

## Commentary

# Sustainable progress: Art-tech and inclusive education transforming virtual learning for equity and long-term impact

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**Abstract:** Sustainable inclusive education and art technology allow for better development for both the students and the educational community. This new approach integrates art education with technology education. There are five preliminary approaches to deepen Sustainable Social Development and Information and Communications Technologies. It represents a novel theory of sustainable development within inclusive education, leveraging art technology and art education to address significant challenges and drive transformation.

Keywords: art technology; inclusive education; technology education; sustainability theory

# 1. Introduction

Is it possible to develop a sustainable inclusive education model that integrates art and technology within virtual environments, ensuring the quality of students and their educational communities? The future of society hinges on nurturing responsible citizens who prioritize the well-being of children and youth, thereby contributing significantly to the state's development [1]. There are new educational forms to create and support complementary activities, both for technology education and art education, to transform social virtuality [2].

Integration of Sustainable Social Development (SSD) [3,4] and Information and Communications Technologies (ICT) [5], coupled with the incorporation of educational and art technology, aims to foster innovative approaches benefiting both social development and educational/artistic endeavors.

## 2. New focus

The SSD approach to inclusive education and art technology is important for several reasons, including social, cultural, and economic aspects. In some basic points, they are:

- 1) Social equity: inclusive education and the arts provide opportunities to address social and economic inequalities [6,7]. Inclusive education guarantees that everyone, regardless of their circumstances, has access to quality educational opportunities [8,9]. Media art, for its part, can be a powerful tool to give voice to marginalized communities [10–12].
- 2) Diversity and Tolerance: Inclusive education promotes understanding and acceptance of diversity [13,14]. Through a curriculum that reflects diverse perspectives and experiences, tolerance and mutual respect are fostered [15–17]. Art technology can also play a crucial role in representing and celebrating cultural diversity [18–21].
- 3) Comprehensive Human Development: Education and media art contribute to

integral human development. Education is not limited to the acquisition of knowledge but also encompasses the development of social and emotional skills [22–24]. Art, when combined with ICT and SSD, can inspire creativity and personal expression [25]. This contributes to the emotional and mental well-being of students and, of course, the entire educational community [26].

- 4) Long-Term Sustainability: Inclusive education and art technology contribute to building more sustainable societies in the long term [27]. By creating in education and artistic expression, it strengthens the basis for SSD and ICT. This empowers people to address future challenges in an informed and creative manner [28].
- 5) Social cohesion: Both inclusive education and art technology can play a vital role in building cohesive communities. Education promotes active participation in society through SSD [29,30]. Art technology serves to bring together students, teachers, and educational communities through creative expression and cultural participation.

This concept implies the interconnection of economic, social, and environmental dimensions to achieve equitable and long-term progress.

This scheme is centered around ICT and SSD and linked to "Social Equity", "Diversity and Tolerance", "Comprehensive Human Development", "Social Cohesion", and "Long-Term Sustainability" (see **Figure 1**). Additionally, a specific branch focuses on sustainability in inclusive education within virtual environments, integrating art and technology. This branch further extends to considerations of both student quality and the quality of educational communities. The emphasis lies in adopting a holistic approach to uphold high standards both for the individuals and for the community within the virtual educational setting.

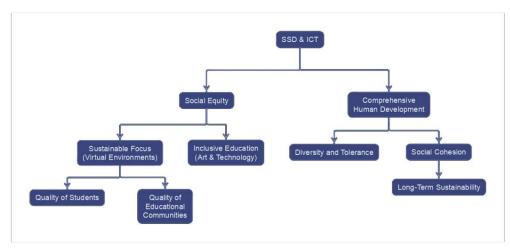


Figure 1. SSD & ICT Scheme (Source: original).

In the realm of ICT and SSD, our focus extends across key dimensions. Central to our approach is the promotion of "Social Equity", fostering "Diversity and Tolerance", and nurturing "Comprehensive Human Development". This interconnected framework also addresses the crucial elements of "Social Cohesion" and "Long-Term Sustainability." Additionally, we are dedicated to pioneering a sustainable focus on inclusive education within virtual environments, seamlessly integrating art and technology. This commitment aims not only to ensure the quality

of students but also to enhance the overall quality of educational communities, fostering a holistic and enduring impact.

## 3. Conclusion

There is no new theory of sustainable development in inclusive education on the incorporation of art technology and art education to transform the big challenges. Quite complex to develop sustainability to guarantee the equality of the school and the use of fundamental rights for students with different situations of daily life.

Under certain fundamental conditions, the issue of virtuality and long-term sustainability within the educational, technological, artistic, and creative systems ceases to exist through novel decision-making approaches at the societal level.

Conflict of interest: The author declares no conflict of interest.

# References

- Akbarovna AS. Inclusive education and its essence. International Journal of Social Science & Interdisciplinary Research. 2022; 11(1): 248-254.
- 2. Bernaschina D. Social pedagogy and media arts: innovative proposal for inclusive schooling (Spanish). Alteridad. 2023; 18(2): 164-176. doi: 10.17163/alt.v18n2.2023.01
- 3. Fedulova I, Ivanova V, Atyukova O, Nosov V. Inclusive education as a basis for sustainable development of society. Journal of Social Studies Education Research. 2019; 10(3): 118-135.
- 4. Lo LNK. The sustainable development of inclusive education. Chinese Education & Society. 2007; 40(4): 44-62. doi: 10.2753/ced1061-1932400404
- 5. Pegalajar Palomino M del C. Information and communication technologies and inclusive teaching: perceptions and attitudes of future early childhood and primary education teachers. Problems of Education in the 21st Century. 2018; 76(3): 380-392. doi: 10.33225/pec/18.76.380
- 6. Mezzanotte C. The social and Economic Rationale of Inclusive Education: An Overview of the Outcomes in Education for Diverse Groups of Students. Organisation for Economic Co-operation and Development; 2022. doi: 10.1787/bff7a85d-en
- 7. Rambla X, Langthaler M. The SDGs and inclusive education for all: From special education to addressing social inequalities. Available online: https://www.econstor.eu/bitstream/10419/142739/1/861882016.pdf (accessed on 2 May 2024).
- 8. Walton E, Carrington S, Saggers B, et al. What matters in learning communities for inclusive education: a cross-case analysis. Professional Development in Education. 2019; 48(1): 134-148. doi: 10.1080/19415257.2019.1689525
- 9. Jokinen M. Inclusive education—a sustainable approach? American annals of the deaf. 2018; 163(1): 70-77. doi: 10.1353/aad.2018.0012
- 10. Bernaschina D. Screen video art: A new experimental proposal for creative study. Art Vision. 2023; 29(51): 170-177. doi: 10.5152/artvis.2023.23202
- 11. Hidalgo L. Augmented Fotonovelas: Creating new media as pedagogical and social justice tools. Qualitative Inquiry: QI: 2015; 21(3): 300-314. doi: 10.1177/1077800414557831
- 12. Shank M, Schirch L. Strategic arts-based peacebuilding. Peace & Change. 2008; 33(2): 217-242. doi: 10.1111/j.1468-0130.2008.00490.x
- 13. Vavik T, Keitsch MM. Exploring relationships between universal design and social sustainable development: some methodological aspects to the debate on the sciences of sustainability. Sustainable Development. 2010; 18(5): 295-305. doi: 10.1002/sd.480
- 14. Gherardi SA. Unfinished Bridges over the Digital Divide: A Case Study in Technology and Inclusive Education [PhD thesis]. University of Illinois at Chicago; 2016.
- 15. Kapadekar M. Social Skills in an Inclusive Classroom [Master's thesis]. California State University; 2013.
- 16. Scamardella F, Saraiello E, Tafuri F. Gamification as a means to improve teaching/learning process. Sustainable Social Development. 2023; 1(2). doi: 10.54517/ssd.v1i2.2254

- 17. Sims PA, Huang X, Niles J. Curriculum Design for Transformative Enterprise Education within the Context of Strategic Sustainable Development [Master's thesis]. Blekinge Institute of Technology; 2017.
- 18. Hill LA, Brandeau G, Truelove E, Lineback K. Collective Genius: The Art and Practice of Leading Innovation. Harvard Business Review Press; 2014.
- 19. Llamazares de Prado JE, Arias Gago AR. Technology and education as elements in museum cultural inclusion. Education and Urban Society. 2021; 55(2): 238-258. doi: 10.1177/00131245211004576
- 20. Fürsich E. Media and the representation of Others. International Social Science Journal. 2010; 61(199): 113-130. doi:10.1111/j.1468-2451.2010.01751.x
- 21. Azmat F, Fujimoto Y, Rentschler R. Exploring cultural inclusion: Perspectives from a community arts organisation. Australian Journal of Management. 2015; 40(2): 375-396. doi: 10.1177/0312896214525180
- 22. Elias MJ, Zins J, Weissberg RP. Promoting Social and Emotional Learning: Guidelines for educators. Ascd; 1997.
- 23. Gu CC, Gomes T, Brizuela VS. Technical and Vocational Education and Training in Support of Strategic Sustainable Development [Master's thesis]. Blekinge Institute of Technology; 2011.
- 24. Ioannidi V, Malafantis KD. Inclusive Education and inclusive school development: a key-area for sustainability and teacher skills. European Journal of Social Sciences Studies. 2022; 8(1). doi: 10.46827/ejsss.v8i1.1335
- 25. d'Orville H. The relationship between sustainability and creativity. Cadmus. 2019; 4(1): 65-73.
- 26. Zins JE, Elias MJ. Social and Emotional Learning: Promoting the Development of All Students. Journal of Educational and Psychological Consultation. 2007; 17(2-3): 233-255. doi: 10.1080/10474410701413152
- 27. Sclater M. Beneath our eyes: an exploration of the relationship between technology enhanced learning and socio-ecological sustainability in art and design higher education. International Journal of Art & Design Education. 2016; 35(3): 296-306. doi: 10.1111/jade.12125
- 28. Vavik T, Keitsch MM. Exploring relationships between universal design and social sustainable development: some methodological aspects to the debate on the sciences of sustainability. Sustainable Development. 2010; 18(5): 295-305. doi: 10.1002/sd.480
- 29. Tafuri F, Saraiello E, Maietta MC. Technology to support sustainable education in physical education. Sustainable Social Development. 2023; 1(1). doi: 10.54517/ssd.v1i1.2194
- 30. Llamazares de Prado JE, Arias Gago AR. technology and education as elements in museum cultural inclusion. Education and Urban Society. 2021; 55(2): 238-258. doi: 10.1177/00131245211004576