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Three groups of statistics for S&T work in climate change

Innovative development of IPR in China

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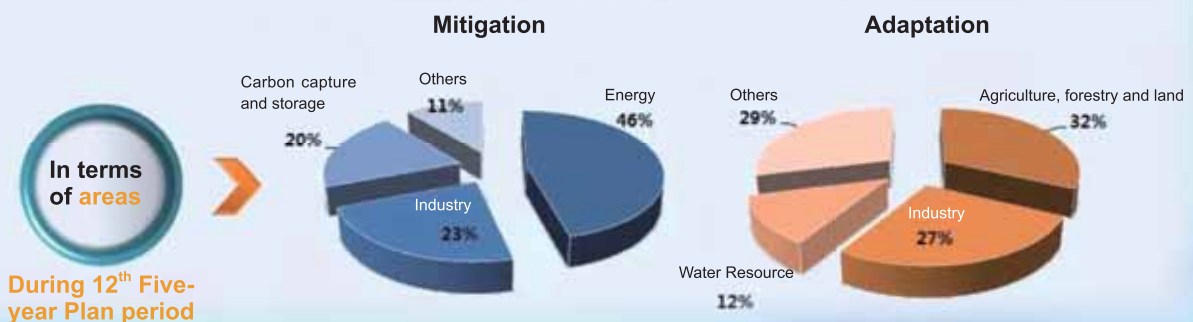
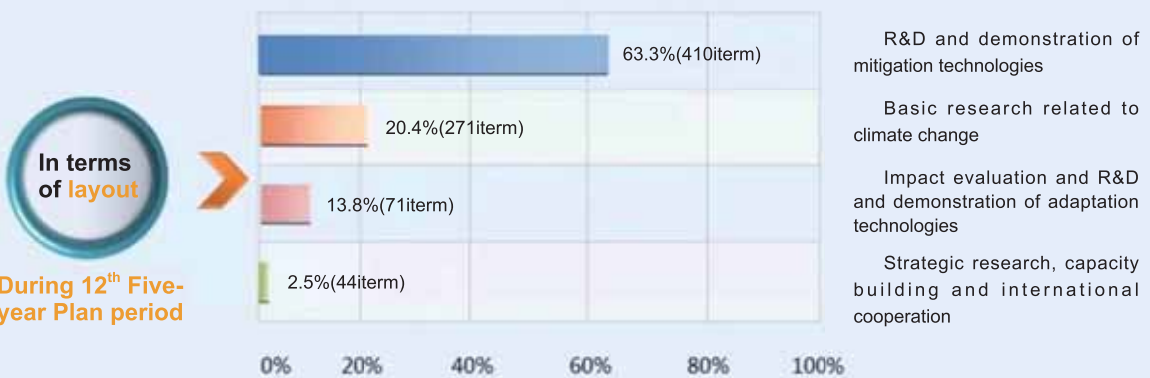
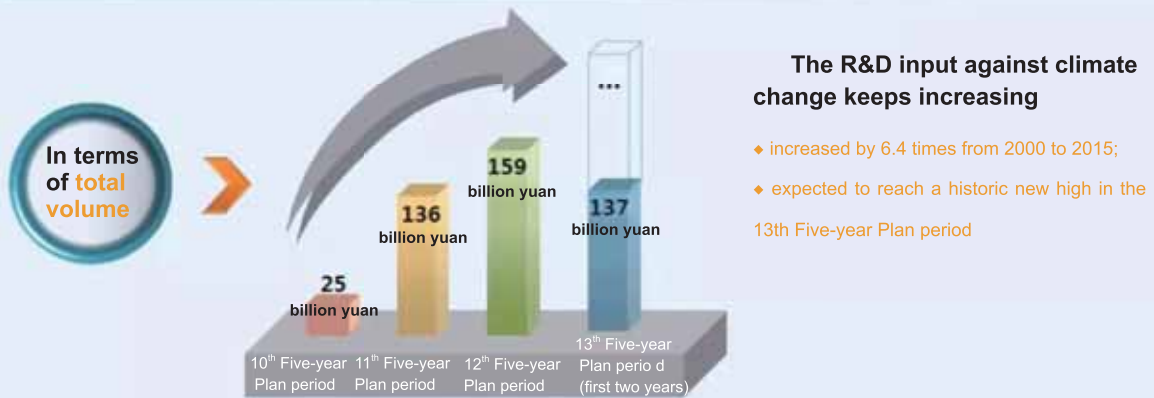
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Three groups of statistics for S&T work in climate change >>>

During the recent 7th Session of Climate Salon held by the Administrative Center for China's Agenda 21 (ACCA 21), the participants exchanged views on the three groups of statistics for S&T input and output in the fight against climate change. It can be initially indicated from the figures that we have witnessed sustained growth in the R&D input against climate change and breakthroughs in the outcomes and talent cultivation, which has provided strong underpinning for mitigation of and adaptation to climate change and international cooperation against climate change.

The R&D input against climate change is increasing, with reasonable layout and distribution of areas.



Three groups of statistics for S&T work in climate change >>>

Research papers on climate change is increasing rapidly, with expanded scope and enhanced international co-authorship.

Total issuance of papers

China ranked **No.3 in the world** for issuance of high-quality papers in the past 30 years, only next to the US and the UK.

Accounted for 1% from 1987 to 1996 and 4% from 1997 to 2006 and quickly rose to over 11% from 2007 to 2017. In 2014, we jumped to **the second place in the world**, only next to the US.

Yearly issuance of papers

Research direction

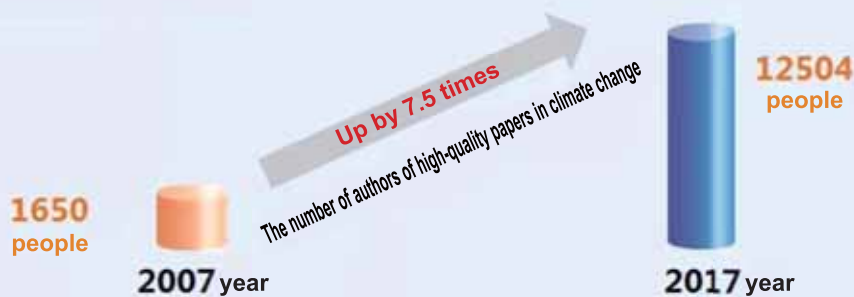
Chinese scholars have been involved in more and more research areas concerning climate change, namely from 8 in 1997 to 49 in 2007 to **87 in 2017**.

The international cooperation against climate change is being constantly enhanced. Our proportion of international co-authored papers has seen fast growth, from less than 7% in 1997 to **nearly 40% in 2017**.

Trend of joint research

The number of researchers devoted to the fight against climate change is skyrocketing, with markedly enhanced international impact and say.

- ◆ The number of researchers is increasing rapidly.



- ◆ The number of scientists involved in assessment of IPCC keeps increasing, which resulted in greater impact.



Chinese scientists served as **co-chair of the first working group** for three consecutive times from **the third to the fifth** assessment.

Innovative development of IPR in China >>>

In recent years, China upholds innovation-driven development and witnesses better performance in both quantity and quality of IPs. Strict IP rules have helped create a fair and sound business environment for enterprises home and abroad. IPR is serving as a bridge for international win-win cooperation.

Better performance in quantity and quality of IPs



China is **the third** country after the US and Japan to own **more than one million** effective domestic invention patents. By the end of 2017, China (excluding HK, Macau and Taiwan) has owned **1.356 million** invention patents.



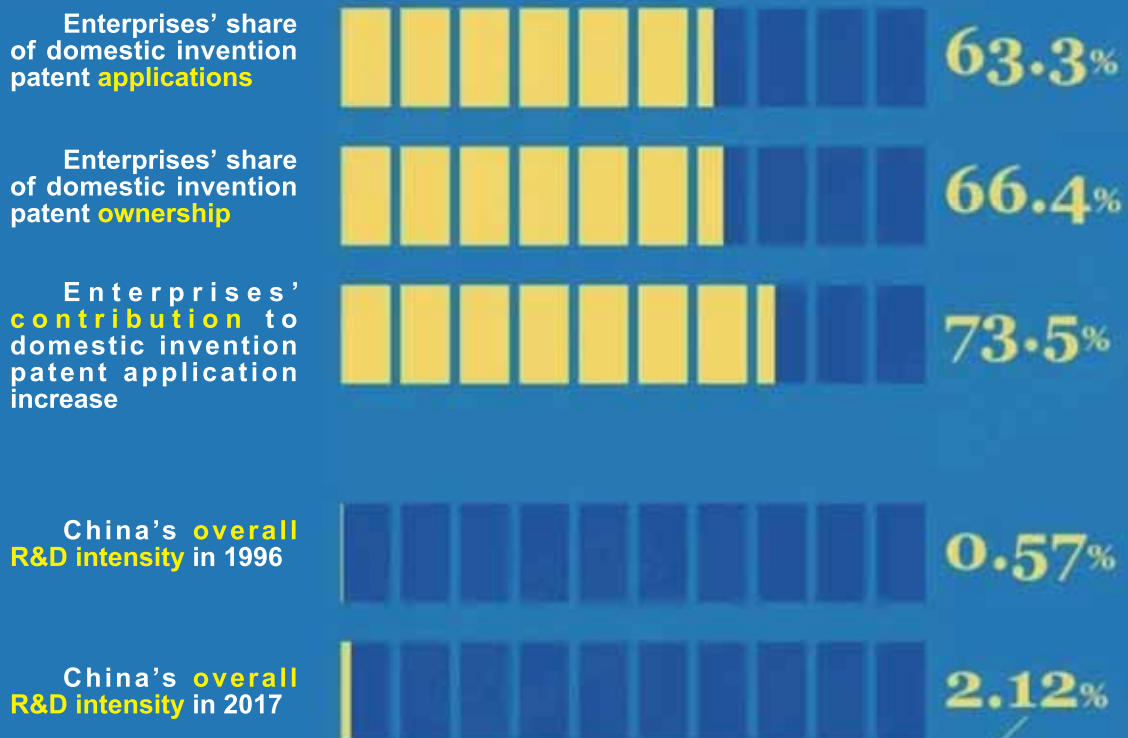
In 2017, China become the **second biggest** source of international patent applications under Patent Cooperation Treaty and joined the rank of **top 5** in US patent ownership and EPO application.



In recent years, China has developed a batch of core technologies with indigenous IPs in areas of **information communications, space and aeronautics, hi-speed rail and nuclear energy.**

Innovative development of IPR in China >>>

In 2017, the role of domestic enterprises as the major innovation players was further consolidated.



*Outperformed the average level of the UK and 28 EU countries
The intensive input and output in R&D guaranteed fast improvement of the technical competence of Chinese enterprises.*

Innovative development of IPR in China >>>

Protect IPR and stimulate innovation vitality

Since the 18th CPC National Congress, China has been strengthening IP protection with unprecedentedly efforts:

Score of **social satisfaction** with IP protection in 2012



63.69

Score of **social satisfaction** with IP protection in 2017



76.69

The sustained greater performance in IP protection has attracted innovation players from all countries to apply for Chinese patents:



In 2017, the US won

23679

Chinese patent authorizations, ranking **No.2** among all the countries.

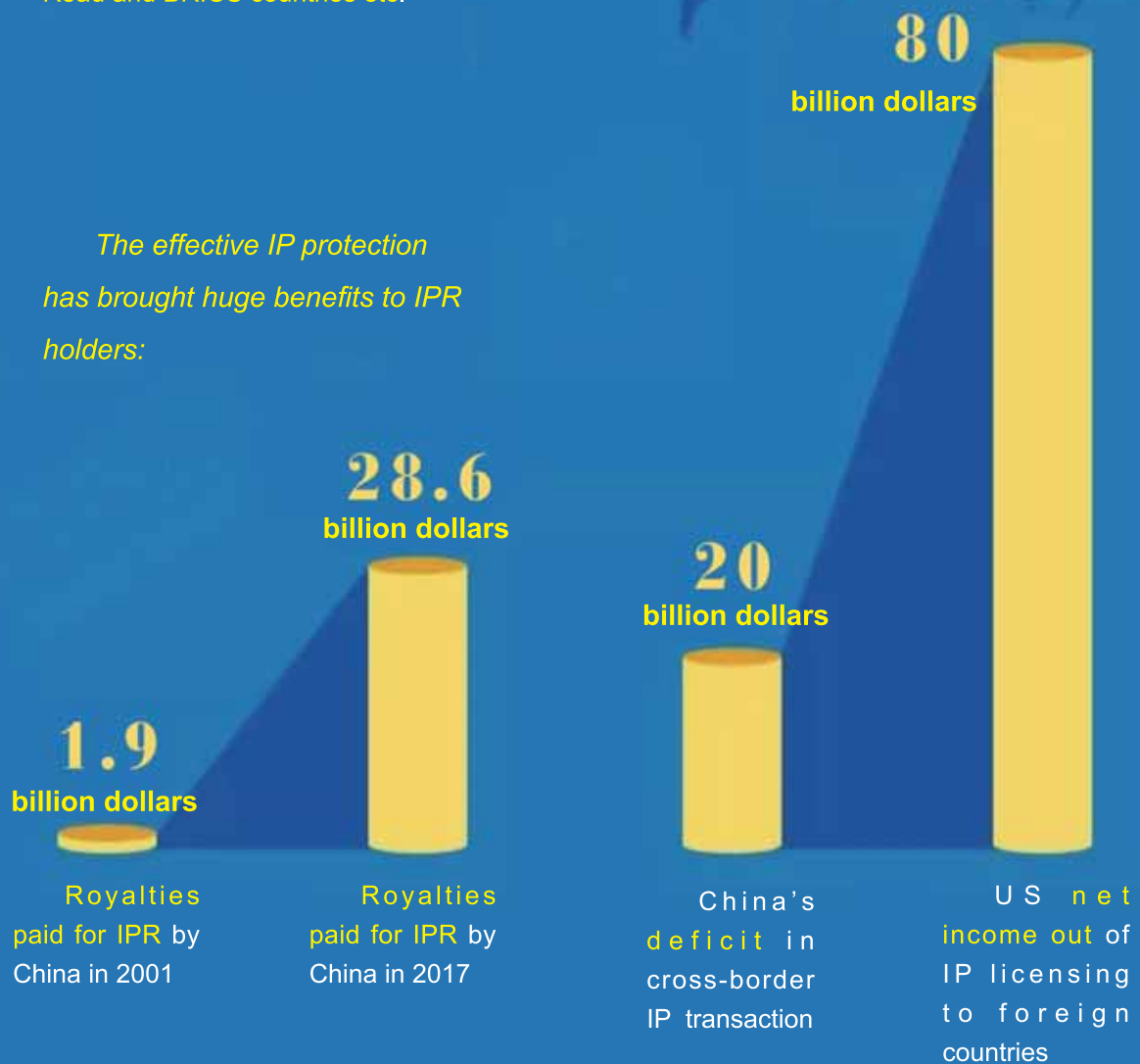
Innovative development of IPR in China >>>

IPR: bridge of innovation cooperation

China has been facilitating international IP protection:

In recent years, we have made tangible progress in cooperation with **WIPO**, countries along the Belt and Road and **BRICS** countries etc.

The effective IP protection has brought huge benefits to IPR holders:



(Source: Wechat official account of MOST.April16,2018)