World Economic Trends II < The 2021 Autumn/Winter Report>

 Economic Growth in China and Changes in Trade Structure —

(Summary)

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Cabinet Office
Government of Japan

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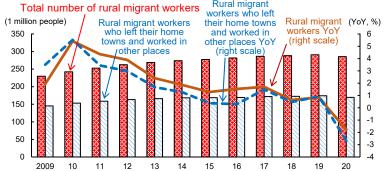
About "World Economic Trends": This report, published since 2002, surveys and analyzes the trends of the world economy.

This is the 39th issue.

1-1 China Aiming to Achieve High-Quality Growth [Shortage of Redundant Labor Force and the Transition of the Growth Model]

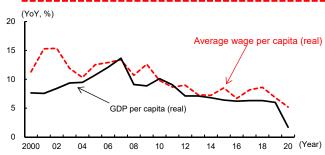
- In China, the growth of the number of migrant workers from rural areas peaked in the 2010s. On the other hand, the rate of wages continued to increase at a high level, and the level of wages is now higher than those of Southeast Asian countries. In China, a transition from growth relying on an increase in the labor supply is being pursued. In the 14th Five-Year Plan (March 2021), "high-quality development" was upheld as the policy direction.
- Also due to the minimum wage hike, income disparities between urban and rural areas are decreasing. However, the Gini coefficient is increasing, indicating the issue of disparities within urban areas. The Five-Year Plan states the goal of achieving "common prosperity" by 2025, aiming to close the gap of income and consumption level.

(1) Number of migrant workers The growth of the number of migrant workers (number of rural migrant workers) peaked in the 2010s. workers who left



- (Note) 1. Adapted from Ministry of Human Resources and Social Security of the People's
 - 2. "Migrant workers who left their home towns and worked in other places" refers to those who leave their home towns (their registered place) to take nonagricultural jobs for more than six months.

(2) Real GDP growth rate per capita and real wage increase The average wage has in general been growing more rapidly than GDP.

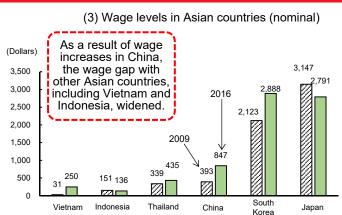


(Note) 1. Adapted from National Bureau of Statistics of China

2. The average wage shows wage per capita of urban workers,

including those who work at state-owned units, collective-owned units, share-holding corporations Ltd., and foreign funded units (not including workers at township and village enterprises. private units, or self-owned businesses).

(5) Ratio of those employed by industry



- (Note) 1. Adapted from ILO
 - 2. Data of 2012 and 2015 is used for Indonesia; data for 2011 and 2017 is used for Thailand

(4) Total population and working-age population (1 million people) 1,600 80 Working-age population 1.400 Working-age population ratio 70 (age 15-59) (right scale) 60 1,200 1,000 Total population 800 The working-age population has been decreasing since 600 2012. According to the United Nations estimation 400 20 (2019), total population is estimated to decrease from the first half of the 2030s by medium variant estimation 10 200 and from the mid-2020s by lower variant estimation. (Year) (Note) Adapted from "World Population Prospects 2019" by UN.

(Note) The actual birthrate in 2020 (1.3) was even lower than the lower variant estimation (1.45), partly due to the pandemic.

(Share, %) 75 Ratio of the tertiary industry increased 65 55 45 Primary industry 35 25 Secondary industry 20 (Year)

(Note) Adapted from National Bureau of Statistics of China

0.50 3.4 Disposable income per capita 3.2 Urban areas / rural areas 0.49 (right scale) 0.48 2.8 0.47 Gini coefficient

(6) Gini coefficient and disparities between urban and rural areas

2.4 0.46 2.2 Gini coefficient is increasing since 2016 0.45 2003

(Note) Adapted from National Bureau of Statistics of China

1-1 China Aiming to Achieve High-Quality Growth [Industrial Structure Upgrade and Progress in Human Resources Development / R&D Investment]

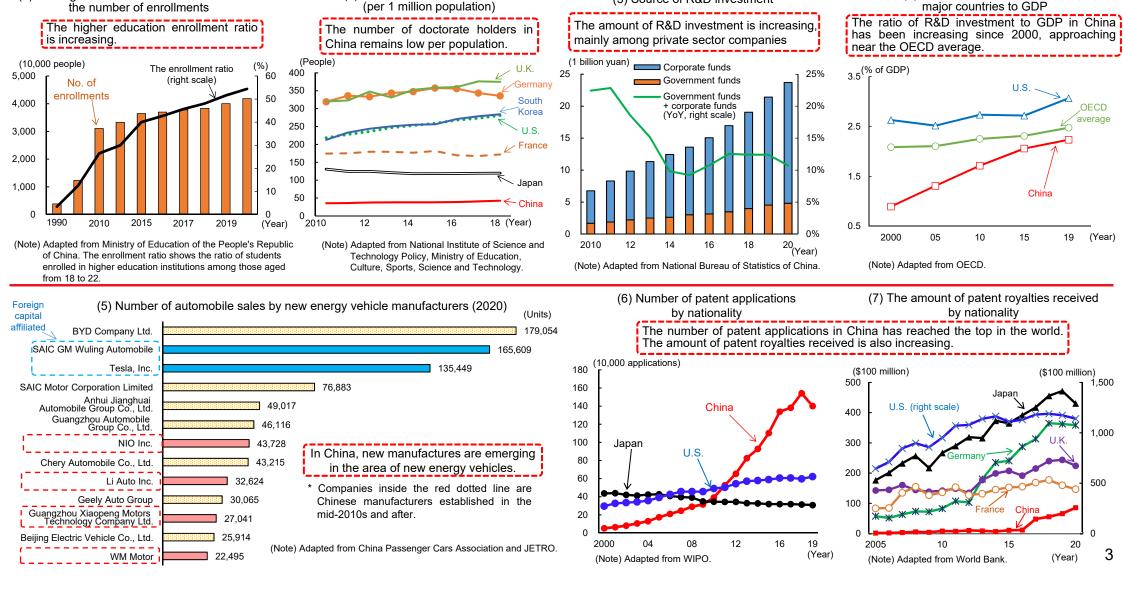
(2) Number of doctorate holders

(1) The higher education enrollment ratio and

- The Chinese government aims to increase the average years of education and the ratio of higher education, and is working on the development of human resources. R&D investment is increasing mainly among private sector companies, reaching near the average level of OECD countries.
- Such trend results in innovation among distinctive emerging companies in new areas such as the production of new energy vehicles, represented by EV production. The number of patent applications also increased significantly from around 2010, now reaching the top in the world.

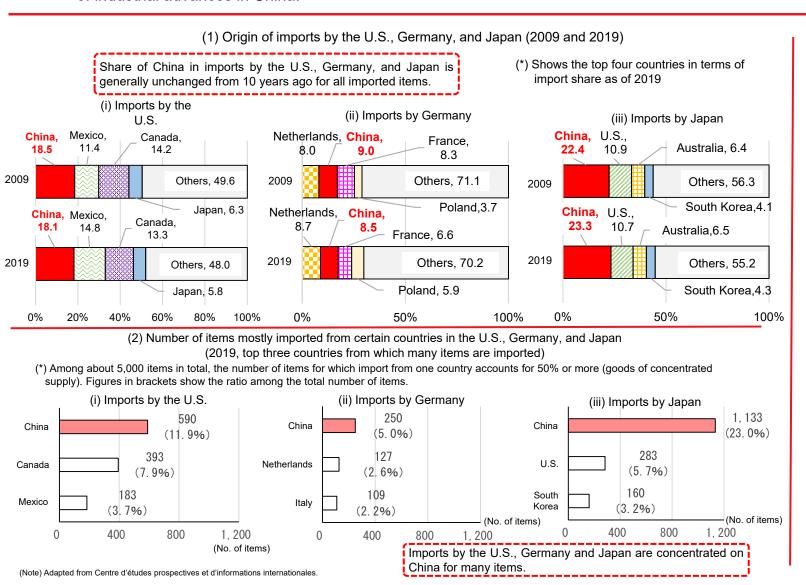
(3) Source of R&D investment

(4) Ratio of R&D investment of



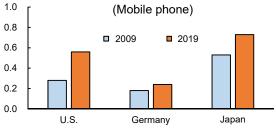
■ 1-2 Changes in Trade Structure Involving China [Changes in Import from China among Developed Countries]

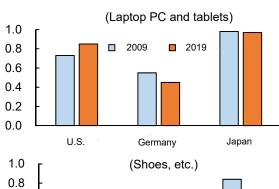
- > The role of China in the global value chain is changing with its economic growth. As for imports by the U.S., Germany, and Japan:
 - (1) the share of China in the imports of each country remained generally unchanged from 2009 to 2019 for all imported items;
 - (2) there are many items mostly imported from China for all three countries; and
 - (3) focusing on major items, goods mostly imported from China are shifting from labor-intensive goods to capital-intensive goods with the progress of industrial advances in China.

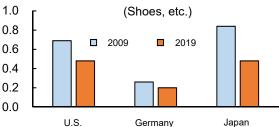


- (3) Changes in import concentration ratio(*) of major items that are imported from China the most (from 2009 to 2019)
- (*) Calculated by the square sum of the share of import origin country. A larger figure shows that the import is more concentrated on certain countries.

While the import concentration ratio is increasing for mobile phones, it is decreasing for shoes and other goods.

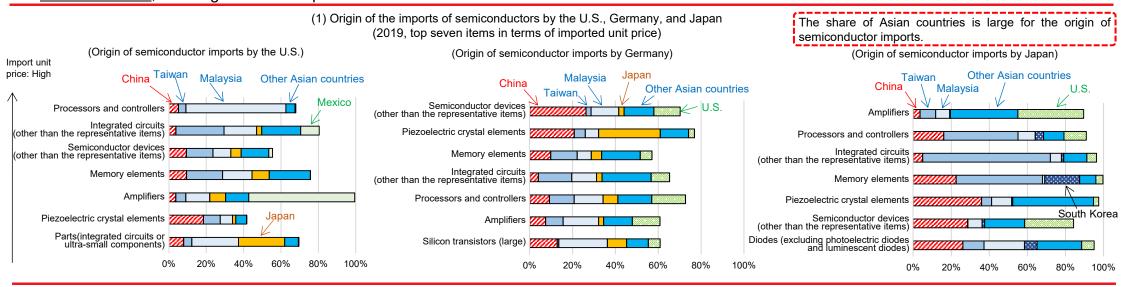


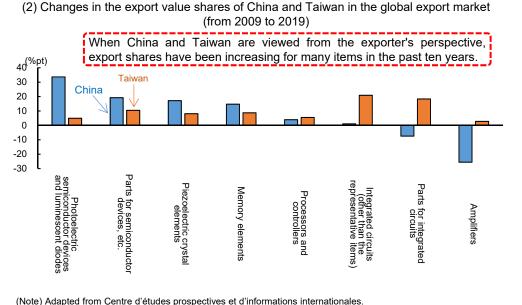




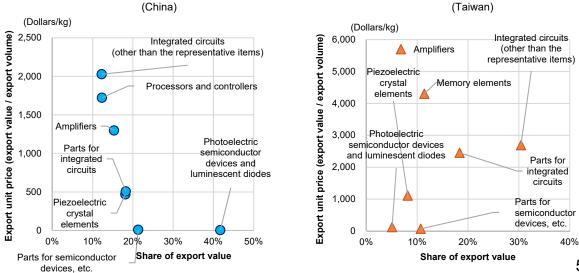
■ 1-2 Changes in Trade Structure Involving China [Semiconductor Trade]

- As for semiconductors, developed countries rely heavily on imports from Asia.
- Comparing the semiconductor exports of China and Taiwan, the unit price is slightly higher for Taiwan among the same export items, and items with a large export share in China tend to have a lower unit price as of 2019. On the other hand, there are items with higher unit prices with a large export share in Taiwan, showing that the competitive area differs between them.





(3) Export value shares and export unit prices of semiconductors in China and Taiwan (2019)



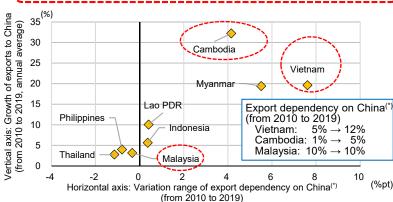
1-2 Changes in Trade Structure Involving China [Changes in Trade Structure in Asian Countries]

- > As for trends in the 2010s, the division of labor among China and ASEAN countries has been reinforced with the progress of industrial advances in China.
- > As for the value of exports from Vietnam to China, the growth of highly skilled, capital-intensive goods is relatively high. Malaysia has held high competitive power in the semiconductors area already since 2010, and had been exporting many parts also to China. Malaysia continuously exports many items to China as of 2019. As for Cambodia, exports of labor-intensive or resource-intensive goods to China are increasing significantly.
- (1) Variation range of ASEAN countries' export dependency on China(*) and growth of exports to China (from 2010 to 2019)

In Vietnam, exports to China have increased in the past ten years, and dependency has increased largely as well.

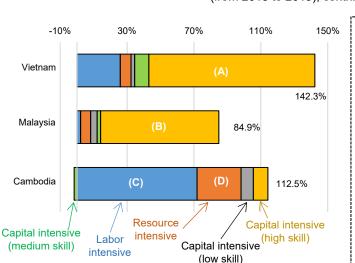
The growth of exports to China is the largest for Cambodia among the ASEAN countries.

The dependency of Malaysia was already high as of 2010.



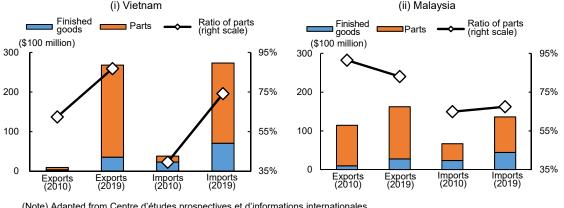
(*) Export dependency on China: Ratio of export value to China to nominal GDP

(2) Growth in exports from Vietnam, Malaysia, and Cambodia to China (from 2015 to 2019), contribution by area



- (A): ICT-related industries led by foreign capitals developed, and along with the progress of the division of labor with ICT cluster regions in China, increases have been seen mainly in the following:
 - integrated circuits (processors and controllers); and
 - parts for electric devices for phones or telecommunications (wired/wireless).
- (B): Competitive as a global production base of semiconductors with investments from Western countries
 - Integrated circuits (processors and controllers)
 - Semiconductor memory devices
- (C) (D): Substantial investments and loans from China since 2000s
 - (C): Handbags, clothes, shoes, etc.
 - (D): Polished rice, nuts, banana

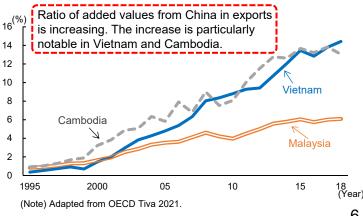
(3) Ratio of parts and finished goods among trade with China (electromechanical products)



Regarding value of exports to/imports from China for electromechanical products:

- (i) they increased rapidly from 2010 to 2019 in Vietnam, with the ratio of parts also increasing sharply; and
- (ii) in Malaysia, the ratio of parts was already large as of 2010.

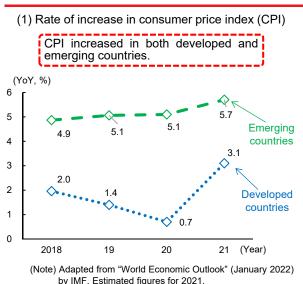
(4) Ratio of added values from China in exports

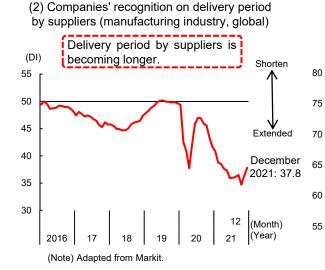


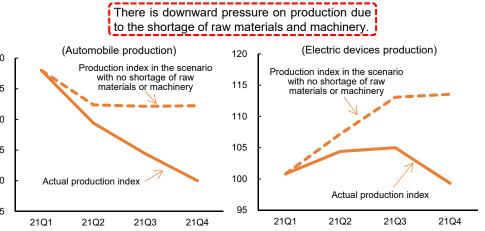
(Note) Adapted from Centre d'études prospectives et d'informations internationales

2-1 Trends of the World Economy [Global Price Rise and Supply Constraints / World Economy Outlook and Risk]

- Prices have risen globally with demand expansion and constraints on the supply side. Constraints on supply side can be observed in various aspects, including a raw materials shortage, logistics, and a labor shortage.
- Although it is expected that the world economy will continue recovering in 2022, it is necessary to keep a close watch on <u>supply and demand tightness</u>, the impact of the scaling down of monetary easing and interest rate hikes in Western countries, the slowdown of the Chinese economy, and the trend of the pandemic.







(3) Germany: Impact of supply constraints on production

(Note) 1. Adapted from the European Commission and Eurostat.
 2. Production index is a monthly seasonally-adjusted figure, Q1 = figure for January, Q2 = figure for April, Q3 = figure for July, Q4 = figure for October.

(4) World economy outlook
* Data in brackets indicate revisions from the previous outlook (October 2021).

(YoY, %)

	2020 [actual]	2021 [estimated]	2022	2023
World	-3.1	5.9	4.4 (-0.5)	3.8 (+0.2)
Developed countries	-4.5	5.0	3.9 (-0.6)	2.6 (+0.4)
U.S.	-3.4	5.6	4.0 (-1.2)	2.6 (+0.4)
Eurozone	-6.4	5.2	3.9 (-0.4)	2.5 (+0.5)
Japan	-4.5	1.6	3.3 (+0.1)	1.8 (+0.4)
Emerging countries	-2.0	6.5	4.8 (-0.3)	4.7 (+0.1)
China	2.3	8.1	4.8 (-0.8)	5.2 (-0.1)

According to IMF, it is expected that the world economy will continue to recover. However, with the scaling down of monetary easing in the U.S. earlier than expected, continuous supply constraints, and the slowdown of the Chinese economy, the outlook on growth in 2022 was revised down.

(5) Downward risks on world economy

OSupply and demand tightness

- Prolongation and deterioration of supply constraints
- Decrease in the purchasing power of consumers due to price rise
- O Impact of the scaling down of monetary easing and interest rate hikes in Western countries
- Instability in international finance

OSlowdown of Chinese economy

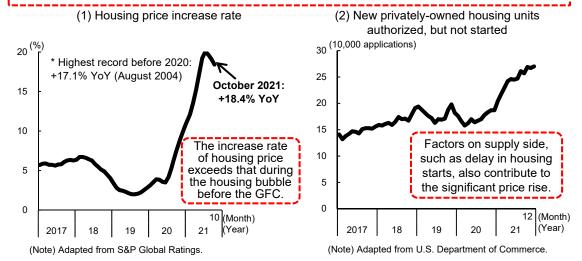
- Decrease in exports from different countries to China

OTrend of the pandemic

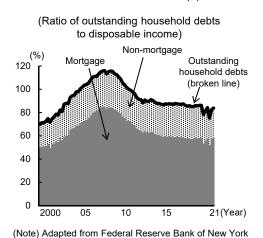
- Spread of infection with more infectious variants etc.

[Topic (1): Housing market in the U.S.]

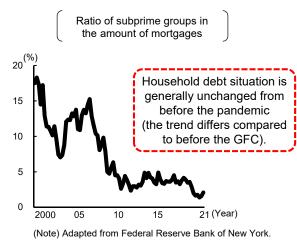
In the U.S., housing prices rose significantly due to both supply and demand reasons. Although the household debt situation differs compared to before the Global Financial Crisis (GFC), the trend must be watched carefully.



(3) Household debt situation



and U.S. Department of Commerce.



[Topic (2): Issues faced by the new German administration, which continue from the days of Merkel]

In Germany, the new administration led by Chancellor Scholz (heading SPD) was launched in December 2021, forming a socalled traffic signal coalition with The Greens and the FDP. Issues faced by the new administration include the post-COVID restoration of fiscal discipline, harmonization of energy security and decarbonization, and inclusion and integration of immigrants and other social minorities

(4) New Scholz administration in Germany

Major policies (from the coalition agreement)

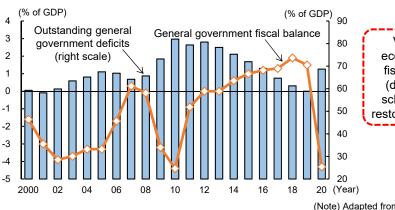
- Fiscal discipline was under moratorium due to the pandemic, but it will be restored from
- Realization of a decarbonized society by 2045
- Improvement of the labor environment, including the improvement of measures regarding
- Raising the minimum wage by 25%: €9.6 (about ¥1,240) → €12 (about ¥1,550)^(*)
- Having 15 million electric vehicles on the road by 2030

(*) Specific figures are as follows:

As of December 2021: €9.6 (about ¥1,240), January 2022: €9.82 (about ¥1,270), July 2022: €10.45 (about ¥1,350) and October 2022 (* plan by the administration): €12 (about ¥1,550)

(Note) Prepared based on information from the SPD website and news reports.

(5) Fiscal condition of Germany

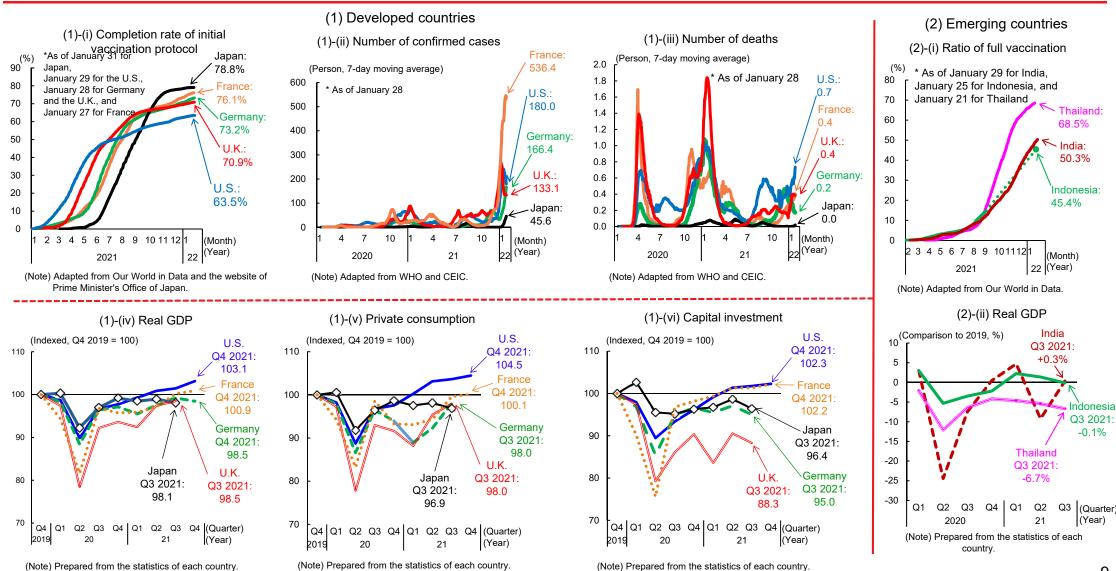


Viewing the economic trend, fiscal discipline (debt break) is scheduled to be restored from 2023.

(Note) Adapted from Eurostat

(Reference 1-1) Trends of the World Economy [Progress of Vaccination and Economic Recovery]

- Progress has been seen in vaccination since early 2021 in developed countries. Thereafter, although confirmed cases are on the rise, the number of deaths has been kept lower than before. Strict lockdown measures implemented from 2020 to spring in 2021 are now rarely seen, with the progress in vaccination driving the move towards the recovery of the world economy.
- > On the other hand, the progress of vaccination is slower in emerging countries compared to developed countries. When there was an infection spread in Southeast Asia in the summer of 2021, lockdowns were implemented in various countries, holding down economic activities.



(Reference 1-2) Trends of the World Economy [Monetary Policy / Fiscal Policy]

- In Western countries, there is a movement to <u>contract large-scale monetary easing measures</u> along with the stabilization of the financial market and economic recovery. Policy interest rate hikes can be found in other major countries as well, and <u>movements toward the monetary policy normalization is becoming pervasive throughout the world</u>.
- Also regarding fiscal policies, some of the large-scale and repeated support measures have finished against the background of economic recovery. Efforts for restoring fiscal soundness are implemented or considered in various countries, and it is expected that budget deficits will also decrease.

(1) Monetary policies in Western countries

[U.S.]

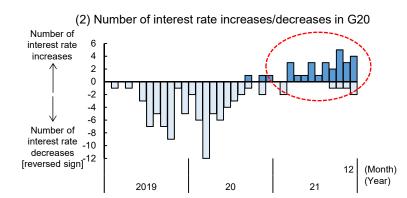
- Reduce the monthly pace of its net asset purchases by \$10 billion for U.S. Treasury securities and \$5 billion for MBS [from November to December 2021].
- Reduce the monthly pace of its net asset purchases by \$20 billion for U.S. Treasury securities and \$10 billion for MBS [From January 2022].
 - * The monthly pace of net asset purchased will be brought to an end in early March 2022.

[Eurozone]

The pace of asset purchase will be decreased for the pandemic emergency purchase programme (PEPP) [Q4 2021 and Q1 2022].

[U.K.]

Bank Rate will be increased from 0.10% to 0.25% [From December 2021].



(Note)

- Adapted from BIS. The number of changes in policy interest rates by 16 central banks in G20 countries and regions (excluding Argentina) is counted (counted once for repeated changes within a month).
- Policy interest rates are specific series where central banks are requested to report for the preparation of dataset by BIS.

(3) Economic measures since March 2020 in major countries (operation size)

	Operation size, ac	% of GDP	
Japan		54%	
U.S.	About \$6.5 trillion	(About ¥694 trillion)	31%
U.K.	About £0.7 trillion	(About ¥96 trillion)	32%
France	About €0.7 trillion	(About ¥80 trillion)	28%
Germany	About €1.3 trillion	(About ¥164 trillion)	40%

- (Note) 1. Tabulated by Cabinet Office based on materials released by each government (since March 2020).
 - 2. The operation size of economic measures in Japan includes the first to third supplementary budgets for FY2020 and does not include the economic measures in FY2021 (Operation size: ¥78.9 trillion, 14.7% of GDP). There are duplications in the sizes of measures for both fiscal years, so they cannot be simply summed up. Data for countries other than Japan are based on information as of December 22, 2021. As for the U.S., Build Back Better (\$1.75 trillion) passed by the House of Representatives on November 19, 2021, is not included because it has not been enacted as of December 22, 2021.
 - 3. Percentage of GDP is the comparison to the nominal GDP in 2020 (calendar year).

(4) Examples of measures terminated in 2021

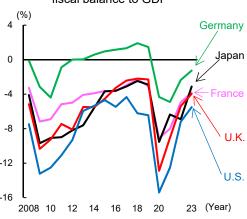
U.S. U.K.

- OEnhancing unemployment benefit (adding unemployment benefits, expanding the coverage to freelance workers, etc., extending the unemployment benefit period)
- : Terminated in September 2021
- OPaycheck Protection Program (loans for SMEs with repayment exemption for employment maintenance)
- : Application terminated in May 2021.

- OCoronavirus Job Retention Scheme (a system to compensate for the part of the wages for furloughed employees)
- : Terminated in September 2021
- OSupport for business operators to which business shutdown measures are applied (benefits depending on the assessed valuation of real property
- : Terminated in June 2021

for business)

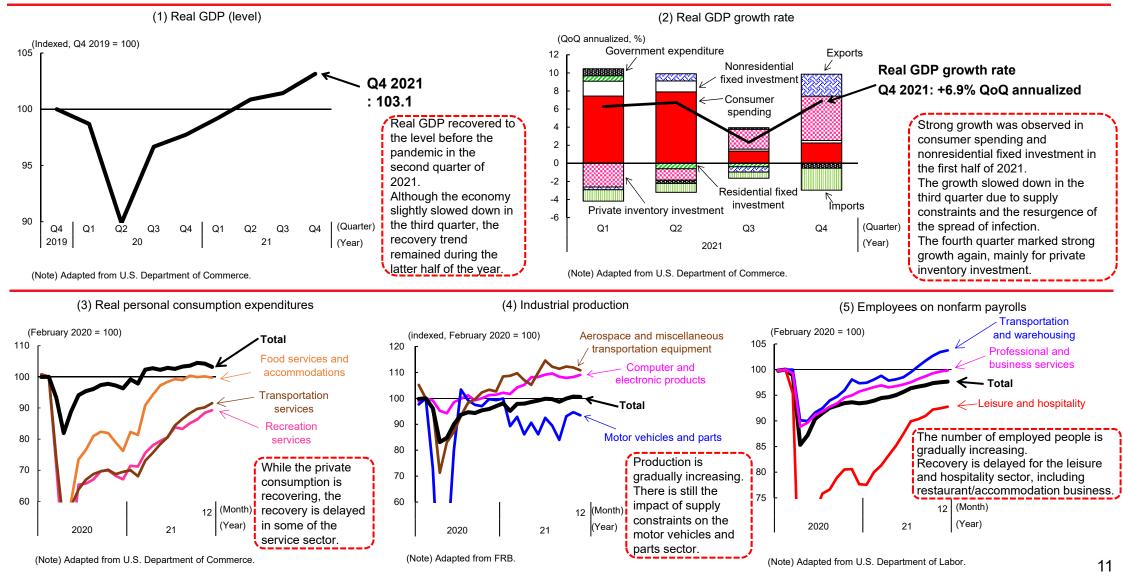
(5) Outlook of governmental fiscal balance to GDP



(Note) Adapted from Economic Outlook No.110 (December 2021) by OECD. Projected figures for 2021 and after.

(Reference 2-1) Economic Trends in Major Regions [U.S. Economy]

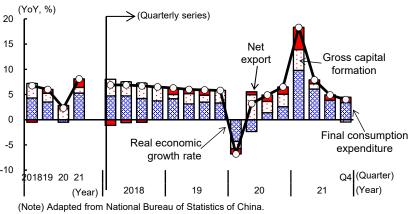
- In the U.S., real GDP for the second quarter of 2021 exceeded the level before the pandemic, and the economy has been continuing to recover thereafter as well.
- The impact of the pandemic still remains in some of the service sectors, including food services and accommodations, where there is a delay in the recovery of consumption and employment numbers. It is possible that progress in addressing such issues related to the pandemic holds the key to further recovery.

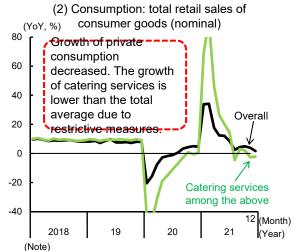


(Reference 2-2) Economic Trends in Major Regions [Chinese Economy]

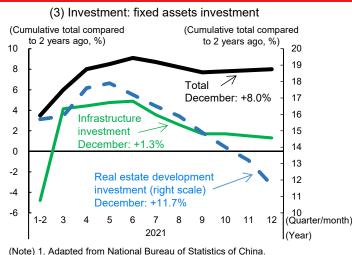
- In China, the pace of economic recovery has slowed down since the latter half of 2021. Consumption growth decreased with intermittent restrictive measures on economic activities. In addition, growth in real estate development investment decreased due to the reinforced measures to hold down the overheating of the real estate market.
- Government policies for the realization of a decarbonized society are bringing downward pressure on production. On the other hand, the policies may also work as a growth factor, for example, in the form of sales support measures for new energy vehicles promoting corporate innovation.

(1) Real GDP growth rate Real GDP growth decreased in the latter half of 2021 with a contract in positive contribution rate of consumption and negative contribution rate of capital formation. (Quarterly series) Net Gross capital export formation





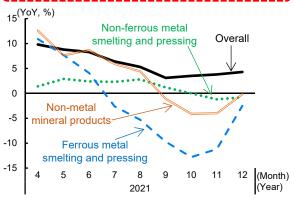
- 1. Adapted from National Bureau of Statistics of China. Accumulated figures are used for January-February.
- 2. The share of catering services in the total retail sales of consumer goods is 10.1% (2020).



2. Figures for the total and real estate development investment are calculated based on released figures, and those for infrastructure investments are calculated using the cumulative total YoY from the beginning of the year for 2020 and 2021

(5) Value Added of Industry

With governmental environment restrictions, growth in the production of high energy consumption/highly polluting industries became negative.



(Note) Adapted from National Bureau of Statistics of China

With governmental restrictions, growth in real estate development investment decreased (MoM, %) 2.0 (top right, chart (3)), and the growth of the real estate selling price became negative. 1.5 Tier-one cities Tier-two cities 1.0 0.5 0.0 -0.5 (Month)

(4) Real estate selling price

(Note) Adapted from National Bureau of Statistics of China.

(6) Number of new energy vehicles sales

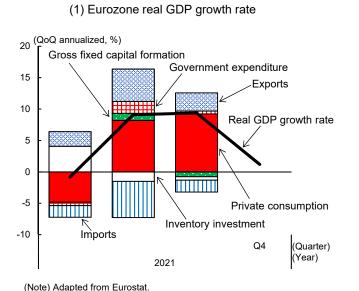
Number of new energy vehicles sales is keeping strong growth. backed by sales support measures by the government.

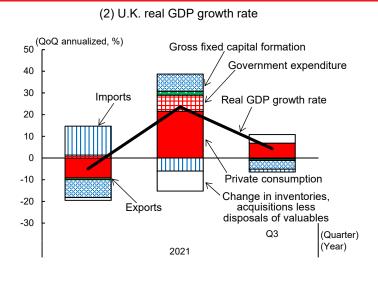


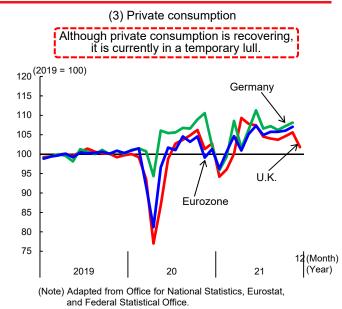
(Reference 2-3) Economic Trends in Major Regions [European Economy]

In Europe, the economy recovered, led by private consumption, along with the lifting of restrictions. However, supply constraints are prolonged due to the shortage in raw materials and parts facing the rapid recovery in global demand. Also, since the autumn of 2021, the pace of recovery in business confidence in the service sector is slowing down with the resurgence of the spread of infection.

(Note) Adapted from Office for National Statistics.









2. Over 50 shows improvement, under 50 shows deterioration.

(Note) 1. Adapted from Markit.

(5) Production Production peaked after recovery. (Indexed, Q4 2019 = 100) (Reference) Eurozone GDP Eurozone production 100 95 90 U.K. production Reference) U.K. GDP 85 80 75 (Quarter) 2019 21 (Year)

Price increase rate is increasing. (Compared to the same month of the previous year, %) 5.0 4.0 U.K. (total) 3.0 U.K. (core) 2.0 1.0 0.0 Eurozone (tótal) Eurozone (core) -1.0 12 (Month) (Year) 2019

(6) Price

(Note) Adapted from Eurostat, and Office for National Statistics

(Note) Adapted from Eurostat, and Office for National Statistics. 13