e-ISSN: 2279-0837, p-ISSN: 2279-0845. www.iosrjournals.org

Distance Education In The Legal Amazon

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Abstract:

The expansion of Distance Education (DE) in the Legal Amazon represents an important advance for the democratization of higher education in a region marked by the vast territorial extension and the difficult accessibility to face-to-face educational services. This education model seeks to meet a pent-up demand from students who reside in isolated areas, offering a solution that circumvents geographical limitations and promotes inclusion. This article explores the expansion of Distance Education (DE) in Brazil's Legal Amazon, where educational provision faces socioeconomic and geographic barriers that make face-to-face access more challenging. This study reviews the literature on distance education in the region, analyzes the impact of public policies and discusses how Information and Communication Technologies (ICT) play a central role in the democratization of education.

Keyword: Distance Education; Digital Inclusion; Information and Communication Technologies (ICT); Democratization of Education.

Date of Submission: 01-11-2024 Date of Acceptance: 11-11-2024

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I. Introduction

Distance education, driven by the advancement of ICTs and the development of Virtual Learning Environments (VLE), has proven to be a powerful strategy for the democratization of education in Brazil. The Legal Amazon region, characterized by its vast territorial extension and great infrastructure challenges, has adopted distance education as a means of bringing higher education to isolated and needy communities. Access to the internet and technological devices, essential for distance education, is still limited, creating a scenario that challenges the effectiveness and scope of online teaching. Thus, exploring the strategies and impacts of distance education in the Legal Amazon is essential to understand its transformative role and the challenges to be overcome.

The expansion of distance education has accelerated in Brazil, especially since the 2000s, when public policies such as the Open University System of Brazil (UAB) began to encourage the dissemination of higher education. This expansion is supported by the recognition that the intensive use of ICTs facilitates the provision of courses to students far from urban centers and allows for hybrid teaching with a flexible teaching infrastructure (Marchelli 2010).

However, digital infrastructure and internet coverage in the Legal Amazon region are still limited, making it difficult to access online content and reducing the effectiveness of digital learning tools (Hermida, Bonfim 2006). In many cases, digital inclusion policies have faced socioeconomic barriers that make it difficult to obtain the equipment and connectivity necessary for distance education to develop fully in the region (Cavalcanti, Strozzi 2008).

The implementation of quality distance education programs requires not only access to technology, but also methodologies that adapt to local realities. According to research, the concept of quality in distance education

is often linked to the guarantee of excellence in content, teaching materials and evaluation methods (Abbad, Zerbini, Souza 2010). However, educational quality also involves social and political factors, and distance education in the Legal Amazon region needs to be contextualized to consider the cultural diversity and specific socioeconomic contexts of students.

Studies show that distance education can be an inclusive and transformative agent, if the issues of access and teacher training are aligned with regional realities (Dos Santos Paulo, 2024). The inclusion of context-sensitive pedagogical practices adapted to the specificities of the Legal Amazon is essential for teaching to be meaningful and relevant for students. Thus, the objective of the present study is to present an overview of distance education in Legal Amazon.

II. Material And Methods

This study consists of a bibliographic review of the literature on Distance Education in the Legal Amazon region of Brazil. Academic articles and reliable sources of recent publications were selected, with the objective of compiling information on the implementation, challenges and advances of distance education in the regional context. The survey used the SciELO databases, Google Scholar and the CAPES Journal Portal, and included reference works on ICTs, digital inclusion policies and case studies on distance education programs. In addition, statistical data were searched on government websites to elucidate the expansion and coverage of the internet and infrastructure, as well as the presence of distance education centers in the Legal Amazon of Brazil.

III. Result And Discussion

In describing the landscape of Distance Education in Brazil following the enactment of the Education Guidelines and Framework Law (9.394/96), a rapid expansion of this educational modality in higher education was observed across all fields between 2000 and 2008. This growth is reflected both in the number of courses offered, which increased from 10 to 647, and, most notably, in the availability of seats, which rose from 6,430 to 1,699,489.

The review of the studies shows that Distance Education in the Northern region of Brazil faces significant barriers, with emphasis on insufficient infrastructure and precarious digital connectivity. Although internet coverage has improved in recent decades, it is still insufficient to meet the requirements of distance education courses, especially in rural areas and indigenous communities (Hermida, Bonfim, 2006). The poor quality of the connection and the absence of high-speed internet in many regions make it difficult for students to access digital content and compromise participation in synchronous and asynchronous activities, which severely limits the effectiveness of the distance learning model in remote and isolated regions.

In addition to technological limitations, the educational infrastructure of the North region also faces obstacles related to logistics and the physical structure of the support centers. The Open University System of Brazil (UAB), created by the government as an initiative to expand access to higher education through distance education centers in strategic municipalities, stands out as one of the main instruments to facilitate distance learning in the region. However, the effectiveness of this system is reduced in areas of difficult access and high socioeconomic vulnerability, where students face considerable logistical barriers. These obstacles include high travel costs, transportation difficulties and the scarcity of basic infrastructure, such as roads and regular means of transportation, which ends up restricting students' attendance at distance education centers (Cavalcanti, Strozzi, 2008). Consequently, teaching becomes fragmented, and the continuity and quality of student learning end up being impaired.

Another relevant factor for the quality of distance education in the North of Brazil is the training of teachers for the proper use of Information and Communication Technologies (ICTs). Studies indicate that teacher training specifically focused on digital teaching is essential for distance learning methodologies to be applied effectively and relevant to the students' context. However, the qualification of teachers in the region is still insufficient to meet local demand and needs (Abbad, Zerbini, Souza, 2010). The absence of specific preparation for teaching mediated by digital technologies is reflected in pedagogical practices that are often inappropriate to the context and cultural reality of the region, which compromises student engagement, as well as the practical applicability of the contents. This scenario is even more challenging in areas where there is great ethnic and cultural diversity, which requires teachers to have additional skills to adapt the pedagogical content to the students' reality, respecting the cultural specificities of the Amazonian communities.

ICTs, in addition to being fundamental tools for distance education, have the potential to transform the learning experience and make it more interactive and dynamic. However, the lack of investments in digital infrastructure and the restriction in access to technologies substantially limit the applicability of ICTs in distance education in the North of Brazil. According to Passero, Engster, and Dazzi (2016), insufficient connectivity prevents the use of advanced educational resources, such as interactive videos, live conferences, and other synchronous tools, which are essential for a robust and engaging learning experience. Without these resources, distance learning takes on a more passive and limiting form, forcing students to rely on printed materials and other

traditional methods that do not encourage interaction and engagement. This limitation also hinders the creation of virtual learning communities, in which students can collaborate and exchange experiences, essential for an education that aims at the integral development and critical formation of the student.

Finally, it is important to highlight that the distance learning model for Legal Amazon requires an approach that goes beyond the simple provision of online courses. To be effective, this model must consider the particularities of the region, such as the cultural and linguistic needs of local communities, the lack of access to basic technologies, and the socioeconomic conditions of students. Thus, it is essential that public policies prioritize investments in connectivity infrastructure and support teacher training initiatives, in addition to encouraging the production of educational materials adapted to the Amazonian reality. The integration of these measures is essential for distance education to consolidate itself as an inclusive and transformative tool, capable of overcoming the geographical and social barriers that historically hinder access to education in the northern region of Brazil.

Observe that, regardless of the mode of education, students tend to prefer completing their studies at a federal public institution of higher education. This preference is often linked to the perceived value of a diploma from such an institution, as it typically influences the graduate's acceptance in the job market. Therefore, whenever possible, students choose a program endorsed by an institution recognized by society.

The preference for the endorsement of a federal public university reflects Almeida (2010) perspective, which suggests that differentiation lies in encouraging the target audience, for the most part, to perceive the service as "special," with brand image and provider know-how as some of its key attributes. This can become a determining factor in a student's decision on whether to substitute an in-person degree program with the same program offered through Distance Education.

IV. Conclusion

Distance Education presents itself as a promising solution to democratize access to higher education in the Legal Amazon of Brazil. However, the effective expansion and reach of distance education depend on investments in connectivity infrastructure and policies to encourage digital inclusion, which are essential to overcome technological limitations. In addition, the training of teachers and the creation of methodologies adapted to regional needs and realities are essential for distance education to have a positive and lasting impact. Therefore, while distance education has the potential to transform education in the Legal Amazon, its effectiveness is intrinsically linked to overcoming the region's specific technological and social challenges.

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