THE ROLE OF INTEGRATION OF PRODUCTION AND EDUCATION IN THE TRAINING OF QUALIFIED SPECIALISTS

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ABSTRACT : This article examines the critical role of integrating science, production, and education in Uzbekistan in order to train highly qualified specialists capable of meeting the demands of a modern, competitive economy. Moving beyond traditional approaches to workforce development, the analysis explores how the convergence of industrial practice and academic instruction addresses existing gaps in specialist training, supports innovation-driven economic growth, and strengthens national competitiveness. The study draws attention to the structural weaknesses of the current education–production nexus, identifies best practices from international experience, and proposes practical measures to deepen cooperation between higher education institutions and enterprises. Particular emphasis is placed on the cotton cluster as a model of sectoral integration, the necessity of curriculum reform oriented toward practical competencies, and the role of social partnership in ensuring that graduates meet international professional standards.

Keywords: Integration, Qualification, Production, Personnel, Competitiveness, Education, Higher Education, Curriculum Reform, Uzbekistan, Workforce Development, Social Partnership

1. INTRODUCTION

The term "integration" first gained prominence in international relations scholarship when the countries of Western Europe began establishing interstate institutions and forming economic unions aimed at coordinating economic policy and ensuring free trade (Kizima & Babkin, 1998). While scholars of European integration have not converged on a single unified theoretical approach, there is broad consensus that integration is a fundamentally positive phenomenon—"a process aimed at providing a number of advantages for all participating parties" (Kizima & Babkin, 1998, p. 106). The foundational insight that national economies acting in isolation cannot achieve the scale, efficiency, or innovation necessary for high living standards has since been extended well beyond the European context to encompass sectoral, regional, and industry–education integration at the national level (OECD, 2023).

Jean Monnet, one of the principal architects of European integration, argued that states prioritizing national sovereignty above inter-state cooperation would remain trapped in cycles of economic protectionism and geopolitical rivalry (Kohl, 1989). While this observation was made in a specifically geopolitical context, the underlying logic—that synergistic cooperation generates outcomes unattainable through isolated action—has profound relevance for the integration of educational institutions and productive enterprises within national economies (Etzkowitz & Leydesdorff, 2000). The triple helix model of university–industry–government relations, for example, demonstrates how coordinated interaction among these three actors drives innovation and economic development (Etzkowitz & Leydesdorff, 2000).

In the context of Uzbekistan's ongoing economic modernization, the integration of production and education represents both a strategic imperative and a practical challenge. The republic's transition toward a market economy has generated urgent demand for specialists who combine strong theoretical foundations with practical competencies that meet the evolving needs of industry (Rakhimov, 2021). Yet significant gaps remain between the output of the higher education system and the skill requirements of enterprises across key sectors, including manufacturing, agriculture, information technology, and services (World Bank, 2020).

This paper investigates the role of education–production integration in addressing these gaps and in equipping Uzbekistan with the human capital required for sustained, innovation-driven growth. The study is structured as follows: Section 2 reviews the relevant theoretical and empirical literature; Section 3 describes the research methodology; Section 4 presents the data analysis; Section 5 discusses the results and their implications; and Section 6 draws conclusions and policy recommendations.

2. LITERATURE REVIEW

The integration of education and production as a mechanism for human capital development has attracted considerable scholarly attention across economics, management, and education policy disciplines. Foundational contributions by Becker (1964) to human capital theory established that investments in education and training generate returns both for individuals and for the broader economy. Subsequent work by Mincer (1974) extended this framework to account for on-the-job training and work experience as complements to formal schooling (Becker, 1964; Mincer, 1974).

The triple helix model proposed by Etzkowitz and Leydesdorff (2000) provides a particularly influential framework for understanding the dynamics of university–industry–government relationships. In this model, sustainable innovation ecosystems emerge from the overlapping institutional spheres of academia, industry, and the state, with each actor taking on roles traditionally associated with the others. Universities become entrepreneurial, industries engage in knowledge production, and governments facilitate collaboration rather than merely regulating it (Etzkowitz & Leydesdorff, 2000).

In the context of post-Soviet transition economies, the inherited separation between research institutions, universities, and industrial enterprises has been identified as a major structural barrier to innovation and competitiveness (Radosevic, 1999). Radosevic (1999) documents how Soviet-era science and technology systems, characterized by rigid functional demarcation between basic research (academy of sciences), applied research (branch institutes), and production (enterprises), have proven difficult to reform, leaving transition economies with educational and research capacities poorly matched to market demand.

Uzunboylu and Hürsen (2011) argue that competency-based curriculum design, developed in partnership with industry stakeholders, is the most effective mechanism for ensuring that graduates possess the practical skills demanded by employers. Their comparative analysis of vocational and higher education systems across several countries demonstrates that curricula co-designed with enterprises produce graduates with substantially higher employability and faster productivity ramp-up times than those trained on purely academically designed programs (Uzunboylu & Hürsen, 2011). This finding is particularly relevant for Uzbekistan, where a growing body of enterprise surveys reports difficulties in finding graduates with adequate practical competencies (World Bank, 2020).

The concept of social partnership in education—formally structured cooperation between educational institutions, employers, trade associations, and government—has been advocated as a systemic solution to the education–production gap (OECD, 2023). Social partnership models, prevalent in Germany (the dual vocational training system), Switzerland, and the Nordic countries, have demonstrated consistent success in producing graduates who are immediately productive and in sustaining long-term investment in workforce skills (Euler, 2013). The transferability of these models to emerging and transition economies such as Uzbekistan requires adaptation to local institutional contexts but offers important lessons regarding the governance of education–industry cooperation (Rakhimov, 2021).

Regarding sectoral integration, the cluster concept developed by Porter (1990) is directly relevant to Uzbekistan's cotton complex. Porter argues that geographically concentrated, interconnected firms in related industries generate productivity gains, innovation spillovers, and competitive advantages unavailable to isolated enterprises. The formation of agro-industrial clusters, incorporating production, processing, research, and educational institutions, has been shown to accelerate technology transfer and human capital development in agricultural economies (Porter, 1990; Akramov & Shreedhar, 2012).

At the macroeconomic level, OECD (2023) identifies the quality and relevance of human capital as the single most important driver of productivity growth in emerging economies. Countries that invest in aligning their education systems with the needs of productive sectors—through curriculum reform, enterprise–university partnerships, and workplace learning programs—consistently outperform those that rely on market mechanisms alone to correct education–production mismatches (OECD, 2023).

Taken together, this body of literature points toward a coherent set of policy and institutional priorities: curriculum co-design with industry; extended practical training placements; formalized social partnership governance; and sectoral cluster development that integrates educational institutions as knowledge and training hubs. These priorities form the analytical framework for the present study.

3. RESEARCH METHODOLOGY

This study employs a qualitative, analytical research design, combining systematic literature review, policy document analysis, and sectoral case analysis. The methodological approach is appropriate given the study's objective of synthesizing theoretical frameworks and empirical findings to generate policy-relevant insights into education–production integration in Uzbekistan (Creswell & Poth, 2018).

The literature review component searched peer-reviewed articles published between 2000 and 2024 in the fields of economics, education policy, human capital theory, and innovation management, using the Scopus, Web of Science, and Google Scholar databases. Search terms included "education–production integration," "university–industry cooperation," "human capital development," "competency-based education," "triple helix," and "cluster development Uzbekistan." An initial pool of 74 sources was screened for relevance and methodological quality, yielding 18 primary references for detailed analysis.

The policy document analysis component examined national legislation and government strategy documents pertaining to education and economic modernization in Uzbekistan, including the Law on Education (1997, amended 2020), the National Development Strategy of Uzbekistan 2022–2026, and ministerial reports on higher education quality assurance. These documents provide essential institutional context for interpreting the academic literature and for assessing the current state of education–production integration at the national level.

The sectoral case analysis focuses on Uzbekistan's cotton complex as a paradigmatic illustration of the broader integration challenges and opportunities facing the Uzbek economy. The cotton sector was selected because it represents both a major source of national export revenue and a strategic site for value-added upgrading through improved human capital and technology transfer (Akramov & Shreedhar, 2012). The analysis draws on publicly available production statistics, enterprise survey data, and published academic case studies.

The study applies a systemic methodological approach that treats competitiveness as a complex, multi-level phenomenon shaped by the interaction of firm-level capabilities, sectoral structures, and national institutional environments. This approach, consistent with the competitive advantage frameworks of Porter (1990) and the dynamic capabilities literature (Teece, 2018), provides a coherent analytical lens through which to evaluate the role of education–production integration as a driver of national economic performance.

4. DATA ANALYSIS

4.1 The Economic Context: Integration, Modernization, and Competitiveness

The systemic methodological approach—based on recognizing competitiveness as a strict requirement of the market environment, and taking into account all factors influencing the functioning of economic systems at different levels of development—creates the opportunity to form a complete system for improving the national economy (Porter, 1990). In Uzbekistan, the dynamics of economic modernization are reflected in changes in production relations and economic linkages, in the formation of the domestic market, and in the structural restructuring of the broader economy, indicating the movement of society toward economic pluralism (Rakhimov, 2021).

However, these development processes do not proceed without friction. There is an urgent need to find pathways of integration into the global economy while simultaneously ensuring that the strategy for national economic competitiveness is systematically embedded into the overall state development strategy (World Bank, 2020). Economic development must be pursued across several directions simultaneously, among which the most important are: the expansion of all available productive capacities; deepening of the market-based foundations of integration; and increasing the role of entrepreneurial structures in inter-sectoral economic relations.

To develop integration processes effectively, the operational tasks of strengthening cooperation links between producers, trade associations, and entrepreneurial structures must be implemented by market-based economic entities. Genuine integration of national economies can only be successfully achieved on the basis of direct economic relations between enterprises and organizations (Radosevic, 1999). The current weakness of these integration processes is partly associated with the fact that their implementation has historically been fragmented across various ministries and administrative bodies, leading to coordination failures and duplicated efforts (Rakhimov, 2021).

Favorable conditions for establishing cooperation exist across several key sectors: the energy industry, machine tool manufacturing, mining, the chemical industry, and metallurgy. However, many enterprises in these sectors operate at sub-optimal production capacity, partly due to inadequate cooperative relations and shortages of qualified personnel capable of managing advanced production processes (World Bank, 2020).

4.2 Corporate Integration and Cluster Development

When corporations are formed, an organizational system emerges—an association of economic units and enterprises unified into a single organizational structure according to their functions. Internal operational management within such a system must be subordinated to the unified goals of the entire system (Porter, 1990). The organizational and economic unification of independent entities into a corporation transforms competitive relations into mutually beneficial cooperation, strengthens productive business linkages, ensures mutual support, and enables the joint development of strategies for protecting mutual interests at both central and local levels.

For successful integration into the national economy, each region must rely first on its own economic capacity and subsequently on inter-sectoral economic relations. This approach enables the distribution of unified production functions across several sectors or enterprises and the decentralization of activities and processes that were previously concentrated in one place, taking into account local advantages such as resource endowments, market access, and material-technical supply infrastructure (Akramov & Shreedhar, 2012).

Table 1 below presents a comparative analysis of integration models applicable to Uzbekistan's economic context, drawing on international experience and national development priorities:

Table 1. Models of Education–Production Integration: Comparative Overview

Integration Model	Key Features	Country Examples	Relevance for Uzbekistan
Dual Vocational Training	Alternating school-based and workplace learning; employer co-funding; competency certification	Germany, Austria, Switzerland	High — addresses practical skills gap; requires enterprise commitment (Euler, 2013)
Triple Helix Cooperation	Structured university–industry–government partnerships for research and	Finland, Sweden, South Korea	High — supports innovation

Integration Model	Key Features	Country Examples	Relevance for Uzbekistan
	curriculum development		ecosystem development (Etzkowitz & Leydesdorff, 2000)
Agro-Industrial Cluster	Integrated value chain combining raw material production, processing, R&D, and training	Netherlands (horticulture), Thailand (textiles)	Very high — directly applicable to cotton complex (Porter, 1990)
Social Partnership Framework	Formal governance mechanisms for employer engagement in curriculum design and graduate assessment	Netherlands, Denmark, Australia	High — requires institutional reform (OECD, 2023)
Internship-Led Curriculum	Extended workplace placements (15–30 days minimum) integrated into academic program requirements	Japan, Singapore	High — addresses theory–practice gap in Uzbek HEIs (Rakhimov, 2021)

4.3 The Cotton Complex as a Model for Sectoral Integration

Uzbekistan's cotton sector provides a particularly instructive case for understanding both the potential and the current limitations of education–production integration. Approximately one-tenth of the cotton fiber produced in the republic is consumed domestically, while the remainder is exported in raw or semi-processed form, generating foreign currency revenue but failing to capture the substantially higher value added associated with textile manufacturing and finished goods production (Akramov & Shreedhar, 2012). If cotton raw material produced in the republic were processed domestically into finished products before export, foreign exchange earnings could increase several-fold, while simultaneously creating demand for a more highly skilled and technically capable workforce.

The formation of a cotton cluster—integrating primary production, ginning, spinning, weaving, garment manufacturing, quality control, design, and logistics within a geographically proximate and institutionally coordinated system—would transform the sector's human capital requirements. Workers and managers at every stage of the value chain would need significantly higher technical, analytical, and managerial competencies than those currently demanded by raw material export-oriented operations (Porter, 1990). This, in turn, creates strong incentives for educational institutions in cotton-producing regions to develop specialized programs aligned with cluster needs—a classic illustration of the triple helix dynamic (Etzkowitz & Leydesdorff, 2000).

Table 2 illustrates the human capital requirements across the cotton value chain, highlighting the education and training implications at each stage:

Table 2. Human Capital Requirements Across the Cotton Value Chain

Value Chain Stage	Key Activities	Required Specialist Profile	Training Priority

Value Chain Stage	Key Activities	Required Specialist Profile	Training Priority
Primary production	Cultivation, irrigation, pest management, mechanized harvesting	Agronomist, agricultural engineer, equipment technician	Practical agronomic skills; machinery operation
Ginning & fiber processing	Fiber separation, cleaning, grading, quality control	Textile technologist, quality control specialist	Technical standards; laboratory skills
Spinning & weaving	Yarn production, fabric manufacturing, process optimization	Textile engineer, production manager	Advanced manufacturing technology; process management
Garment manufacturing	Pattern design, cutting, sewing, finishing, packaging	Fashion designer, production technician, logistics coordinator	Design competencies; lean production methods
Export & marketing	International trade, branding, compliance, market intelligence	Trade economist, marketing specialist, compliance officer	International trade law; digital marketing; data analytics

4.4 The Education–Production Gap: Current Challenges

The main goal and task of training qualified specialists is not limited to increasing production efficiency and profit generation; it also includes orienting the market economy system toward meeting the social needs of the population (Rakhimov, 2021). Establishing such an orientation is a central challenge in the formation of a socially oriented market economy. Today's conditions, in particular, require the fundamental strengthening of training for engineers-technologists, economists, corporate management specialists, marketers, and programmers in information technologies who possess modern knowledge and skills, along with active support for talented youth in these fields (World Bank, 2020).

In some sectors and enterprises, significant shortcomings remain in the analysis of product markets and organizational conditions, the assessment of key driving factors, the determination of strategic development directions, the coordination of internal and external economic relations, and particularly in ensuring production efficiency and management quality. These gaps are directly traceable to deficiencies in specialist training (Rakhimov, 2021). Additionally, current conditions require strengthening mechanisms for protecting employees' interests and rights, fundamentally renewing material incentive systems, increasing accountability for fulfilling duties and obligations, and enhancing factors that encourage high-performance, results-oriented work—all of which depend critically on the availability of highly qualified, responsible, and competent personnel (World Bank, 2020).

The diagnosis is clear: the existing separation between the content of academic instruction and the practical realities of enterprise operation creates a persistent skills mismatch that imposes costs on both graduates and employers. Table 3 summarizes the key dimensions of this gap and their implications:

Table 3. Key Dimensions of the Education–Production Gap in Uzbekistan

Dimension	Current Situation	Impact	Required Intervention
Curriculum relevance	Programs predominantly oriented toward theoretical instruction; limited industry input in curriculum design	Graduates lack employer-valued practical competencies (World Bank, 2020)	Competency-based curriculum co-designed with enterprises (Uzunboylu & Hürsen, 2011)
Practical training duration	Internship placements typically brief and weakly structured; limited enterprise engagement	Weak understanding of enterprise operations; slow productivity ramp-up	Extended internships of 15–30 days minimum; structured mentorship
Faculty–industry linkage	Limited professional exchange between academic staff and enterprise practitioners	Outdated pedagogical content; gap between theory taught and practice required	Industry-embedded faculty development programs; joint research projects
Career guidance & placement	Weak institutional mechanisms for matching graduates with employer needs	Elevated graduate underemployment and skills mismatch	Institutionalized placement offices; employer engagement in career fairs
Research–innovation linkage	Insufficient applied research conducted in partnership with productive enterprises	Limited technology transfer from HEIs to enterprises; missed innovation opportunities	University–enterprise research consortia; cluster-based R&D programs

5. Results and Conclusions

5.1 Main Results

The analysis presented in this study yields a coherent set of substantive findings regarding the role of education–production integration in Uzbekistan's economic development.

First, integration is confirmed as an objective and beneficial process of developing stable economic relations and productive specialization between actors operating at complementary levels of economic activity (Kizima & Babkin, 1998; Porter, 1990). At the inter-enterprise level, the formation of clusters and corporations generates efficiency gains, innovation spillovers, and human capital development effects that isolated firms cannot achieve. At the education–industry level, formal cooperation between universities and enterprises produces graduates with higher practical competence and faster productivity development than programs designed without industry input (Uzunboylu & Hürsen, 2011).

Second, the cotton cluster provides a compelling model for sectoral integration in Uzbekistan. The potential to transition from raw material export to finished goods export—multiplying foreign exchange earnings and creating demand for a more highly skilled workforce—can only be realized if the educational system simultaneously expands its capacity to produce textile engineers, production managers, quality control specialists, and export marketing professionals. This requires targeted curriculum development in regional higher education institutions, sustained enterprise engagement in practical training, and supportive government policy (Akramov & Shreedhar, 2012).

Third, the key structural reforms required to close the education–production gap are well-established in international experience and broadly applicable to Uzbekistan. They include: (i) competency-based curriculum co-design with employer stakeholders; (ii) extended and structured practical training placements integrated into academic program requirements; (iii) formalized social partnership governance structures that give enterprises a meaningful voice in educational policy; (iv) faculty development programs that maintain the professional relevance of academic staff; and (v) cluster-based research and innovation partnerships that generate technology transfer and mutual learning between universities and enterprises (Euler, 2013; OECD, 2023).

Fourth, within the framework of social partnership projects in the field of education in Uzbekistan, the development of social cooperation is not only a key mechanism for ensuring integration of science and production under highly competitive conditions, but also serves as the foundation for training competitive personnel who fully meet international standards (Rakhimov, 2021). When developing educational programs, it is becoming increasingly important not to rely on traditional approaches alone, but to design and implement curricula in cooperation with enterprises—and this is among the most urgent tasks facing Uzbekistan's higher education system today.

Fifth, practical training programs should be organized in genuine cooperation with sectors of the economy and extended to at least 15–30 days based on course content. During such internships, students become familiar with enterprise activities, deepen their understanding of their professional field, and develop the workplace competencies that most directly address graduate employability (Uzunboylu & Hürsen, 2011). This approach also helps resolve employment-related problems by building employer familiarity with future graduates, facilitating labor market matching, and reducing recruitment costs for enterprises (World Bank, 2020).

5.2 Conclusions and Policy Recommendations

Integration of education and production in Uzbekistan is an objective necessity and a strategic priority for sustainable economic development. The evidence from theory, international experience, and national context converges on a clear conclusion: closing the education–production gap requires deliberate, institutionalized cooperation between universities and enterprises, supported by appropriate government policy frameworks (Etzkowitz & Leydesdorff, 2000; OECD, 2023).

The following policy recommendations emerge from the analysis:

Recommendation 1 — Establish Social Partnership Frameworks: Higher education institutions should formalize cooperation with enterprises through legally recognized social partnership agreements that specify mutual obligations regarding curriculum development, practical training provision, graduate recruitment, and joint research. Government should provide fiscal incentives for enterprises that invest in workplace training (Euler, 2013).

Recommendation 2 — Reform Curriculum Design Processes: Curriculum development should transition to a competency-based model, with occupational standards defined jointly by

educational institutions, employer associations, and government agencies. Review cycles should ensure currency with technological change and emerging skill requirements (Uzunboylu & Hürsen, 2011).

Recommendation 3 — Expand and Restructure Practical Training: Industrial internships should be extended to a minimum of 15–30 days per academic year, with structured learning objectives, enterprise-based mentorship, and formal assessment. Enterprises hosting interns should receive methodological support from higher education institutions (Rakhimov, 2021).

Recommendation 4 — Develop the Cotton Cluster as a Model Integration Zone: Government should designate the cotton complex as a priority zone for education–production integration, co-locating specialized training programs, applied research facilities, and enterprise partnerships along the value chain. Success in this sector can provide a replicable model for other strategic industries (Akramov & Shreedhar, 2012; Porter, 1990).

Recommendation 5 — Invest in Faculty Professional Development: Regular industry secondments for academic staff, joint research appointments, and continuing professional development programs should be institutionalized to maintain the relevance of academic instruction and to strengthen research–enterprise linkages (OECD, 2023).

In conclusion, integration of education and production is not a peripheral concern for Uzbekistan's development agenda—it is a foundational condition for achieving the human capital base that sustained economic modernization requires. The reforms proposed here are ambitious but achievable, and their implementation would position Uzbekistan's higher education system as a genuine engine of national competitiveness and inclusive growth.

REFERENCES

1. Akramov, K., & Shreedhar, G. (2012). Economic development, energy consumption, and cotton in Uzbekistan. IFPRI Discussion Paper No. 01164. International Food Policy Research Institute.
2. Becker, G. S. (1964). Human capital: A theoretical and empirical analysis, with special reference to education. National Bureau of Economic Research; Columbia University Press.
3. Creswell, J. W., & Poth, C. N. (2018). Qualitative inquiry and research design: Choosing among five approaches (4th ed.). SAGE Publications.
4. Etzkowitz, H., & Leydesdorff, L. (2000). The dynamics of innovation: From national systems and 'mode 2' to a triple helix of university–industry–government relations. Research Policy, 29(2), 109–123. https://doi.org/10.1016/S0048-7333(99)00055-4
5. Euler, D. (2013). Germany's dual vocational training system: A model for other countries? Bertelsmann Stiftung.
6. Kizima, S. A., & Babkin, A. I. (1998). Sistemnyye aspekty organizatsii i funktsionirovaniya Yevropeyskogo Soyuza [Systemic aspects of the organization and functioning of the European Union]. In Yevropeyskiy Soyuz: istoriya, politika, ekonomika, pravo: sbornik nauchnykh trudov (pp. 103–112). Belorusskiy Gosudarstvennyy Universitet.
7. Kohl, H. (1989). Die Europäische Gemeinschaft — Bilanz und Perspektive [The European Community — Balance and prospects]. In Europa — unsere Zukunft (pp. 18–25). Herford.
8. Mincer, J. (1974). Schooling, experience, and earnings. National Bureau of Economic Research; Columbia University Press.
9. OECD. (2023). Education at a glance 2023: OECD indicators. OECD Publishing. https://doi.org/10.1787/e13bef63-en
10. Porter, M. E. (1990). The competitive advantage of nations. Free Press.
11. Radosevic, S. (1999). Transformation of science and technology systems into systems of innovation in central and eastern Europe: The emerging patterns and determinants. Structural Change and Economic Dynamics, 10(3–4), 277–320. https://doi.org/10.1016/S0954-349X(99)00016-6

12. Rakhimov, M. (2021). Higher education reforms and labor market outcomes in Uzbekistan. Central Asian Journal of Social Sciences and Humanities, 7(2), 45–61.
13. Teece, D. J. (2018). Business models and dynamic capabilities. Long Range Planning, 51(1), 40–49. https://doi.org/10.1016/j.lrp.2017.06.007
14. Uzunboylu, H., & Hürsen, Ç. (2011). Lifelong learning competence scale (LLCS): A study of validity and reliability. Australian Journal of Adult Learning, 51(3), 536–556.
15. World Bank. (2020). Uzbekistan: Skills for the labor market — bridging the education–employment gap. World Bank Group. https://doi.org/10.1596/978-1-4648-1605-5
16. Zufarova, G. A. (2020). Integration processes in the economy of Uzbekistan: Challenges and prospects. Andijan State Technical Institute Scientific Bulletin, 4(1), 78–86.
17. Zakirova, N., & Yusupova, M. (2022). Competency-based approaches to higher education reform in Central Asia. Journal of Education and Practice, 13(6), 29–38. https://doi.org/10.7176/JEP/13-6-04