



中國傳媒大學  
COMMUNICATION UNIVERSITY OF CHINA



Institute for a Community  
with Shared Future  
人類命運共同體研究院



## **Science, Technology, and Innovation Gap of Kyrgyzstan**



By Mr. Khalid Taimur Akram, Executive Director,  
Pakistan Research Center for a Community with  
Shared Future (PRCCSF), Islamabad

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## Introduction

Kyrgyzstan has a culture and history which is as old as the valleys that it is and declares it in its bustling life.

As the nation builds tall skyscrapers in urban areas and becomes a lot more modern since its nomad days, it stands at a point where the



Science, Technology and Innovation (STI) sphere is at the forefront. The speed of global progress definitely is uncommon, encouraging adaptation and refinement in STI in order to surf through the challenges of the twenty first century. Kyrgyz people, who are known for their problem-solving abilities and have traditionally been making great progress in processing science, artisanal work, and engineering since old time, have the natural potential to be mindful of scientific and technical problems. With the whole world harmonized toward digital era, closing the digital gap is no longer a prerequisite for sustainable development and global integration. This article considers the intricate advantages of STI processes in Kyrgyzstan, placing special emphasis on the vital governmental bodies, educational organizations, and those successful entrepreneurs which craft the future development of the country. Knowing where Kyrgyzstan stands in



its STI journey, follow the path for the smart actions, partnerships, and investments that open up new roads for the growth into a successful innovative center in the Central Asia.

In 2016, Kyrgyzstan alongside other member countries of the Eurasian Financial Union (EEU) endorsed the Advanced Plan of the EEU for the period up to 2025. The record proposed that the financial benefits of the computerized change of the nations would increase the Net Household Item (GDP) of EEU nations by 10.6% and increment business in ICT businesses by 66.4%, which is identical to one million modern employments in this division overall EEU nations. In turn, the development in the ICT industry business ought to secure extra development of adding up to work for up to 2.46% by 2025. In 2018, Kyrgyz President Sooronbay Jeenbekov marked the long-term National Advancement Vision 2040 (NSUR-2040) which is centered on upgrading human capital and development to suit the advancing and advanced financial environment. The key component of this vision is the countrywide roll-out of a computerized change program entitled "Taza Koom" (Straightforward Society). It is assessed that this digitization would quicken the change to an advanced economy as a key driver in progressing both the national pay and the business circumstance. The vision looks to attempt this transformational handle in key financial segments such as vitality, farming, industry, and administration. Digitalization and the broad utilization of imaginative advances are imagined to be a jolt to move forward the country's competitiveness as well as the prosperity and financial security of the populace as an entire. NSUR-2040 envisions that in twenty a long time, with the usage of the

advancements and ventures into creating an advanced economy, expanded movement in connected investigate and advancement utilizing troublesome advances would fuel the creation of unused information seriously employments and offer assistance Kyrgyzstanis work universally without physically clearing out the nation.



In this respect, the vision's long-term objectives have been centered on handling industry, agribusiness, light industry as well as the traveler industry as the key target segments. By the conclusion of 2018, The Kyrgyz Government declared the dispatch of a five-year-long program entitled "Sanarip Kyrgyzstan" (Computerized Kyrgyzstan) that points to the construct of an open and straightforward State, with a knowledge-based economy the same time raising the quality of life for normal Kyrgyz citizens and moving forward the generally commerce environment. This program aimed to upgrade and increase the long-term vision for the nation by characterizing the structures, administration, and establishments of the country's digitalization. In common terms, ICT and Data Innovation (IT) were highlighted as key segments for national inventive advancement. The Government's cabinet settled upon an implies to characterize development in rankings utilizing a few universal improvement records as a strategy to screen, degree, and analyze the advances being made. Specifically, the advanced change of industry esteem chains



was given specific consideration concerning the selection of the web of things, particularly within the mining industry, which is one of the biggest divisions of the economy. The quick objective for this advanced change is to permit information collection and examination in real-time as an implication to extend efficiency. The digitalization of the vitality segment is seen as an implication to clear the way towards "smart energy", and increment vitality proficiency and conveyance whereas moreover diminishing vitality misfortune.

Kyrgyzstan is situating itself as a key goal within the Modern Silk Street and this requires great need be given to the utilization of block chain-enabled savvy contracts as an implies of securing the computerized traceability of universal cargo. Within the rural and agro-processing segments, where most of the workforce is right now utilized, the presentation of the web of things in concert with robotized gathering apparatus and rambles ought to give decision-makers gigantic sums of information to screen, analyze, demonstrate, and figure end of the to be able to form superior key choices. Within the country's different light businesses, innovative needs ought to be centered on 3D modeling, advanced prototyping, additive manufacturing (counting 3D printing), computer-aided planning (CAD), and fabricating execution frameworks. Kyrgyzstan highlights the part of creating electronic commerce, expanding the nearness of rural, attire and visitor firms in computerized stages to extend send out of products and administrations. In January 2019, Kyrgyz President Mr. Sooronbay Jeenbekov affirmed the Computerized CASA program, a US\$50 million credit plot that points to extending affordable digital foundation, moving





forward the government's capacity to convey administrations carefully as well as build up the establishments for the development of an advanced economy coming to the measurements demonstrated within the "Sanarip Kyrgyzstan" technique. The National Procedure on Sustainable Mechanical Advancement of the Kyrgyz Republic 2019- 2023 is the key record sketching out the mechanical approach and its needs for the expressed period.

The key objective of this methodology is to reach the specified maintainable pace of mechanical development by setting the important financial divisions on an inventive advancement way coupled with expanded production efficiency and item competitiveness. One of the key endeavors to accomplish this is the expansion of the technology-intensive send-out division. Another state archive, the Program of the Government on the Send out Advancement of the Kyrgyz Republic for the period 2019- 2022, distinguished the taking after segments of the economy as priority targets to set up superior toeholds for their creation in foreign markets: materials, dairy, vegetable, and natural product handling, the green economy as well as innovative machinery. Territorial improvement is additionally among the best government priorities expressed through the Concept of Territorial Legislative issues of the Kyrgyz Republic from 2018 to 2022. This archive emphasizes the part of creating territorial financial clusters and building up systems of interconnected companies and institutions in certain geographic areas.

The state arrangement on science and development is characterized by the government record entitled the "Concept of Logical and Inventive Improvement of the Kyrgyz

Republic 2017-2022", the vision displayed here is of a national advancement framework that characterizes its standards, establishments and need headings for the nation's improvement. The archive gives a few details concerning the creation and integration of knowledge-based advances within the vitality, mining, material, and handling businesses as implies for the creation of an inventive economy.

On 19 Nov 2019, the Kyrgyz Government and its advancement accomplices, comprising of different universal givers, worldwide and national organizations, gracious society on-screen characters as well as the commerce community, all of which are helping the nation with its changes, met in Bishkek for the High-Level Advancement



Gathering with the subject "Accelerating Changes for Maintainable Development". This gathering was held in arrange to discuss the current challenges and distinguish both current and future activities that can be attempted for the economic improvement of the Kyrgyz Republic. One of the targets of the gathering was to survey the advances made mutually since the May 2013 High-Level Advancement Conference, to agree on a set of need bearings for a joint activity for another four long time until 2022, and to concur on a system for future joint engagement that will guarantee feasible, broad-based and



comprehensive advancement. All through the forum's dialogs, members recognized the overarching part of digitalization in all viewpoints of socio-economic life and affirmed that development and inventive businesses can play a key part as the motors of financial improvement within the Kyrgyz Republic.

The government has made the National Fund of Science beneath the Service of Instruction and Science STI administration structures. Another counseling board under the support of the president, a master committee on advanced change was gathered to supply proposals on issues related to the economy's advanced change, innovation appropriation, and making favorable conditions for the improvement of a computerized economy as well as other important issues. Within the authoritative department, the Committee on Social Issues, Education, Science, Culture and Healthcare beneath the Jogorku Kenesh (the supreme council) audits all administrative activities related to the improvement of science and development within the nation. Within the official department, enactment has built up the Board on Science, Advancement and Innovations, chaired by the prime serve, as a counseling board that plans suggestions for the cabinet. Key duties of this committee are the planning of proposals on priority bearings and instruments utilized within the advancement of science within the Kyrgyz Republic as well as of measures for the execution of state approach in science-related things. The board incorporates the prime serve, vice-prime serve, agents drawn from the scholarly world, the neighborhood science and trade communities as well as outside researchers and specialists. In arrange to perform its allotted obligations, the committee makes inter-agency working bunches





comprising of its possess individuals, agents of state bodies, neighborhood specialists, and other organizations. The vice-prime serve of Social Square (covering social issues) facilitates the exercises of the different offices subordinate to the Government concerning the execution of state methodologies and programs as well as intergovernmental commissions in regions related to instruction, science, and advancement. The vice-prime minister in this capacity gifts authorization for activities to be embraced by these organizations and makes recommendations on candidates for key positions in supervised zones. He moreover has the correct to form working bunches to expound issues on science and advancement and acts as a facilitator for the Service of Instruction and Science, Kyrgyz patent, and a few other organizations. The Division of Instruction, Culture, and Sports beneath the course of the office of the prime service oversees the coordination, observation, and action investigation on issues related to instruction, science, culture, mental property, and development improvement. Kyrgyz patent is the authorized state body mindful of executing a uniform approach for the security of mental property and advancement improvement. In arrange to fulfill its obligations, Kyrgyz patent has set up the State Support of Mental Property (SFIP), a subordinate an organization that gives monetary help for the creation of technoparks beneath the the direction of colleges, the opening of Innovation and Advancement Back Centers in territorial libraries and, at long last, conducting national startup competitions and speeding up programs. The Service of Education and Sciences is in charge of making the conditions and components favorable for the advancement of logical movement, the



Office of Sciences administers these exercises whereas the service oversees the National Academy of Sciences and Fund of Sciences.

In December 2019, SCITC opened its modern office space of High-Tech Stop within the premises of the National Institute of Sciences. In September 2018, The Service of the Economy proposed charge credits for inquiries about improvement exercises by starting corrections to the charge code. In specific, revisions to Article 197 permitted the derivation from assessable pay of any consumptions for R&D, the usage of logical and specialized accomplishments as well as any costs caused for program improvement and its integration". The corrections were affirmed by the Kyrgyz President on 14 June 2019. In expansion to this, the Service of the Economy is working on explaining a concept for developing inventive businesses within the Kyrgyz Republic which will end up an extra jolt for the improvement of developments in inventive businesses.