

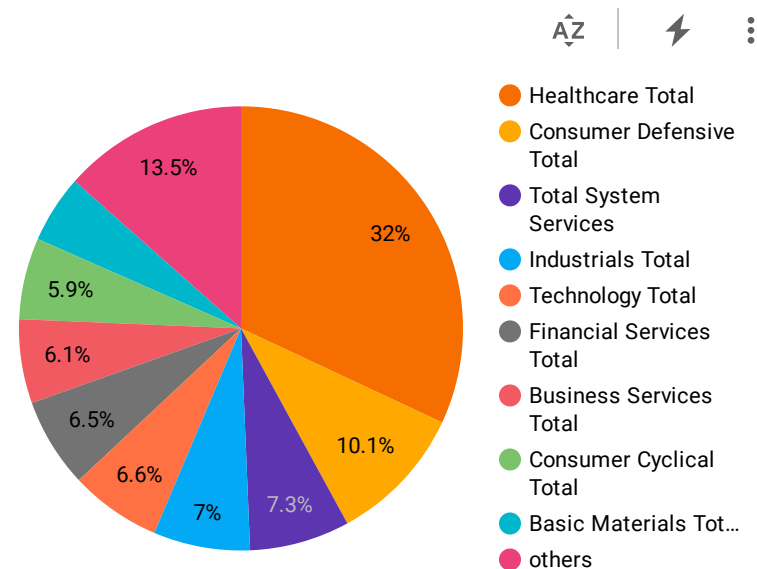
# Analysis of financial markets in past years

We will analyze the behaviour of financial markets (by sector of activity) in the past years. In particular we will pay attention to three things:

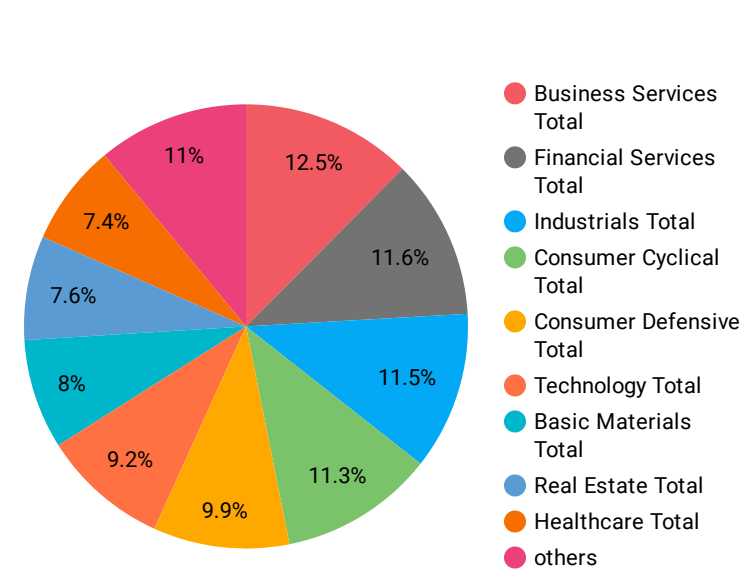
1. How the relative importance of sectors has evolved accoss time.
2. How many financial turmoils have taken place in the recent years.
3. How have the average stock prices evolved during the years.

For the purposes of this report, we will use the US market and data obtained for free from simfim python library. The free data does not include the last year (so we will restrickt ourselves to data until March 2022).

We have created a magnitude named "Turmoil" computed by measuring the relative increase from the lowest price in the day to the highest price in the day for each stock, and we averaged it by sector and in total.

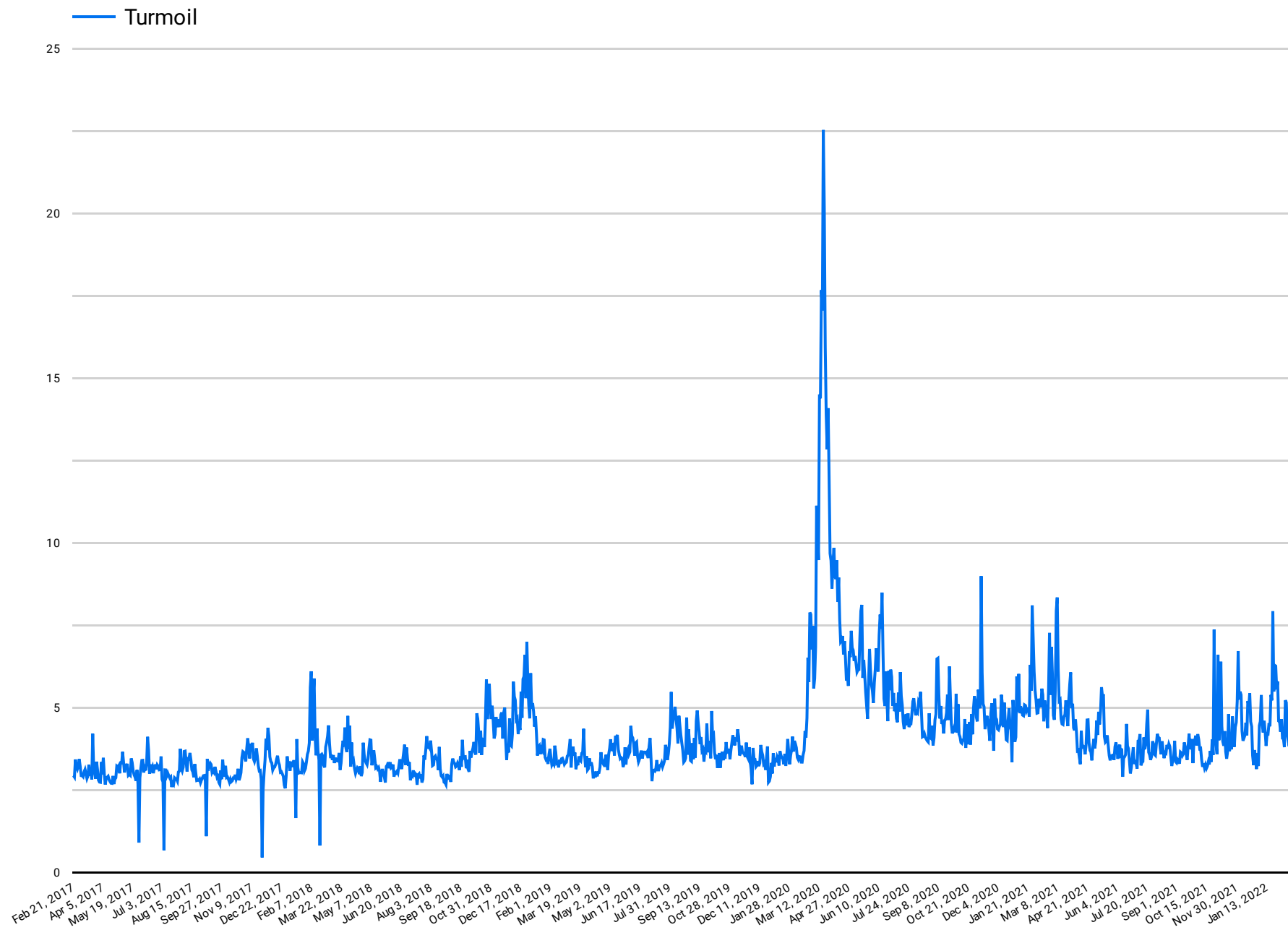


Distrubution by Sector in 2018



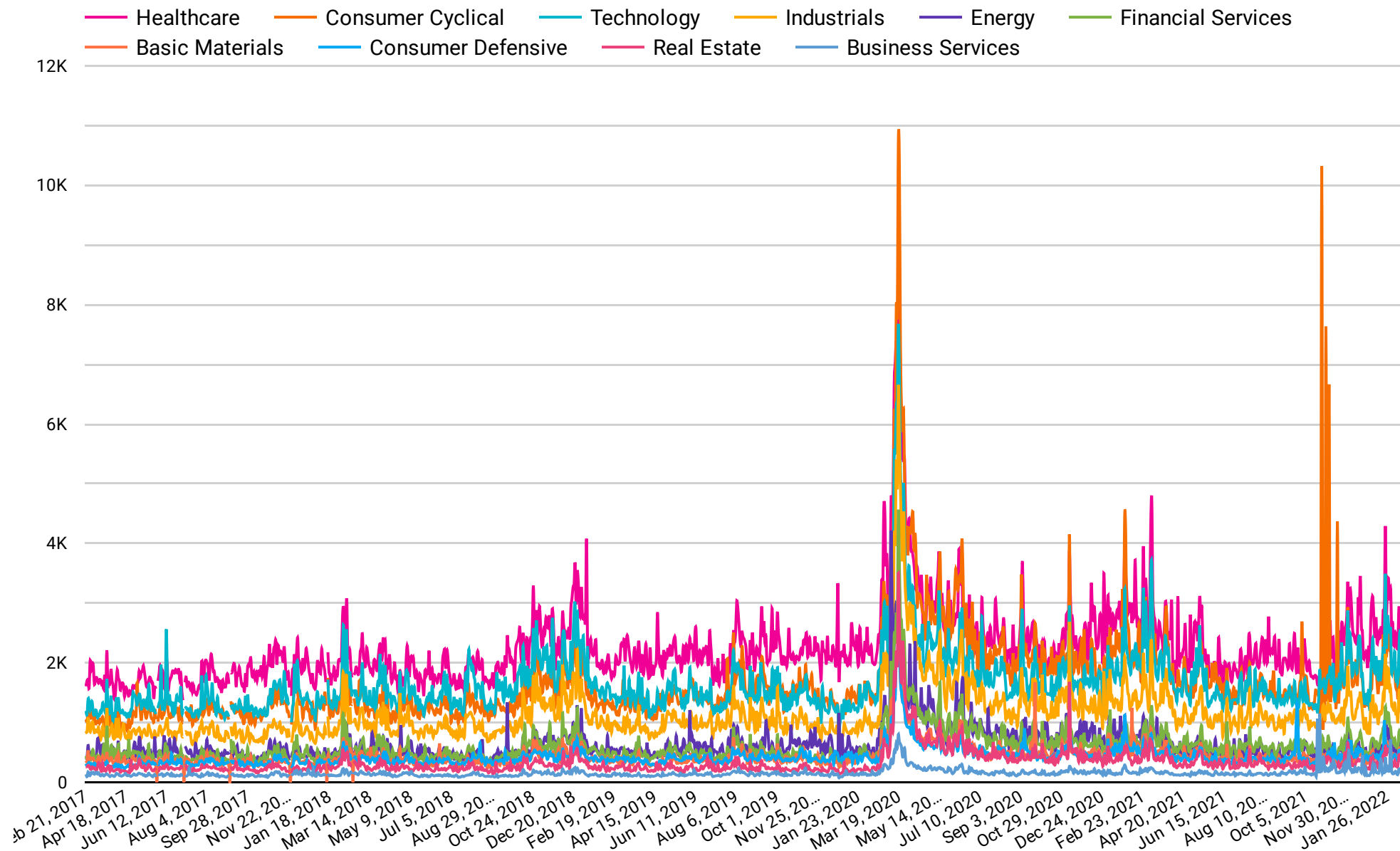
Distrubution by Sector in 2022

# Finantial turmoil evolution



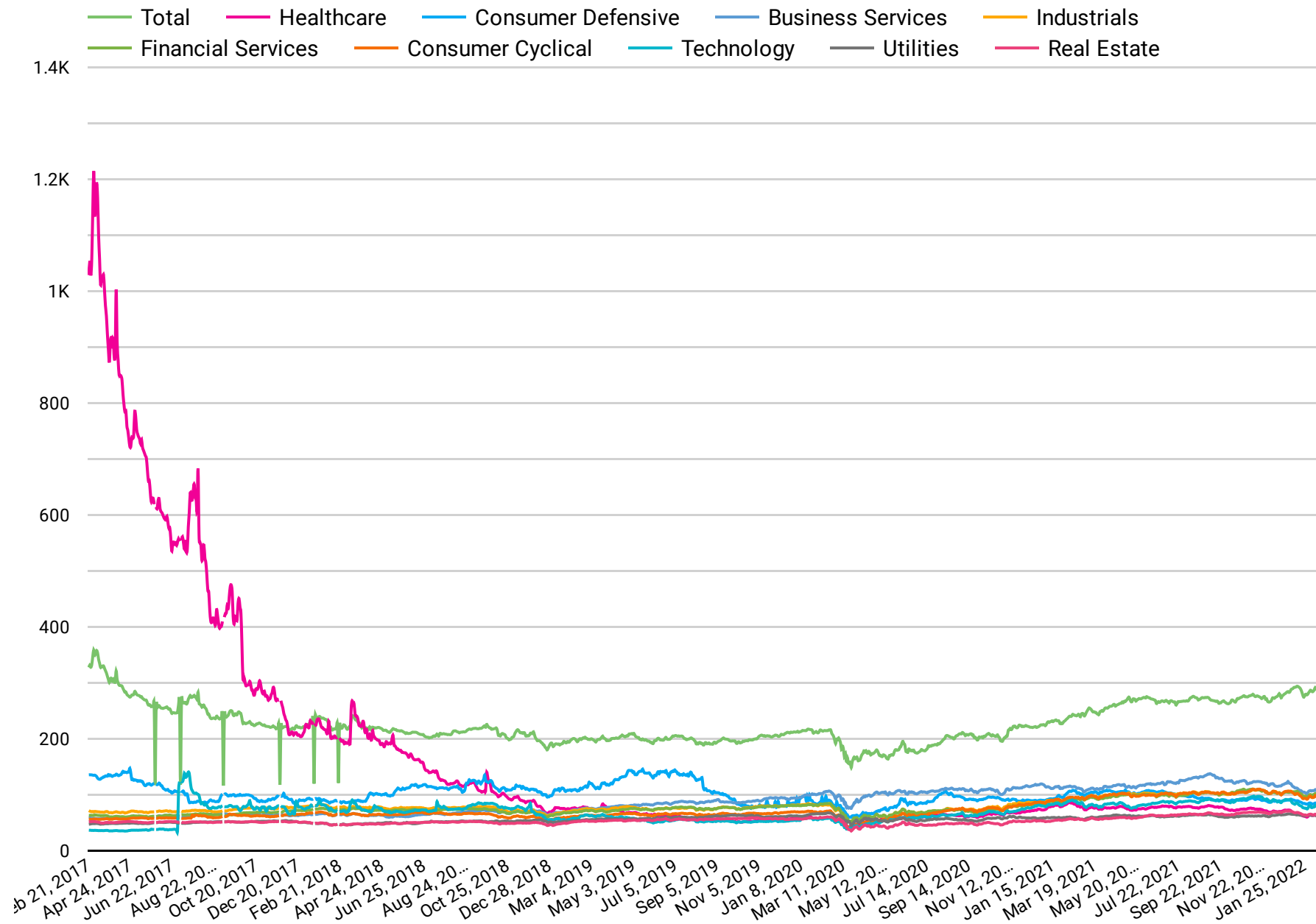
We notice a very sharp peak in the beggining of COVID pandemic.

# Finantial turmoil evolution per sector



We notice again a very sharp peak in the beginning of COVID pandemic, and another peak in Nov 2021 (when situation worsened again), specially in the sector of consumer cyclical.

# Stock price evolution per sector

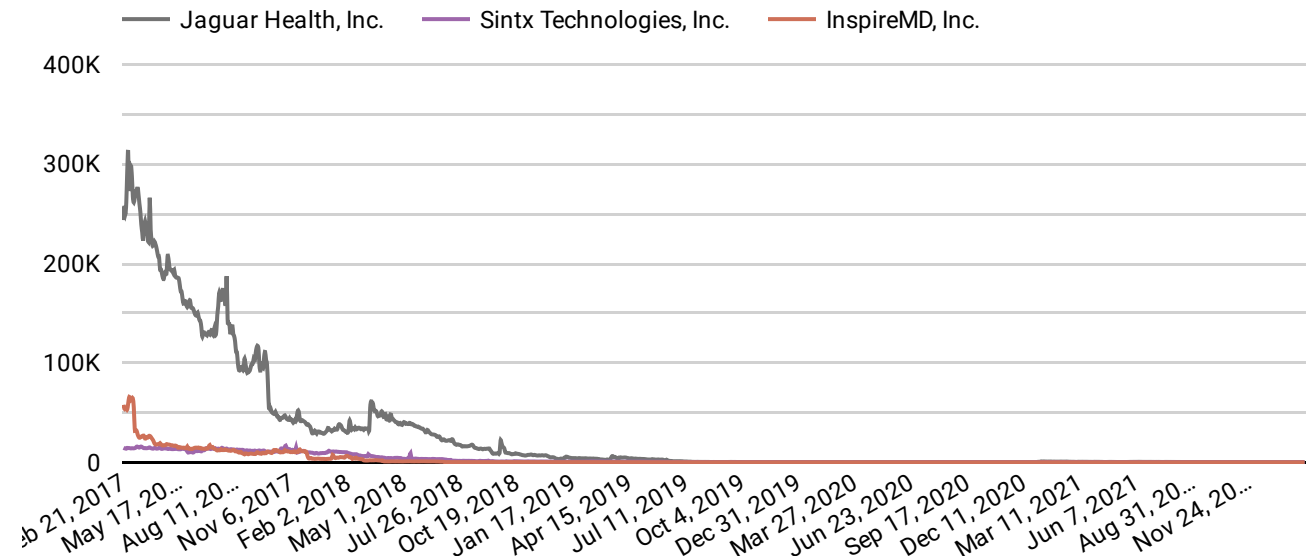


What is strange in this graph is the big loss in the healthcare sector, which begs an explanation. Let's find out next if this loss was caused by a single company.

# Health Care Analysis

	Company name	Accumulated Price ▾
1.	Jaguar Health, Inc.	35,164,994.88
2.	Sintx Technologies, Inc.	3,750,614.89
3.	InspireMD, Inc.	3,704,061.22
4.	VIVEVE MEDICAL, INC.	2,223,712.54
5.	ReShape Lifesciences Inc.	1,555,945.28
6.	OPGEN INC	1,501,327.87
7.	Avinger Inc	1,239,862.47

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As expected, not all companies in the health sector industry have had such a bad behaviour.

In fact, the observed situation can be explained by looking at several companies like Jaguar Health Inc, Sintx Technologies or InspireMD. If we compare them with the rest of the sector, we find that the evolution of the sector is not as bad.

However, this is a very naive analysis and more work should be done.