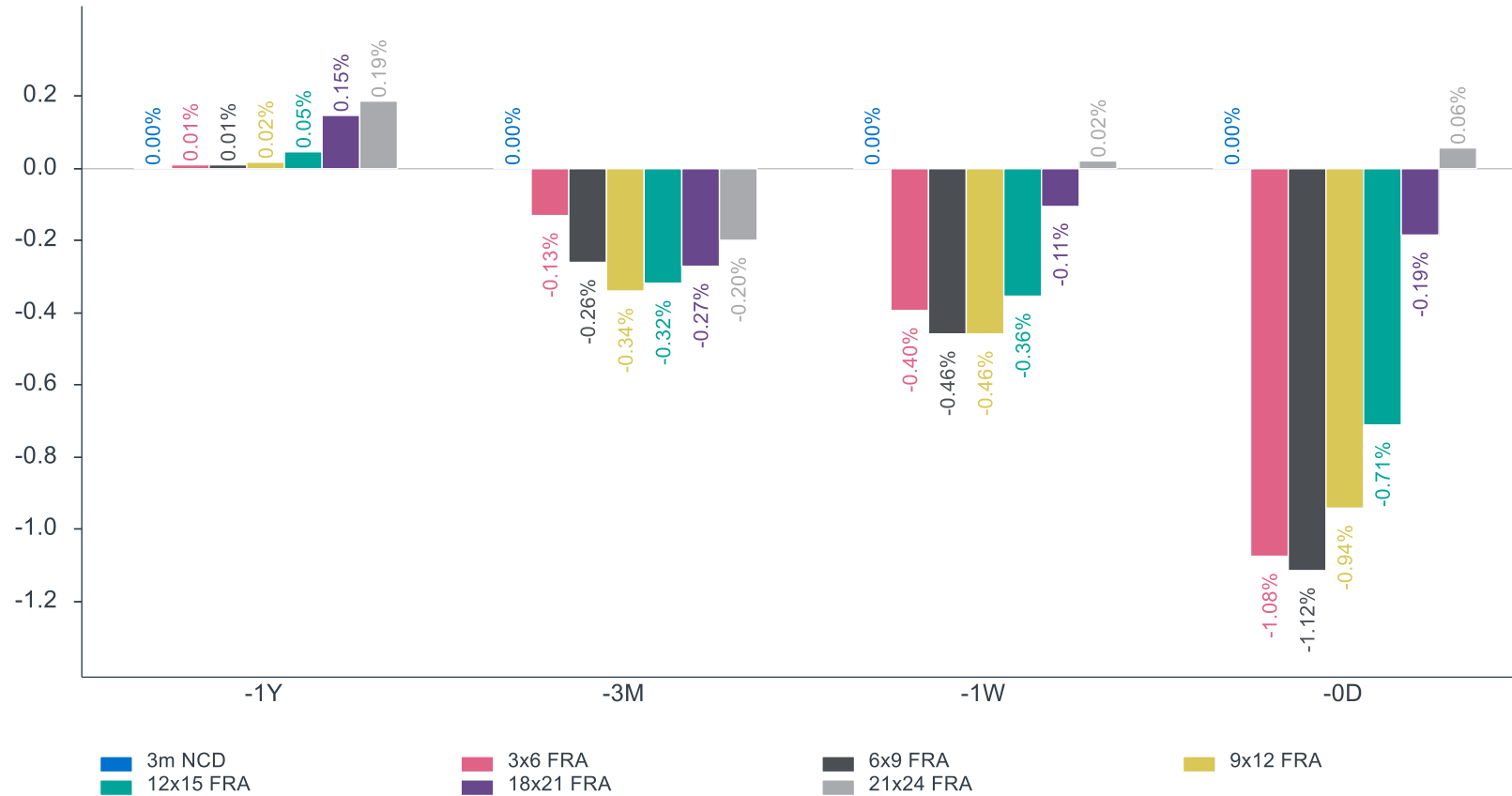
SA REPURCHASE RATE





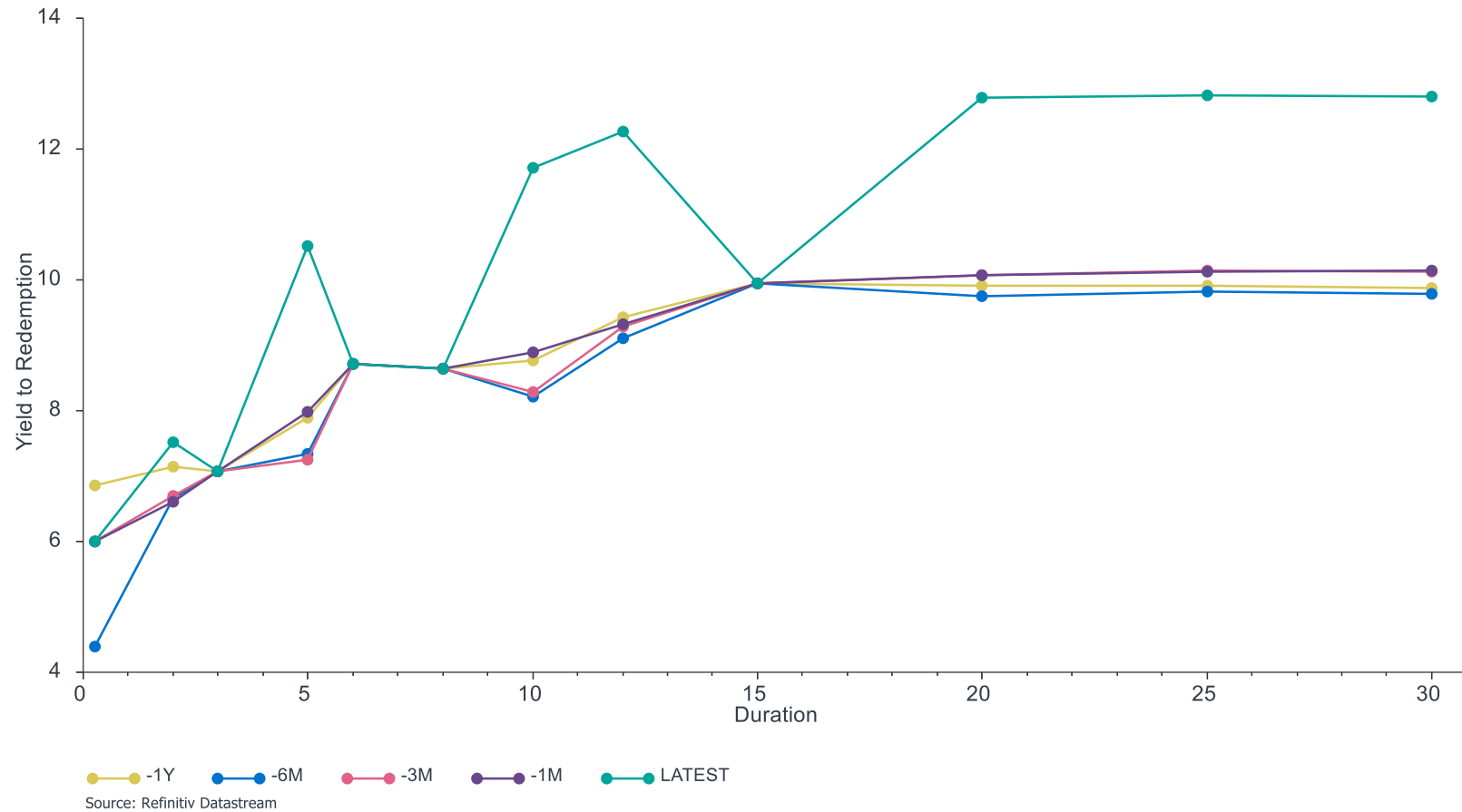
SA FRA'S, IMPLIED INTEREST RATE CHANGES

FRA = Forward Rate Agreement

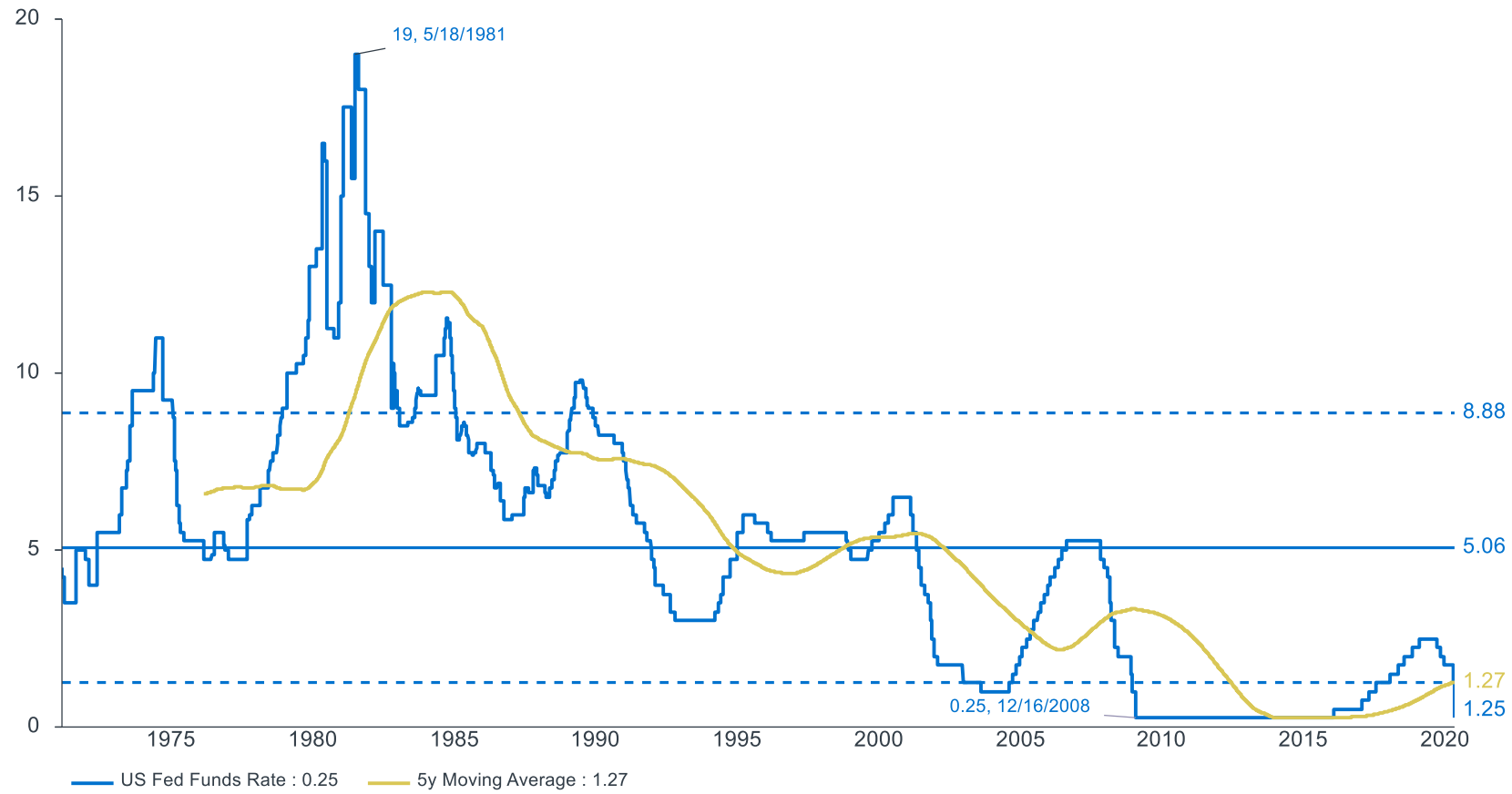


Source: Refinitiv Datastream

SA YIELD CURVE

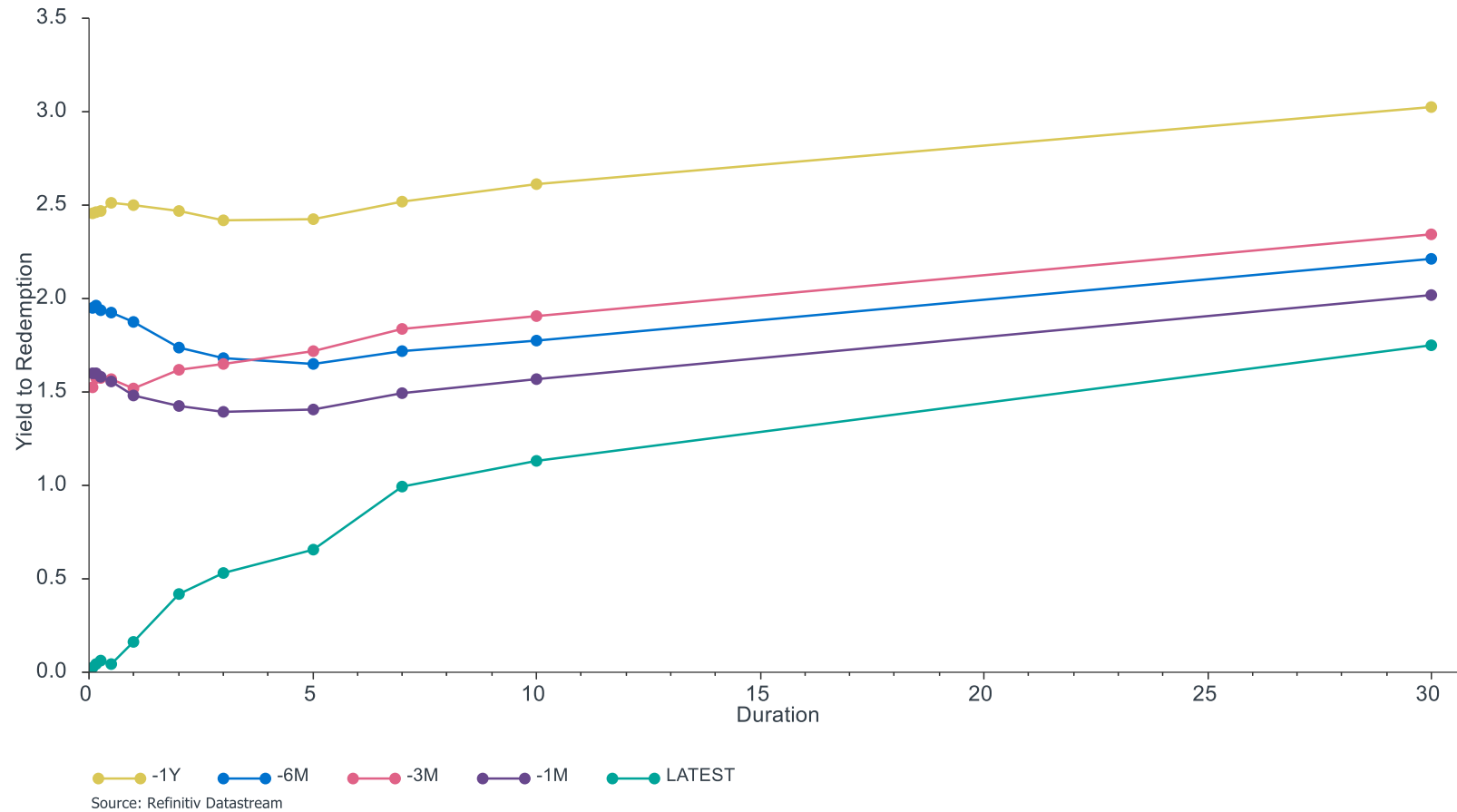


US FED FUNDS RATE

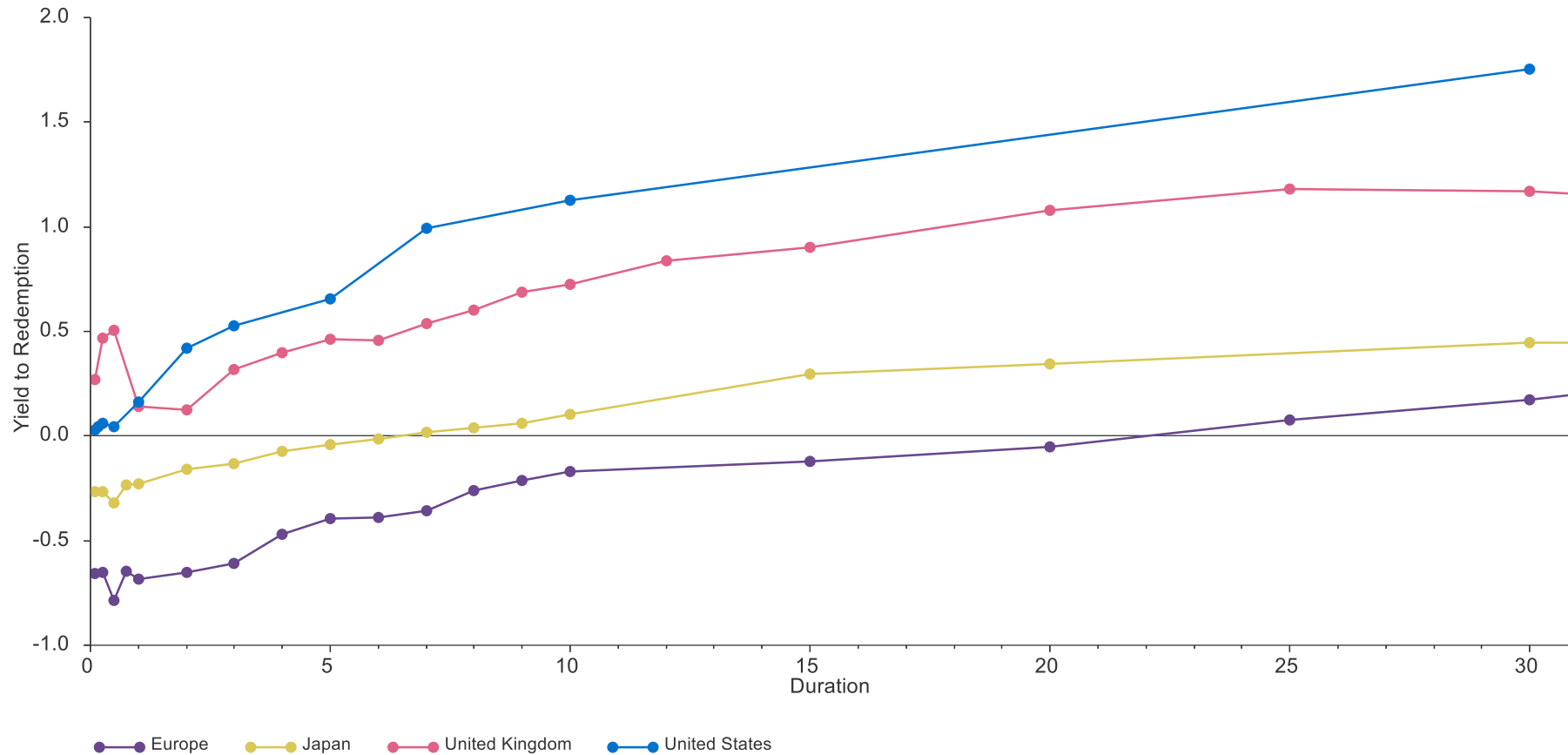


Source: Refinitiv Datastream

US YIELD CURVE



DEVELOPED MARKETS YIELD CURVES



Source: Refinitiv Datastream

EM CREDIT DEFAULT SWAPS



Source: Refinitiv Datastream

EM = Emerging Markets

This graph shows credit default swap spreads, as measured by 5 year spreads on USD denominated sovereign debt.

Listed CDS spread is the premium paid by the buyer to the seller of the CDS. This varies from conventional understanding of yield spreads i.e. over US treasury yield.

What's important to note in this graph is that the market has priced South African 5Y USD denominated debt at a level considered more risky than both Turkey and Russia (both junk at S&P; Russia junk at Moody's).

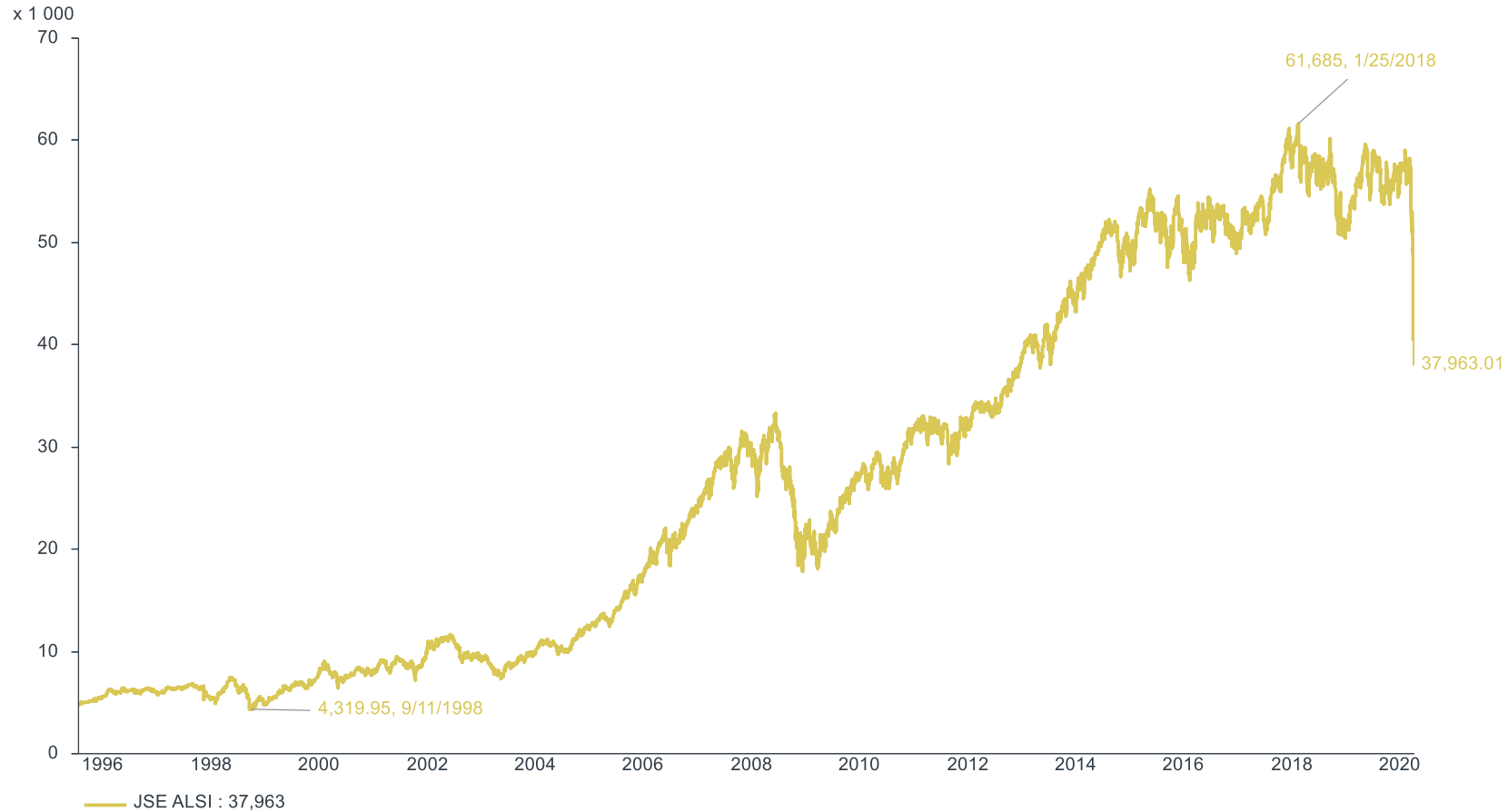
Note:

The default event typically used for EM debt is CR (Credit Restructuring) which triggers an event when a debt obligation is restructured – i.e. interest payments reduced; principal reduced; maturity extended; becoming subordinated to another obligation or having its currency changed.

JSE ALSI



ALSI = All Share Index

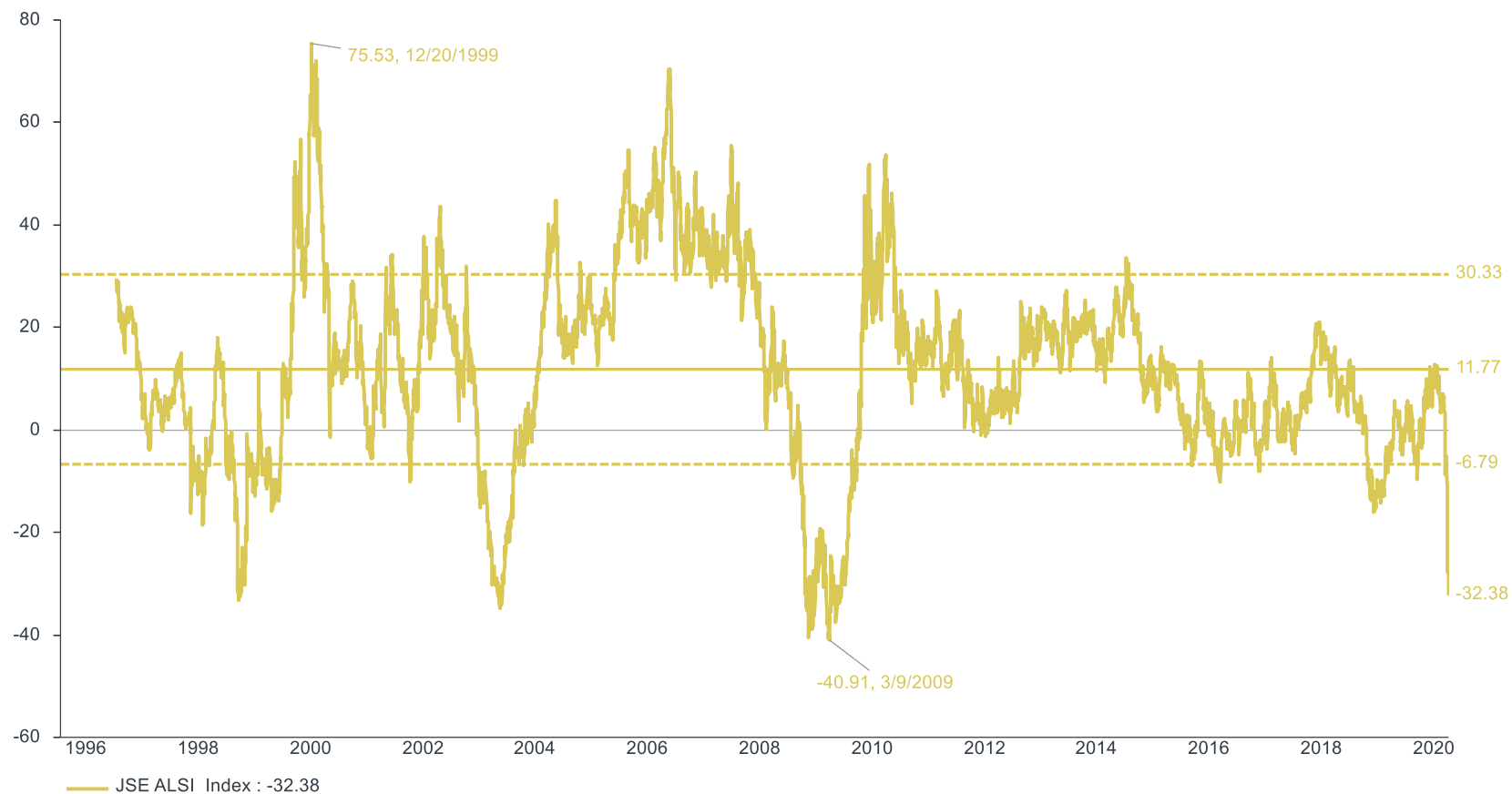


Source: Refinitiv Datastream



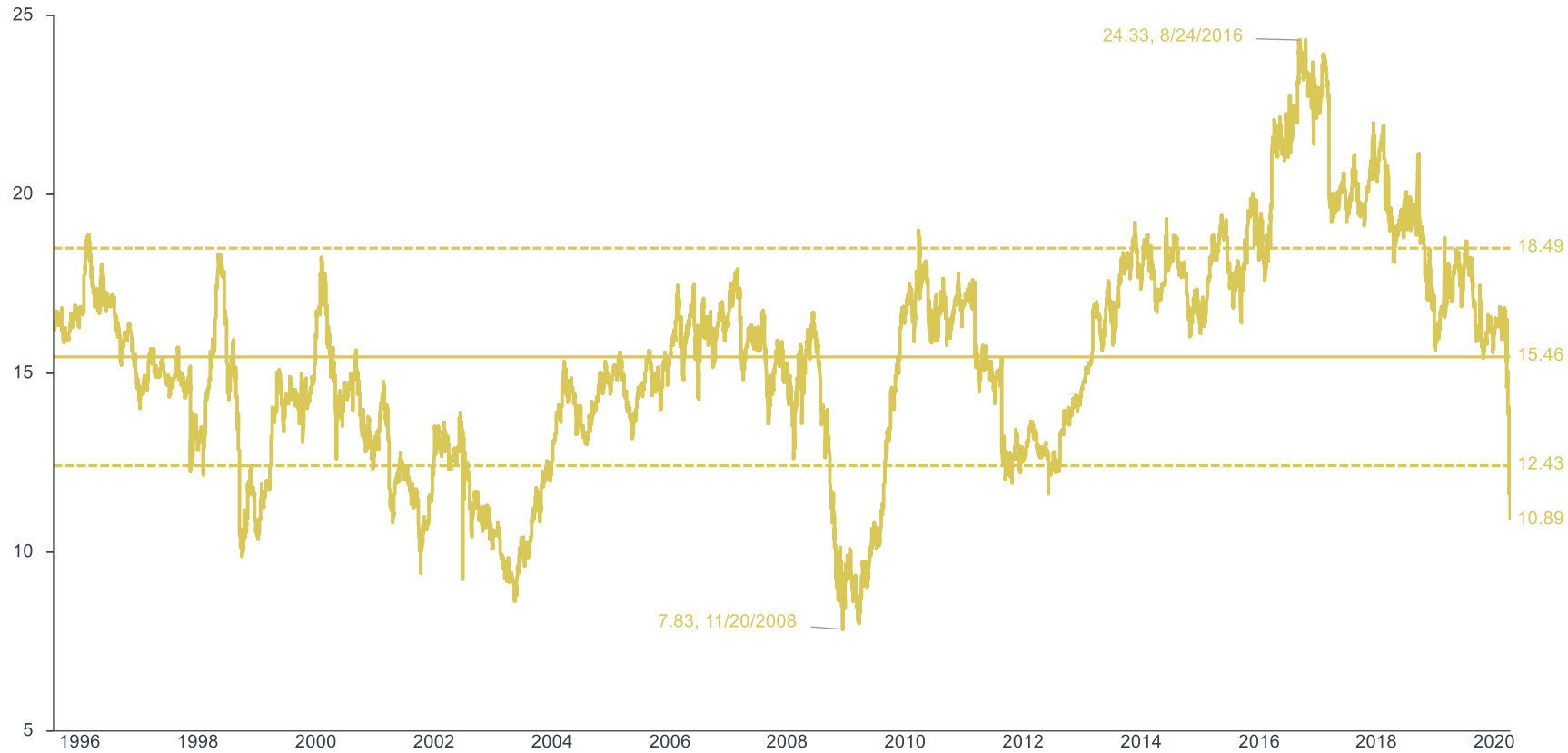
JSE ALSI INDEX, 1Y RATE OF CHANGE

ALSI = All Share Index



Source: Refinitiv Datastream

JSE ALSI PE



ALSI = All Share Index
PE = Price Earnings

— JSE ALSI PE : 10.89

Source: Refinitiv Datastream

JSE ALSI DY

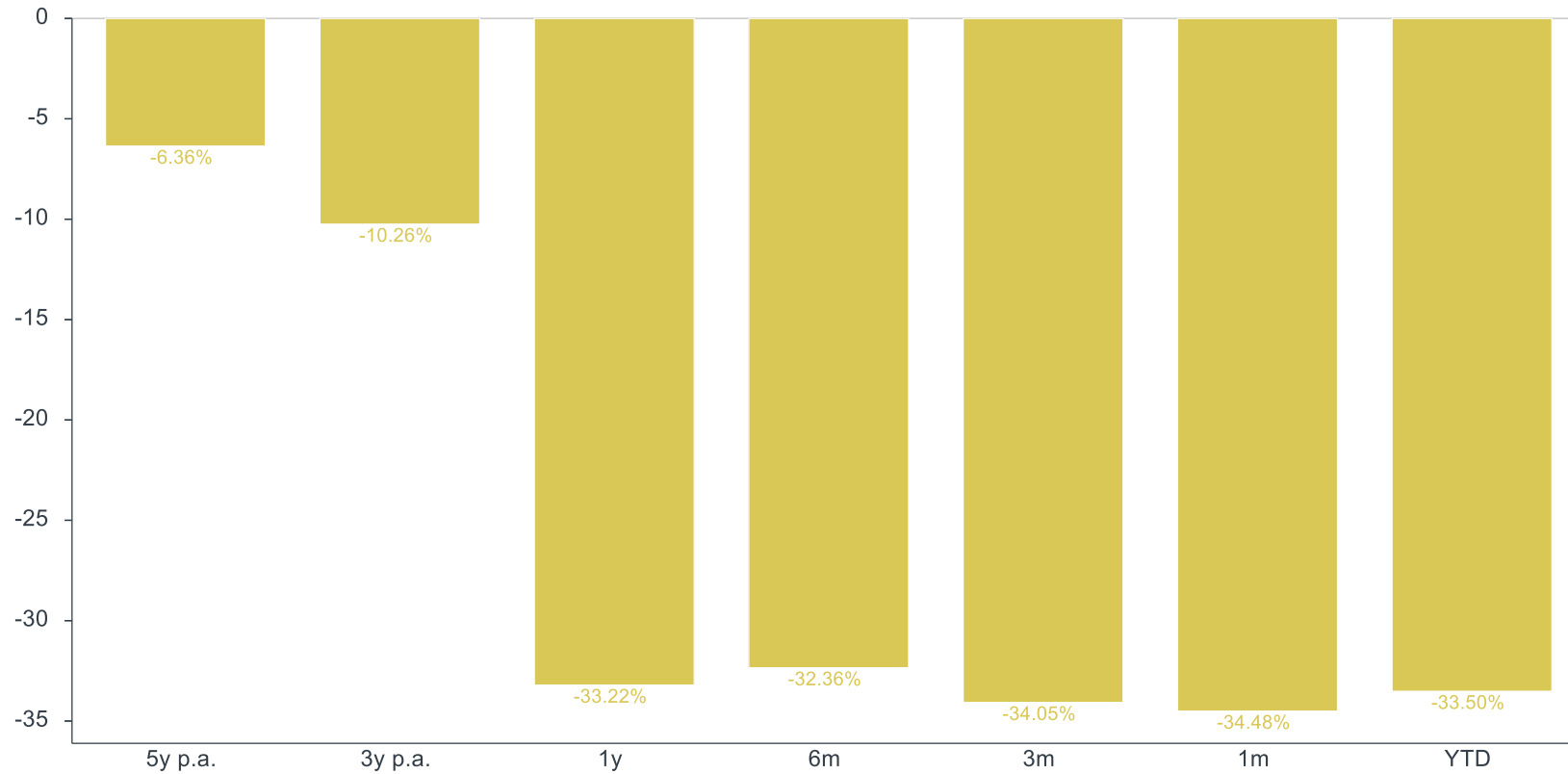


ALSI = All Share Index
DY = Dividend Yield

— JSE ALSI DY : 5.59

Source: Refinitiv Datastream

JSE ALSI, PERCENTAGE CHANGES

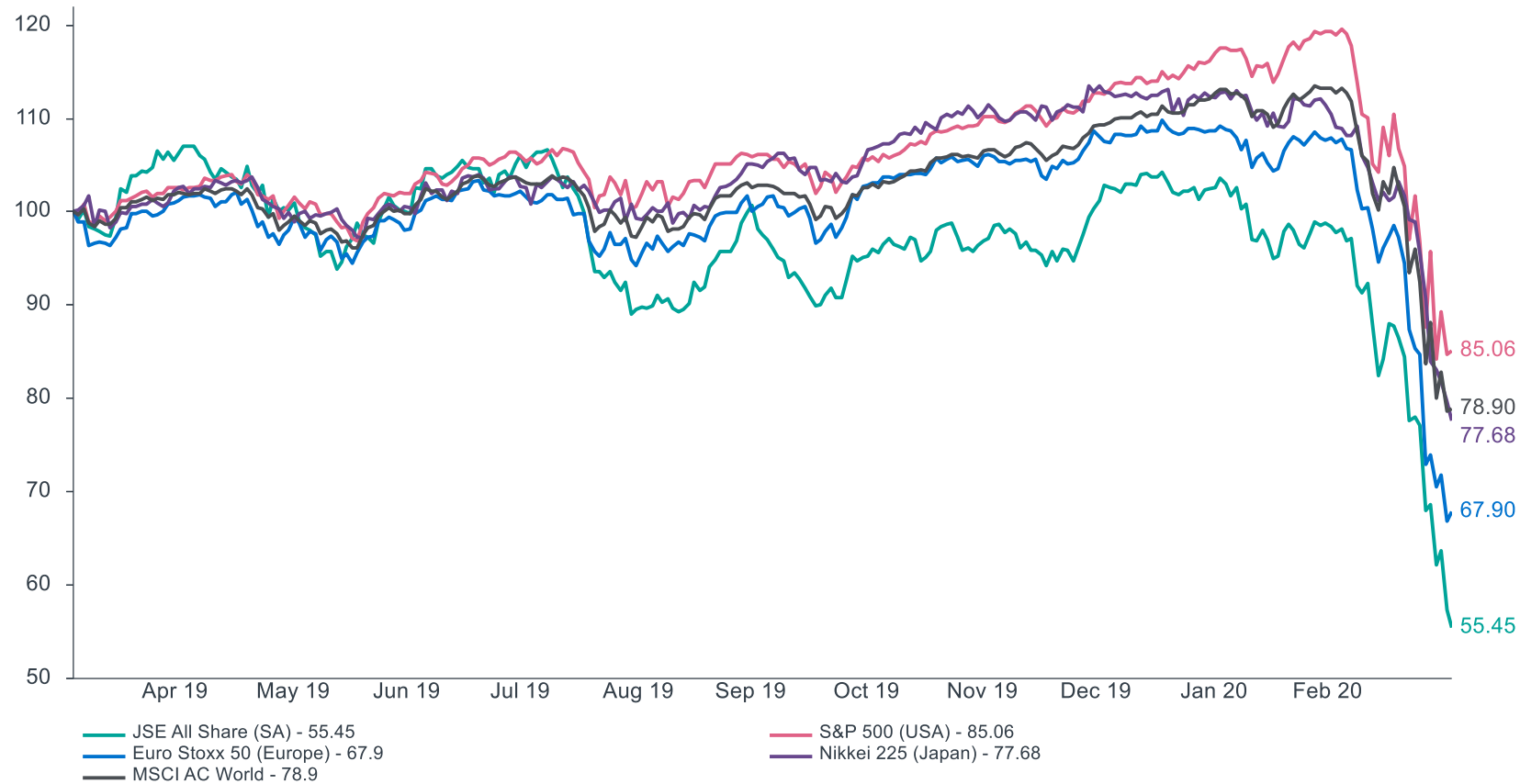


ALSI = All Share Index

JSE ALSI
Source: Refinitiv Datastream



GLOBAL MARKETS RELATIVE, LAST YEAR (USD)

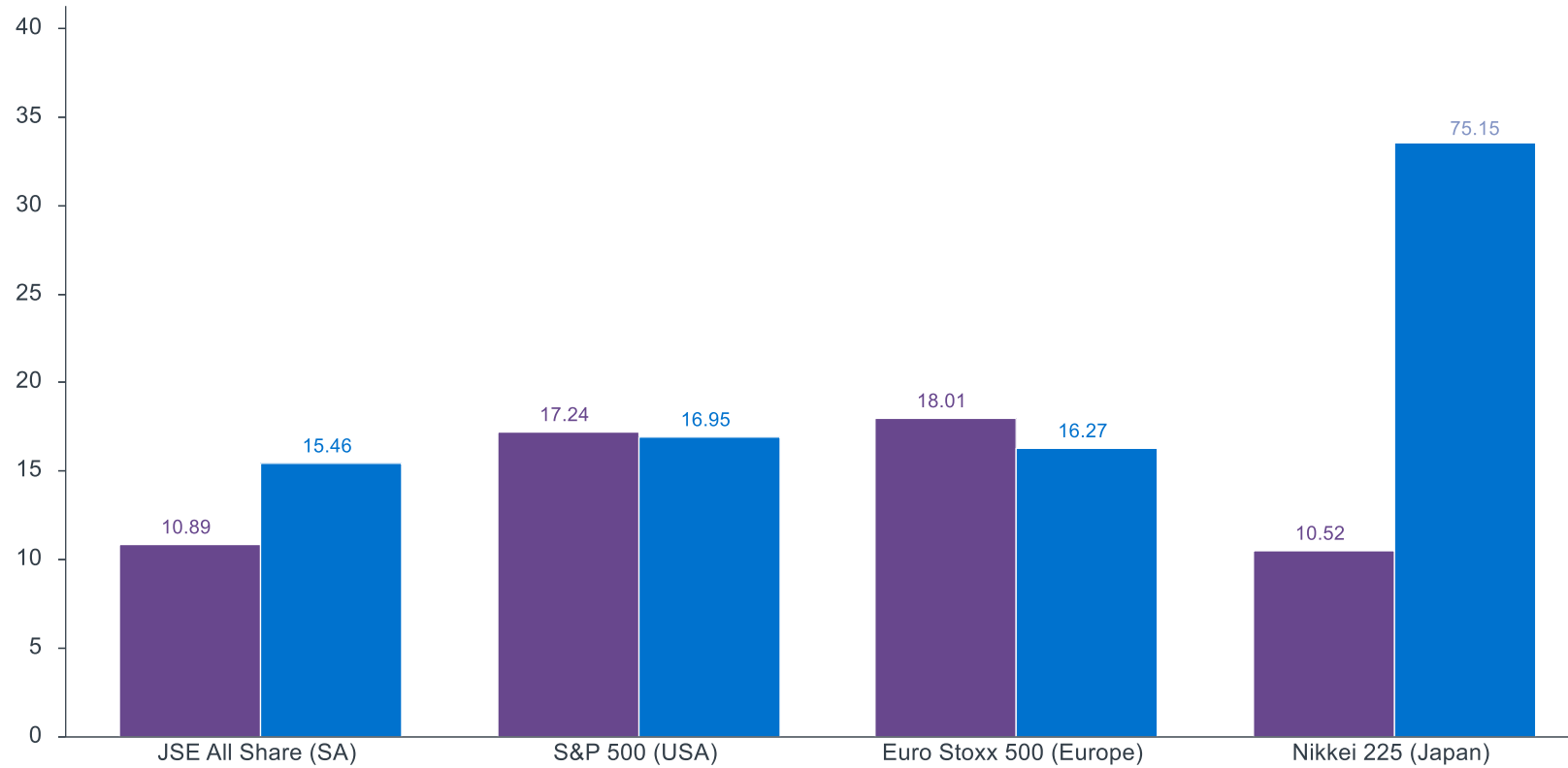


Source: Refinitiv Datastream

GLOBAL MARKETS PE'S



PE = Price Earnings

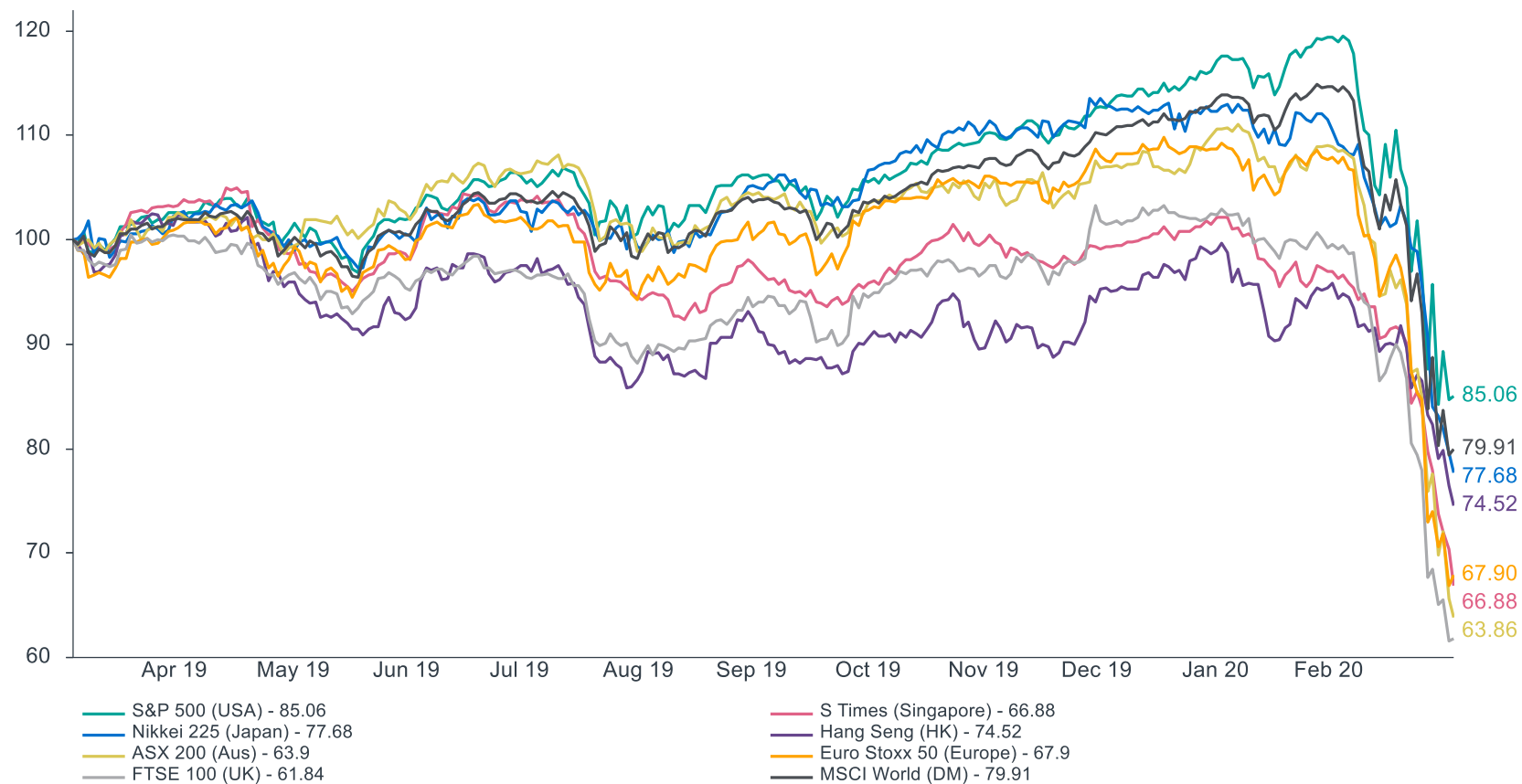


Current PE Historical Average PE

Source: Refinitiv Datastream



DEVELOPED MARKETS RELATIVE, LAST YEAR (USD)

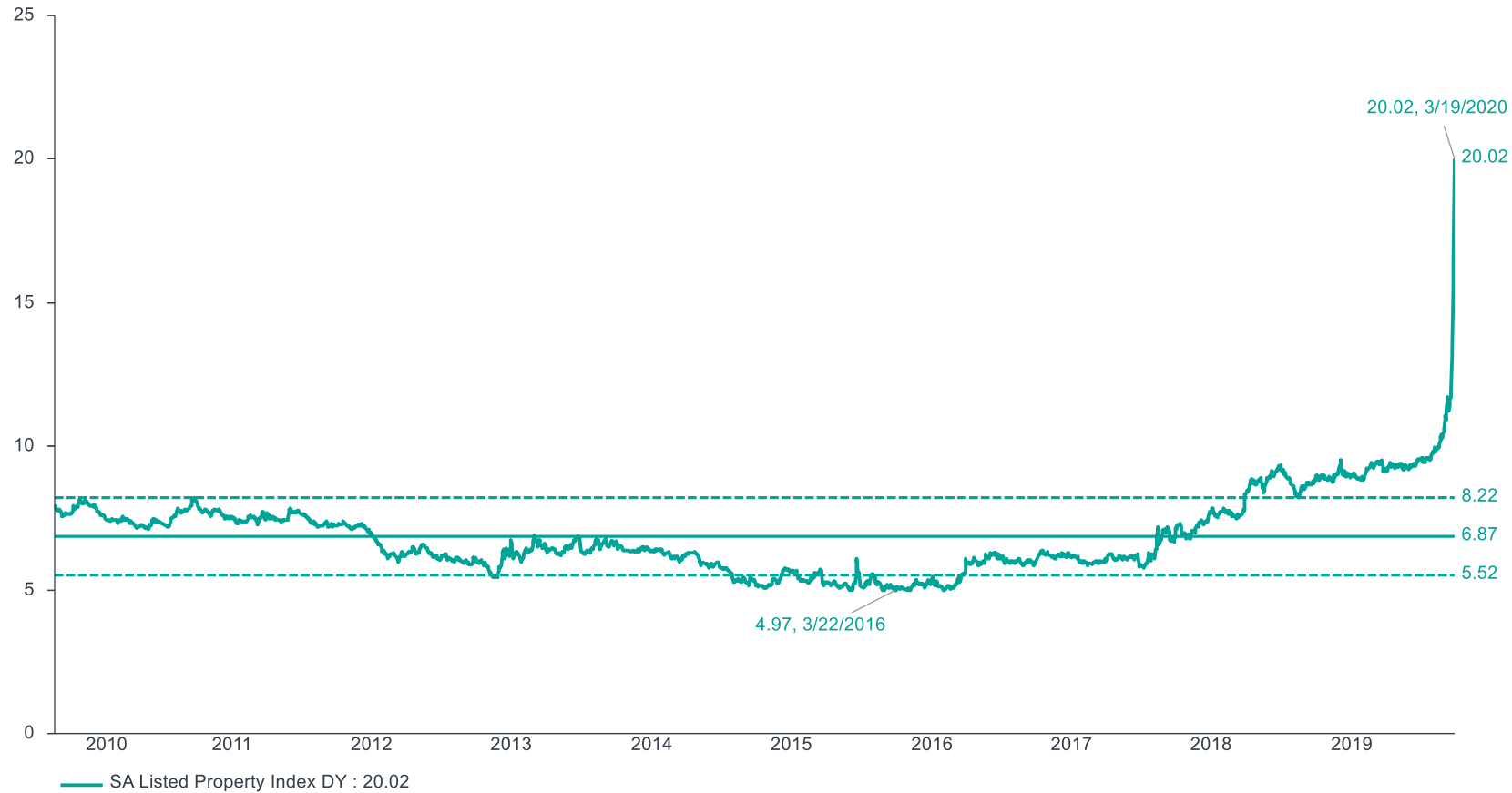


Source: Refinitiv Datastream

SA LISTED PROPERTY INDEX DY

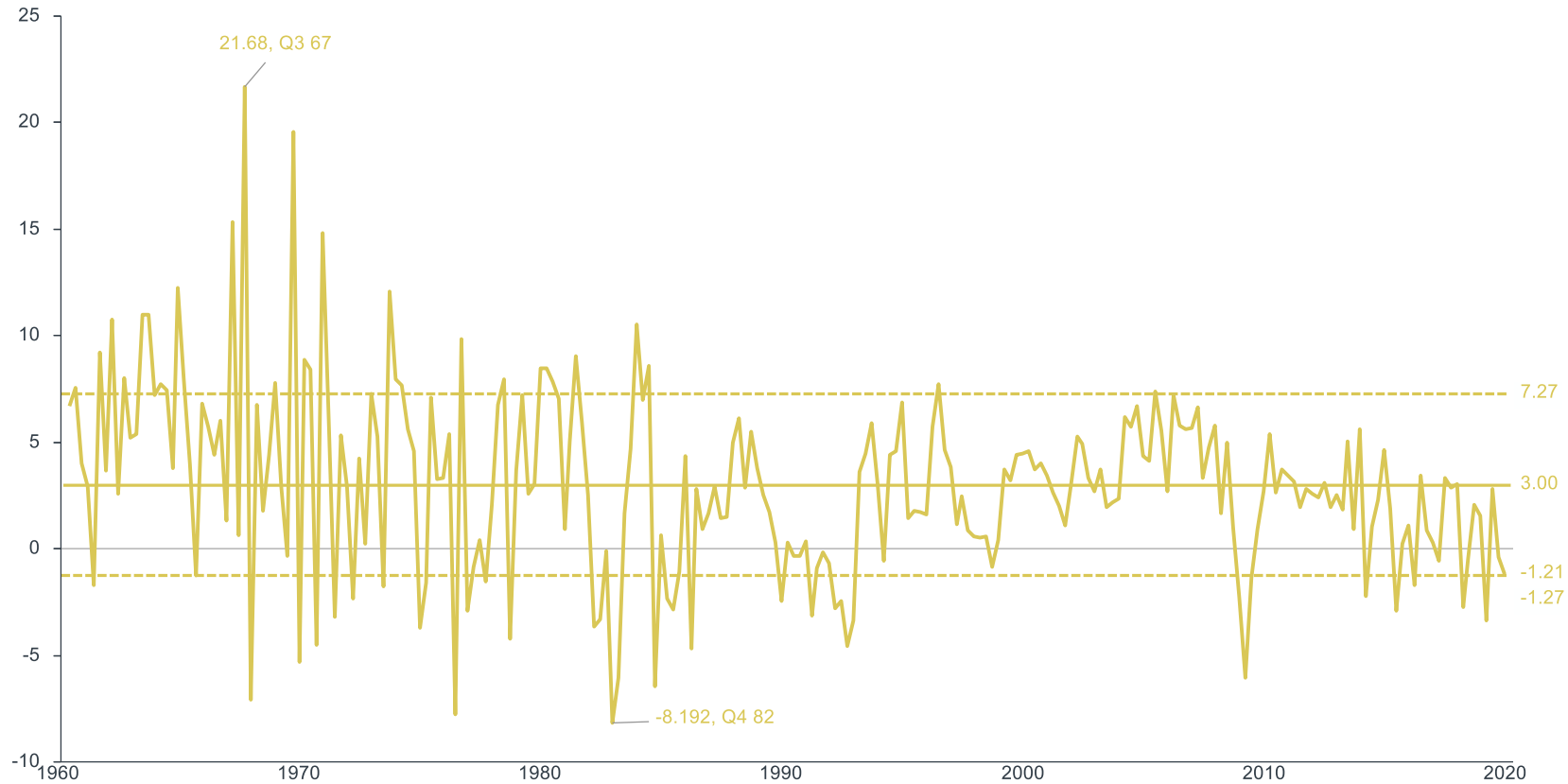


DY = Dividend Yield



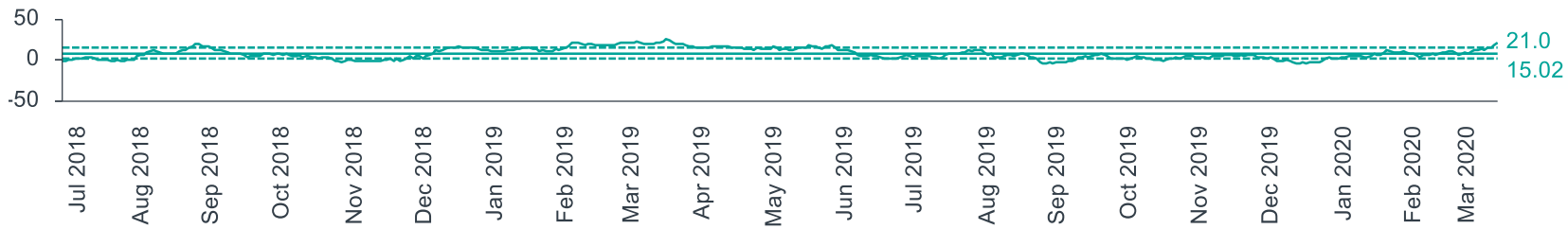
Source: Refinitiv Datastream

GDP



— GDP : -1.212
Source: Refinitiv Datastream

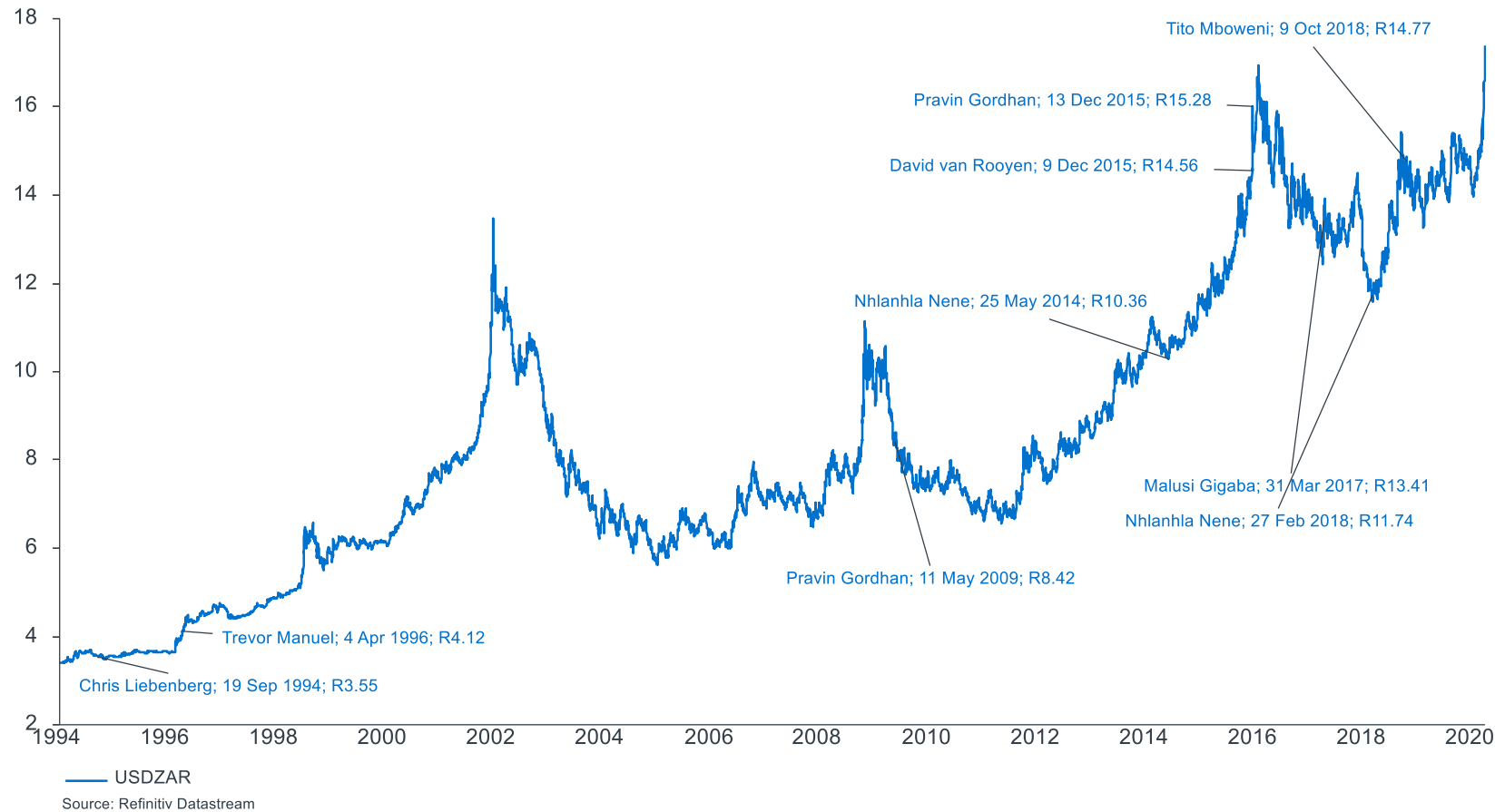
USDZAR



— USDZAR — 1Y Annualised Change : 20.95

Source: Refinitiv Datastream

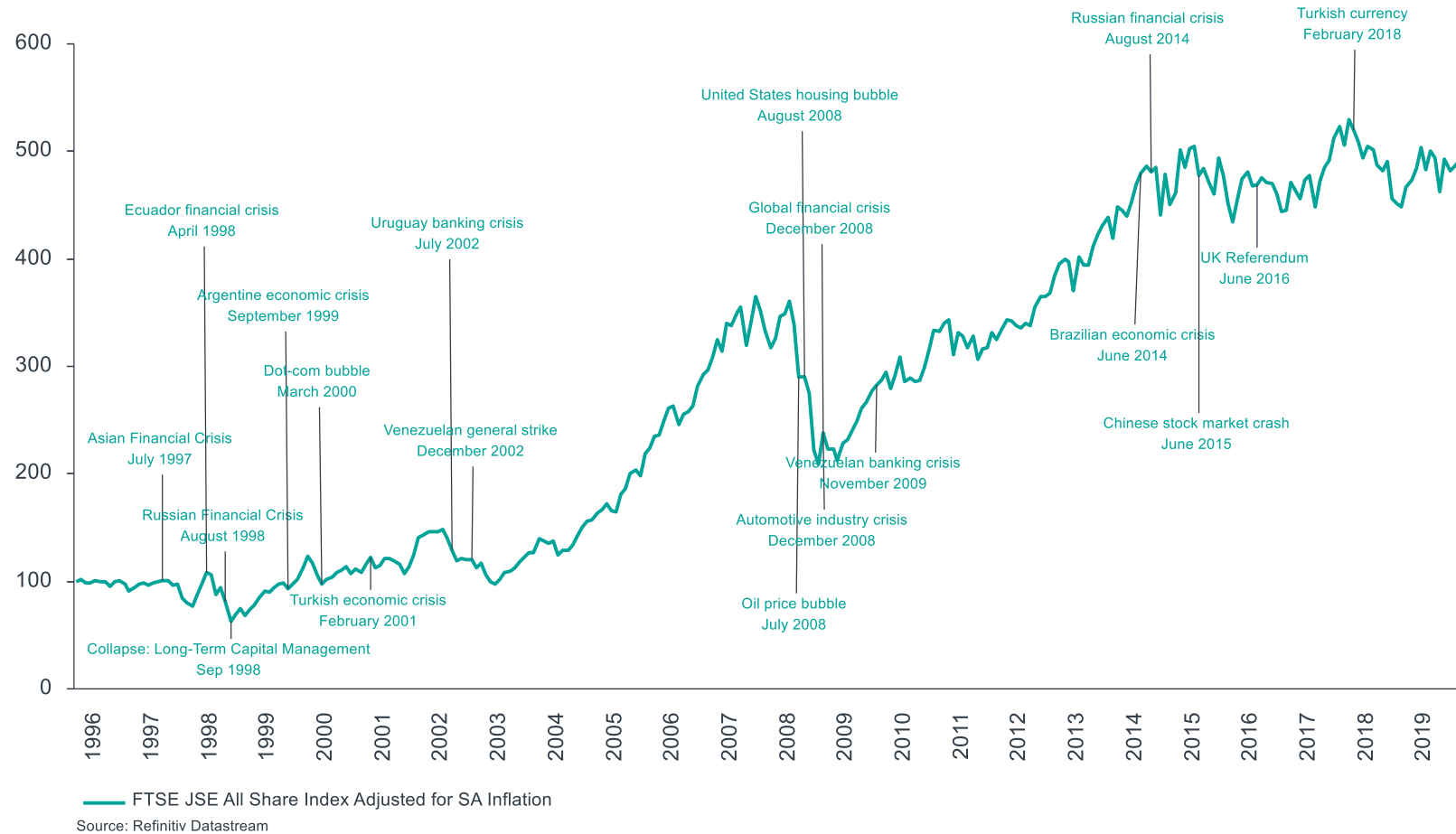
USDZAR



With Tito Mboweni's appointment as Finance Minister on the 9th of October, South Africa has the unenviable track record of having had 5 Finance Ministers in the last three years.

This chart picks out the date of appointment of each successive Finance Minister together with the rand-dollar exchange rate at the time of appointment going back to the appointment of Chris Liebenberg by Nelson Mandela's Government of National Unity.

FINANCE CRISES

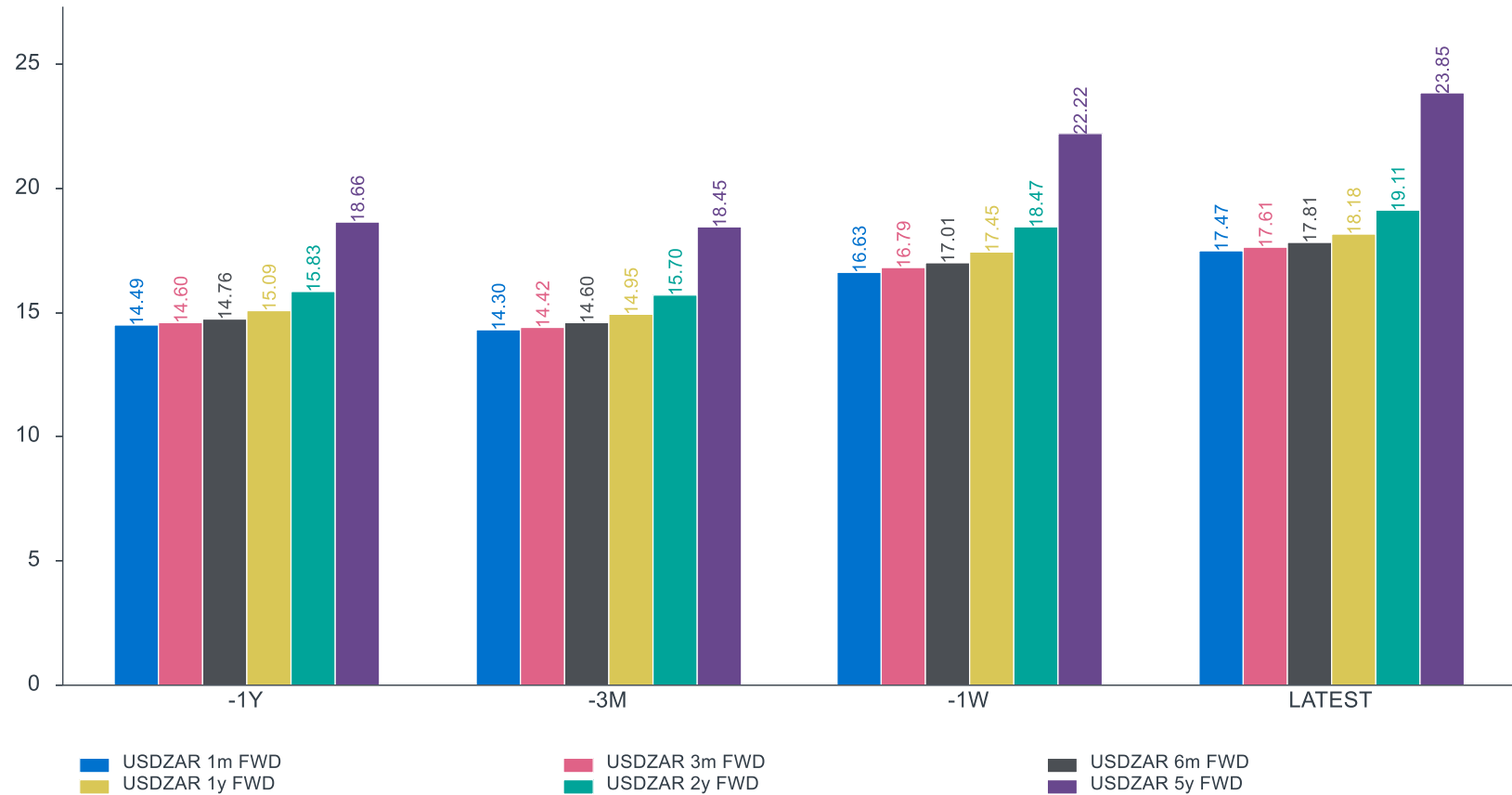


ZAR LAST YEAR, REBASED TO 100



Source: Refinitiv Datastream

USDZAR FORWARD



Source: Refinitiv Datastream

GBPUSD



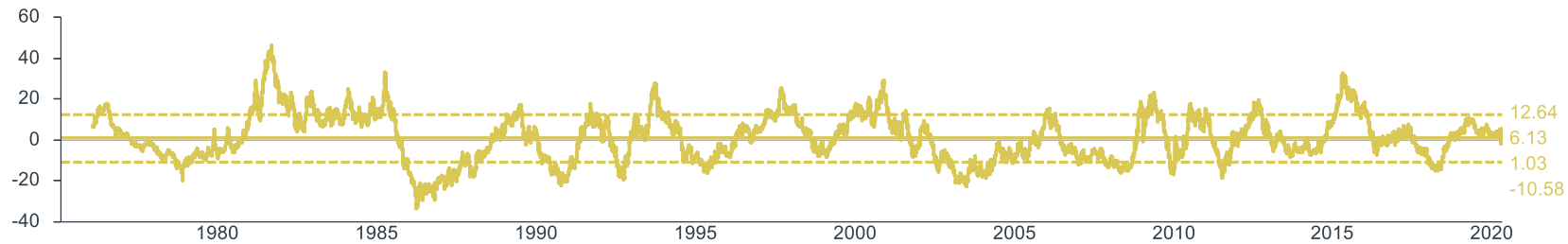
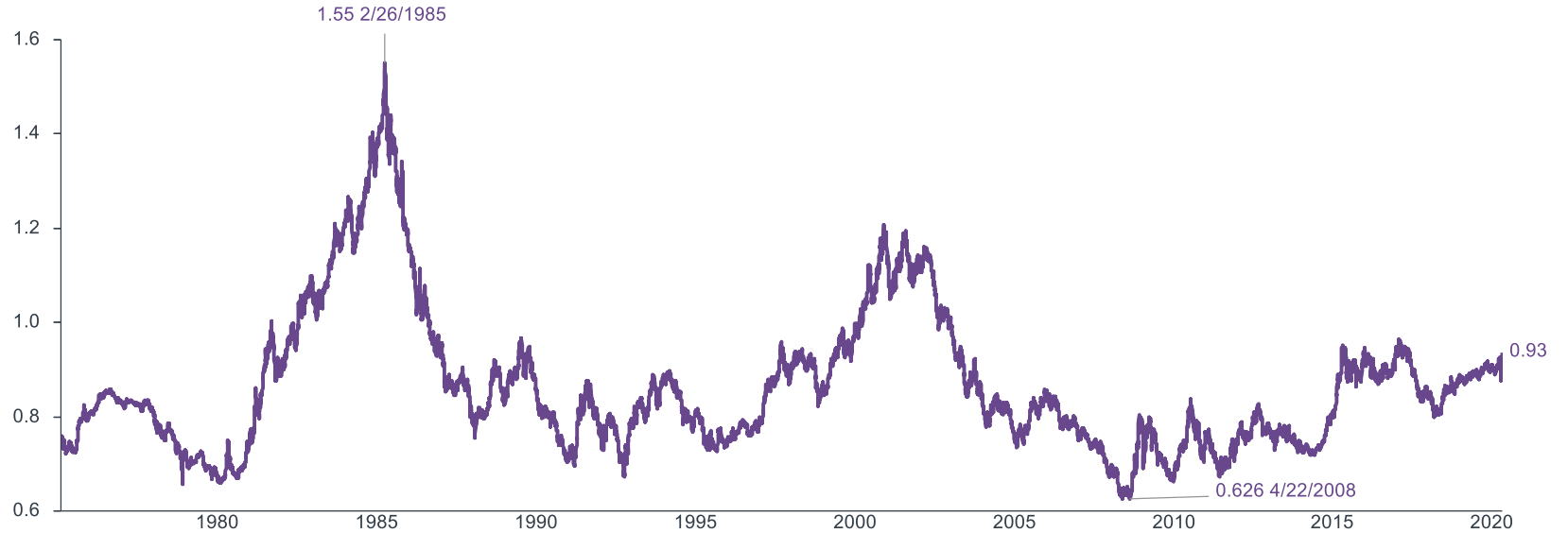
Source: Refinitiv Datastream

GBPZAR



Source: Refinitiv Datastream

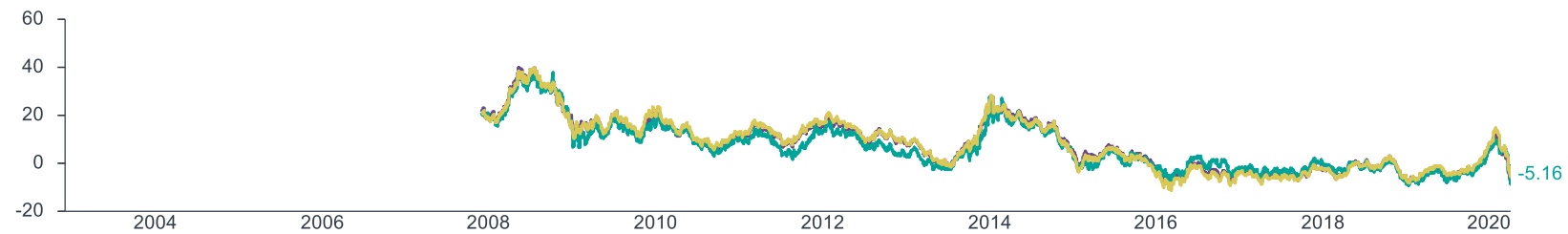
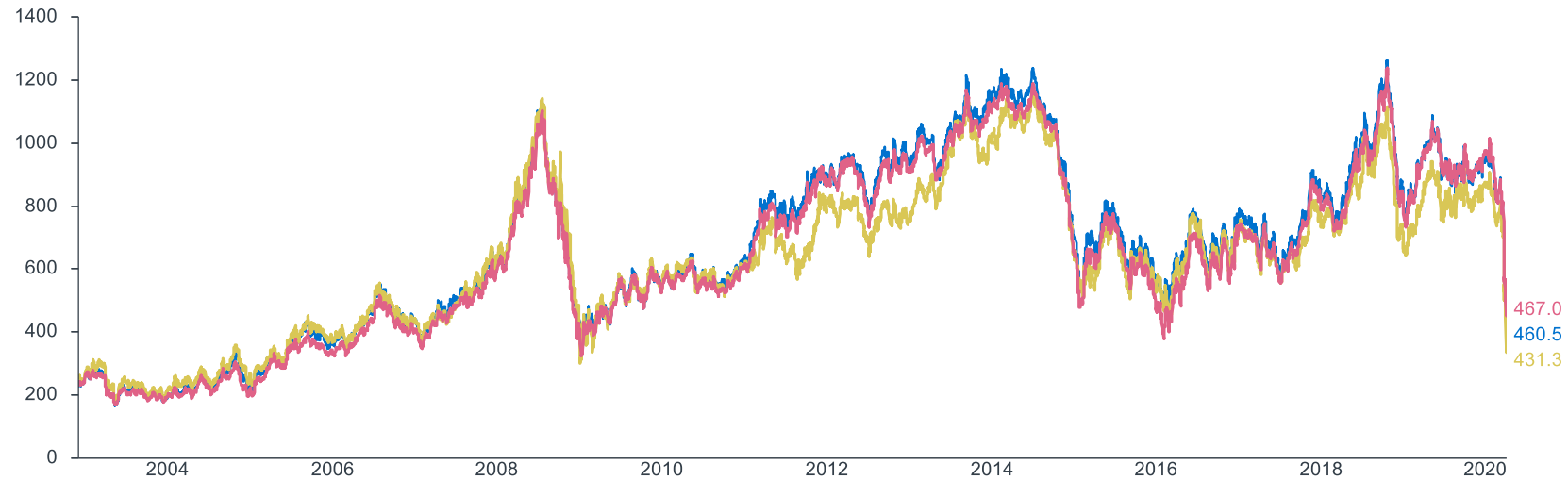
EURUSD



EURUSD 1Y Annualised Change : 6.13

Source: Refinitiv Datastream

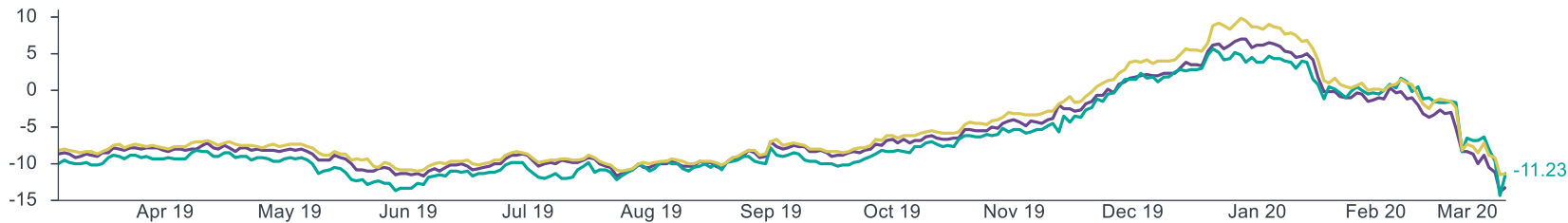
OIL PRICE IN ZAR



Brent ZAR : 460.52
OPEC Basket ZAR : 467.02
5Y pa West Texas Intermediate : -5.163
West Texas Intermediate ZAR : 431.28
5Y pa Brent : -7.27017
5Y pa OPEC Basket : -5.32366

Source: Refinitiv Datastream

OIL PRICE, LAST YEAR



— Brent : 26.93
— OPEC Basket : 27.31
— 5Y PA West Texas Intermediate : -11.23
— West Texas Intermediate : 25.22
— 5Y PA Brent : -13.2
— 5Y PA OPEC Basket : -11.38

Source: Refinitiv Datastream



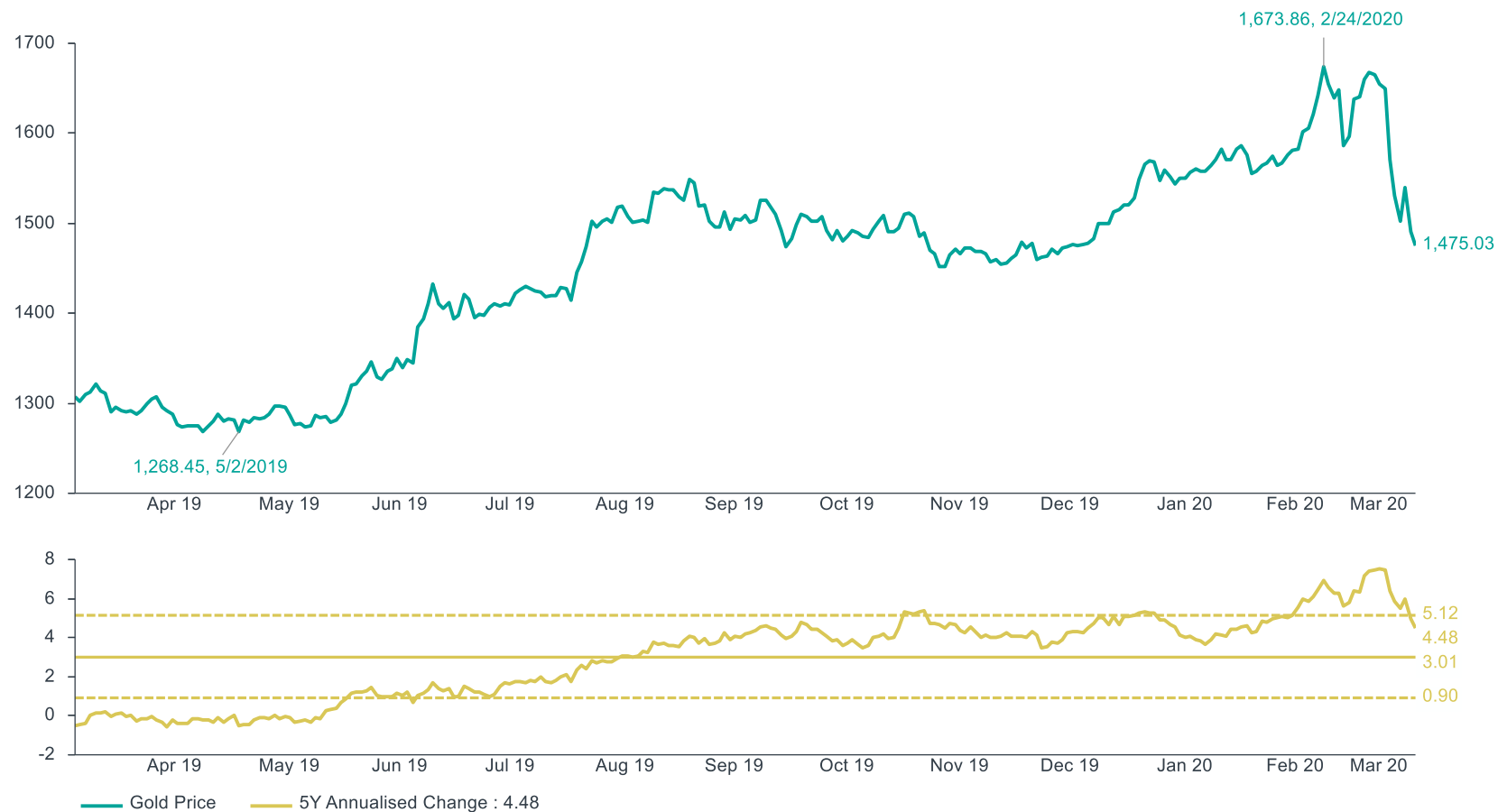
GOLD PRICE (USD)



Source: Refinitiv Datastream



GOLD PRICE (USD), LAST YEAR



Source: Refinitiv Datastream



EQUITIES V INFLATION V CASH

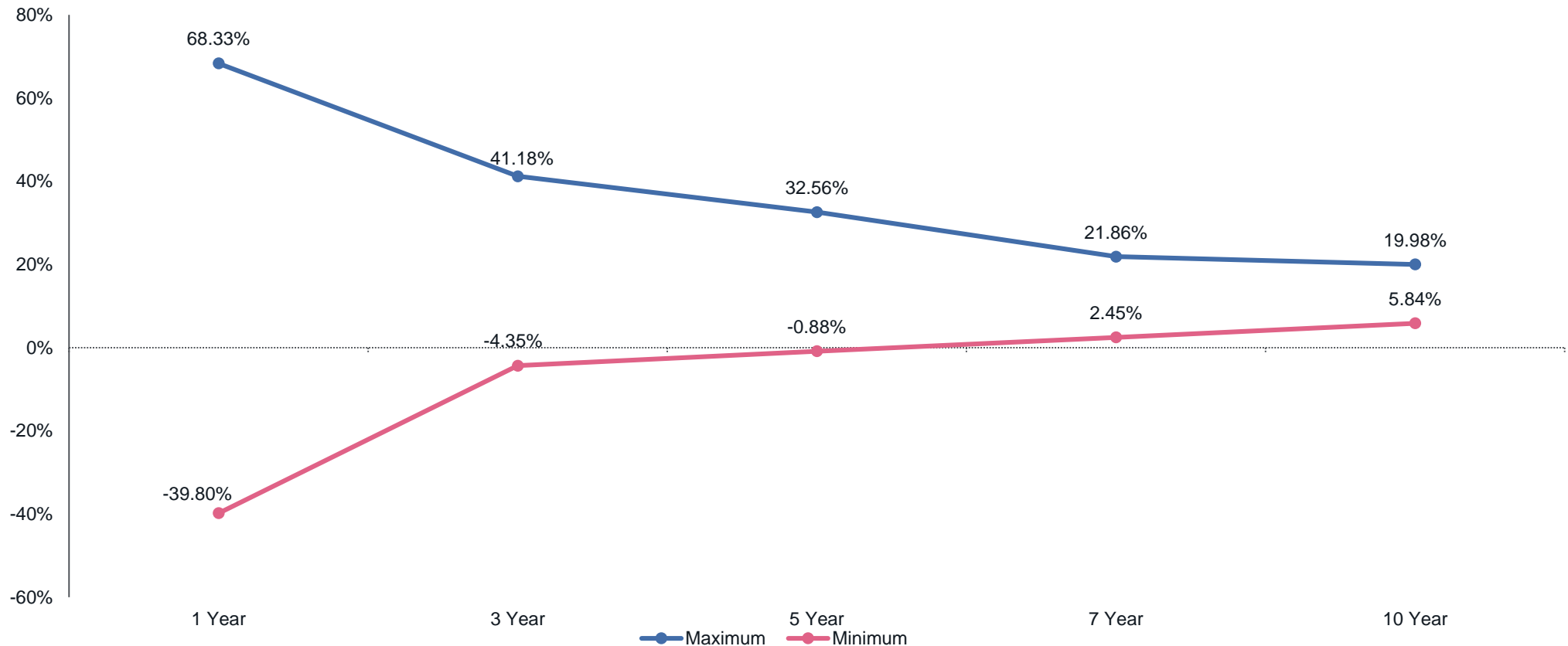


— 5Y growth rate (first - last values) of FTSE/JSE ALL SHARE - RI
— 5Y growth rate (first - last values) of CPI METHOD BREAK JAN2009 : South Africa
— 5Y growth rate (first - last values) of STEFI COMPOSITE INDEX*0.7

Source: Refinitiv Datastream



FUNNEL OF UNCERTAINTY FOR THE ANNULISED RETURNS OF JSE ALL SHARE INDEX - FEBRUARY



Source : Refinitiv DataStream

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A dark, moody photograph showing the lower legs and feet of several people walking on a wet, reflective surface. The ground is highly reflective, creating clear mirror images of the people and their feet. A large, white, semi-transparent arrow is superimposed on the image, pointing from the left towards the right. The overall color palette is dark, with shades of blue, grey, and black, punctuated by the white arrow and the text at the bottom.

THANK YOU