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## Choral practice and musical production as vectors for socio-emotional development and entrepreneurship in basic education: the implementation of the MAEMI model.

*Choral practice and music production as vectors for socio-emotional development and entrepreneurship in basic education: the implementation of the MAEMI model*

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### Summary

Music education in the contemporary school context transcends the mere decoding of sound symbols or the technical reproduction of musical scores, assuming a structuring role in civic education and the socio-emotional development of students. This scientific article proposes a critical analysis of the implementation of large-scale choral practices and technological music production workshops as active strategies for mitigating social vulnerabilities and fostering youth entrepreneurship. The methodology adopts a mixed-methods (qualitative-quantitative) longitudinal design, analyzing a sample of 3,000 students in the State of Rio de Janeiro between 2015 and 2024. The study formalizes the structuring of the Araujo Model of Integrated Music Education (MAEMI), exploring the epistemology of choral singing as a democratic micro-society and the use of phonographic composition as a mechanism for institutional denunciation, specifically in the fight against child labor. Longitudinal results indicate that the hybrid approach between art, digital technology, and social responsibility has led to a reduction of up to 35% in school dropout rates, directly impacting more than 10,000 students over 25 years of professional practice. It is concluded that the music educator acts as a mediator of holistic development, equipping the individual for the demands of the 21st-century creative economy.

**Keywords:** Music Education. Choral Singing. Sound Recording Production. MAEMI Model. Social Transformation.

### Abstract

Music education in the contemporary school context transcends the mere decoding of sound symbols or the technical reproduction of sheet music, taking on a structuring role in citizen formation and the socio-emotional development of students. This scientific article proposes a critical analysis of the implementation of large-scale choral practices and technological music production workshops as active strategies to mitigate social vulnerabilities and foster youth entrepreneurship. The methodology adopts a mixed design (qualitative-quantitative) of a longitudinal nature, analyzing a sample of 3,000 students in the State of Rio de Janeiro between 2015 and 2024. The study formalizes the structuring of the Araujo Model of Integrated Music Education (MAEMI), exploring the epistemology of choral singing as a democratic micro-society and the use of phonographic composition as a mechanism of institutional denunciation, specifically in the fight against children labor. Longitudinal results indicate that the hybridism between art, digital technology, and social responsibility generated a reduction of up to 35% in school dropout rates, directly impacting over 10,000 students throughout 25 years of professional activity. It is concluded that the music educator acts as a mediator of holistic development, instrumentalizing the individual for the demands of the 21st-century creative economy.

**Keywords:** Music Education. Choral Singing. Phonographic Production. MAEMI Model. Social Transformation.

## 1. Introduction

The inclusion of music in the basic education curriculum, especially in school systems.

Municipal, state, and religious affiliations have historically been marked by epistemological tensions.

profound differences exist between the strict training of performative virtuosity and the use of art as a...

A tangible instrument of cultural literacy and human emancipation. In contemporary times, under the



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insights from critical theories of education proposed by seminal theorists such as Paulo Freire and others.

Based on the active pedagogical approaches of Murray Schafer and Keith Swanwick, music education is...

irrevocably understood as a fundamental human right. It acts as a pillar.

essential for the expansion of cognition, emotional regulation, and the effective social integration of the individual.

In countries and regions marked by profound structural inequalities, as is the case in several others.

In areas of Rio de Janeiro, music classrooms and school auditoriums are no longer spaces...

isolated from elitist aesthetic enjoyment to become veritable trenches of

socio-emotional development. In these environments, guided group practice acts as a

an invaluable protective barrier against multiple vulnerabilities, including the risk of child labor,

Peripheral marginalization and school dropout.

In this context of high demands, the role of the music educator requires a polymathic profile.

combining the technical rigor of choral conducting and harmonic structuring with anthropological sensitivity and

sociological needs to engage diverse school populations, transforming sound symbols

in practical tools for institutional mobilization and active citizenship. The central problem addressed

This scientific essay, with its praxeological bias, lies in the ontological urgency of overcoming the model.

banking and archaic musical instruction — a model historically centered on mechanical repetition.

of repertoires alien to the student's sociopolitical reality — to institute, in their place, a

a robust learning ecosystem that inextricably integrates choral performance,

Modern phonographic production technology and direct community action.

The central hypothesis defended here is that, when musical creation is linked to social purposes

concrete examples, such as awareness campaigns and technological literacy programs involving real-world processes.

In recording, mixing, and mastering, the level of student engagement and retention increases.

exponentially. This approach fosters not only aesthetic and musical skills, but also...

paves the way for the development of essential entrepreneurial skills for the integration of

Young people in today's creative economy. The meticulous structuring of this article dissects this dynamic.

methodological, scientifically demonstrating that the management of large seasonal artistic productions and

The ongoing leadership of vocal groups are authentic management laboratories, where musical polyphony...

This translates into democratic pluralism.

## **2. Empirical methodology and study design**

This investigation adopts a mixed-methods research design, encompassing several aspects.

qualitative and quantitative, characterized by a longitudinal monitoring of musical practices.

applied. The study establishes a rigorous comparative analysis of educational indicators and

socio-community activities registered over a period of nine uninterrupted years, comprising the

The time frame covered was 2015 to 2024. The population sample analyzed included approximately 3,000 people.



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students, aged 7 to 17, regularly enrolled in educational institutions

linked to the municipal, state, and religious public networks of the State of Rio de Janeiro. These

Students acted as systematic and active participants in structured practice programs.

choral and phonographic production, allowing direct observation of the impacts of the applied methodology.

about their academic and personal journey.

The evaluation of the model's effectiveness was based on monitoring objective indicators.

fundamental for school management. The school dropout rate was verified through the

Direct comparison between students engaged in artistic projects and previous institutional averages.

from their respective schools. Concurrently, student attendance and punctuality were

mapped before and after their inclusion in choral and studio rehearsal practices. The impact

The quantitative aspect of cultural outreach was measured by student participation in artistic events.

large scale, considering the number of annual presentations and the size of the external audience.

achieved and the resulting level of community involvement in the area surrounding the institution.

Within the spectrum of technological and economic integration, the study quantified musical production.

actively recorded, encompassing all recorded phonograms, *Extended Plays* (EPs)

Original content and digital media content produced and released to the market by students. A

The effectiveness of the social responsibility axis was validated through fundraising metrics.

and solidarity mobilization, recording the tangible volume of donations collected — such as

Food, clothing, and toys — at benefit concerts, as well as the number of partnerships.

Institutional and governmental agreements established to promote humanitarian campaigns.

Data collection was structured through the documentary analysis of official school records.

Institutional management reports, attendance control spreadsheets, supporting documentation

of public events and formal certifications or honors granted by state bodies. The material

The collected quantitative data was subjected to a descriptive comparative analysis with a longitudinal bias.

In parallel, the qualitative data were interpreted in light of the theoretical constructs of

Lev Vygotsky's socio-interactionist theory of cognitive development and critical postulates

from the pedagogy of autonomy formulated by Paulo Freire, guaranteeing the epistemological solidity of

evaluation of the results observed in the sample.

### **3. The Araújo Model of Integrated Music Education (MAEMI)**

The empirical systematization of the pedagogical and artistic practices developed and observed.

throughout nearly three decades of continuous work in the education sector in Rio de Janeiro, it has allowed

the theoretical formulation and formal proposition of the Araujo Model of Integrated Music Education

(MAEMI). This innovative pedagogical *framework* moves away from the departmentalization of education.

of the arts and is based on the organic convergence between the excellence of artistic performance, the



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Technological literacy demanded by modernity and the generation of direct social impact.

measurable. The architected model operates from four structuring and interdependent pillars,

designed to act systemically on the student's cognition and sociopolitical reality.

enrolled in basic education.

The first pillar, called the Structured Democratic Choir, focuses its efforts on

Practical development of socio-emotional skills (*soft skills*) through rigor.

methodological approach to polyphony. Choral practice is established not only as an aesthetic activity,

but as a democratic microstructure, where systematized vocal technique training acts

as a vector of identity belonging, operating in the immediate reduction of vulnerabilities.

social issues that afflict marginalized youth. The second pillar comprises Technological Phonographic Production,

characterized by the direct integration of Digital Audio Workstations (*DAWs*) into...

school laboratory environment. This stage ensures the student's digital and acoustic literacy.

promoting a transdisciplinary integration with the sciences of wave physics and mathematics,

culminating in the autonomous creation of cultural products duly registered and mastered by

own students.

The third structuring axis is Artistic Social Mobilization, which redirects production.

The school's cultural model focuses on thematic projects aimed at defending human rights.

The use of repertoire to support civic awareness campaigns, such as reporting crimes.

fighting against child labor exploitation by establishing strong partnerships with legal entities.

such as the Labor Public Prosecutor's Office. Finally, the fourth pillar materializes in

Applied Creative Entrepreneurship, providing students with technical instruction on rights.

authorship, contemporary strategies for launching on digital platforms, and planning.

Corporate culture for event management. This phase crowns the pedagogical cycle, promoting the

Early, guided, and realistic integration of young people into the operational mechanisms of the creative economy.

The conceptual framework of MAEMI establishes a logical and continuous operational flow of

Cognitive ascension: choral singing forges collective consciousness; audio production delivers the...

technical autonomy; thematic mobilization generates social impact; and entrepreneurship ensures...

Economic sustainability of knowledge. This methodological architecture is configured as a model.

A highly replicable educational tool, possessing the scalability necessary to be adapted and implemented.

in different educational frameworks and demographic realities, consisting of a contribution

Original and applicable to the field of musicology and modern music education.



#### 4. Choral practice as an ecosystem for learning and constructing democratic subjectivity.

The practice of choral singing, when implemented with methodological rigor and pedagogical vision widely used in the school environment, it constitutes one of the most powerful and effective engineering tools for social and human development, structurally configuring itself as an authentic micro-society. According to the in-depth studies of Violeta Hemsy de Gainza (2013) on the In Latin American musical pedagogy, the choir transcends the simple sum of individual voices, emitting... Simultaneous notes; it demands from the participant a continuous, exhaustive, and refined exercise of listening. Attentiveness, synchronized breathing, and cognitive empathy. The quest for perfect harmony is not just one. a physical-acoustic phenomenon related to frequency alignment, but a complex adjustment. psychosocial and behavioral aspects where the individual learns to adjust their volume and timbre to ensure the homogeneity of the collective. This process of voluntary adaptation develops intrinsically. the most sought-after socio-emotional skills in today's job market, such as Tolerance for frustration, collaborative teamwork, and intrapersonal intelligence.

The construction and strengthening of subjectivity through the guided use of the voice are found a profound academic resonance in the socio-interactionist theory developed by Lev Vygotsky (1998), which posits the internalization of social processes as the fundamental mechanism of Formation of higher human consciousness. Within the context of the school choir, the student experiences... the concept of the Zone of Proximal Development in its most tangible form: supported Acoustically guided by colleagues in their vocal section and by the conductor's gestures, the individual he discovers he is capable of performing polyphonic pieces of rhythmic and harmonic complexity that It could never be achieved in isolation. The conductor acts as the mediator of this cognitive process. being the one who organizes the decoding of acoustic signs in the score and provides support. Pedagogical (*scaffolding*) is absolutely necessary for inexperienced voices to be transformed into a high-performance unison instrument.

The methodical repetition characteristic of choral rehearsals, far from being an alienating process, It becomes a powerful pedagogical ritual for overcoming motor and neurological limitations, where each Resolved dissonance reinforces the student's self-efficacy. The psychological impact of this practice reaches... Profound contours emerge when the repertoire is socially engaged with community issues. surrounding. The educator Hans-Joachim Koellreutter (1997) argued that music should not be taught as an untouchable object, but as a critical language that engages viscerally with the social context occupied by the student. From a strictly physiological point of view, coral management Large-scale operations require a ruthless methodology and knowledge of the anatomy of the apparatus. A phonator, ensuring vocal integrity through proper warm-up and rigorous assessment. The harmonic precision of the chords and the expressive dynamics are worked on with a demanding approach.



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Excellence that rejects complacent amateurism.

The pedagogical transition from monophony to the performance of arrangements for three or four voices. Simultaneous learning represents a gigantic qualitative leap in the neurological processing of students. This level of complexity acts directly on the brain, developing fine auditory discrimination. sustained concentration and working memory at levels of excellence, transferring in a way proven to improve student performance in the exact sciences and languages of the regular curriculum. Historically, school systems that consistently invest in music programs have reported declines. dizzyingly high rates of indiscipline and truancy. Through belonging to a formal choral group, The school is being redefined not only as a place of legal obligation, but as a space primordial to the production of culture, where class distinctions are suspended by moral rigor and by Loyalty required for high-quality performance.

### **5. Music as a mechanism for social denunciation and humanitarian mobilization.**

The recognition of a music education project in the public sphere transcends mere applause. ephemeral events in large auditoriums; it proves its real effectiveness through concrete change. behavioral paradigms that it can instill in its community. When interventions Artistic activities led by educators are structured with the intention of intervening in reality by... In this context, the school abandons its role as an isolated academic island and assumes the function of a sociological actor. and diplomatic. Murray Schafer (1992) warns that the predominant sound of an environment reflects the tensions and moral values of a society. In this sense, using musical performance to To address sensitive issues, such as the prevention of child labor exploitation, is not about... not entertainment, but a pedagogical manifesto in defense of childhood. The conversion of the laws of Social support in artistic production demands from the musical director a capacity for rigorous research. to adapt the seriousness of the topic to language suitable for children and young people.

In the cathartic moment when a youth choir sings compositions designed for To raise public awareness of children's right to education, a revolutionary dual-path approach occurs. awareness. On one hand, the students themselves internalize their rights in an indissoluble way, apprehending them neurobiologically and emotionally through the vibration of singing. On the other hand, the The target audience (comprising parents, local authorities, and businesspeople) receives the social critique. enveloped in a high level of aesthetic beauty, a rhetorical device that has the power to crumble. cognitive defenses and facilitate a deep ethical reflection that a traditional lecture never could. capable of provoking with the same capillarity. This approach transforms the stage into a court of defense of human rights, where the main argument is vocal harmony.

Formal recognition of these initiatives by rigorous state bodies, such as The Public Prosecutor's Office for Labor (MPT) and municipal legislative bodies serve as conclusive proof.



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Regarding the social utility of the methodology implemented in schools. An Honorable Mention granted by Rio de Janeiro City Council or the legitimization of a project by humanitarian agencies of International experience is not merely a qualification on a resume; it constitutes legal certification. ratified by civil society that artistic work has achieved the concreteness of social intervention. Effective. For music education in Brazil, frequently subject to budget cuts under the false pretense... Beyond a pragmatic pretext of uselessness, these honors irrefutably prove that art is a A preventative state tool, infinitely cheaper than the costs of the penal system or... Public health to address the traumas of social exclusion.

In addition to awareness campaigns, the structuring of mega artistic events, such as Christmas cantatas and reflective concerts run into logistical challenges and the need for sustainable financing. The artistic director's leadership stands out due to his diplomatic ability to mobilize multiple audiences. *stakeholders*, engaging private companies, education departments, and the community itself to To structurally subsidize the event, transforming the presentation into a massive fundraising hub. Philanthropic. The show's admission, exchanged for a direct donation of non-perishable food items, creates A formidable cycle of solidarity economy. Driven by the aesthetic capital generated by the students, This model demonstrates that music reveals itself as a humanitarian currency of extremely high value. added value, capable of generating tons of food and injecting tangible hope into areas of vulnerability, elevating the student to the status of an active citizen.

## **6. Phonographic production, technological literacy, and entrepreneurship in the school environment.**

The formidable digital revolution unleashed in recent decades has democratized Access to recording and cultural production resources is rapidly increasing, structurally altering the landscape. The paradigm of music education in schools is irreversible. British theorist Keith Swanwick (1979), In his TECLA pedagogical model, he already foresaw, in a visionary way, that original composition and the The tactile handling of sound elements was an inseparable part of a complete musical education. The physical introduction of digital recording equipment and complex audio editing software. (DAWs) in the school lab updates this model to meet the technical demands of the 21st century. Record production is no longer a financial privilege of elite studios in the commercial industry. and becomes an organic part of the curriculum, providing students with an educational bridge. A direct and technical link between analog artistic creation and global technological distribution via *streaming*.

Implementing entrepreneurial projects through music production requires that the The educator possesses a multidisciplinary technical expertise that goes beyond musicology, delving into... fields of acoustic engineering and *music business*. In this scenario of intense digital literacy, the The student ceases to occupy the position of passive consumer of audio platforms and becomes an... A person capable of understanding and manipulating the invisible acoustic architecture that makes up a phonogram.



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High-quality commercial. During the supervised workshops, students are introduced

Formally learning the principles of sound physics and clean recording, and then learning the practical application.

parametric equalization, dynamic range compressor control, and the use of processors

Spatial psychoacoustic effects like *reverb* and *delay*, transforming the computer into a vast instrument.

scientific and musical.

In this production process, school music is dissected and manipulated under the precise scrutiny of frequencies (Hertz) and sound pressure (decibels), promoting integration concrete and stimulating transdisciplinary approach combining acoustic physics and structural mathematics. In addition to Technical expertise and the intentional creation of content immerse the student in the operational workings of... contemporary creative economy. When planning and producing an *Extended Play* (EP) or a *The single*, containing original compositions focused on social engagement, challenges the class to structure... A cultural business plan with the same rigor as the formal market. Under supervision, the students They debate and internalize critical concepts about copyright, the legal framework of copyright registration. works and launch strategies on global digital platforms.

The rigorous practice of recording in a studio also constitutes a psychological exercise. Severe analytical perception, resilience, and frustration management skills. In the recording process. Once digitized, the student is immediately confronted with the raw, amplified *playback* of their own work. performance, which mercilessly reveals imprecise micro-tuning and tempo delays that They often went unnoticed in the adrenaline of live performances. This *feedback* Instant sonic transformation dramatically accelerates musical maturation and critical self-observation. of the individual. The educator guides the student through the editing and post-production journey, teaching in the The practice suggests that the excellence sought by the professional market does not stem from innate talent, but from... Methodical work, analytical refinement, and meticulous editing.

## **7. Consolidated quantitative results**

The longitudinal application of the investigated pedagogical methodology, duly formalized. under the theoretical and operational precepts of the Araujo Model of Integrated Music Education (MAEMI), has generated substantial statistical and sociodemographic evidence over more than two decades of Practical implementation. The actuarial compilation of institutional and educational records attests that The program guidelines directly impacted a contingent of over 10,000 students throughout. 25 uninterrupted years of professional experience and leadership in education departments and organizations. religious groups in the State of Rio de Janeiro. When conducting a specific sample focused on recent technological consolidation — encompassing the longitudinal period from 2015 to 2024 —, the The data reveals the systematic monitoring of a controlled sample of approximately 3,000. students actively enrolled in choir workshops and audio labs.



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Specifically regarding the effectiveness of academic retention in schools and mitigation of vulnerabilities.

Despite the severe behavioral patterns of young people in Rio de Janeiro, the methodological intervention proved its impact.

through irrefutable numbers. The analytical cross-referencing of evasion data recorded in

The secretariats demonstrated an estimated average reduction of up to 35% in the school dropout rate between the

A group of students qualified as regular and dedicated participants in the integrated music program.

Student attendance was actively driven by the engagement provided by the tools.

technological recording methods and the civic sense of belonging to polyharmonic choral groups

demanding.

In the field of aesthetic enjoyment, cultural production, and the creative economy, the implementation of

Digital recording routines and *music business* education culminated materially in effective production.

of dozens of completed phonograms and exported and consumed digital school records

actively involved in the recording industry. The external reach of this cultural mobilization materialized-

if in a cumulative audience exceeding 50,000 spectators present at the various events and

Large-scale concerts orchestrated by the project leadership. The philanthropic dimension of

The presentations have become a logistical operation with broad, supportive reach, resulting in...

historically in the effective collection of tons of food and essential supplies destined for

Populations victimized by extreme vulnerability or geological disasters in the State.

External validation of the pedagogical and legal rigor achieved by this structured initiative.

transcends the barrier of the peripheral school community and reaches the highest institutional approvals

and governmental and state regulatory frameworks. The incisive targeting of the recorded original repertoire.

to act strictly as a citizen reporting mechanism against human rights abuses.

culminated in formal technical recognition and certification of excellence awarded directly by

Prosecutors and attorneys from the Labor Public Ministry. The scope of the results.

The educational and philanthropic impacts of the method resulted in the granting of motions of

recognition and praise formally and unanimously granted by legislative bodies of

of paramount importance, including the City Council of Rio de Janeiro.

## 8. Conclusion

A detailed and analytical reflection on the profound methodological intersection between the

The practice of music education, the excellence of choral singing, the mastery of production technology.

The study of phonography and the social responsibility of educators allows us to draw structuring conclusions about...

The role of art in holistic education is clearly demonstrated and supported by the results of...

The MAEMI model and theorists such as Lev Vygotsky and Paulo Freire are what consolidated art education.

as a central curricular vector for the direct mitigation of social vulnerabilities in children and young people.

Structured music education is not limited to introducing young people to classical aesthetics, but offers a



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A vast cognitive framework of emotional resilience and identity belonging, surpassing effectiveness.

retention of purely content-based instruction systems.

The methodological analysis of polyphonic choral practice corroborates the thesis that the vocal group  
It functions as a microcosm of a democratic society. Biological necessity and precision.

The acoustic physics involved in block tuning requires the student to develop

Neurological changes in empathy and motor coordination that reconfigure social attitudes offstage. This

Active methodology, applied on a large scale, categorically proves that aesthetic virtuosity

It is accessible to all social classes, provided that access is mediated by professionals equipped with

Technical competence and anthropological sensitivity. The act of singing in a school choir rises to...

A political declaration of cooperation and triumph over peripheral ills.

Alongside this humanistic recovery, this article attested to the epistemological innovation.

brought about by the bold introduction of phonographic production tools and concepts of

Digital entrepreneurship at the heart of the basic education curriculum. The conversion of

A music laboratory in a technological studio redefines education in Brazil, empowering...

to empower school-aged youth to become autonomous producers of their own sonic and social narratives.

This technological literacy fosters leadership and shapes promising careers in a market.

The globalized creative economy. Furthermore, the management of mega artistic events attests to its strength.

The titanic power of music as a mechanism for mobilizing the masses for emergency assistance.

converting aesthetic capital into tons of resources for vulnerable populations.

The consolidation of all these methodologies described and attested by longitudinal metrics.

Grade retention is decidedly not a product of pedagogical chance, but a direct result of

Technical and artistic leadership with strict executive competence. The planning of dynamic curricula,

which integrates classical musical literacy with modern audio software, requires professionals

of rare quality, capable of navigating between academic university erudition and the raw dynamics of the field.

of school. It is concluded, categorically and irrevocably, supported by legislative motions and by

recognition from the Public Prosecutor's Office that investment in engaged music education...

It is configured as the most intelligent and secure way to foster human capital and promote social peace.

ensuring a model for the holistic transformation of a nation through art and technology.

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