

Xi'an Military and Civilian Integration of Science and Technology Innovation Endogenous Driving Force Promotion Mechanism

Fuqiang Tian

¹Research Center for Political Participation and Discussion of Shaanxi Jiu san Society, Xi'an University, Xi'an, China

²Research Institute of Xi Xian New Area, Xi Xian New Area, Xi'an, China
tianfuqiang2004@126.com

Keywords: New era; Xi'an; Civil-military integration; Enterprise; Scientific and Technological Innovation; The Endogenous Power

Abstract: A new era in xi 'an civil-military integration enterprise technology innovation mechanism of endogenous power include: one is the construction of military and civilian integration promotion mechanism with the development of science and technology, the second is to build military and civilian integration of intellectual property rights incentive mechanism, the third is to build the democratic parties participate in military and civilian integration support mechanism, four is to build xi 'an become ShiFan civil-military integration.

The integration of military and civilian efforts to coordinate economic development and national defense bears on national security and overall development, and is a national strategy to realize the Chinese dream and the dream of a strong military. The distinction between military and civilian technologies has become increasingly blurred. Military innovation has been incorporated into the national innovation system, and military-civilian technological innovation has become a new growth point for scientific and technological development. The development of civil-military integration has enhanced the competitiveness of Xi 'an industrial cluster. Civil-military integration there is interaction between innovation and intellectual property right system innovation, support the implementation of civil-military integration strategy of intellectual property system innovation, is advantageous to the civil-military integration of intellectual property rights policy, build collaborative innovation power system with the army and the military and civilian integration of intellectual property rights coordination management structure, strengthen the construction of national defense science and technology achievements transformation system, good coordination and balance of different interests, build interest coordination mechanism, is advantageous to the effective utilization of xi 'an civil-military integration of science and technology resources. Civil-military integration innovation and development in shaanxi province medium level^[1], to give full play to the depth of civil-military integration in promoting the role of new kinetic energy cultivation, to support an international frontier basic research projects and products for the market development of the army and the people "r&d project^[2], from the aspects such as deepening the reform of systems and mechanisms to promote civil-military integration^[3], promote civil-military integration of science and technology innovation resources use efficiency^[4], from the knowledge production, knowledge transformation, knowledge dissemination and so on realization of civil-military integration depth development^[5].

1. Establish a Mechanism to Promote the Integrated Development of Military and Civilian Enterprises

1.1. Effectively Shorten the Processing Time of Military Qualification

Aiming at the problems of long processing time and high cost of "three certificates" for military industry qualification of private enterprises, a system breakthrough was made to establish a unified

acceptance mechanism for military industry qualification and a time-limited handling supervision mechanism. If the requirements are met, the matter shall be handled on time within a certain period of time. If the requirements are not met, the directions for improvement and efforts shall be listed to encourage private enterprises to apply for military industry qualifications in a timely manner. For those that meet the conditions and cannot be dealt with in time, the relevant departments shall give supervision and responsibility.

Construction of xi 'an civil science and technology intellectual property research and development subject of the "three certificate" cost upper limit system. Reduce the transaction cost of civilian joining the army, reduce the time spent in applying for the "three certificates", and uniformly apply for the "three certificates" at a low price. It is suggested that Xi 'an Military Industry Qualification Acceptance Office organize the r&d subjects of civil INTELLECTUAL property that research and develop and produce similar military products, sign a contract, and establish the R&D subjects Alliance of Xi 'an Civilian Army, jointly handle the "three certificates", and strengthen the supervision and management of the R&D subjects Alliance of Xi 'an Civilian Army.

1.2. Reduce the r&d Burden of Military Products

In the necessary processes of new product development, process trial production, process finalization and production finalization when enterprises enter the military industry, relevant funds are set up to increase the support of r&d funds at the policy level to help enterprises pass the early stage of r&d and enter the stage.

1.3. To Alleviate the Financial Difficulties of Civilian Army Enterprises

Effectively shorten the payment collection period of military contracts. Improve the military contract payment collection mechanism, shorten the longer payment collection period due to production cycle, model guarantee and other reasons, reduce the proportion of receivables and occupied working capital of the company, and ensure the normal production and operation of the enterprise.

Increase financial support for private enterprises.

First, we will increase funding for scientific research in private military production enterprises. In terms of funding for scientific research, it is the same as state-owned pure military enterprises. In order to reward outstanding private military enterprises for supporting national defense, a pilot project was conducted to subsidize scientific research funds for private military production enterprises in some urban areas. In the pilot stage, we will take the lead in providing scientific research funding support to private pure military production enterprises that have obtained the registration certificate of class A or Class A equipment undertaking approved by the military. Since then, with the increase in the amount of funding, it has gradually expanded to private pure military production enterprises and private military production enterprises with other qualifications.

Second, we will formulate preferential policies on mortgage loans for outstanding private pure military production enterprises, increase preferential policies on bank loans for private military production enterprises, and expand the loan quota under the condition that the collateral remains unchanged to solve the problem of insufficient funds.

Third, further optimize the top-level design of financing preferences for military-civilian integration, increase the financing preferences of private pure military production enterprises, and ensure the implementation of good top-level design. It is suggested to expand the scale of military and civilian integration industry fund in Xi'an and increase the share of enterprises supporting civilian military service. Change the current situation that civilian joins the army enterprise money is tight. Establish a military and civilian integration bank to ease the financial strain of military and civilian integration. Mianyang Commercial Bank military and civilian integration technology Sub-branch is the first innovation experiment of military and civilian integration technology sub-branch in China. Xi 'an can learn from the experience and set up military and civilian integration technology sub-branch in qualified banks to change the situation that enterprises cannot obtain fixed asset loans but only current asset loans.

Fourth, in key projects of civil-military integration, 10% financial subsidies and preferential loans for projects with an investment of more than 100 million yuan will be given; Those who invest more than 50 million yuan will be given 5% of the government subsidies and preferential loans for projects. We will give certain project research fees and adjusted insurance premiums to civilian-populated supporting enterprises, arouse their enthusiasm in military research and production, and make the industrial preferential policies of civil-military integration come into effect.

Fifth, local governments should match the state funds for civil-military integration projects in proportion and allocate funds in full and on time. We will give preferential loans to military-related private enterprises involved in manufacturing in China 2025, and charge the same interest rate as other enterprises as far as possible. The innovative projects of military and civilian integration should reflect the special incentive policies, give special fund support, reduce or exempt the land use tax in accordance with regulations, give loan interest subsidy support or provide financing support through the National Development Bank.

2. Establish a Mechanism to Promote the Integrated Development of Military-Civilian Enterprises

2.1 Promote the Reform of Mixed Ownership

Under the condition of maintaining and increasing the value of state-owned assets, encouraging the enthusiasm of military production enterprises and carrying out the reform of mixed ownership are the only way and major innovations for the integration of military and civilian sectors. We will boldly and steadily advance the reform of mixed ownership without losing state-owned assets, give full play to the technological advantages of state-owned military production enterprises and the market operation and capital advantages of private enterprises, make full use of their strengths and avoid their weaknesses, and achieve win-win results in technological and institutional innovation. On the premise of ensuring that assets are not lost, we should appropriately release the mechanism for managing state-owned assets.

2.2 Straighten out the System for Converting Troops to Civilians

First, the government and the market to coordinate the way to properly solve the problem of inconsistent product standards.

Second, the government takes the initiative to help civilian-military enterprises to solve the problem of civil market certification.

Third, when the military to civilian, according to the nature of the products involved in the confidentiality, re-determine the level of confidentiality.

Fourth, straighten out the price system. The price must be set by the military after the conversion and a negative list should be made. Those not on the negative list shall be determined independently by the enterprise; Gradually reduce the negative list.

Fifth, we should solve the institutional obstacles of converting enterprises from military to civilian use when their intellectual property rights and technologies are listed in the military procurement catalog but not in the catalog.

2.3 Formulate Policies on Talent Cultivation and Mobility

Military enterprises to give preferential treatment to the key positions of talent, reduce the rate of talent turnover.

3. Build an Incentive Mechanism for the Transformation of Civil-Military Intellectual Property Rights

3.1 Do a Good Job in Transforming Military-Civilian Integrated Intellectual Property Rights

Expand and strengthen China's military-civilian integrated IPR operation platform; Mechanisms have been established for the horizontal circulation and transformation of national defense patents, the organic connection between the decryption of national defense patents and the follow-up and protection of common patents, and the participation of common patents in the research, development and production of military products, so as to promote the transfer of intellectual property rights from military to military, from military to civilian, and from civilian to military service. Relying on xi 'an National Independent Innovation Demonstration Zone, we will strive to build a national military-civilian science and technology collaborative innovation platform in Xi 'an.

3.2 Promote the Transformation of Civil-Military Integration of Intellectual Property Rights

Build based on patent navigation xian civil-military integration implementation of intellectual property rights and the rights and interests of the hook, are applicable to the intellectual property rights enforcement mechanism innovation as the driving force, building technology and intellectual property market with the combination of military and civilian integration industry navigation model, created by the coupling of the implementation of intellectual property rights and entitlements and depth integration development incentive and competitive mechanism.

Advice to establish military (civil) reward fund for research and development of intellectual property rights, military (civil) research and development of intellectual property rights main body to encourage the best earnings period implementation achievements transformation, set up to encourage conversion (the army) transformation mechanism of competition, the ownership, income distribution and transformation are tied to the timing, timing of revenue sharing and intellectual property rights transformation, fusion depth cooperation mechanism to establish military and civilian intellectual property rights.

4. Other Mechanisms to Promote the Integrated Development of Xi 'An City's Military and Civilian Sectors

4.1 Build a Support Mechanism for Democratic Parties to Participate in Civil-Military Integration

Proposal to build the democratic parties participate in military and civilian integration organization and its members are encouraged to develop the support mechanism, in the development of science and technology in the field of civil-military integration in the process of investigation and research, access to greater efforts to support, especially in such aspects as production project, documents circulated, giving full play to the advantages of its organizational capabilities and knowledge, and come up with new ideas for military and civilian depth fusion, to promote the implementation of the strategy of civil-military integration and development, contribute to xi 'an military and civilian integration.

4.2 Xi 'an Shall Be Built Into a Demonstration City of Civil-Military Integration

With Xi 'an as the leader and Baoji and Hanzhong as the two wings, xi 'an will explore the transformation path of military-civilian integration of science and technology and military-civilian intellectual property rights, further promote the in-depth military-civilian integration of talents, capital, finance and transportation, and build Xi 'an into a demonstration city of in-depth military-civilian integration of science and technology in China.

To strengthen the implementation of the military-civilian integration policy, solve the problem of lack of operability, it is suggested to introduce supporting measures and implementation rules, and refine the support policies for military-civilian integration.

It is suggested that the military procurement system, procedures and qualification requirements be further relaxed. Establish a long-term mechanism of financial support and compensation for civil enterprises to join the army, put forward specific implementation measures of relevant documents, as well as the docking measures of industrial policies, policies and regulations matching, to prevent

the government from going out of one door and conflicting with each other. We will optimize the policy of transferring the social functions of military enterprises to local governments to solve the problem that local governments cannot afford.

Establishment of xi 'an In-depth military-civilian integration support mechanism for scientific and Technological intellectual property rights.

To realize the incubator combination of mother-child R&D institutions, it is necessary to invest huge sums of money in infrastructure construction, capital credit, land, taxation, service and other fields, and provide conditions for military intellectual property r&d subjects to incubate civil intellectual property r&d institutions. It is suggested that military intellectual property research and development entities be supported to establish civil intellectual property research and development sub-institutions by means of sole proprietorship, joint venture and shareholding. If it is difficult for the military intellectual property research and development subject to establish the civil intellectual property research and development subject sub-institution, the xi 'an Military intellectual property mother-child research and development institution incubation base shall be established. The incubation base shall provide a platform and a complete set of services, and contact funds and cooperative institutions.

Construction of Xi 'an Science and Technology In-depth military-civilian integration industrial park and characteristic town groups.

Give full play to the agglomeration effect of the park, and establish a domestically leading and world-class Xi 'an Science and Technology In-depth military-civilian industrial park. Civil intellectual property research and development sub-institutions incubated by military intellectual property research and development subjects are concentrated in science and technology integration industrial parks. Land acquisition, "three connections and one leveling" and infrastructure construction are all funded by the government, and tax exemption within a certain period forms a one-stop service. For the military intellectual property research and development subjects who have built civil intellectual property research and development sub-institutions outside the Xi 'an Science and Technology Deep military-civilian integration Industrial Park, the land acquisition scale will be expanded based on the preferential policies for the construction of national characteristic towns, and several towns with scientific and technological characteristics will be built to enjoy the preferential policies for the Xi 'an Science and Technology Deep military-civilian integration Industrial Park. It is suggested that Xi 'an be built into a city of deep integration between military and civilian sectors of science and technology.

We will increase institutional innovation support for state-owned military production enterprises.

There is no legal basis or policy support for the in-depth integration of military and civilian activities conducted by some state-owned research institutes, which are under great pressure. Therefore, it is suggested to establish a tolerance innovation mechanism that allows trial and error within the scope of the law, to encourage and support exploration with outstanding results, which is conducive to the in-depth integration of military and civilian development, and to avoid the disadvantages of shrinking innovation atmosphere caused by excessive criticism.

Promote the military-civilian integration model of "small core + big collaboration".

Some state-owned research institutes that produce military products have the leading technological level in China and are in high-end monopoly industries. In the process of civil-military integration, due to heavy production tasks, their production capacity is relatively insufficient. In order to solve the production and marketing tension in short supply, it is suggested to promote the model of "small core + big cooperation" under the condition of core security forces. With scientific research institutes the advantage of the hardware and personnel in state-owned enterprises, using advanced technology for core parts and components production, will be relative to the outer parts outsourced production technology is strong, flexible operation system, stable relations of cooperation of private enterprises, in the form of division of labor cooperation realize

the depth of the military and civilian industry chain integration, way out of the military and civilian integration mode innovation. The government should provide policy and financial support to the companies that form a stable urban coordination supporting network, effectively drive the development of industrial chain, and promote the economic transformation and upgrading of Xi 'an.

Acknowledgements

2020 Xi 'an College of Arts and Sciences, Xi 'an Academy of Social Sciences strategic Cooperation major social science research project "Research on the Endogenous Driving Force of Scientific and Technological Innovation in Xi 'an Enterprises in the New Era" (2020ZDZT03), host: Tian Fuqiang. Xi 'an University of Arts and Sciences 2020 Xi 'an Clean Government Research Project "Research on Restriction and Supervision Mechanism of Academic Power Operation in Colleges and Universities" Research Results (LZ2004) (Host: Tian Fuqiang)

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