

Exploring the Mechanism of Empowering Textile Cultural and Creative Innovation Development with Traditional Ethnic Music

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ABSTRACT Under the background of cultural confidence and China-Chic revival, the cross-border integration of traditional ethnic music and textile cultural creativity has become an important path for activating traditional crafts and upgrading cultural industries. This study systematically analyzes the intrinsic relationship and integration logic between ethnic music and textile cultural and creative products, and identifies difficulties such as shallow cultural interpretation, design homogenization, insufficient industrial collaboration, and weak market transformation. A full-chain innovation mechanism of cultural decoding, design translation, technology empowerment, industrial collaboration, market landing, and value cycling is constructed. The study proposes a multidimensional translation path from auditory rhythm, melody, and instrumental form to visual patterns, textile textures, colors, and emotional symbols. It further discusses resource mining, design innovation, technological application, industrial ecology, market operation, and support systems. By treating music as a structured signal, the study provides a signal-processing-based approach for smart textiles, pattern generation, and cultural design differentiation.

INDEX TERMS traditional ethnic music, textile cultural creativity, design translation, signal processing, smart textiles

I. INTRODUCTION

A. RESEARCH BACKGROUND AND SIGNIFICANCE

DRIVEN by the combination of global cultural diversity and the strong rise of China-Chic culture, the creative transformation and innovative development of traditional cultural resources have become the core proposition of the transformation and upgrading of cultural industries and traditional manufacturing industries[1]. Textile cultural and creative industries, as an important field that combines cultural, technological, and market attributes, are a key carrier for inheriting excellent traditional Chinese culture, promoting the revitalization of intangible cultural heritage, and meeting the growing needs of the people for a better life. China has abundant traditional ethnic music resources, covering diverse forms such as folk songs, instrumental music, opera, rap, etc., carrying the historical memories, spiritual beliefs, aesthetic tastes, and cultural genes of various ethnic groups. It is a cultural treasure with great development value. However, the current textile cultural and creative industry generally faces problems such as lack of cultural connotation, serious design homogenization, low product added value, and weak market competitiveness. The inheritance of traditional ethnic music also faces difficulties

such as narrow communication channels, solidified audience groups, and insufficient dynamic transformation. In this context, exploring the deep integration of traditional ethnic music and textile cultural and creative industries, empowering the innovative development of textile cultural and creative industries with music culture, has become an inevitable choice to break through the development bottlenecks of the two major fields and achieve a win-win situation between cultural and economic values[2-3].

B. RESEARCH CONTENT, METHODS, AND TECHNICAL ROADMAP

1) Research Content

This study is divided into seven chapters, with the following core contents:

Chapter 1: Introduction. Elaborate on the research background, significance, current situation at home and abroad, research content, methods, and technical route.

Chapter 2: Core Concepts and Theoretical Foundations. Define core concepts such as traditional ethnic music, textile cultural and creative industries, and cultural empowerment, and review basic theories such as cultural and creative industry theory, cross-border integration theory, semiotics

theory, and emotional design theory.

Chapter 3: The Integration Foundation and Value Coupling of Traditional Ethnic Music and Textile Culture and Creativity. Analyze the intrinsic correlation, fusion dimension, and value synergy effect between the two.

Chapter 4: Resource mining and cultural decoding of traditional ethnic music empowering textile cultural and creative industries. Systematically sort out the types of ethnic music resources, explore the mining and decoding methods of cultural connotations, artistic elements, and spiritual cores.

Chapter 5: Design Innovation and Translation Path of Empowering Textile Culture and Creativity with Traditional Ethnic Music. Construct a multidimensional translation system of "auditory visual tactile emotional", propose innovative design methods and practical cases.

Chapter 6: Industrial synergy and market operation mechanism of traditional ethnic music empowering textile cultural and creative industries. Analyze industrial integration models, industrial chain construction, market operation strategies, and value transformation paths.

Chapter 7: Security System and Development Prospects. Propose policies, talent, technology, intellectual property and other safeguard measures, and look forward to future development trends.

2) Research Methods

Literature research method: Systematically review relevant domestic and foreign literature, policy documents, and industry reports to lay a theoretical foundation.

Case analysis method: Select typical cases of Cantonese opera and silk cultural and creative industries, Xinjiang musical instruments and textile products, Xi'an drum music and clothing design, etc., and summarize experiences and problems[4-5].

Interdisciplinary research approach: Integrating theories and methods from multiple disciplines such as musicology, design, textiles, and industrial economics to conduct comprehensive research.

Field research method: Conduct in-depth research in ethnic areas, textile enterprises, cultural and creative parks, and intangible cultural heritage workshops to investigate the current status of resources, industry demand, and market pain points.

Inductive deduction method: Based on research and case analysis, summarize and integrate mechanisms and practical paths, and deduce to form a systematic theoretical framework.

3) Technical roadmap

This study follows the technical route of "theoretical foundation - current situation analysis - mechanism construction - path exploration - guarantee system - outlook", guided by problems, supported by theory, and grounded in practice, conducting research layer by layer.

II. THEORETICAL BASIS

Based on the core concepts and fundamental theories mentioned above, this study constructs a theoretical framework of "cultural empowerment cross-border integration innovation transformation value realization": taking traditional ethnic music culture as the empowerment core, cross-border integration as the path, and design innovation, technological innovation, and industrial innovation as the means to achieve the transformation of music culture from "auditory resources" to "visual carriers", "practical products", and "emotional symbols", ultimately achieving the diverse value goals of cultural inheritance, industrial upgrading, market profitability, and social recognition[6].

III. THE INTEGRATION FOUNDATION AND VALUE COUPLING OF TRADITIONAL ETHNIC MUSIC AND TEXTILE CULTURAL AND CREATIVE INDUSTRIES

A. INTRINSIC CONNECTION: CULTURAL HOMOLOGY AND AESTHETIC COMMONALITY

Traditional ethnic music is mainly transmitted through "auditory" channels, with characteristics of temporality, fluidity, and abstraction, and limited dissemination scenarios; Textile cultural and creative industries use "physical objects" as carriers, with spatial, static, and concrete characteristics, and can be integrated into daily life scenes. The two carriers complement each other. Music injects cultural soul and emotional connotation into textile culture and innovation. Textile culture and innovation provides physical carrier and communication scene for music, realizing mutual transformation and collaborative communication of "auditory culture", "visual culture" and "practical culture"[7-8].

B. INTEGRATION DIMENSION: MULTI LEVEL AND ALL-ROUND DEEP INTEGRATION

1) Integration of Cultural Connotation

The historical stories, national spirit, belief concepts, and life wisdom contained in traditional ethnic music can be deeply integrated into the cultural core of textile cultural and creative industries, endowing products with unique cultural stories and spiritual values[9-10]. For example, integrating the grassland culture and nomadic spirit carried by Mongolian tribal chiefs into cashmere cultural and creative products not only has practical functions, but also becomes a carrier for the dissemination of grassland culture, as shown in Table 1 below.

TABLE 1. Fusion Dimension and Connotation Transmutation of Traditional Music and Textile Cultural and Creative Products

Fusion Dimension	Fusion Carrier	Transformation Content	Cultural Transmutation Goal
Cultural Connotation	Textile pattern and theme	Historical story, national spirit and folk belief	From abstract audio culture to tangible cultural carrier
Art Element	Color, texture and modeling	Rhythm, melody, musical instrument contour and costume detail	Convert auditory aesthetics to visual and tactile aesthetics
Traditional Craft	Embroidery, dyeing and weaving technology	Opera embroidery, musical instrument carving and inlay technology	Inherit traditional crafts and expand application scenarios
Emotional Value	Daily textile supplies	Nostalgia, national identity and aesthetic mood	Build emotional resonance between users and traditional culture

2) Integration of artistic elements

The melody, rhythm, beat, mode, and timbre of music, the form, structure, and decoration of musical instruments, the costumes, facial makeup, and patterns of opera, the lyrics, imagery, and scenes of folk songs, and other artistic elements can be transformed into design elements such as patterns, colors, shapes, textures, and crafts of textile cultural and creative products, enriching the artistic expression of products[11]. Empirical

Application Case: In a controlled study, the digital waveform of a 60-second Uyghur Muqam segment was extracted and processed via parametric design software. The amplitude variations were mapped to the gradient depth of silk dyes, while the frequency peaks dictated the interlacing frequency of the weaving loom. This resulted in a 15% increase in consumer perceived value compared to traditional geometric patterns, validating the efficiency of the "full chain innovative development mechanism" through quantifiable aesthetic differentiation and market feedback[12].

3) Integration of Process Technology

The production techniques of traditional ethnic music (such as instrument making, opera costume making) and textile techniques (such as embroidery, weaving, printing and dyeing, weaving) can be mutually borrowed, integrated and innovated[13]. For example, drawing inspiration from the lacquering process of musical instruments to enhance the surface decorative effect of textile products, and drawing inspiration from the embroidery techniques of traditional opera costumes to enrich the artistic expression of textile culture and creativity, achieving the revitalization and innovation of traditional crafts[14].

4) Emotional Value Fusion

The emotions conveyed by traditional ethnic music, such as homesickness, ethnic identity, patriotism, and joy of life, can be conveyed to consumers through textile cultural and creative products, triggering emotional resonance, meeting consumers' emotional and cultural identity needs, and enhancing the emotional added value of products[15].

C. VALUE COUPLING: COLLABORATIVE DOUBLING OF MULTIPLE VALUES

1) Cultural Value: Medium Transformation

Traditional ethnic music provides a rich narrative repository for textiles; by embedding these stories into physical goods, we solve the "intangibility" problem of music, allowing it to exist in daily physical space; At the same time, enriching the cultural connotation of textile cultural and creative industries, enhancing the cultural taste of products, and assisting in the inheritance and promotion of excellent traditional Chinese culture[15].

2) Artistic Value: Aesthetic Differentiation

Conversely, textile products gain unique stylistic markers from music's rhythmic and structural patterns, moving beyond generic decoration to achieve a distinct artistic identity that is non-replicable by standard industrial design[16-17].

3) Social Value: Identification and Communication

Integrated products can enhance consumers' ethnic cultural identity and cultural confidence, promote the exchange and integration of various ethnic cultures; At the same time, through market-oriented dissemination, promote the excellent traditional Chinese culture to the public and the world, and enhance the country's cultural soft power[18].

D. REALISTIC CHALLENGES: BOTTLENECKS AND CHALLENGES OF INTEGRATED DEVELOPMENT

1) Superficial Cultural Interpretation

The current integration practice mostly stays at the simple extraction and surface application of music symbols, lacking in-depth exploration and interpretation of the cultural connotation, spiritual core, and historical background of ethnic music, resulting in insufficient product cultural heritage and becoming a "symbol pile", which is difficult to trigger deep emotional resonance[19].

2) Serious homogenization of design

Most products only directly print music elements (such as instrument patterns and melodic lines) on textile products, lacking innovative translation and design reconstruction. The product form is single, the style is similar, the differentiation competitiveness is weak, and it is difficult to meet the personalized needs of consumers[20].

3) Inefficient Market Conversion

The positioning of integrated products is vague, pricing is unreasonable, marketing channels are single, and there is

a lack of brand operation and market promotion, resulting in low market recognition and conversion rates of products, making it difficult to achieve sustainable market-oriented development.

IV. RESOURCE MINING AND CULTURAL DECODING OF TRADITIONAL ETHNIC MUSIC EMPOWERING TEXTILE CULTURAL AND CREATIVE INDUSTRIES

A. HIERARCHICAL CLASSIFICATION OF ETHNIC MUSIC RESOURCES

To avoid taxonomic overlap, resources are primarily categorized by Artistic Form (Folk Songs, Instrumental, Opera, and Rap), with regional distribution and cultural connotation serving as secondary attributes within each form to ensure a mutually exclusive and collectively exhaustive system.

1) Classification by ethnicity and region

All 56 ethnic groups in China have unique traditional ethnic music resources, which can be divided into:

Traditional music of the Han nationality: including Jiangnan silk and bamboo, Guangdong music, northern Shaanxi folk songs, Beijing Opera, Kunqu Opera, Henan Opera, etc., which are distributed in the Central Plains, Jiangnan, Lingnan, northwest and other regions, with diverse styles and profound details, as shown in Table 2 below.

TABLE 2. Classification and Cultural Characteristics of Traditional National Music

Music Category	Main Genre	Regional Distribution	Core Cultural Connotation
Folk Songs	Work chants, mountain songs, minor tunes	Nationwide, regional differentiation	Labor memory, emotional expression, folk custom
Folk Instrumental Music	Wind instrument, string instrument, percussion music	Ethnic settlement areas	Totem worship, natural aesthetics, ritual culture
Opera Music	Kunqu, Yue Opera, Cantonese Opera	Southern and central China	Historical legend, traditional ethics, aesthetic ritual
Ethnic Dance Music	Tibetan Guozhuang, Miao Lusheng dance music	Western and southwest ethnic areas	National lifestyle, festival culture, group emotion

B. CLASSIFICATION BY MUSIC FORM

Folk songs: including labor songs, mountain songs, minor tunes, narrative songs, etc. The lyrics are close to life, the melody is simple, and it contains rich life scenes and emotional expressions.

Folk instrumental music: including wind instruments (flute, xiao, suona, lusheng), plucked instruments (guzheng,

pipa, guqin, dongbula), stringed instruments (erhu, horse-head fiddle, aijieke), percussion instruments (gong, drum, cymbal, chime), etc., with diverse instrument forms and rich timbres.

Folk song and dance music: including Uyghur Muqam song and dance, Tibetan Guozhuang dance, Mongolian Andai dance, Miao lusheng dance, etc., deeply integrating music with dance, costumes, and rituals.

Opera music: including Peking Opera, Kunqu Opera, Yue Opera, Cantonese Opera, Huangmei Opera, etc. The music is integrated with singing style, recitation, performance, costumes, and facial makeup, with rich cultural connotations.

Rap music: including drumming, danci, qin shu, and fast board, telling historical stories and folk legends in the form of a combination of rap and singing.

C. CLASSIFICATION BY CULTURAL CONNOTATION

Historical narrative genre: tells ethnic history, heroic stories, and folk legends in the form of music, such as Mongolian rap music "Gadamelin" and Tibetan rap music "Gesar King".

Beliefs and Sacrifices: Music used for religious worship, ancestor worship, and nature worship, such as Yi ethnic worship songs and Tibetan religious music, containing ethnic beliefs and spiritual pursuits.

Emotional category of life: music that expresses emotions such as labor, love, homesickness, joy, sadness, etc., such as the Shaanbei folk song "Xin Tian You" and the Jiangnan minor tune "Jasmine Flower".

Festival and Ceremony Category: Music used for festival celebrations, weddings, funerals, and folk ceremonies, such as Miao Lusheng Festival music and Korean agricultural dance music, carrying folk culture and life wisdom.

D. PRINCIPLES AND PRECAUTIONS FOR CULTURAL DECODING

Cultural decoding must respect historical facts and the original appearance of culture, eliminate distortion, tampering, and fragmented interpretation, ensure the authenticity and inheritance of cultural connotations, and avoid the abuse and misreading of cultural symbols.

Systematically decode music culture from multiple dimensions such as history, culture, art, craftsmanship, and emotion, avoiding one-sided interpretation from a single dimension, and achieving a comprehensive and in-depth understanding of music culture.

On the basis of respecting tradition, combined with modern design concepts and market demand, innovative interpretation and transformation of cultural elements are carried out to avoid rigid copying and duplication. Emphasize the dynamic inheritance and contemporary value of culture, pay attention to the significance and application scenarios of music culture in contemporary life during the decoding process, and achieve the integration of traditional culture and modern life.

V. DESIGN INNOVATION AND TRANSLATION PATH OF TRADITIONAL ETHNIC MUSIC EMPOWERING TEXTILE CULTURAL AND CREATIVE INDUSTRIES

A. OPERATIONAL DEFINITIONS AND PATH CONSTRUCTION

The translation process moves beyond symbolic representation to structural isomorphism. This is achieved by converting musical frequency into color spectrums and rhythmic beats into mathematical weaving sequences. For instance, the syncopated rhythm of a folk tune is translated into the asymmetrical distribution of warp and weft densities, creating a "musical texture" that is physically perceptible. This ensures that the "design translation" is rooted in the structural transformation of data rather than abstract cultural decoding. Cultural Decoding refers to the semiotic deconstruction of music to identify its "genetic" cultural markers. Design Translation is defined as the cognitive mapping process where auditory rhythm and melody are converted into visual geometric constraints and tactile textures for textile application. For example, transforming the curved panel of the guzheng into the outline of a textile screen; Transform the pear shaped body of the pipa into the shape of a fabric bag; Transforming the tubular structure of lusheng into the shape of textile lighting fixtures; Transform the circular shape of the bell into the design of a home textile pillow.

B. METHODS AND STRATEGIES FOR DESIGN INNOVATION

Develop a series of textile cultural and creative products with a single ethnic music or music genre as the core, form a complete product matrix, and strengthen brand recognition and cultural dissemination. For example, the development of the "Xinjiang Muqam" series (clothing, home textiles, accessories, gifts), "Kunqu" series (silk, fabric, ornaments), and "Miao Lusheng" series (wax printing, embroidery, weaving) are shown in Table 3 below.

TABLE 3. Design Translation Path and Application Form of Musical Cultural Elements

Musical Element	Translation Method	Textile Design Carrier	Innovative Application Form
Melody and Rhythm	Line abstraction and rhythm pattern geometric combination	Clothing fabric, home textile	Flowing curve pattern, regular arrangement
Musical Instrument Shape	Contour simplification and morphological reconstruction	Fabric bag, decorative artwork, lamp	Minimalist outline modeling, local inlay decoration
Opera Visual Symbol	Pattern extraction and color reconstruction	Silk scarves, embroidery ornaments	Facial elements, opera clothing color matching system
Folk Music Scene	Scene stylization and theme customization	Cultural and creative gifts, tourism textiles	Local characteristic scene printing and intangible cultural heritage theme series

C. PRINCIPLES OF DESIGN TRANSLATION

Design translation must be centered around cultural connotations, ensuring precise transmission of cultural elements and preservation of spiritual essence, avoiding neglecting cultural essence in pursuit of form. On the basis of respecting tradition, boldly innovate, combine modern design concepts with market demand, achieve creative transformation of cultural elements, and avoid rigid retro and replication. Textile cultural and creative products must balance cultural value and practical functions, meet consumers' daily usage needs, and avoid the misconception of "emphasizing culture over practicality". Pay attention to the visual aesthetics and aesthetic experience of products, combine modern aesthetic trends, create products that combine traditional charm and modern aesthetics, and enhance the market appeal of products.

VI. THE INDUSTRIAL SYNERGY AND MARKET OPERATION MECHANISM OF TRADITIONAL ETHNIC MUSIC EMPOWERING TEXTILE CULTURAL AND CREATIVE INDUSTRIES

A. CORE LOGIC OF INDUSTRIAL COLLABORATION: FULL CHAIN INTEGRATION AND ECOLOGICAL CONSTRUCTION

The core of empowering textile cultural and creative industries with traditional ethnic music is to break down the boundary barriers between the music and textile cultural and creative fields, integrate music resources, design resources, production resources, market resources, talent resources, and technical resources, and build a full chain integrated industrial ecology of "music culture mining creative design and development production and manufacturing landing market

promotion and operation value feedback cycle", achieving resource complementarity, risk sharing, benefit sharing, and collaborative development.

B. MAIN BODY AND MODE OF INDUSTRIAL COLLABORATION

1) Collaborative Subject

Cultural side: music schools, research institutions, intangible cultural heritage protection centers, cultural departments in ethnic regions, music inheritors, music creation teams, responsible for cultural resource mining, cultural decoding, IP development, and cultural guidance.

Design side: textile designer, cultural and creative designer, cross disciplinary designer, design studio, design school, responsible for creative design, element translation, and product development.

Production end: textile enterprises, intangible cultural heritage workshops, cultural and creative production enterprises, intelligent manufacturing enterprises, responsible for product production, process implementation, and quality control.

Market side: e-commerce platforms, cultural and tourism enterprises, brand operators, distributors, offline stores, responsible for market promotion, brand operation, and sales channel expansion.

Technical side: technology enterprises, digital service organizations, responsible for technology empowerment, digital development, and intelligent production.

On the government side, the departments of culture and tourism, industry and information technology, and commerce are responsible for policy guidance, financial support, platform construction, and environmental creation, as shown in Table 4.

TABLE 4. Industrial Collaboration Subjects and Operational Mode Classification

Collaborative Subject	Core Responsibility	Cooperation Mode	Market Orientation
Cultural Research Institutions	Cultural decoding, heritage protection and IP development	Industry-university-research cooperation	Cultural inheritance and resource sorting
Textile Design Team	Element transformation, product design and aesthetic optimization	Cross-border design joint creation	Product differentiation and aesthetic upgrading
Textile Production Enterprises	Intelligent manufacturing, craft integration and quality control	Intangible heritage workshop joint production	Scale production and cost control
Cultural Tourism Operators	Channel sales, scene experience and brand promotion	Cultural and tourism integrated operation	Terminal sales and consumer market expansion

2) Collaborative Mode

IP authorization collaborative model: Explore the value of traditional ethnic music IP, create influential music culture

IP, and collaborate with textile cultural and creative enterprises to develop a series of products through IP authorization. For example, creating cultural IPs such as "Mongolian Chief Tune," "Uyghur Muqam," and "Kunqu Opera," authorizing companies to develop a series of products such as clothing, home textiles, and accessories, achieving a win-win situation between IP value and industrial value.

C. CONSTRUCTION AND OPTIMIZATION OF INDUSTRIAL CHAIN

Cultural resource development: Strengthen the excavation, organization, digitization, and IP development of traditional ethnic music resources, establish resource databases and IP libraries, and provide core resource support for industrial development.

Cultivation of production entities: Support the development of textile intangible cultural heritage workshops and small and medium-sized cultural and creative enterprises, guide large textile enterprises to transform and layout in the cultural and creative field, and form a diversified production entity pattern.

Quality standard construction: Develop quality standards, process standards, and cultural norms for music themed textile cultural and creative products to ensure product quality and cultural authenticity.

Channel expansion: Build a sales channel that integrates online and offline channels. Online sales rely on e-commerce platforms (Taobao, JD, Tiktok, Kwai), social networking platforms, live broadcast with goods, and cultural and creative e-commerce platforms; Offline layout of cultural and tourism attractions, museums, cultural and creative stores, brand stores, supermarket counters, ethnic cultural experience halls and other channels.

D. MARKET OPERATION STRATEGY AND VALUE CONVERSION PATH

Segmented market positioning: Segment the market based on consumer groups, consumption scenarios, and consumption needs. For example, targeting the cultural and tourism consumer group, developing tourism souvenirs and souvenirs; Develop home textile products targeting the household consumer group; Develop clothing products targeting the fashion consumer group; Develop high-end cultural and creative gifts for gift consumers.

Differentiated positioning: Highlighting the cultural characteristics of traditional ethnic music, creating differentiated products, and avoiding homogeneous competition. Emphasize the cultural uniqueness, craftsmanship uniqueness, and emotional value of products to form core competitiveness.

Price stratification positioning: Develop a tiered pricing system based on product craftsmanship, materials, and cultural value. Develop mass consumer level (affordable and practical), mid-range consumer level (quality and culture), and high-end consumer level (collectible craftsmanship) products to meet the needs of different consumer groups.

Cross border marketing: Collaborate with music performances, cultural and tourism activities, fashion exhibitions, and festival events to expand marketing scenarios. For example, setting up product display and sales zones in ethnic music festivals, opera performances, and cultural tourism festivals, and showcasing music themed textile cultural and creative products in fashion exhibitions.

Community marketing: Establish a brand fan community, conduct interactive activities, cultural sharing, product pre-sales, and user feedback through the community, enhance user stickiness and word-of-mouth communication.

Cultural value to economic value transformation: By empowering culture, we can enhance product added value, achieve the transformation of cultural value to economic value, and promote industrial profit growth.

Transforming product value into brand value: Through high-quality products and cultural dissemination, creating a strong brand, upgrading product value to brand value, and enhancing brand premium ability.

Transforming regional value into social value: promoting the integrated development of music culture and textile industry in ethnic areas, driving local economy, employment, and cultural inheritance, realizing the transformation of regional value into social value, and assisting rural revitalization and the construction of a cultural power.

E. MEASURES TO ENSURE INDUSTRIAL SYNERGY AND MARKET OPERATION

Build industry collaboration platforms, resource docking platforms, design innovation platforms, and market promotion platforms to provide support for the integrated development of industries. For example, establishing a "Traditional Ethnic Music Textile Cultural and Creative Industry Alliance" to promote communication and cooperation among stakeholders; Build an integrated online and offline display and trading platform to expand market channels.

Strengthen the cultivation of composite talents, through the establishment of relevant majors in universities, skill training in enterprises, and mentorship by inheritors, to cultivate composite talents who not only understand ethnic music culture, but also are proficient in textile design and cultural and creative operations; Introduce high-end design, operation, and marketing talents to enrich the industrial talent team. Promote the application of digital and intelligent technologies throughout the entire industrial process, and improve the efficiency of design, production, and operation. For example, utilizing digital design software, 3D printing technology, intelligent production equipment, and big data analysis technology to empower industrial innovation and development.

VII. SECURITY SYSTEM AND DEVELOPMENT PROSPECTS

A. CONSTRUCTION OF GUARANTEE SYSTEM

1) Policy Guarantee System

Top level design: The national and local governments will incorporate traditional ethnic music into the top-level planning of cultural industry, textile industry, intangible cultural heritage protection, and rural revitalization, and issue special policy documents to clarify development goals, key tasks, and guarantee measures.

Financial support: Establish special support funds to provide financial subsidies, loan interest subsidies, and reward support for projects such as cultural resource exploration, creative design, industrial integration, brand building, and market promotion; Guide social capital to participate and broaden financing channels.

Tax incentives: Implement tax incentives for cultural and creative industries, small and micro enterprises, and intangible cultural heritage industries, and reduce value-added tax and corporate income tax for music, textile, cultural and creative enterprises to alleviate their burden.

Land and platform guarantee: Reserve industrial land in cultural industry parks, cultural and creative towns, and ethnic areas to support the construction of music and textile cultural and creative industry parks, intangible cultural heritage workshops, and experience bases; Build a public service platform that provides one-stop services such as design, testing, display, and trading.

2) Talent Security System

University talent cultivation: Support universities to offer related majors or courses such as "Traditional Music Culture and Textile Design", "Cultural and Creative Design and Operation", "Intangible Cultural Heritage Inheritance and Innovation", etc., to cultivate composite professional talents; Strengthen school enterprise cooperation, establish internship and training bases, and achieve alignment between talent cultivation and industry demand.

Social training and inheritance: relying on industry associations, intangible cultural heritage centers, and enterprises, carry out skills training, cultural training, and operational training to enhance the professional abilities of practitioners; Establish a mechanism for inheritors and apprentices, encourage music inheritors and textile masters to teach apprentices, and inherit traditional skills and culture.

Talent introduction and incentives: formulate talent introduction policies, introduce high-end design, operation, marketing, and technical talents; Establish a talent incentive mechanism, reward talents who have made outstanding contributions, evaluate their professional titles, and recognize them with honors, in order to stimulate their vitality.

3) Technical Support System

Application of digital technology: promoting big data, artificial intelligence, audio visualization, 3D modeling VR/AR, The application of digital printing, intelligent production and other technologies in cultural decoding, design innovation, production and manufacturing, and market operation enhances industrial efficiency and innovation capabilities.

Construction of Technical Service Platform: Build a technical service platform to provide enterprises with technical consulting, technology transfer, equipment sharing, testing and certification services, and reduce the cost of technological innovation for enterprises.

4) Intellectual Property Protection System

Intellectual property protection: Strengthen the intellectual property protection of traditional ethnic music culture IP, textile cultural and creative product design, craftsmanship, and brand, and improve the protection system of patents, trademarks, copyrights, and intangible cultural heritage intellectual property.

Infringement crackdown: Strengthen intellectual property law enforcement, severely crack down on infringement, piracy, and counterfeiting, and safeguard the legitimate rights and interests of enterprises and market order.

Intellectual property operation: Establish an intellectual property trading platform to promote the market-oriented operation and transformation of music culture IP, design achievements, and technology patents, and achieve the maximization of intellectual property value.

B. DEVELOPMENT TREND OUTLOOK

1) Deep Fusion: From "Cross border Overlay" to "Gene Fusion"

In the future, the integration of traditional ethnic music and textile cultural and creative industries will move from surface level element stacking and symbol application to deep level cultural gene integration, spiritual core integration, and craft system integration, achieving a deep integration of "you in me, I in you", and creating products and brands with unique cultural genes and core competitiveness.

2) Technology Empowerment: Comprehensive Penetration of Digitization and Intelligence

Digital and intelligent technologies will fully empower the entire process of the industry. The application of technologies such as audio visualization, AI design, intelligent production, big data marketing, VR/AR experience, etc. will promote the comprehensive upgrading of design innovation, production efficiency, and market operation, and give birth to new formats such as intelligent music textile cultural and creative industries and digital music textile cultural and creative industries.

3) Branding and IPization: Creating Cultural Brands with International Influence

In the future, a group of strong textile cultural and creative brands and cultural IPs with traditional ethnic music and cultural characteristics will emerge. Through IP based operation and branding, the products will be promoted to the whole country and the world, enhancing the international influence and dissemination of excellent traditional Chinese culture.

4) Industrial Ecologization: Building a fully integrated industrial ecosystem throughout the entire chain

We will form a fully integrated industrial ecosystem of "cultural excavation design innovation production and manufacturing market operation talent cultivation technology research and development value cycle", realizing the coordinated development of multiple industries such as music, textiles, cultural and creative industries, cultural tourism, and technology, and creating a sustainable industrial development model.

AUTHOR CONTRIBUTIONS

Mao-Qian designed, collected and analyzed the data, and drafted the manuscript. Mao-Qian conducted the study, critically revised the manuscript for important intellectual content, and gave final approval of the version to be published. Mao-Qian participated fully in the work, take public responsibility for appropriate portions of the content, and agreed to be accountable for all aspects of the work in ensuring that questions related to the accuracy or integrity of any part of the work are appropriately investigated and resolved.

CONFLICTS OF INTEREST

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