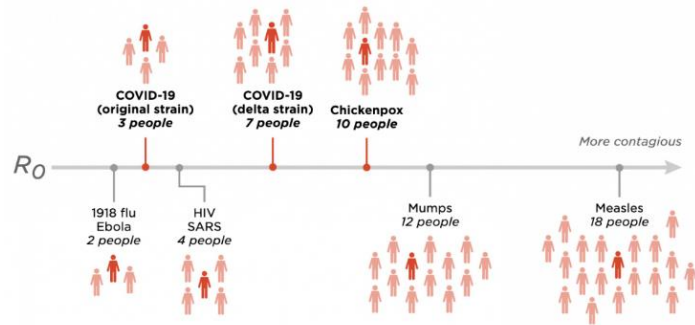


Where Mutations Happen

The spike protein causes Corona virus to enter certain cells in the body that have a special protein. The spike protein unlocks these cells and is able to infect the cell and use its content to replicate. Mutations are being observed in the spike protein.

[Source >](#)

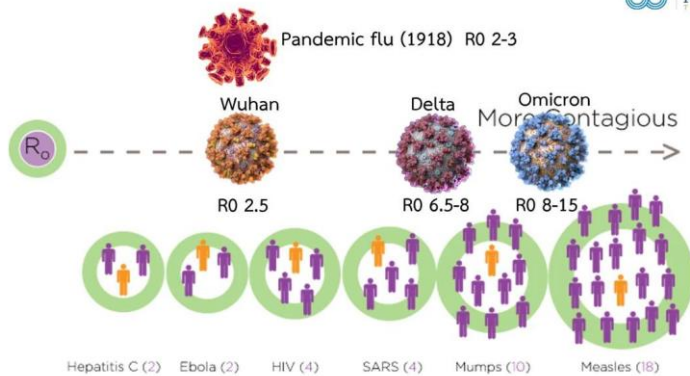
How contagious is COVID-19 versus other diseases?



November 24, 2021: A new variant of SARS-CoV-2, B.1.1.529, was reported to the World Health Organization (WHO) first detected on November 11, 2021 in Botswana and on November 14, 2021 in South Africa.

December 1, 2021: The first confirmed U.S. case of Omicron was identified.

[Source >](#)



Virulence of Variants

The spike protein causes Corona virus to enter certain cells in the body that have a special protein. The spike protein unlocks these cells and is able to infect the cell and use its content to replicate. Mutations are being observed in the spike protein.

[Source >](#)

Phases of Spread

1. New Pathogen is Identified.

Scientists launch investigations to understand it and how to treat it.

2. Community Spread Phase.

If highly transmissible, pathogen will move from a few cases early to spread unchecked within a community. Vaccines, medicines and minimizing behavior that causes spread are ways to slow the blizzard of cases and buy time to develop interventions.

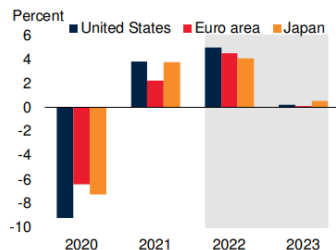
3. Endemic Phase.

Most of the population starts developing immunity either due to vaccination or due to falling ill from the pathogen. Varying levels of immunity will exit.

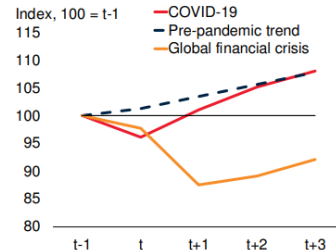
Impact on Business

Social and economic consequences

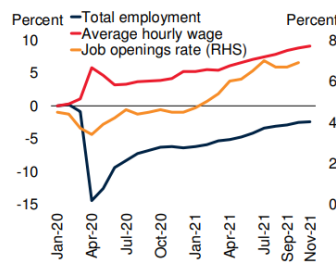
A. Pent-up demand in advanced economies



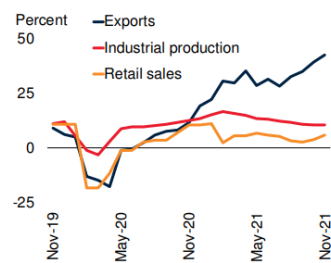
B. Investment in advanced economies around recent recessions



C. Labor market indicators in the United States



D. Growth of exports, industrial production, and retail sales in China



Advice for Businesses

- Pivot to countries with high GDP growth [Source >](#)
- Pivot to countries with large proportion of younger adults in their population (less COVID susceptible) [Source >](#)
- Pivot to industries that are resilient against COVID [Source >](#)
- Optimize operations to be better ready for growth [Source >](#)

Global Outlook

East Asia and Pacific - Growth is forecast to slow to 3.0% in 2022 year and 2.9% in 2023. [See regional overview](#)

Europe and Central Asia: Growth is forecast to slow to 3.0% in 2022 year and 2.9% in 2023. [See regional overview](#)

Latin America and the Caribbean: Growth is projected to slow to 2.6% in 2022 before increasing slightly to 2.7% in 2023. [See regional overview](#)

Middle East and North Africa: Growth is forecast to accelerate to 4.4% in 2022 before slowing to 3.4% in 2023. [See regional overview](#)

South Asia: Growth is projected to accelerate to 7.6% in 2022 before slowing to 6.0% in 2023. [See regional overview](#)

Sub-Saharan Africa: Growth is forecast to accelerate slightly to 3.6% in 2022 and rise further to 3.8% in 2023. [See regional overview](#)

[Read More:](#) Global Growth to Slow through 2023, Adding to Risk of 'Hard Landing' in Developing Economies (worldbank.org)

How will it end?

“

Eradicating this virus right now from the world is a lot like trying to plan the construction of a stepping-stone pathway to the Moon. It's unrealistic

[Read More](#)