







BRICS Science, Technology and Innovation Policy and Foresight Symposium







The Belt and Road STI Cooperation: current situation and prospective

HE Guangxi

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Outline



Background and Achievement Limits and Challenges Prospect of BRICS STI Cooperation











Background and Achievement









2023: the 10th anniversary of BRI



- 2013,the Belt and Road Initiative, BRI
 - the Silk Road Economic Belt
 - the 21st-Century Maritime Silk Road
- an initiative for cooperation and development
- more than 200 cooperation agreements with 152 countries and 32 international organizations
- the 3rd Belt and Road Forum for International Cooperation (BRF): 17-18 Oct., 2023, Beijing









The role of international cooperation on STI is becoming more and more important



- 2017: "the road of innovation", "the B&R STI action program"
- 2019: "high-quality development", "the digital silk road", "the innovative silk road"
- 2021: "new cooperations in health, environment, digital economy and innovation"









Progress in STI cooperation with the B&R countries



- more than 80 Science and Technology Agreements with the B&R countires
- "the B&R STI action program" was launched in 2017









4 pillars under the B&R STI action program



personnel exchange in STI

- working: more than 15,000 young scientists working in China temporily
- training: hundreds of exchange and training projects, more than 200 thousands people

joint research laboratories and projects

- more than 50 joint research laboratories
- more than 1000 joint research projects, more than 3 billion RMB fundings











cooperation of S&T parks

- "export" of S&T parks: build S&T parks abroard, sister-parks with foreign parks, off-shore incubators
- "import" of S&T parks: FDI parks inside Chinese S&T parks
- the B&R technology transfer network
 - 5 national technology transfer centers facing ASEAN, South Asia, Arabian countries, Central Asia, and Central and Eastern Europe
 - regional technology transfer centers











Limits and Challenges









Limits of current cooperataion



- the overall level of STI and cooperation of the B&R countries is low
 - little S&T cooperation with many B&R countries
 - insufficient cooperation in R&Ds
 - insufficient cooperation in advanced tech industries
 - rule-based and institutioanl cooperation in the building of open innovation ecosystem among B&R countries is insufficient (including the international governance in STI)
- multilateral cooperatin mechanism (and with S&T developed countries involved) is insufficient









New challenges and demands



external presssures is increasing

- fierce competition in STI among "great powers", the trend of de-globlization. e.g., conflicts and decoupling between U.S. and China
- more and more complicated geopolitics, e.g., Ukraine crisis, Israel Palestine conflict

demands for the B&R STI cooperation is increasing

- ecomonic recession, inequality, climate change, energy shortage, pulic health crisis
- increaising ethical and safe challenges of the development of new technologies
- higher level and quality cooperation is appealing











Prospect of BRICS STI Cooperation









President Xi Jinping's adrress in 2023



- great potential for the futre STI cooperation among BRICS
- more bilateral cooperation under the 4 pillars of the B&R STI action program
 - 100 joint labs; more personnel exchanges; S&T park; technology transfer network (facing Africa, Latin America)
- multilateral cooperation platforms
 - cooperation in "the third market", even with developed countries
 - global STI governance, e.g., AI governance, technology norms and standards
- focusing more on common goods and challenges
 - "small and beautiful" projects: poverty alleviation, climate change...







