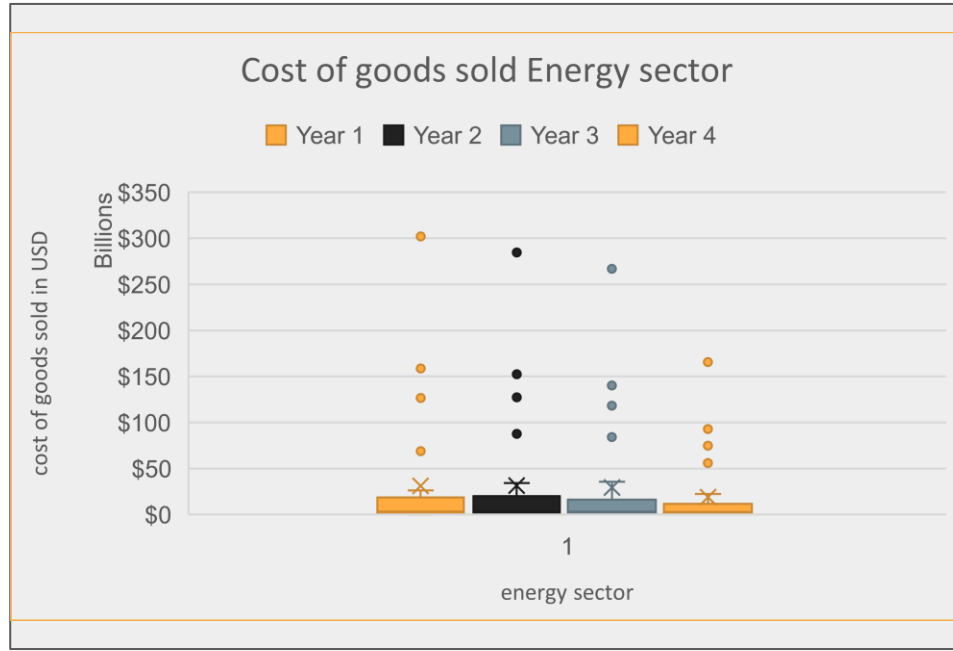


Analyzing Stock Market Exchange

Abdulaziz Alsaaran

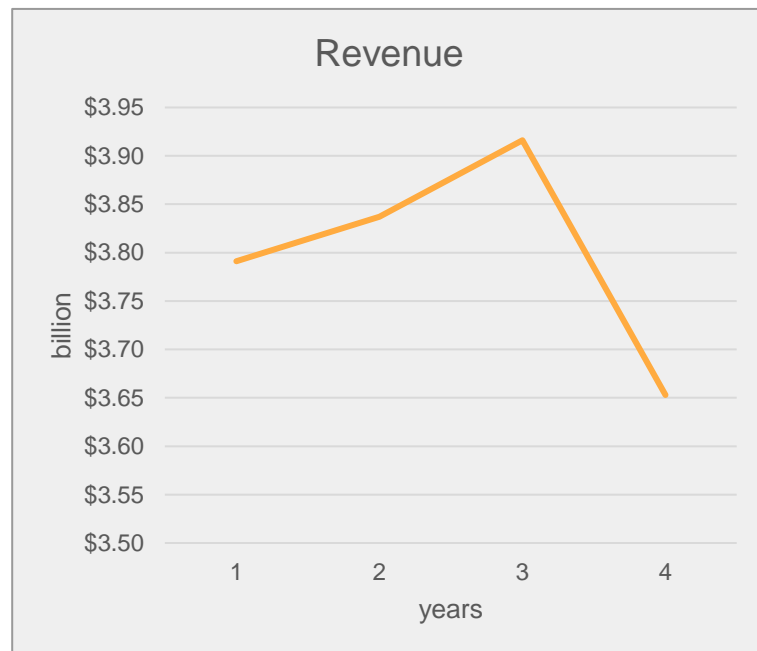
How is the energy sector preforming ?



This box plots representation the cost of goods in the Energy sector for. The histogram representations show that the cost of goods mean of the first and second year was increasing . it increased from \$30.9B to \$31.4B but in the third and fourth year the mean decreased a lot . it went from \$29.4B to \$18.7B That means on average companies will have lower COGs in year 4. The median for the first year (\$3B) is slightly less than the median for the second year (\$3.3B) and the median for the fourth year (\$3.18B) is less than the median for the fourth year (\$2.9B). The median for the first year (\$3B) is less than the mean (\$30B) same case in every year where the median is hugely less than the mean that indicate the distribution is left skewed hence the better measurement of center is the median .The standard deviation for the first year is \$67.4B which is higher than the mean of the first year \$31B. That indicate companies COGs in the energy is spread out. Same thing happened in the second and third year but in the fourth year we can see that the gap had decreased a lot, but sill have a high gap. The range of the first year is decreasing every year it started with \$301B in year 1 and reached \$165B in year 4 that indicate COGs in the energy sector volatily is decreasing but it is still high compare to martials sector which vary between \$38B to \$26B hence the extremes in variability are greater in energy sector."

How is the revenue of XYL performing in 1-4 year?

	XYL			
Income statement				
	Historical			
	Year 1	Year 2	Year 3	Year 4
Revenue	\$3,791,000,000.00	\$3,837,000,000.00	\$3,916,000,000.00	\$3,653,000,000.00
COGS	\$2,289,000,000.00	\$2,338,000,000.00	\$2,403,000,000.00	\$2,249,000,000.00
Gross Profit	\$1,502,000,000.00	\$1,499,000,000.00	\$1,513,000,000.00	\$1,404,000,000.00
Sales, General and Admin.	\$936,000,000.00	\$990,000,000.00	\$920,000,000.00	\$854,000,000.00
Research and Development	\$106,000,000.00	\$104,000,000.00	\$104,000,000.00	\$95,000,000.00
Other Operating Items	\$-	\$-	\$-	\$-
Total Operating expenses	\$1,042,000,000.00	\$1,094,000,000.00	\$1,024,000,000.00	\$949,000,000.00
Operating income /EBIT	\$460,000,000.00	\$405,000,000.00	\$489,000,000.00	\$455,000,000.00



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The income Statement for XYL the revenue of the company has increased slightly from year 1 to 3 but in year 4 we can see a huge drop in revenue. The gross profit had a steady increase from year 1 to 3 . It went from \$1.502M to \$1.513M but the fourth year there was a huge decreased and it reached \$1.404M. The total operation expansive had fluctuate independently of the revenue but in year 4 the company had cut its operation expensive to reach \$0.95M. Also, the highest Total operation expansive was at year 2 when it reached \$1.095M. The operating income fluctuate from \$405M to \$489M in year 2 the company scored the lowest operating income and in year 3 The company scored the highest operating income.

What going to happen for APH revenue in the next years

Income statement for APH						
	Forecasting					
	Year 5			Year 6		
Scenario	weak case	base case	strong case	weak case	base case	strong case
Revenue	\$5,996,152,633.31	\$6,079,683,133.31	\$6,163,213,633.31	\$6,546,358,760.48	\$6,728,749,254.48	\$6,913,645,663.48
Gross Profit	\$1,804,470,577.15	\$1,920,803,331.27	\$2,039,642,000.40	\$2,068,243,926.39	\$2,226,799,265.14	\$2,391,693,210.11
Operating income /EBIT	\$1,086,305,043.29	\$1,192,633,261.20	\$1,301,467,394.12	\$1,284,179,623.56	\$1,420,889,860.22	\$1,563,638,566.99
Revenue growth(%)	7.68%	9.18%	10.68%	9.18%	10.68%	12.18%
Gross margin	0.30093800	0.31593800	0.33093800	0.31593800	0.33093800	0.34593800
Opration margin	0.18116700	0.19616700	0.21116700	0.19616700	0.21116700	0.22616700
	1	1	1	1	1	1



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The forecast income statement of APH company for the next two years shows that APH will have an increase of revenue growth, gross margin, and operating margin even in the worst case. Revenue growth is expected to have a steady growth of 1.5% for all cases. Gross margin is expected to also have a steady increase of 1.5% for all cases. operating margin is expected to also have a steady increase of 1.5% for all cases. That indicate the company will probably have a good financial future.