



Стопански  
факултет

# Социално- икономическа анализа

Книга 2/2020 (18)

Sayed Emara\*

## CORONA VIRUS PANDEMIC IMPACT ON THE GLOBAL GROWTH RATES. THE GRANT AND THE DISTRESS NINE SELECTED COUNTRIES AS APPLIED EXAMPLES

**Abstract:** The study aimed to measure the effects of the Covid-19 epidemic on global growth rates in vital sectors around the world specially – Agriculture – Construction – Manufacturing – Mining -& Transport, because it is the sectors that most to the formation of the GDP and has been directly affected by the Corona pandemic, the study proved too that the Corona virus epidemic has affected, to varying levels and degrees, the economies of the countries of the world. In most different sectors, especially developing countries, but the regional and local impact of the COVID-19 crisis was highly variable, with important economic and social dimensions in addition to the implications for crisis management and political responses to deal with it... Therefore, this paper takes an in-depth look at the impact. Linked to the COVID-19 crisis, the global growth rate at the time of lockdown, which led to the emergence of very difficult fateful challenges in many economies in the world, especially the developed ones, as well as the surprise of the emergence of emerging economies that surfaced and showed positive and significant recovery in growth rates for many of their sectors Vitality at a time in which a number of advanced economies surprised us by achieving a negative growth rate in light of their enormous economic potential, so we were interested to choose a heterogeneous package from the countries of the world (9 countries )to represent the diversity required for the different impact of the Corona virus on the different world economies and the expectations which the world economy will be appear in the global growth rates after the end of this pandemic.. So we exclusively selected 9 countries: Egypt, Saudi Arabia, Ethiopia, India, China, Germany, France, the United States of America and Australia, as examples. Stratification on this research

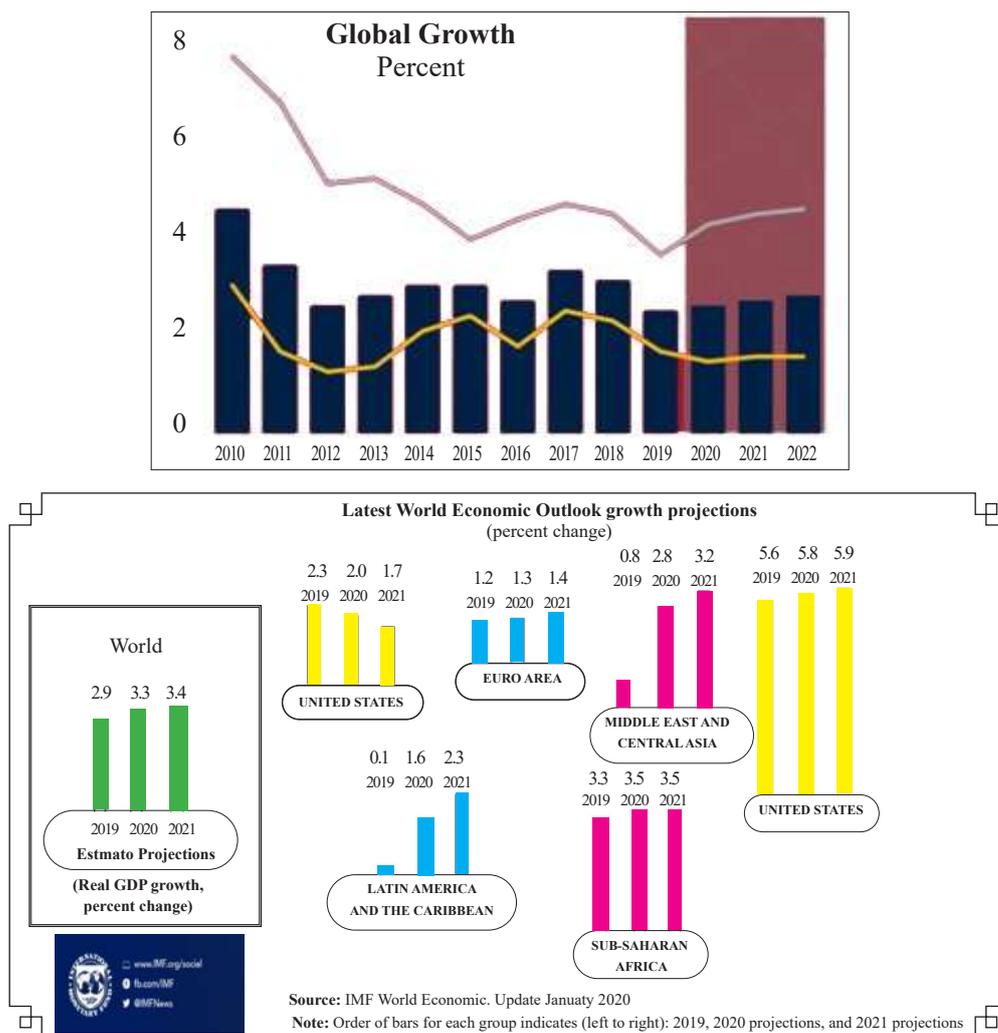
**Keywords:** global growth rates; COVID-19; pandemic impact; global economy; grant; the distress, GDP.

### Introduction

A few weeks from the beginning of 2020 and after the World Health Organization declared Covid-19 a global epidemic, the globe entered to a dark tunnel, that has not yet fully emerged from it until now followed by many effects that led to the almost complete halt of many vital economic activities around the world. They affected directly on the total outcome of the gross domestic product and then on the local and global growth rates, resulted in the world entering the stage of gradual and then full lockdown. Look to the next right graph which shows the growth rates by areas over three years 2019–2020–2021 and the next graph showing the world growth rates before, through, and after the corona virus spared.

---

\* **Sayed Emara** – PhD, International economic instructor, Ain Shams University, Arab Republic of Egypt,  
e-mail: drsayedemara@gmail.com



Source: IMF and world Economic outlook, <https://www.imf.org/en/Publications/WEO/Issues/2020/01/20/>  
**Fig. 1.** Global Growth: Modest Pickup to 2.5% in 2020 amid Mounting Debt and Slowing Productivity Growth

According WEO-update-january 2020 the global growth was projected at – 4.9 percent for 2020, 1.9 percentage points below the April 2020 World Economic Outlook (WEO) forecast<sup>1</sup>. The COVID-19 pandemic has had more negative impact on activity in the first half of 2020 than anticipated, and the recovery is projected to be more gradual than previously forecast<sup>2</sup>. In 2021 global growth is projected at 5.4%<sup>3</sup>. Overall, this would leave 2021 GDP some 6½ percentage points lower than in the pre – COVID-19 projections of January 2020. The adverse impact on low-income households is particularly acute, imperiling the significant progress made in reducing extreme poverty in the world since the 1990s<sup>4</sup>.

The COVID-19 pandemic is inflicting high and rising human costs worldwide, and the necessary protection measures are severely impacting economic activity. As a result of the pandemic, the global economy is projected to contract sharply by – 3 percent in 2020, much worse than during the 2008–09 financial crises. In a baseline scenario, which assumes that the pandemic fades in the second half of 2020 and containment efforts can be gradually unwound – the global economy is projected to grow by 5.8 percent in 2021 as economic activity normalizes, helped by policy support. This puts the world in front of a real test in which those who fell and survived, such as the aviation sector, maritime transport,

<sup>1</sup> See more at: <https://www.imf.org/en/Publications/WEO>, <https://www.imf.org/en/Publications/WEO/Issues/2020/06/24/WEOupdateJune2020>

<sup>2</sup> <https://www.imf.org/en/Publications/WEO>, <https://www.spglobal.com/ratings/en/research/articles/201006-economic-research-a-double-digit-rebound-has-begun-but-it-s-no-time-to-celebrate-11676869>

<sup>3</sup> <https://www.imf.org/en/Publications/WEO>

<sup>4</sup> <https://www.imf.org/en/Publications/WEO>

tourism sector, export and import operations. Unemployment rates have risen sharply as a result of the cessation of industrialization and the demobilization of huge numbers of workers around the world, especially in the developing world and emerging economies, which have affected the largest share of the negative effects of this pandemic, as well as the emergence of a severe shortage of equipment, medical supplies and means of resistance and the complete absence of any information on treatment protocols. This virus even in the largest economies of the world, such as the United States of America and most of the European Union countries, which resulted in it. The global economy has entered the worst recession since the Great Depression in 1929, as well as a setback in the financial markets and stock exchanges as a result of the reluctance of dealers and investors to trade and the existence of fateful challenges before the world to get out of this dark tunnel, the first of which is to reach Vaccinate that spare the world the scourge of this pandemic and restore life to its nature.

### **The Study framework**

The study time includes three years, beginning of 2019 to 2021 where 2021 values are forecasting values depending on yearly quarter's reports to the 2020. The Study place is exclusive on 9 countries as following: USA, China, India, Germany, Australia, France, Egypt, Saudi Arabia, Ethiopia.

### **Aims of the study are as follows:**

1. Researching the shape of the relationship between global growth rates and the Corona virus, to contribute to protecting the global economy from collapse
2. To help of existing appropriate mechanisms involved in reducing the negative impacts of the GDP growth rate over the world.

### **The study hypotheses:**

1. There is appositive relationship between Corona virus pandemic which spread in all over the world and negative impacts on the Global Growth Rate.
2. The four sectors choosen to be studied: Agriculture, Construction, Manufacturing and Transport affected by pandemic corona virus.
3. The precautionary measures can limit the spread of the virus and thus protect the national economy and raise growth rate.

### **The reasons for choosing the nine countries as a sample for study are:**

- 1) A heterogeneous package to represent the diversity required for the study;
- 2) To include developed and developing countries ;
- 3) Variation of growth rates for each country in light of the outbreak of the Corona pandemic;
- 4) Total number of citizens at these countries reaches nearly half of the world's population census (as shown in Table 1 below);
- 5) Represent the different districts around the world which were the most countries suffered from corona virus epidemic.

**Table 1.** Population of the studied countries according to the 2020 census

<b>The State</b>	<b>Population</b>
USA	331,002,651
CHINA	1,439,323,774
INDIA	1,439,323,774
GERMANY	83,783,945
FRANCE	65,273,512
EGYPT	102,334,403
KSA	34,813,867
IRAQ	40,222,503
ETHIOPIA	112,078,730
AUSTRALIA	25,499,884
Population total number for 10 countries	3,614,337,663 Billion census

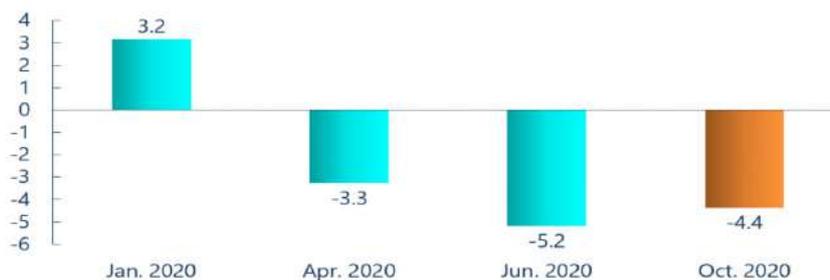
*Main source:* <https://www.un.org/ar/sections/issues-depth/population/index.html>

The graph 1 indicates to project a deep recession in 2020. Global growth is projected to be -4.4 percent, an upward revision of 0.8 percent compared to our June update. This upgrade owes to somewhat less dire outcomes in the second quarter, as well as signs of a stronger recovery in the third quarter, offset partly by downgrades in some emerging and developing economies. In 2021 growth is projected to rebound to 5.2 percent, -0.2 percent below our June projection<sup>5</sup>.

### Still deep recession

While we still project a deep recession, this is an upward revision compared to our June update.

(year-on-year percent change)



Sources: IMF, and World Economic Outlook.

**Graph 1.** Negative growth and Deep recession according IMF

### Fate has another opinion

Except the dramatic impacts which generated about corona virus towards the vital economic sectors around the world like – Agriculture – Construction – Manufacturing – Transport, we observed positive growth rates send light flash from a few numbers of the study countries tells us that we still safe to fall in the negative area on the graphs curve for the growth rate which the study title expressed it by (the Grant) and follows too the negative impacts on developed countries:

#### Theoretical vision

The International Monetary Fund stated that the global economy has a decline of -3% growth rates in 2020, a calendar year, compared to 2019, while growth expectations indicated a positive 2.9%, before the Corona virus. The study explained that developed countries have a growth rate of negative 3.3%, while growth rates in developing countries will decline by minus 1%, and that only 18 economies of 189 countries, including Egypt, are ranked sixth for the year 2020.

#### A comparison among the selected sectors in the study countries.

The aim of the comparison among the study countries to appear the different (G D P) rates among them and the growth rates about the same period at the time of corona virus which sparred around the world irrespective these countries was a developing or developed countries.. With considering that no finding competitiveness between them ... just as study countries determined

#### The comparison plane:

The plane holdings on aggregates and comparing between the matching sectors of Agriculture, Construction, Manufacturing and Transport, at the nine study countries to achieve the study aims.

#### Why we chosen these four sectors:

- ◆ These four sectors are especially sensitive sectors in the nations activities;
- ◆ These sectors are one of the most impacted sectors by any changeable or unexpected accidents occurs in the economic activities;
- ◆ They represent the majority activities which includes huge number of sub activities in different another sectors;
- ◆ Finally it was the most sectors strongly affected through lockdown corona virus period.

<sup>5</sup> <https://www.tribuneindia.com/news/world/world-economy-in-deep-recession-in-2020-growth-to-be-4-4-per-cent-imf-155186>

**Table 2.** GDP of Agriculture Sector

State	Lowest	Highest	Previous	Last	Unit
USA	168.40	264.10	264.10	235.90	USD Billion
China	649	70467	10186	26053	(CNY HML)
India	2691	6099	5306	4547	INR Billion
Germany	3.62	7.43	5.78	5.79	percent %
Australia	3879	12305	9326	9151	(AUD Million)
France	2105	8666	8147	7732	(EUR Million)
Egypt	42897.60	134192.00	95317.00	102405.50	EGP Million
KSA	10354	16228	16131	14637	SAR Million
Ethiopia	98.3	624	601	624	(ETB Billion)

Source: Prepared and compiled by the researcher

The previous table indicates to four position represent the agriculture sector ranges to the chosen sectors as follow (lowest – highest – previous – last) during the study period time. The table N 2 shows the following analytical data:

- Shown GDP from Agriculture in the United States decreased to 235.90 USD Billion in the second quarter of 2020 from 264.10 USD Billion in the first quarter of 2020...And from expected to be 230.95 USD Billion by the end of this quarter, according to Trading Economics global macro models and analysts expectations<sup>6</sup>.
- GDP from Agriculture in China increased to 48123 CNY HML in the first nine months of 2020...and expected to be 72933.00 CNY HML by the end of this quarter, according to Trading Economics global macro models and analysts expectations. Looking forward, Agriculture in China to stand at 27434.00 in 12 month's time. In the long-term, projected to trend around 77017.00 CNY HML in 2021<sup>7</sup>.
- In India decreased to 4546.58 INR Billion in the second quarter of 2020 from 5306.26 INR Billion in the first quarter of 2020. Expected to be -2.40 percent by the end of this quarter, looking forward, we estimate to stand at 2.30 in 12 month's time. In the long-term. Growth Rate is projected to trend around 2.20 percent in 2021<sup>8</sup>.
- GDP from Agriculture in Germany increased to 5.79 EUR Billion in the second quarter of 2020 from 5.78 EUR Billion in the first quarter of 2020. Expected to be 6.34 EUR Billion by the end of this quarter, looking forward, we stand at 6.32 in 12 month's time. In the long-term, projected to trend around 5.85 EUR Billion in 2021<sup>9</sup>.
- GDP from Agriculture in Australia decreased to 9151AUD Million in the second quarter of 2020 from 9326AUD Million in the first quarter of 2020. Expected to be 9235.00 AUD Million by the end of this quarter, looking forward, we estimate stand at 9636.00 in 12 month's time. In the long-term, projected to trend around 9235.00 AUD Million in 2021<sup>10</sup>.
- GDP from Agriculture in France decreased to 7732 EUR Million in the second quarter of 2020 from 8147 EUR Million in the first quarter of 2020. Expected to be 7376.00 EUR Million by the end of this quarter, looking forward, we estimate stand at 8900.00 in 12 month's time.
- GDP from Agriculture in Egypt increased to 102405.50 EGP Million in the first quarter of 2020 from 95317 EGP Million in the fourth quarter of 2019. Expected to be 137949.00 EGP Million

<sup>6</sup> <https://tradingeconomics.com/germany/gdp-from-agriculture>

<sup>7</sup> <https://tradingeconomics.com/united-states/gdp-growth>

<sup>8</sup> <https://tradingeconomics.com/india/gdp-from-agriculture>, <https://tradingeconomics.com/world/composite-pmi>, <https://tradingeconomics.com/world/manufacturing-pmi>, <https://tradingeconomics.com/united-states/composite-pmi>, <https://tradingeconomics.com/commodity/steel>

<sup>9</sup> <https://tradingeconomics.com/germany/gdp-from-agriculture>

<sup>10</sup> <https://tradingeconomics.com/australia/gdp-from-manufacturing>

by the end of this quarter, looking forward, we estimate to stand at 107526.00 in 12 month's time. In the long-term, projected to trend around 104079.00 EGP Million in 2021<sup>11</sup>.

- GDP from Agriculture in Saudi Arabia decreased to 14637 SAR Million in the second quarter of 2020 from 16131 SAR Million in the first quarter of 2020. Expected to be 15106.00 SAR Million by the end of this quarter, looking forward, we estimate to stand at 16857.00 in 12 month's time. In the long-term, projected to trend around 14267.00 SAR Million in 2021<sup>12</sup>.
- GDP from Agriculture in Ethiopia increased to 624 ETB Billion in 2018 from 600.90 ETB Billion in 2017..expected to reach 639.60 ETB Billion by the end of 2020, according to Trading Economics global macro models and analysts expectations. In the long-term, projected to trend around 665.18 ETB Billion in 2021.

As a conclusion the farm sector achieves positive results where the growth rate is estimated to be 3 percent in the 2020–21 fiscal despite prevailing adverse circumstances. In the current lockdown situation, the agriculture sector is functioning smoothly as there has been no shortage of food grains, vegetables and dairy products. But, many other sectors are impacted.

**Table 3.** GDP of Construction Sector

State	Lowest	Highest	Previous	Last	Unit
USA	532	794	665	615	USD Billion
China	182	70904	9378	28535	(CNY HML)
India	1308	2730	2670	1308	INR Billion
Germany	74.6	110	92.5	93.4	(EUR Million)
Australia	8565	37165	32948	30249	(AUD Million)
France	7105	33610	24998	19607	(EUR Million)
Ethiopia	185	1875	1720	1875	(ETB Billion)
Egypt	10879	70660	65753	63984	EGP Million
KSA	21969	31972	29838	27204	SAR Million

Source: Prepared and compiled by the researcher

The table N 3 shows the following analytical data:

- GDP from Construction in the United States decreased to 615.80 USD Billion in the second quarter of 2020 from 665.10 USD Billion in the first quarter of 2020. to be 618.83 USD Billion by the end of this quarter, according to Trading Economics global macro models and analysts expectations. Looking forward, we estimate GDP from Construction to stand at 677.37 in 12 month's time. In the long-term, the United States GDP from Construction is projected to trend around 685.43 USD Billion in 2021<sup>13</sup>.
- According to Trading Economics global macro models and analysts expectations to GDP from Construction in China increased to 28535 CNY HML in the second quarter of 2020 from 9378 CNY HML in the first quarter of 2020. Expected to be 73386.00 CNY HML by the end of this quarter. Looking forward, we estimate to stand at 30047.00 in 12 month's time. In the long-term, projected to trend around 77496.00 CNY HML in 2021.
- GDP from Construction in India decreased to 1307.50 INR Billion in the second quarter of 2020 from 2670 INR Billion in the first quarter of 2020 GDP from Construction in India is expected to be 2319.00 INR Billion by the end of this quarter, Looking forward, we estimate to stand at 3071.00 in 12 month's time. In the long-term, projected to trend around 2627.00 INR Billion in 2021<sup>14</sup>.
- GDP from Construction in Germany increased to 44.48 EUR Billion in the second quarter of 2020 from 38.54 EUR Billion in the first quarter of 2020. Expected to be 43.02 EUR Billion by

<sup>11</sup> <https://take-profit.org/en/statistics/gdp/egypt>

<sup>12</sup> <https://tradingeconomics.com/saudi-arabia/gdp-from-transport>

<sup>13</sup> <https://tradingeconomics.com/united-states/gdp-growth>

<sup>14</sup> <https://tradingeconomics.com/india/>

the end of this quarter, looking forward, we estimate to stand at 48.58 in 12 month's time. In the long-term, projected to trend around 47.91 EUR Billion in 2021<sup>15</sup>.

- GDP from Construction in Australia decreased to 30249 AUD Million in the second quarter of 2020 from 32948 AUD Million in the first quarter of 2020 expected to be 32945.00 AUD Million by the end of this quarter, looking forward, we estimate to stand at 31852.00 in 12 month's time. In the long-term, projected to trend around 32204.00 AUD Million in 2021.
- GDP from Construction in France decreased to 19607 EUR Million in the second quarter of 2020 from 24998 EUR Million in the first quarter of 2020. expected to be 25915.00 EUR Million by the end of this quarter, Looking forward, we estimate to stand at 22568.00 in 12 month's time. In the long-term, projected to trend around 28484.00 EUR Million in 2021.
- There is no data for the construction sector for Ethiopia.
- GDP from Construction in Egypt decreased to 63983.90 EGP Million in the first quarter of 2020 from 65752.90 EGP Million in the fourth quarter of 2019. Expected to be 48711.00 EGP Million by the end of this quarter, looking forward, we estimate to stand at 67183.00 in 12 month's time. In the long-term, projected to trend around 71797.00 EGP Million in 2021<sup>16</sup>.
- GDP from Construction in Saudi Arabia decreased to 27204 SAR Million in the second quarter of 2020 from 29838 SAR Million in the first quarter of 2020 Expected to be 29341.00 SAR Million by the end of this quarter, looking forward, we estimate to stand at 31181.00 in 12 month's time. In the long-term, projected to trend around 32245.00 SAR Million in 2021<sup>17</sup>.

**Table 4.** GDP of Manufacturing Sector

State	Lowest	Highest	Previous	Last	Unit
USA	1798.60	2236.40	2199.90	1962.90	USD Billion
China	317109	2208	64642	145044	(CNY HML)
India	3331	6144	6057	3514	INR Billion
Germany	90	173	157	133	(EUR Million)
Australia	16320	30742	27005	24409	(AUD Million)
France	7643	58416	53284	42726	(EUR Million)
Ethiopia	17.7	526.20	464.40	526.20	(ETB Billion)
Egypt	51327	181880	173544	181880	EGP Million
KSA	53468	80907	73806	67370	SAR Million

*Source:* Prepared and compiled by the researcher

The table no 4 shows the following analytical:

- GDP from Manufacturing in the United States decreased to 1962.90 USD Billion in the second quarter of 2020 from 2199.90 USD Billion in the first quarter of 2020. Expected to be 2081.00 USD Billion by the end of this quarter, looking forward, we estimate to stand at 2231.00 in 12 month's time. In the long-term, projected to trend around 2291.00 USD Billion in 2021<sup>18</sup>.
- GDP from Manufacturing in China increased to 145044 CNY HML in the second quarter of 2020 from 64642 CNY HML in the first quarter of 2020. Expected to be 328208.00 CNY HML by the end of this quarter, looking forward, we estimate to stand at 152731.00 in 12 month's time. In the long-term, projected to trend around 346587.00 CNY HML in 2021.
- GDP from Manufacturing in India decreased to 3513.96 INR Billion in the second quarter of 2020 from 6057.38 INR Billion in the first quarter of 2020. Expected to be 5473.00 INR Billion

<sup>15</sup> <https://take-profit.org/en/statistics/gdp/germany/>

<sup>16</sup> <https://take-profit.org/en/statistics/gdp/egypt/>

<sup>17</sup> <https://take-profit.org/en/statistics/gdp/saudi-arabia/> and <https://tradingeconomics.com/saudi-arabia/rss>

<sup>18</sup> <https://tradingeconomics.com/united-states/gdp>

by the end of this quarter Looking forward, we estimate to stand at 6966.00 in 12 month’s time. In the long-term, projected to trend around 5636.00 INR Billion in 2021.

- GDP from Manufacturing in Germany decreased to 132.65 EUR Billion in the second quarter of 2020 from 157.07 EUR Billion in the first quarter of 2020. s expected to be 160.54 EUR Billion by the end of this quarter, Looking forward, we estimate GDP from Manufacturing in Germany to stand at 144.86 in 12 month’s time. In the long-term, projected to trend around 164.76 EUR Billion in 2021<sup>19</sup>.
- GDP from Manufacturing in Australia decreased to 24409 AUD Million in the second quarter of 2020 from 27005 AUD Million in the first quarter of 2020. Expected to be 25087.00 AUD Million by the end of this quarter, looking forward, we estimate to stand at 25703.00 in 12 month’s time. In the long-term, projected to trend around 25651.00 AUD Million in 2021<sup>20</sup>.
- GDP from Manufacturing in France decreased to 42726 EUR Million in the second quarter of 2020 from 53284 EUR Million in the first quarter of 2020. Expected to be 51664.00 EUR Million by the end of this quarter, looking forward, we estimate to stand at 49178.00 in 12 month’s time. In the long-term, projected to trend around 56213.00 EUR Million in 2021.
- GDP from Manufacturing in Egypt increased to 181880.20 EGP Million in the first quarter of 2020 from 173544.50 EGP Million in the fourth quarter of 2019. Expected to be 158396.00 EGP Million by the end of this quarter, looking forward, we estimate to stand at 190974.00 in 12 month’s time. In the long-term, projected to trend around 189498.00 EGP Million in 2021<sup>21</sup>.
- GDP from Manufacturing in Saudi Arabia decreased to 67370 SAR Million in the second quarter of 2020 from 73806 SAR Million in the first quarter of 2020. Expected to be 76046.00 SAR Million by the end of this quarter, looking forward, we estimate to stand at 77127.00 in 12 month’s time. In the long-term, projected to trend around 82880.00 SAR Million in 2021<sup>22</sup>.
- GDP from Manufacturing in Ethiopia increased to 526.20 ETB Billion in 2018 from 464.40 ETB Billion in 2017, expected to reach 539.36 ETB Billion by the end of 2020, in the long-term, projected to trend around 560.93 ETB Billion in 2021.

**Table 5.** GDP of Transport sector

State	Lowest	Highest	Previous	Last	Unit
USA	429.60	584.50	569.90	438.90	USD Billion
China	393	42802	7865	18515	CNY HML
India	463.02	816.28	748.63	- 47	INR Billion
Germany	53.44	128.40	118.05	111.67	EUR Billion
Australia	4004	11713	11327	11156	AUD Million
France	1629	22904	20571	16134	EUR Billion
Ethiopia	69.4	746	674	746	ETB Billion
Egypt	11149	50234	41043	40269	EGP Million
KSA	24028	43371	42487	33329	SAR Million

Source: Prepared and compiled by the researcher

The table no 5 shows the following analytical:

- GDP from Transport in the United States decreased to 438.90 USD Billion in the second quarter of 2020 from 569.90 USD Billion in the first quarter of 2020. GDP from Transport in expected to

<sup>19</sup> <https://take-profit.org/en/statistics/gdp/germany>

<sup>20</sup> <https://tradingeconomics.com/australia/gdp-from-manufacturing>

<sup>21</sup> <https://take-profit.org/en/statistics/gdp/egypt/>

<sup>22</sup> <https://take-profit.org/en/statistics/gdp/saudi-arabia/> and <https://tradingeconomics.com/saudi-arabia/rss>

be 531.05 USD Billion by the end of this quarter, Looking forward, we estimate stand at 567.15 in 12 month's time. In the long-term, projected to trend around 588.35 USD Billion in 2021.

- GDP from Transport in China increased to 18515 CNY HML in the second quarter of 2020 from 7865 CNY HML in the first quarter of 2020. Expected to be 44300.00 CNY HML by the end of this quarter, looking forward, we estimate to stand at 19496.00 in 12 month's time. In the long-term, projected to trend around 46781.00 CNY HML in 2021.
- There is no data for India on the transport sector.
- There is no data on the transport sector for Germany.
- There is no data on the transport sector for Australia.
- GDP from Transport in France decreased to 16134 EUR Million in the second quarter of 2020 from 20571 EUR Million in the first quarter of 2020. GDP from Transport in France is expected to be 20544.00 EUR Million by the end of this quarter, according to Trading Economics global macro models and analysts expectations. Looking forward estimate to stand at 18570.00 in 12 month's time. In the long-term, projected to trend around 22113.00 EUR Million in 2021.
- GDP from Transport in Egypt decreased to 40269.40 EGP Million in the first quarter of 2020 from 41042.80 EGP Million in the fourth quarter of 2019. GDP from expected to be 46594.00 EGP Million by the end of this quarter, according to Trading Economics global macro models and analysts expectations. Looking forward, we estimate to stand at 42283.00 in 12 month's time. In the long-term, projected to trend around 44816.00 EGP Million in 2021<sup>23</sup>.
- GDP from Transport in Saudi Arabia decreased to 33329 SAR Million in the second quarter of 2020 from 42487 SAR Million in the first quarter of 2020. expected to be 38617.00 SAR Million by the end of this quarter,. Looking forward, we estimate GDP to stand at 44399.00 in 12 month's time. In the long-term, projected to trend around 45789.00 SAR Million in 2021<sup>24</sup>.
- There is no data on the transport sector for Ethiopia.

**Table 6.** GDP Forecast 2020–2021

State	Last	Dec 2019	2020	2021	Unit
USA	21427.70	Dec/19	19800	21500	USD Billion
China	14342.90	Dec/19	14000	14600	CNY HML
India	2875.14	Dec/19	2610	2850	INR Billion
Germany	3845.63	Dec/19	3400	3700	EUR Billion
Australia	1392.70	Dec/19	1320	1370	AUD Million
France	2715.52	Dec/19	2400	2510	EUR Billion
Egypt	303.20	Dec/19	220	280	EGP Million
KSA	792.97	Dec/19	745	790	SAR Billion
Ethiopia	96.11	Dec/19	90	97	ETP Million

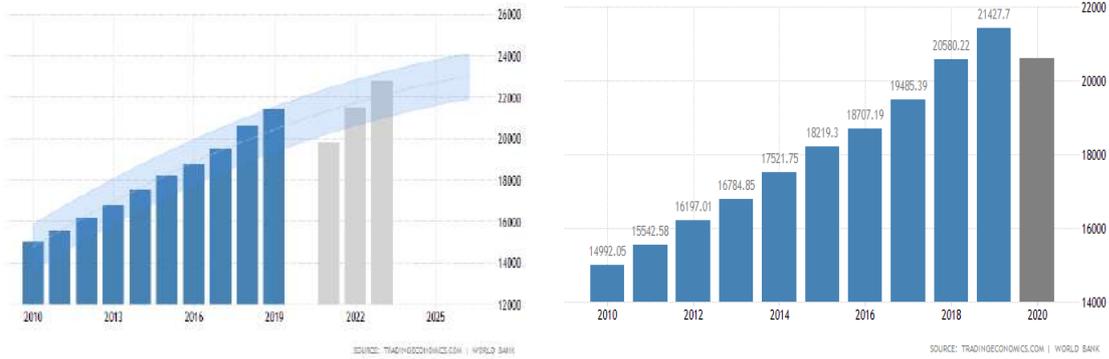
Sources: <https://tradingeconomics.com/forecast/gdp?continent=asia>

The table no 6 shown the following analytical parameters:

- GDP for USA at the fourth quarter in 2019 to 21427.70 USD billion decreased to 19800 during 2020 the year of corona virus pandemic by Estimated value 1627.7 USD billion and expected To be 21500 USD Billion by the end of year 2021, according to Trading Economics global macro models and analysts expectations (see Fig. 2).

<sup>23</sup> <https://take-profit.org/en/statistics/gdp/egypt/>

<sup>24</sup> <https://take-profit.org/en/statistics/gdp/saudi-arabia/>, <https://tradingeconomics.com/saudi-arabia/gdp-from-transport> , <https://tradingeconomics.com/saudi-arabia/rss>

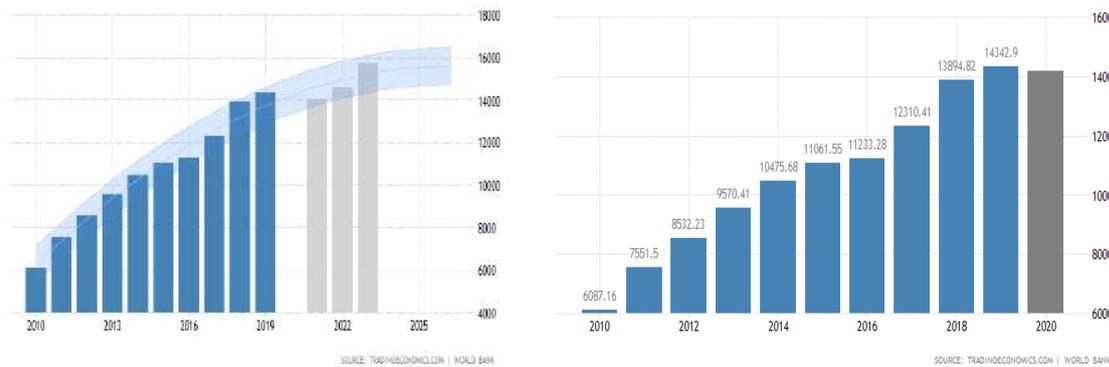


USA GDP Actual figures

USA GDP forecasting figures

**Fig. 2.** USA GDP Actual and forecasting figures

- GDP for China at the fourth quarter in 2019 to 14342.90 CNY HML billion decreased to 14000 CNY during 2020 the year of corona virus pandemic by Estimated value 342.90 CNY billion and expected To be 14600 CNY Billion by the end of year 2021, according to Trading Economics global macro Models and analysts expectations.

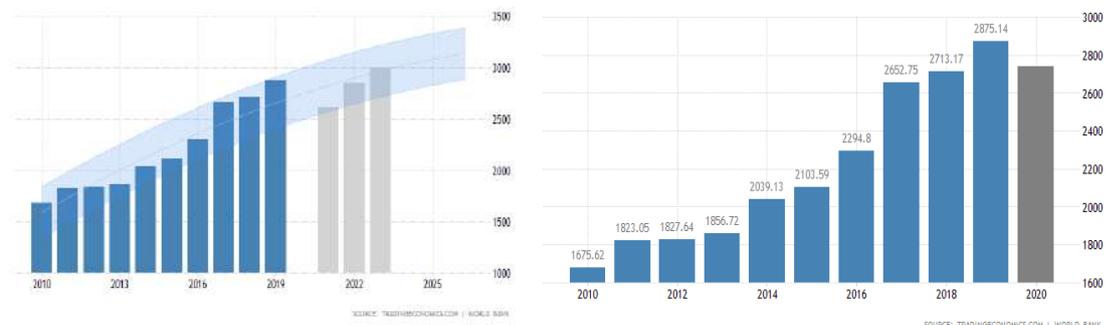


China GDP Actual figures

China GDP forecasting figures

**Fig. 3.** China GDP Actual and forecasting figures

- GDP for India at the fourth quarter in 2019 to 2875.14 INR Billion decreased to 2610 INR Billion during 2020 the year of corona virus pandemic by estimated value 265 INR Billion and expected to be 2850 INR Billion by the end of year 2021, according to Trading Economics global macro models and analysts expectations.

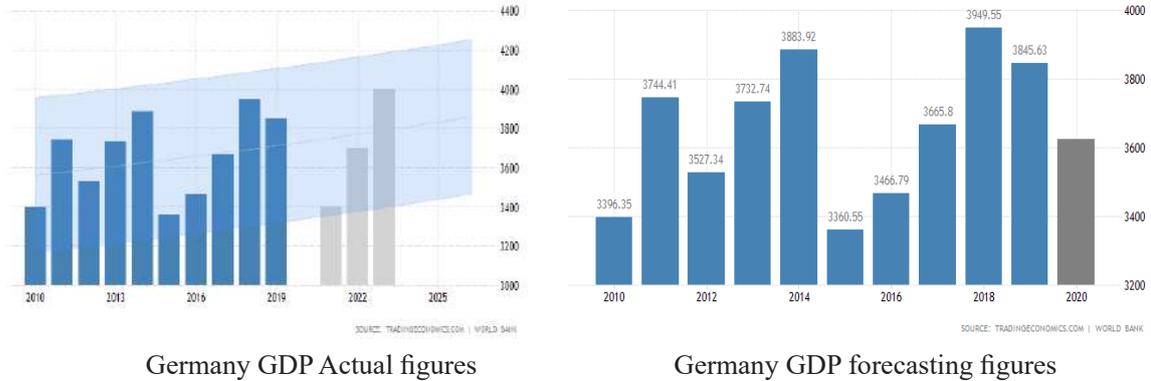


India GDP Actual figures

India GDP forecasting figures

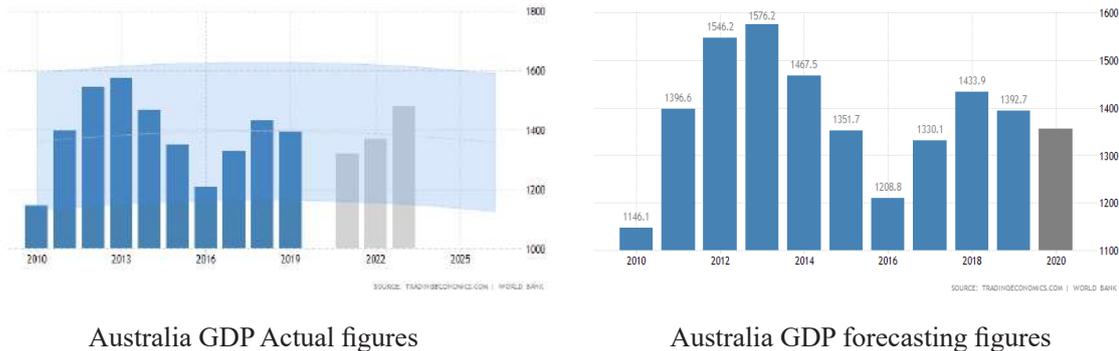
**Fig. 4.** India GDP Actual and forecasting figures

- GDP for Germany at the fourth quarter in 2019 to 3845.63 EUR Billion decreased to 3400 EUR Billion during 2020 the year of corona virus pandemic by Estimated value 445.63 EUR Billion and expected To be 3700 EUR Billion by the end of year 2021, according to Trading Economics global macro models and analysts expectations.



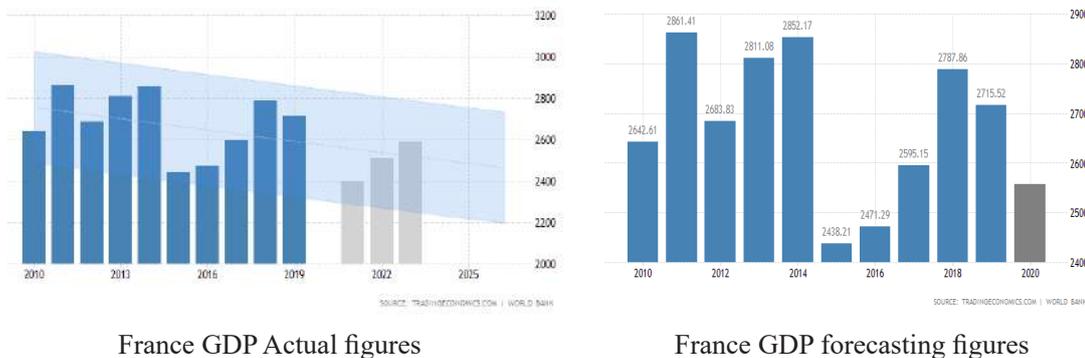
**Fig. 5.** Germany GDP Actual and forecasting figures

- GDP for Australia at the fourth quarter in 2019 to 1392.70 AUD Million decreased to 1320 AUD Million during 2020 the year of corona virus pandemic by Estimated value 72.70 AUD Million and expected to be 1370 AUD Million by the end of year 2021, according to Trading Economics global macro models and analysts expectations.



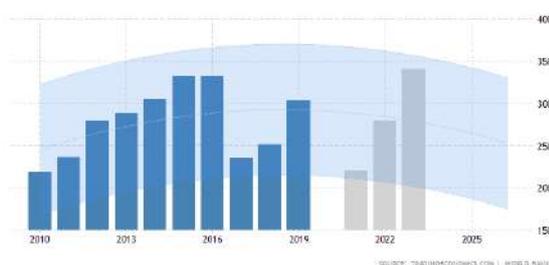
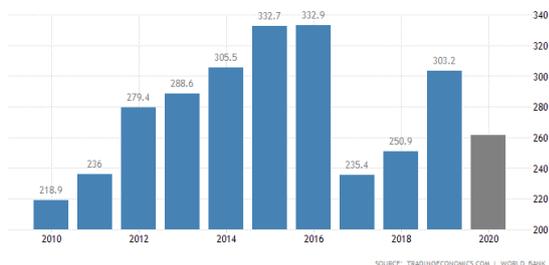
**Fig. 6.** Australia GDP Actual and forecasting figures

- GDP for France at the fourth quarter in 2019 to 2715.52 EUR Billion decreased to 2400 EUR Billion during 2020 the year of corona virus pandemic by Estimated value 315.52 EUR Billion and expected to be 2510 EUR Billion by the end of year 2021, according to Trading Economics global macro models and analysts expectations.



**Fig. 7.** France GDP Actual and forecasting figures

- GDP for Egypt at the fourth quarter in 2019 to 303.20 EGP Million decreased to 220 EGP Million during 2020 the year of corona virus pandemic by Estimated value 83.20 EGP Million and expected to be 280 EGP Million by the end of year 2021 , according to Trading Economics global macro models and analysts expectations.

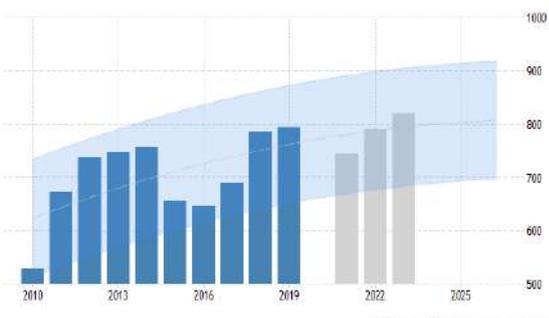
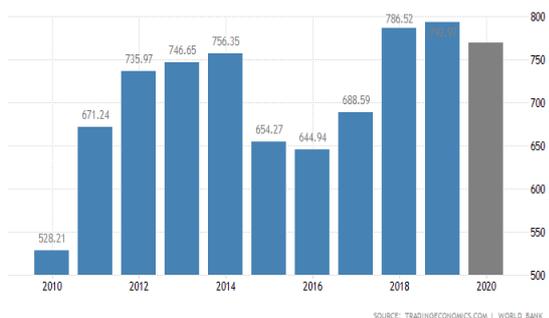


Egypt GDP Actual figures

Egypt GDP forecasting figures

**Fig. 8.** Egypt GDP Actual and forecasting figures

- GDP for KSA at the fourth quarter in 2019 to 792.97 SAR BILLION decreased to 745 SAR BILLION during 2020 the year of corona virus pandemic by Estimated value 47.97 SAR BILLION and expected to be 790 SAR BILLION by the end of year 2021, according to Trading Economics global macro models and analysts expectations.

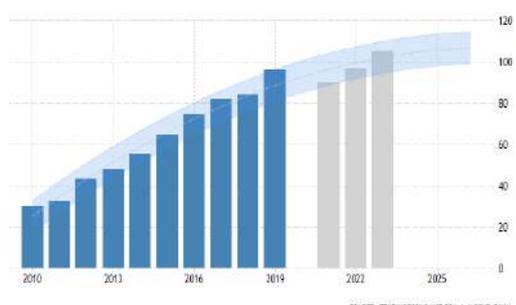
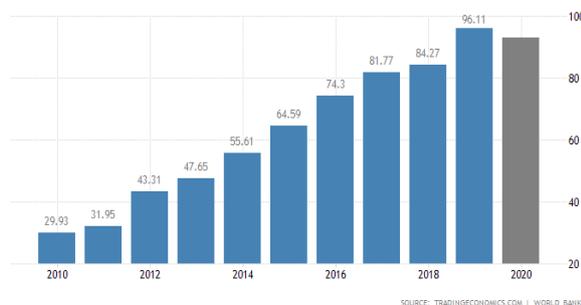


KSA GDP Actual figures

KSA GDP forecasting figures

**Fig. 9.** KSA GDP Actual and forecasting figures

- GDP for Ethiopia at the fourth quarter in 2019 to 96.11 INR Billion decreased to 90 INR Billion during 2020 the year of corona virus pandemic by Estimated value 6.1 INR Billion and expected To be 97 INR Billion by the end of year 2021, according to Trading Economics global macro Models and analysts expectations.



Ethiopia GDP Actual figures

Ethiopia GDP forecasting figures

**Fig. 10.** Ethiopia GDP Actual and forecasting figures

Focusing on the GDP forecast growth rates for 2020-2021 we can outline such conclusions as follows:

**Table 7.** GDP Growth Rate – Forecast 2020–2021

State	Last	Jun/20	Q4/20	Q1/21	Q2/21	Q3/21
USA	-31.40	Jun/20	3	3.8	2.5	2.9
China	11.50	Jun/20	0.9	0.9	1	1.1
India	-25.20	Jun/20	3.5	1.9	2.3	1.4
Germany	-9.70	Jun/20	2	1.5	1.4	0.8
Australia	-7.00	Jun/20	2	1.7	0.6	0.7
France	-13.80	Jun/20	3.2	2.5	1.9	0.7
Egypt	3.5	Jun/20	2	2	4	6.5
KSA	1.20	Dec/19	1.5	1	1.9	2.2
Ethiopia	1.9	Jun/20	...	...	...	...

Sources: <https://tradingeconomics.com/forecast/gdp?continent=asia>

- The previous table explains the differentiation between GDP Growth rate for the end of 2019 and the fourth quarter in 2020 add to forecast GDP Growth rate to the last three quarters of the year 2021, but what attracts attention that the great drop in GDP growth rate for USA where recorded a sharp deflation ended by negative –31.40% growth rate, of course it was through the corona virus pandemic and the economy of USA is a huge economy.. But... The result was unexpected to reach this worth down GDP in Growth rate... and it's became clear this percent is the highest minus percent at the study countries in spite of it the expectation to achieves improvement at the fourth quarter in 2020 where it reach 3% and 3.8 - 2.5 - 2.9%. Respectively through the last three quarters of the year 2021, that means the lockdown period had a deep worth impact in different. That what the study called “The distress“.
- India represent the second high negative growth rate in the study countries reach to – 25.20 % percent this back to the Increasing numbers of Indian people infected with Corona virus where it reach to 6.7 million Infected with diminishing in light of the great shortage of health awareness and medical supplies, but the table indicate to an expected positive growth rates percents during the quarters of 2021 if it became actual this will mean (the grant) which The strength and resilience of the Indian economy.
- If we describe the negative GDP Growth Rate of the USA as “The distress“ this will lead us to judges on the efficient performance of the Chinese economy during the same study period that is (the grant) the up table explain it clearly because China GDP Growth Rate achivies the miracle where it recorded 11.5% GDP Growth Rate which represent the highest growth rate in the study countries even the expected growth rates in 2021 year keep on the positive rate in spite of the collapse in growth through lockdown period or an expected years.
- Egypt is the country after China which achieves positive growth rate reach to 3.5% although of the negative expectation from financial international institution as Bloomberg & Fetch but the huge reforms from Egyptian government in a vital sectors special the study sectors (Agriculture, Construction, Manufacturing and Transport) had a significant impact lead Egyptian economy to keep and promote the growth rate so the expected quarterly percents during 2021 is 2 % -2% -6.5% respectively.
- Each KSA & Ethiopia followed Egypt and China in appositive growth rate at the fourth quarter from 2019 achieved 1.2%, 1.9% respectively. But KSA only has an expected growth rates to 2021 1.5%, 1%, 1.9%, 2.2% respectively for each quarter but Ethiopia unrecorded any data.
- The residual countries in spite of it has been developed countries like Germany, Australia, France but the pandemic where Increasing numbers of infected people with Corona virus affected sharply in GDP Growth rate, it achieves negative Growth rate the fourth quarter from 2019, as

following 9.7%, 7%, 13.8% respectively but the percents in the table indicate to positive growth rate at the forecasting quarters period 2021.

**Table 8.** Real GDP growth (Annual percent change)

Annual percent change	2019	2020	2021
Advanced economies	1.7	- 5.8	3.9
Emerging market and developing economies	3.7	-3.3	6
World	2.8	- 4,4	5.2

Source: IMF, 2020

After long steps of explaining, describing and analyzing through this research we can say that the table no 8 only can considering as mirror discovering the relationship between the global growth rate and the impact of corona virus epidemic which spread around the study chosen countries, and this table only is the research key word. Why... because it shown the real GDP growth rate in the world, noteworthy as the table indicates the developed countries achieved real growth rate 1.7% from its GDP in 2019 changed into -5.8% negative growth rate in 2020 and forecasting re –increasing into 3.9% as furcating growth rate percents in 2021. While the emerging markets & developing countries achieved 3.7 % from its GDP in 2019. This is the double developed countries and fall down into -3.3% in 2020 and back increasing into 6% in 2021 as forecasting . growth rate percents, put the world as all obtain 2.8% GDP Growth Rate in the same year and down into – 4.4% in 2020 and increased into 5.2 as furcating growth rate percents.

### Results

The study table’s analysis resulted in:

1. There is appositive relationship between Corona virus pandemic which spread in all over the world and negative impacts on the Global Growth Rate.
2. The pandemic resulted in the fragility of the economic structure to the developed countries in the face of crises. Where it reflected clearly on the Global Growth Rate.
3. Developing countries and emerging markets achieved a surprise, as they showed positive growth rates despite the spread of the Corona pandemic which can be considered a divine grant.
4. The selected countries achieved the hypothesis of the study by showing the difference between them due to the impact of the Corona pandemic on global growth rates.
5. The world gain experience about how can deal with the virus and the precautionary measures which can lead to maximize the GDP Growth rate an avoid lockdown again.

### Recommendations

1. As a result that the global growth rate is negatively affected with the increase in infection with the Corona virus, precautionary measures so must be taken to prevent this.
2. Developing countries need to support to avoid the pandemic Spared and keep on positive growth rate as protection from collapse.
3. Lockdown is not right solution but However, permanent work, especially in the four selected study sectors, (Agriculture, Construction, Manufacturing and Transport) as they are closely related to people’s lives and growth rates with precautionary measures so must be taken.
4. The speedy obtain of a vaccine to vaccinate against the Corona virus will save humanity and the global economy from destruction.
5. Adopting a package of financial and monetary policies to help protect financial institutions in emerging markets and developing countries to support their growth rates.

## REFERENCES

1. United Nations Conference on Trade and Development (UNCTAD). Trade and Development Report Update. March 2020, retrieved at: [https://www.un.org/en/development/desa/policy/wess/wess\\_archive/2006wess.pdf](https://www.un.org/en/development/desa/policy/wess/wess_archive/2006wess.pdf)
2. United Nations Conference on Trade and Development (UNCTAD). Investment Trends Monitor (revised analysis). March 2020.
3. United Nations Conference on Trade and Development (UNCTAD). Trade and Development Report Update. March 2020.
4. The Egyptian Center for Economic Studies (ECES). Views on the Crisis: Impact on Remittances from Egyptians Abroad. March 2020.
5. Fitch Ratings. Non-Rating Action Commentary. March 23, 2020.
6. United Nations Economic Commission for Africa (UNECA). Economic Impact of the COVID-19 on Africa. March 2020.
7. International Energy Agency (IEA). Fuel Report. March 2020.
8. Central Bank of Egypt
9. Fitch Solutions: Quarterly Sub-Saharan Africa Outlook; Macro Implications Of And Policy Responses To COVID-19.
10. United Nations; World Economic Situation and Prospects 2020.
11. The Economics of a Pandemic: the case of COVID-19; Paolo Surico and Andrea Galeotti Professors of Economics at London Business School.
12. ECA Report – COVID-19 in Africa: Protecting lives and Economies .
13. <https://www.tralac.org/documents/resources/COVID-19/3293-COVID-19-protecting-african-lives-and-economies->
14. International Monetary Fund (IMF), 2020. World Economic Outlook, April 2020: The Great Lockdown. Available [Online]. <https://www.imf.org/en/Publications/WEO/>
15. <https://tradingeconomics.com>
16. <https://tradingeconomics.com/forecast/gdp?continent=asia>
17. IMF, WORLD Economic outlook
18. [oecd.org/economic-outlook](https://www.oecd.org/economic-outlook)
19. IMF (2020), Fiscal monitor (April 2020), International Monetary Fund, Washington D.C., <https://www.imf.org/en/Publications/FM/Issues/2020/04/06/fiscal-monitor-april-2020>
20. <https://www.un.org/ar/sections/issues-depth/population/index.html>