



**Proceedings of the 2nd International Conference
of the Journal Scuola Democratica
REINVENTING EDUCATION**

VOLUME II

**Learning with New Technologies,
Equality and Inclusion**

ASSOCIAZIONE "PER SCUOLA DEMOCRATICA"

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Via Francesco Satolli, 30 – 00165 - Rome, Italy

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The Times They Are A-Changin' What is Meant by Reinventing Education in the Digital Era? 8

TOWARDS INNOVATIVE AND CREATIVE USE OF PARTICIPATORY PLATFORMS. RESEARCH EXPERIENCES PROMOTED BY FONDAZIONE REGGIO CHILDREN <i>Maria Barbara Donnici, Lorenzo Manera, Elèna Sofia Paoli and Ilaria Cavallini</i>	9
THE FINNISH EDUCATIONAL COMMUNITY AT THE TIME OF COVID-19, PERCEPTIONS AND EXPERIENCES <i>Eleonora Mattarelli</i>	19
HOW TO IMPROVE VISUAL-SPATIAL SKILLS THROUGH A DIGITAL ENHANCEMENT PROGRAM <i>Sergio Miranda and Rosa Vegliante</i>	31
TRAINING DIGITAL COMPETENCE OF FUTURE TEACHERS: THE eTWINNING TEACHER TRAINING INSTITUTES PROJECT <i>Maria Sammarro</i>	47
THROUGH THE SCREEN: REFLECTIONS ON ONLINE TRAINING EXPERIENCE ABOUT DIDACTIC AND ASSESSMENT USE OF BOARDGAMES <i>Liliana Silva</i>	61
DIGITAL COMPETENCE SELF-ASSESSMENT IN FUTURE PRIMARY EDUCATION TEACHERS <i>Rosanna Tammaro, Concetta Ferrantino and Iolanda Sara Iannotta</i>	75
«EMERGENCY REMOTE TEACHING» IN ITALY AND NORWAY: EMPIRICAL RESEARCH FINDINGS AND IMPLICATIONS FOR TEACHER TRAINING <i>Silvia Zanazzi and Cathrine Edelhard Tømte</i>	91

Digital Education Design. Evaluation Approaches, Tools and Techniques 110

TEACHING THROUGH MOTION DESIGN AND TRANSMEDIA STORYTELLING. AN INTEGRATED APPROACH TO A CRITICAL EVALUATION <i>Valentina Faloni, Vincenzo Maselli and Giulia Panadis</i>	111
CREATING MEANINGFUL LEARNING PATHS WITH THE USE OF TECHNOLOGY <i>Jessica Niewint-Gori, Alessia Rosa, Daniela Bagattini and Sara Mori</i>	125
THE WHATSAPP CARES YOU <i>Gisella Rossini and Valentina Concia</i>	139
BEYOND THE CLICK. THE (POTENTIAL) CONTRIBUTION OF PLUG-INS IN THE EDUCATIONAL DESIGN OF ONLINE COURSES <i>Luca Ferrari and Stefano D'Ambrosio</i>	149
SMART EDUCATION THROUGH ARTIFICIAL INTELLIGENCE <i>Matthew Montebello</i>	161
A TRAINING PROJECT FOR TEACHERS THROUGH THE CREATION OF A COMMUNITY OF PRACTICES. THE CASE STUDY OF A SCHOOL IN ROME <i>Elisa Amato, Rosanna Labalestra, Antonietta Larocca and Patrizia Zucchetta</i>	173
WHAT THE HELL DO I DO WITH THE MOON? A DIACHRONIC LEARNING PATH OF READING AND INTERPRETATION, BETWEEN LITERATURE, ART AND SCIENCE <i>Caterina Inesi</i>	185
DISTANCE COLLABORATIVE WRITING BY FOLDING ORIGAMI <i>Filomena Taverniti</i>	195
SAY IT, DO IT, LEARN IT! DIGITAL EDUCATION AT THE MUSEUM: A THEORETICAL REFLECTION TOWARDS A REVIEW OF THE STUDIES ON THE APPLICATION OF DIGITAL TECHNOLOGIES IN MUSEUM EDUCATION <i>Patrizio Pastore</i>	205

Reinventing the Digital Literacy of Teachers After COVID-19 Pandemic 222

EFFECT OF ONLINE TRAINING ON TEACHERS' TECHNOLOGICAL KNOWLEDGE. THE CONCEPT OF E-LEARNING <i>Giovanni Ganino, Laura Sara Agrati and Ines Tedesco</i>	223
RETHINKING SCHOOL-FAMILY COMMUNICATION AFTER PANDEMIC: NEW PROTOCOLS, COMPETENCES, AND ALLIANCES? <i>Elena Pacetti, Alessandro Soriani and Manuela Fabbri</i>	237

SCHOOL AND PANDEMIC. FOR A DIGITAL LITERACY OF TEACHERS IN THE INCOMING TRAINING <i>Maria Grazia Simone</i>	253
A STUDY OF «MISSION HUNDRED PERCENT» SUCCESS FOR SECONDARY SCHOOL STUDENTS THROUGH SELF-DEVELOPED STANDARDISED DIGITAL MODULES IN INDIA <i>Balwant Singh, Balwinder Kaur and Jaspal Singh</i>	263

Active Learning in Classes. Analysis of Technology-Enhanced Feedback in School and University Contexts 278

THE USE OF DATA FOR THE EDUCATIONAL SUCCESS OF STUDENTS IN ONLINE UNIVERSITIES <i>Giorgio Cecchi, Paola Nencioni, Chiara Giunti and Sara Mori</i>	279
‘CLASSI IN RETE’. RETHINKING EDUCATION IN SMALL SCHOOLS. AN EXPERIMENTAL RESEARCH IN ABRUZZO <i>Giuseppina Rita Jose Mangione, Michelle Pieri, Stefano Cacciamani and Anna Tancredi</i>	293

Learning Ecologies. Educational Methodologies in the Relationship with The Space-Time of Learning 304

RETHINKING THE SPACE-TIME OF LEARNING: A TRANSFORMATIVE AND DEMOCRATIC OPPORTUNITY FOR EDUCATION SYSTEMS IN A TIME OF PANDEMIC <i>Francesco Bearzi and Daniele Rodolico</i>	305
DIGITAL CITIZENSHIP: REFLECTIONS ON SPACE AND TIME <i>Chiara Cavarra</i>	319
SPACE-TIME VARIABLE IN THE TEACHING-LEARNING PROCESS: TECHNOLOGY AFFORDANCES FOR THE EDUCATIONAL/DIDACTICAL RELATION <i>Laura Fedeli</i>	329
THE DEVELOPMENT OF COMPETENCE IN USING POTENTIAL LEARNING ENVIRONMENTS FOR MASTER'S STUDENTS IN EDUCATION <i>Julija Kubova-Semaka and Palmira Jucevičienė</i>	339
CLASSROOM MANAGEMENT IN SPACE-TIME AUGMENTED BY TECHNOLOGY: TEACHING/LEARNING, BLENDED LEARNING, E-LEARNING <i>Paola Lisimberti</i>	353
NEUROSCIENCE FOR DIDACTIC CONTINUITY: REFLECTING ON TEACHING PRACTICES TO IMPROVE EDUCATIONAL SUCCESS OF STUDENTS <i>Sara Mori, Silvia Panzavolta and Alessia Rosa</i>	369
THE MENTAL EXPERIMENT AS A RESOURCE FOR SCHOOL LEARNING <i>Marco Piccinno</i>	383
REINVENTING ADULT EDUCATION IN PRISON AT THE TIME OF COVID-19: EQUITY, INCLUSION, NEW PERSPECTIVES <i>Francesca De Vitis</i>	397
EDUCATING IN TIME OF GLOBAL PANDEMIC: PEDAGOGICAL CONSULTANCY AS A RESPONSE TO EDUCATIONAL DISTRESS <i>Maria Benedetta Gambacorti-Passerini and Alessandro Ferrante</i>	407
EDUCATIONAL POVERTY IN EUROPE: MIXING EDUCATION AS CERTIFICATION AND AS COMPETENCIES AMONG YOUTH AND ADULT POPULATION <i>Luca Salmieri, Orazio Giancola and Simona Colarusso</i>	419
EDUCATIONAL EXCLUSION DURING THE COVID-19 PANDEMIC: SOCIAL INEQUALITY VIS-À- VIS UNIVERSITY CREDENTIALISM <i>António Raúl Siteo</i>	433

Young People of Foreign Origin and Educational Failures: Key-roles and Actions to Contain Dropout's Risk and Promote Inclusion 448

YOUNG FOREIGNERS AND EARLY SCHOOL LEAVERS: PROPOSALS FOR INTERVENTION THROUGH CHORAL SINGING AND READING ALOUD <i>Vanessa Candela and Damiano Periccioli</i>	449
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BETWEEN SOCIAL CLASSES AND MIGRANT BACKGROUND. SCHOOL INTEGRATION AND ATTAINMENT OF IMMIGRANTS' OFFSPRING IN UPPER SECONDARY EDUCATION IN ITALY (2015-2019)	
<i>Gabriella D'Ambrosio and Pasquale di Padova</i>	459
SOCIAL INCLUSION AND EDUCATIONAL SUCCESS: THE ROLE OF SCHOOL IN THE ENHANCEMENT OF THE EXPERIENCES OF STUDENTS WITH MIGRATORY BACKGROUND	
<i>Giada Prisco and Clara Silva</i>	471
INCLUSION, WELLBEING, SHARING: STORYTELLING AND LISTENING IN A CIRCLE. HOW TO BUILD INCLUSION IN A CLASSROOM SETTING	
<i>Greta Bellando</i>	481
THE EDUCATIONAL CHOICES OF ADOPTED STUDENTS	
<i>Monya Ferritti, Anna Guerrieri and Luca Mattei</i>	493
TEACHERS' PERCEPTION OF SOCIO-CULTURAL BELONGING IN ADOPTED PUPILS	
<i>Eleonora Scalzo, Concetta Panarello and Leonardo Luzzatto</i>	503
SCHOOL-FAMILY CO-RESPONSIBILITY. GOOD PRACTICES FROM TRAINING COURSES PROMOTED BY AN ASSOCIATION OF ADOPTIVE FAMILIES	
<i>Alessia Tabacchi</i>	515
OLD HABITS DIE HARD? SCHOOL GUIDANCE INTERVENTIONS AND THE PERSISTENCE OF INEQUALITIES	
<i>Camilla Borgna, Dalit Contini, Stella Pinna Pintor, Roberta Ricucci and Nathalie Vigna</i>	529
DESPITE THE BEST INTENTIONS. EDUCATIONAL INEQUALITIES IN HIGHLY STRATIFIED BUT CHOICE-DRIVEN TRACKING SYSTEMS	
<i>Camilla Borgna and Dalit Contini</i>	545
PRE-COVID-19 CAREER GUIDANCE ACTIVITIES IN MIDDLE AND SECONDARY SCHOOLS OF TRENTINO: A STUDY ABOUT COLLABORATION NETWORKS AND SCHOOLS' PRACTICES	
<i>Paola Menapace</i>	559
GENDER SEGREGATION IN SECONDARY EDUCATION: THE ROLE OF TEACHERS' SCHOOL GUIDANCE	
<i>Giulietta Zanga</i>	571

The Disability Studies Approach in the Analysis of Educational Inequalities and in the Structuring of Contrasting Measures **584**

LIVED EXPERIENCE OF EDUCATION AND RELATIONSHIPS FOR ITALIAN ADOLESCENTS WITH DYSLEXIA DURING ONE YEAR COVID-19 PANDEMIC	
<i>Giulia Lampugnani</i>	585
DISABILITY STUDIES PERSPECTIVES ON MUSIC THERAPY AND AUTISM SPECTRUM DISORDERS. REVIEWING APPROACH AND OUTCOMES	
<i>Matteo Maienza</i>	597
UNIVERSAL DESIGN FOR LEARNING IN NORWAY: A HUMAN RIGHTS APPROACH TO PROMOTING INCLUSIVE EDUCATION	
<i>Cristina Paupini and G. Anthony Giannoumis</i>	607
INTEGRATION/INCLUSION. WHAT CONCEPTUAL MODEL IN THE DOCUMENTATION PRODUCED BY THE SCHOOLS?	
<i>Marianna Piccioli</i>	617
HIDDEN EPISTEMOLOGIES. THE CONSTRUCTION OF THE VULNERABLE SUBJECT IN THE ITALIAN EDUCATIONAL IMAGINARY. A GROUNDED APPROACH WITHIN THE DISABILITY STUDIES PERSPECTIVE	
<i>Alberto Quagliata, Michela Baldini, Lavinia Bianchi, Giovanni Castagno, Ines Guerini and Fabiola Scollo</i>	633
MISPERCEPTIONS IN THE SOCIAL CONSTRUCTION OF THE DISABLED BODY. A RESEARCH IN THE PERSPECTIVE OF DISABILITY STUDIES	
<i>Alessandra Maria Straniero, Gianmarco Bonavolontà, Valentina Domenici and Fabio Bocci</i>	647

Inclusive Science Education with and for Society **658**

CO-CONSTRUCTING AND SHARING STEAM KNOWLEDGE THROUGH A CULTURALLY RELEVANT LITERACY-BASED EARLY CHILDHOOD SCHOOL-UNIVERSITY PARTNERSHIP	
<i>Lori Caudle, Frances K. Harper, Margaret Quinn and Darelene Greene</i>	659
EDUCATIONAL ROBOTICS AND ADOLESCENTS FROM DISADVANTAGED CONTEXTS. A RESEARCH PATH ON COMMUNICATIVE MEDIATION	

<i>Valeria Cotza and Monica Roncen</i>	671
CHILDREN AND THE LIVINGS. INCLUSIVE EXPERIENCES IN ECEC	
<i>Antonella Pezzotti and Petar Vasilev Lefterov</i>	685
SCIENCE DISCIPLINES AND SCHOOL FOR ALL, A CHALLENGE	
<i>Matteo Schianchi and Roberta Garbo</i>	697
READING NARRATIVE FICTION SHAPES SOCIAL COGNITION	
<i>Emanuele Castano</i>	707
READING IN BIOGRAPHIES: REINVENTING LIFE THROUGH LITERATURE	
<i>Daniele Garritano</i>	715
READING ALOUD AS A TOOL FOR INCLUSION	
<i>Valerio Luperini and Benedetta D'Autilia</i>	721
READING ALOUD AND ITS EFFECTS ON CLASSROOM CLIMATE AND INCLUSIVITY	
<i>Renata Martinčić and Eliana Bucchi</i>	735
EARLY READING PROMOTION: DIFFICULTIES AND CHANCES	
<i>M. Elena Scotti</i>	749

Schools as a Potential Source of Inequalities Reproduction: How, Where and Why? 760

SOCIETAL COMMITMENT TO DEVELOP PEOPLE'S POTENTIAL: THE ITALIAN CASE	
<i>Chiara Cavarra</i>	761
READING PRACTICES AND 'INSTITUTIONAL HABITUS'. PILOT RESEARCH ON 19 TO 20-YEAR-OLD <i>LICEO</i> GRADUATES	
<i>Elena Gremigni</i>	773
HELPING MY ROMANI PUPILS ALSO WHEN THEY DO NOT NEED IT. A RESEARCH ON TEACHERS' BENEVOLENT OVER-HELPING	
<i>Alessia Mastropietro and Giovanna Leone</i>	787
DROPPING OUT, GETTING POOR? EARLY-SCHOOL LEAVERS AND ECONOMICAL ENTRAPMENTS	
<i>Orazio Giancola and Luca Salmieri</i>	797
ACHIEVEMENT, GIFTEDNESS AND INCLUSION: ANALYSES AND PERSPECTIVES REGARDING INEQUALITY	
<i>Simone Seitz, Michaela Kaiser, Petra Auer and Rosa Bellacicco</i>	811
CHALLENGES FOR THE BRAZILIAN EDUCATIONAL SYSTEM: BETWEEN SCHOOL INCLUSION AND SOCIAL INEQUALITY	
<i>Antônio Raúl Siteo and Carlos Alberto Leite da Silva</i>	823
DIDACTICS OF LAW AND GENDER-BASED HATE SPEECH	
<i>Annalisa Verza</i>	835

The Impact of the Anti-Gender Movement on Educational Contexts: Resistance, Resilience and Redefinition 848

SEXTING: MINISKIRT IN CYBERBULLISM? A DIFFERENT WAY TO PREVENT AND COMBAT GENDER-BASED VIOLENCE AT SCHOOL	
<i>Elisa Maurizi and Daniela Bagattini</i>	849
CAN DEBATING GENDER VIOLENCE BE 'A BOY THING'? ROLE-DISTANCE STRATEGIES AND MASCULINE PERFORMANCES IN A SCHOOL SETTING	
<i>Paolo Gusmeroli</i>	861

The Academic Work in Neoliberal Times: Exploring Gender, Precarity and Emerging Forms of Solidarity 872

ACADEMIC WORK DURING THE COVID-19 PANDEMIC IN ITALY. STRUCTURAL FACTORS AND THE REDEFINITION OF SPATIAL, TIME AND RELATIONAL BOUNDARIES	
<i>Annalisa Dordoni and Anna Carreri</i>	873
PHD RESEARCHERS ENGAGING WITH ACADEMIA: FOUR GENERATIVE METAPHORS	
<i>Cecilia Ficcadenti and Leonardo Piromalli</i>	887
BETWEEN AND BETWIXT: EXPERIENCES OF ACADEMIC PRECARIETY AND RESISTANCE DURING COVID-19 PANDEMIC	
<i>Lito Tsitsou and Claire Sedgwick</i>	897

WATCHING PORNHUB: GENDER STEREOTYPES IN THE REPRESENTATION OF PORNOGRAPHY CONSUMPTION <i>Antonia Cava</i>	909
GENDER ISSUES AS A POLITICAL RESOURCE: REFLECTIONS ABOUT THE REPRESENTATION OF WOMEN, STEREOTYPES AND GENDER-BASED VIOLENCE <i>Fabio Mostaccio and Milena Meo</i>	917
'UNA SUPER MADRE AL PODER'. REPRESENTATION AND POSITIONING OF A WOMAN POLITICAL LEADER IN THE BOLIVIAN CASE OF THE EX-PRESIDENT JEANINE AÑEZ <i>Antonella Cammarota and Valentina Raffa</i>	927
FROM FACE-TO-FACE TO ONLINE INTERVIEWS: AN EXPERIENCE DESCRIPTION ON UNIVERSITY MALE AND FEMALE STUDENTS <i>Lisa Brambilla, Brunella Fiore, Silvia Luraschi and Laura Zampini</i>	939
BEING MOTHERS IN THE TIME OF COVID-19 PANDEMIC. REFLECTIONS AND PEDAGOGICAL IMPLICATIONS <i>Valentina Guerrini</i>	951
FEMALE WORKFORCE IN THE RETAIL SECTOR: WELFARE POLICIES AND COLLECTIVE BARGAINING PERSPECTIVE <i>Arianna Marcolin and Beatrice Bianconi</i>	965
GENDER SEGREGATION IN HIGH SCHOOLS' TRACK CHOICES: A CRUCIAL STEP IN THE REPRODUCTION OF GENDER INEQUALITIES <i>Giulietta Zanga</i>	977
BREAKING BARRIERS: UNDERSTANDING THE OBSTACLES FACED BY AFRICAN WOMEN IN STEM IN TRINIDAD AND TOBAGO <i>Roshnie Doon</i>	991
BETWEEN THEORY AND PRACTICE. FEMINIST PEDAGOGY AS INTERSECTIONAL ACTIVISM <i>Barbara Dynda</i>	1005
WHAT MATTERS MOST TO MATH GENDER GAP? EVIDENCE FROM PISA DATA IN ITALY <i>Valentina Ferri and Giovanna Di Castro</i>	1015
FEMICIDE IN ART. AN EDUCATIONAL PROPOSAL <i>Claudia Gina Hassan</i>	1027
COGNITIVE AND NON-COGNITIVE FACTORS INFLUENCING THE NUMERACY GENDER GAP IN HIGHER EDUCATION <i>Maristella Lunardon, Tania Cerni and Raffaella I. Rumiati</i>	1037
GENDER DIFFERENCES IN WORK AND LIFE PATHS AMONG PHD HOLDERS IN ITALY <i>Luisa De Vita, Antonio Corasaniti and Orazio Giancola</i>	1049
GENDERED LEARNING EXPERIENCES IN COLLABORATIVE DESIGN PROJECTS WITH VEHICLE INDUSTRY <i>Pinar Kaygan</i>	1063
GENDER AND SOCIAL BARRIERS TO STEM EDUCATION AND TRAINING AMONG CHILDREN IN SITUATIONS OF EDUCATIONAL POVERTY IN ITALY <i>Elisa Rapetti, Barbara Giovanna Bello, Matteo Delmonte, Massimo Merlino, Maria Palumbo and Valeria Pivetta</i>	1075
RETHINKING DIGITAL SPACES THROUGH FEMINISM: INSTAGRAM AS AN EDUCATIONAL ENVIRONMENT <i>Ludovica Rubini and Letizia Zampino</i>	1089
GENDER BIASES IN MEDICAL KNOWLEDGE: FROM EDUCATION TO DAILY MEDICAL PRACTICES <i>Camilla Veneri and Camilla Gaiaschi</i>	1101

Youth (Not) On The Move 1114

INTERNATIONAL STUDENTS' NARRATIVE IMAGINARIES: ITALY, FINLAND AND THE COSMOPOLITAN ELSEWHERE <i>Pierluca Birindelli</i>	1115
(IM)MOBILITY: THE CALABRIAN YOUNG PEOPLE EXPERIENCE IN THE 'WAITING ROOM' DURING THE COVID-19 PANDEMIC <i>Mauro Giardiello and Rosa Capobianco</i>	1127
THINKING THROUGH ADOLESCENT SUBJECTIVITY AND AGENCY AND THEIR ROLE IN SUPPORTING MENTAL HEALTH: A CONTRIBUTION TO THE NEW UK'S MENTAL HEALTH ACT <i>Danilo Di Emidio</i>	1139
A STUDY ABOUT GENERATIVITY IN INTERGENERATIONAL CARE IN PANDEMIC TIME <i>Maria Vinciguerra</i>	1151
INTERNATIONAL VIRTUAL MOBILITY: IS IT AN OPTION FOR PROMOTING THE INTERNATIONALIZATION OF HIGHER EDUCATION? <i>Cristina López-Duarte, Jane Frances Maley and Marta María Vidal-Suárez</i>	1165

YOUNG PEOPLE, IDENTITY AND EXPERIENCE IN EUROPE <i>Alessandra Polidori</i>	1177
INTERNATIONAL STUDENT RECRUITMENT AND IN-BOUND MOBILITY IN THE POST-PANDEMIC WORLD ORDER <i>Raghvendra Singh and Dylan Rust</i>	1187
SCHOOL-TO-WORK TRANSITION IN ITALY AND ROMANIA: THE ROLE OF EDUCATION SYSTEM <i>Gabriela Neagu and Antonella Rocca</i>	1201
THE EVALUATION OF EDUCATIONAL CREDENTIALS FOR YOUNG REFUGEES INCLUSION: AN EXPLORATIVE RESEARCH <i>Marianna Colosimo and Anna Fausta Scardigno</i>	1215
WE ARE STILL HERE! SCHOOL-VET ALTERNANCE BETWEEN ENGAGEMENT AND DROPOUT RISK. EVIDENCE FROM EUROPEAN PRACTICES DURING THE COVID-19 PANDEMIC <i>Maddalena Bartolini and Valentina Lamonica</i>	1225
TOWARD UNDERSTANDING POTENTIALS, LIMITS AND CHALLENGES OF COOPERATION BETWEEN YOUTH WORK AND SCHOOLS DURING THE PANDEMIC <i>Daniele Morciano and Fausta Scardigno</i>	1235
FORMAL, NON-FORMAL AND INFORMAL EDUCATION: INTEGRATION IS POSSIBLE <i>Nunzia Vezzola</i>	1249
INFORMAL LEARNING IN THE LOCAL COMMUNITY. THE TESSERA CULTURA PROJECT <i>Giambattista Bufalino, Gabriella D'Aprile and Cristina Lo Presti</i>	1263
INTERNATIONAL YOUTH WORK: ASSETS AND CHALLENGES <i>Horta Herranz, Andreas Karsten, Ashley Pitschmann, Cara Lee Roth, Sümeyra Akarçesme and Tanja Strecker</i>	1273
SERIOUS GAMES AND NON-FORMAL LEARNING IN THE CLASSROOM: THE EXPERIENCE OF <i>SICURI SI DIVENTA</i> <i>Pina Lalli and Claudia Capelli</i>	1289
IT'S EVEN MORE COMPLICATED! THE INFLUENCE OF MEDIA PRACTICES IN THE DEVELOPMENT OF ADOLESCENTS' IDENTITY <i>Elena Pacetti, Alessandro Soriani and Paolo Bonafede</i>	1303
SURVIVING THE PH.D.: THE USE OF MEMETIC CREATIVITY IN INFORMAL NETWORKS <i>Roberta Bracciale and Junio Aglioti Colombini</i>	1317
PANDEMIC AND SELF-REPRESENTATION. BOYS AND GIRLS DESCRIBE THEIR REALITY THROUGH DIGITAL IMAGES <i>Maria Adelaide Gallina, Tania Parisi and Valentina Rosso</i>	1331
EMPOWERING DIGITAL CREATIVITY DEVELOPING CRITICAL KNOWLEDGE THROUGH A UNIVERSITY BLOG, SOCIAL MEDIA AND PODCASTS <i>Pina Lalli and Michela Zingone</i>	1341
<i>FUTURI (IM)PERFETTI</i> . SOCIAL FORESIGHT AND DIGITAL CREATIVITY AS PRACTICES TO EXTEND THE ABILITY TO ASPIRE <i>Claudio Marciano, Domenico Morreale and Alberto Robiati</i>	1353
FOCUS ON THE FUTURE. AN ORIENTATION PROJECT OF THE UNIVERSITY OF L'AQUILA <i>Geraldina Roberti and Antonella Nuzzaci</i>	1365

Digital Education Design. Evaluation Approaches, Tools and Techniques

Teaching through Motion Design and Transmedia Storytelling. An Integrated Approach to a Critical Evaluation

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ABSTRACT: *The COVID-19 pandemic has contributed substantially to defining new teaching methods, to accelerating the learning and development of digital tools, and has intensified the use of videos as dynamic and captivating media closer to the younger students. The transition from direct to indirect learning methods and to deferred experience through the use of recorded video-lectures and tutorials was already tested by telematic universities and online courses and forces students into a passive role, with very little space for interaction, collaboration and relationship (even emotional). How can the pedagogical use of animation and motion design be improved in this context? This paper aims to provide a new method for delivering distance learning through animation and transmedia storytelling, trying to implement interactivity and participation. The margins for improvement are numerous, and we discuss the possibility of producing edutainment artefacts filled with interactive activities that ask young children to solve prestructured tasks and to experience multiple predesigned scenarios. «Choose-your-own-adventure narratives» are gaining ground in recent years and associates a playful component in which the viewer participates in the character's choices. Using transmedia storytelling for developing reflective learning can prove to be an interesting trial as it emphasizes the dynamism of the medium in building new learning experiences without removing the focus from the storytelling. A critical approach to the most effective tools to validate the proposed method, process and product is the evaluation objective of the paper. The integrated use of the developed evaluation tools, ultimately, has to test students' learning status and the communication effectiveness of the used method and products.*

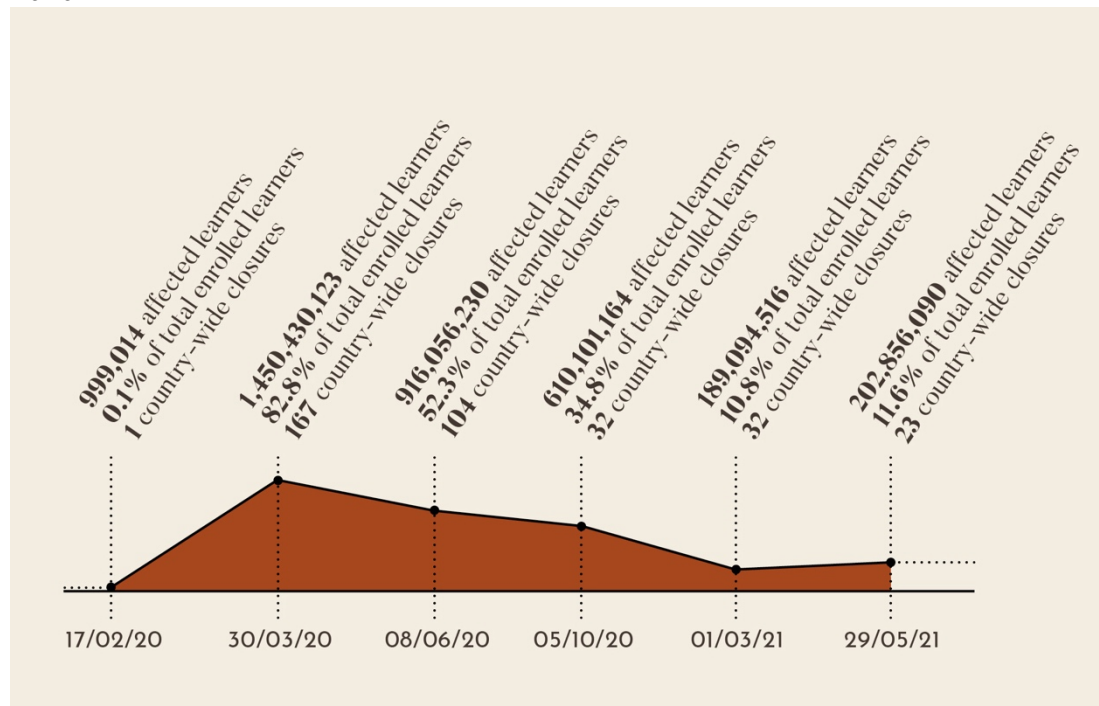
KEYWORDS: *Motion design, Transmedia storytelling, Agency, Couterfactualism, Evaluation tools.*

This paper shows the result of a common discussion and elaboration work, but the writing of paragraphs can be attributed to: Giulia Panadisi (Introduction, 1), Vincenzo Maselli (2, 3, Conclusions), and Valentina Faloni (4, 5).

Introduction

In a year and a half of the COVID-19 pandemic, almost all students in the world have been affected by the partial or total closure of schools for a long period of time (UNESCO, 2020) (Fig. 1): this has led online teaching to acquire a role of primary importance in education at all levels. The main means through which the transmission of notions takes place is video: live or recorded lessons, static or animated videos are the main product that students experience in the distance learning path.

FIG. 1. *Global monitoring of school closures caused by COVID-19 since February 2020*



Source: UNESCO – <https://en.unesco.org/COVID-19/educationresponse>

In one year, the implementation of infrastructures for online teaching has undergone an important acceleration, to the canonical videoconferencing systems – that allow the reproduction of the lesson live or in streaming (if previously recorded) – social platforms and new tools have been added to make the distance learning process faster and more direct in the virtual classroom. On the one hand the possibility of giving open lessons to a potentially unlimited audience and of having access even remotely to the educational contents by students represent the strengths of distance learning, on the other hand the lack of direct interaction and the lower emotional involvement constitute its weak points and are among the most discussed topics on the subject. Teachers who have been teaching face-to-face for years try to replicate dynamics and online dialogues (Mehall, 2020) through the interaction tools made available by digital and virtual tools. Teachers are pushed to increase the quality of their online courses, but quite often are unaware of strategies to encourage students

to interact and be more involved (Paquette, 2016). Improving the possibility of direct interaction between teachers and students is a fundamental step to make distance learning more human, and to give a more engaging and effective experience. It is necessary to design a hybrid learning strategy that involves the audiovisual product and the narrative component.

Starting from these premises, the early hypothesis is that motion design together with a transmedia narrative and interactive tools could build a valid teaching strategy and that it can assume a role of support for learning and interaction able to fill, at least in part, issues relating to social distancing in the context of school education.

1. Animation and education

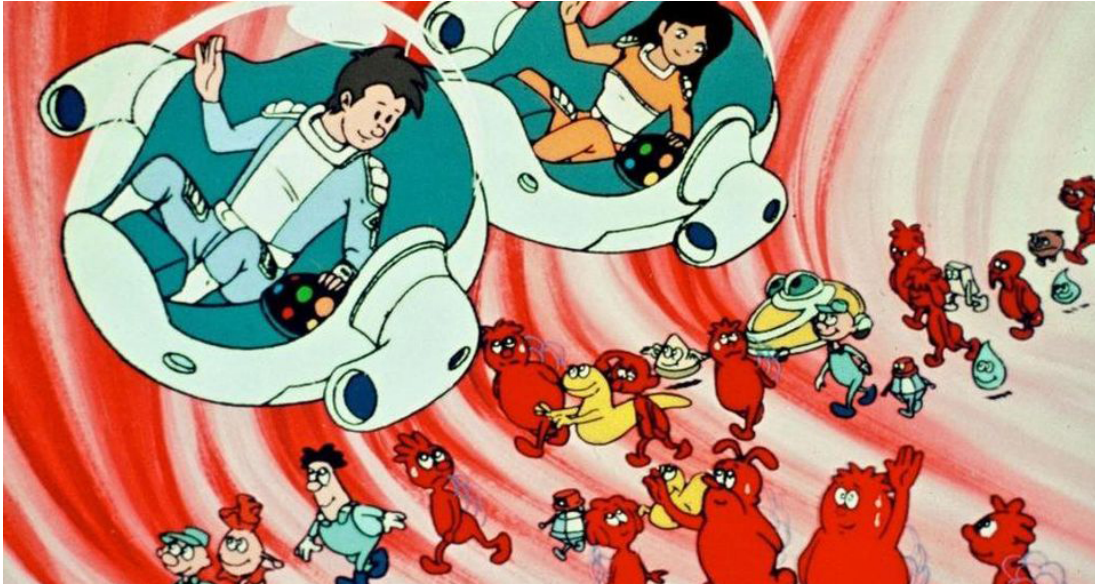
The use of animated language for educational purposes is far from recent; as early as the second decade of the 20th century, the first experiments in pedagogical animation began and there are interesting cases of animation used as a tool to explain, clarify and visualize complex topics (Honesty Roe, 2013). Among the first attempts stand out *Tommy Tucker's Tooth* by Disney (1922) and *The Einstein's Theory of Relativity* by the Fleischer Brother's (1923). After the Second World War, some scientific animated documentaries were entrusted to Frank Capra by Disney, including *Hemo the Magnificent* (1957) and *Our Mr. Sun* (1956). In those years, animation was already a more complex tool than in previous decades with new techniques, and above all the diffusion of television in private residences of the majority of the population increased its presence. From the 1980s to the most recent years, the examples are countless and vary from successful series designed for children on television, such as the well-known *Il était une fois... la Vie* by Albert Barillé (1987) (Fig. 2), up to motion design videos for social platform such as those of the German animation studio Kurzgesagt (Fig. 3).

Animated language for a long time has contributed to teaching complex topics and has stimulated the involvement and interest of students. Motion design and animation reveal to be an attractive language capable of capturing the interest of different age groups, easily customizable and with the possibility of adapting to different platforms. The several animation techniques make them a modern and dynamic language in continuous growth, and so capable of attracting different targets.

The multiplicity of platforms and devices allows both a significant diffusion and technological progress of animated products in fields that require innovation. The user indeed, is increasingly involved in an «active» participation in the animated video through the interactive component. In educational contexts, it allows the student to participate in a dynamic and productive way, effectively building his learning path. In

the following sections we will describe existing samples of interactive audiovisual products and suggest how to apply these production criteria to the field of education.

FIG. 2. *Il était une fois... la Vie* – Albert Barillé, 1987



Source: LaStampa.it

FIG. 3. *Black Holes* – Kurzgesagt 2021



Source: <https://www.youtube.com/>

2. Interactive video e-learning: from augmented reality to agency

Dongsong Zhang in 2005 conducted an experiment to measure the effectiveness of interactive video e-learning, and demonstrated that students who experience fully an interactive learning environment get better results and enjoy the learning path more than conventional class conducted in a non-interactive environment (Dongsong, 2005). Another

research conducted by Jawid Nazir, Aftab Haider Rizvi, Ramachandra Pujeri in 2012 investigated skills development on animation interactive learning in higher education environments, and the results showed that those formats helped in better understanding (Nazir et al., 2012).

In animation, interactivity has been explored with different meanings. Animation interactive learning methods have been tested in the last years working with AR technology and smart devices. The impact of augmented reality has pushed experiments of fully immersive, headset-based VR experiences, that are now a powerful creative production tool for animation studios (a few examples: Pearl, 2016; Lily, Snot, 2017; Doctor Who, 2019; Lifetime Achievement, 2020 Paper Birds, 2020) and also a method for experiencing Interactive Learning. In 2015, for instance, the Dutch Studio *Analoog* took up a study to find out whether animation could have a positive effect on learning by using AR technology. A team of designers and educators tested a beta-version app that allowed students to scan a math problem with a tablet or smartphone and then, through augmented reality, view an animation that explained the problem.

AR experiences do not necessarily require agency. Agency is always interactive and – according to Janet Murray (1997) – allows «to take meaningful action and see the results of our decisions and choices». Consequently, agency is the element that elevates a better, and more involving narrative from a basic one. Through agency – according to Mark Meadows (2003) – the author allows flexibility in their story, enough that viewers can feel agents of change, even if every single change was orchestrated from the beginning.

Making decisions and seeing the results, even if in structures with limited branches, ensure the viewers stay invested in what they are watching, and can give the feeling of making a difference. The viewers' choices can lead to many unexpected scenarios, and although they might not always be pleasant ones, they have invested their time, a valuable resource they could have spent on something more linear that does not necessarily give them the same amount of control than an interactive film can give.

Most important, agency is a tool for education. Educational live-action videos and animation, as mentioned, have been used in schools, at home and at public events for decades. Regardless the style used and the data collected, the common format stages a pre-recorded footage with a voiceover narrating. These videos, therefore, lack an interactive element. As reported by In one study conducted in 2017, a study conducted in a class reveals a strong interest in using mobile and interactive devices in their learning process: 96 per cent of students described these tools with the keywords motivating, enriching and pleasant (Benkada, Moccozet, 2017, 5).

3. Agency in audiovisual products

Agency has been experimented in cinema and video production in the last 30 years.

In 1992 a short film titled *I'm Your Man*, directed by Bob Bejan, was released and showcased a new interactive cinema technology: a special controller embedded in each seat that allowed the audience to vote for the next action that should happen in the film. During its 20-minute running time, the film had six different points at which the audience could cast their votes (Fig. 4). The film was also released on DVD in 1998, and viewers could choose their actions with a TV remote.

Interactive videos have come a long way since this first joystick-controlled film, embracing a Video Game Aesthetic (Deen, 2011) made up of buttons, overlaying questions and specific layouts (Leppänen, 2020). Today viewers do not have to leave the comfort of their own home to see an interactive film, and the internet has made it possible for streaming platforms to thrive and develop new ways of watching content.

Black Mirror: Bandersnatch is an interactive *choose-your-own-adventure* episode of the Black Mirror series, created by Charlie Brooker and directed by David Slade. It was released in December 2018 on the American streaming platform Netflix. The film consists of short scenes that are meant to fit seamlessly together despite having a branching storyline. When the viewer is in the choice menu, the film will continue to play in the background instead of pausing until a path is chosen (Fig. 5). Another recent example of a completely interactive series is *You vs Wild*, produced by Netflix in 2019. The storyline revolves around making key decisions to help the British adventurer, writer, and television presenter Bear Grylls navigate in harsh, scary environments to survive and complete missions. Grylls speaks directly to the camera, asking the viewer to select between options like scaling a cliff or scrambling along the coastline.

An interesting recent interactive experiment is The Eko app, the world's first interactive storytelling platform that lets the viewer control the story, founded as Interlude in 2010, and rebranded in 2016. Eko's multimedia contents turn viewers into participants, providing them an unprecedented ability to seamlessly affect, control and influence the storylines as they unfold, by deciding which character to follow in any scene, and getting their perspective on the story, by splitting Key moments into different options, making audience's decisions determine the outcome, and changing every time the path of the story and so discovering infinite possibilities. (A few titles are: *Wizard School Dropout*, *Epic Night*, *The Coop*, *Timeline*, *Clothes Call*, *BuzzFeed*, *Cook Together*, *Make or Break*).

Netflix has embraced this new frontier of interactivity and extended the choose-your-own-adventure narratives to animated products. In 2020 the platform released a «choose-your-own-adventure» animation with the episode *Carmen Sandiego: To Steal or Not to Steal* (Fig. 6), an interactive

project less sophisticated than the previous *Black Mirror: Bandersnatch* and aimed at a younger audience. According to Petrana Radulovic (2020), indeed, the episode has a set, determined path, and if the viewer chooses a different branch, the story goes wrong. While the game's individual moments make full use of the 2019 show's animation and its usual creative team, the gameplay mechanics and the audience's choices don't have a big impact on the story. There's always a «wrong» option, and picking it will lead to failure. Then, after a few steps forward in the way of the wrong ramification, the game suggests heading back and selecting the «right» answer that it wanted all along. At other times, a wrong choice immediately launches the story's endgame.

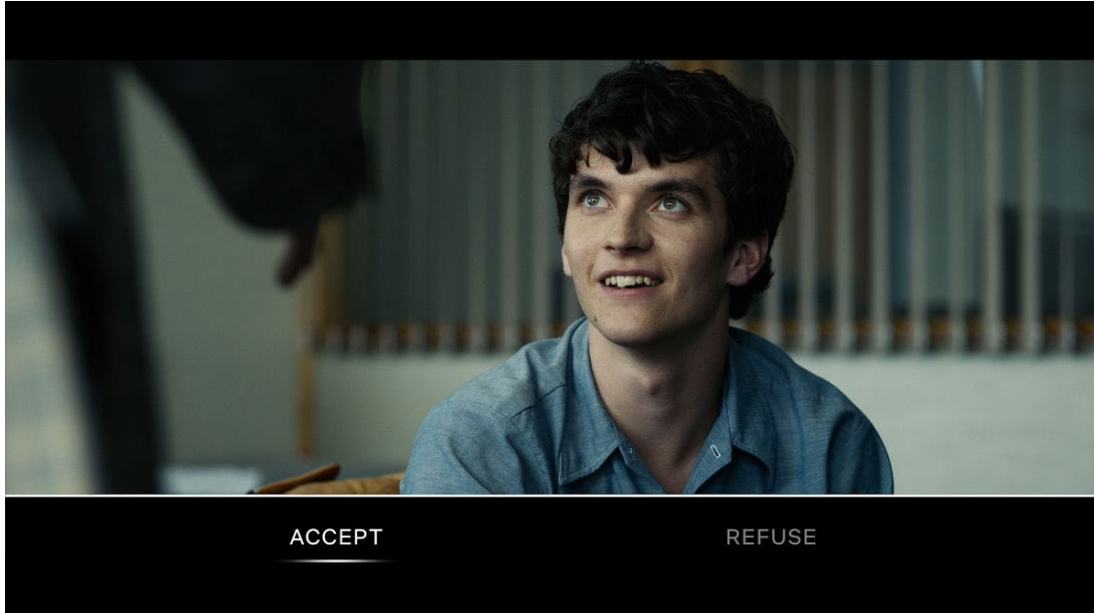
Interactive narratives, also known as «choose your own adventure» stories, allow the viewers to decide the direction of the story's plot. These narratives are a declination of transmedia storytelling, since they use different media (game, video and written text) and help to refine and integrate the user experience. Using transmedia storytelling for developing reflective learning (Dewey, 2019) can prove to be an interesting trial as it emphasizes the dynamism of the medium in building new learning experiences without removing the focus from the storytelling. Interactive narratives, therefore, make sure to have a more effective entertainment-education toolbox, since individuals are more engaged within the narrative (Moyer-Guse, Nabi, 2010).

FIG. 4. *I'm Your Man* – Bob Bejan, 1992



Source: *I'm your man*, DVD release 1998

FIG. 5. *Black Mirror: Bandersnatch* – Charlie Brooker and David Slade, 2018



Source: <https://www.netflix.com/>

FIG. 6. *Carmen Sandiego: To Steal or Not to Steal* – Netflix, 2020



Source: <https://www.netflix.com/>

4. «Choose-your-own-adventure narratives» and *counterfactualism*

In the studies on future thinking and on the cognitive effects of narration, *Counterfactuality* moves between reality and fiction, original and copy, true and simulated, representing a key element to understand the world that surrounds us, since it designates an «unreal» world somehow close to everyday life.

«Counterfactual thought» identifies human being's ability to imagine, formulate hypotheses, configure predictive schemes. Only by

considering a possible world we can reflect on reality and intervene to actively transform it (Gopnik, 2010, 36), and by understanding the causes of something we can imagine all the causes that *could have* become true and feasible. Imagination and causation, in fact, feed in a biunivocal way. For these reasons, the *narrative choice*, offered by a «choose-your-own-adventure narrative», gives the possibility of co-participating in the construction of a new knowledge and, at the same time, amplifying that learning process which, thanks to the use of the *story*, allows the learner to acquire new knowledge and to metabolize it. The function of counterfactual thought, in fact, is to reconstruct the past in the present by creating alternative representations to what has already happened, and to hypothetically simulate future events using the bank-data stored by our brain regarding what we have experienced (Calabrese, 2019, 174).

In the «narrative database» of our brain we keep the pre-existing images and structures related to the experience gained in the surrounding world, and the communications we have enjoyed and thanks to which we have been able to orient ourselves in the real world. Storytelling allows to resort to emotionality and some research (Gardner, 2002; Labar, Le Doux, 1999; Goleman, 1996) demonstrated the role played by emotions in making learning more effective. The narrative involves active involvement of the learner in the process of DIY shaping itself as an innovative device for training and for the recognition of their own learning history (Argyris, Schön, 1998).

John Dewey (1967, 2019) already insisted on the value of the narrative mode of thought as an opportunity to reflect on experience, but it was Jerome Bruner who demonstrated that the meaning of personal reality is achieved by the conceptualization of our own narrative, and also that stories are the way to organize, interpret and give meaning to experiences, ensuring a sense of continuity (Bruner, 1988, 1992). By making students participants and agents of their own knowledge through the choices of a «choose-your-own-adventure narratives», it is possible to redefine their role of actors in the learning process. The narrative, understood in this way, becomes an expression of an adventure, a reconfiguration of the self, a redesign of subjectivity, a reorganization of an existential dimension; a *task that* sustains, understandings, representations, but also desires and hopes (Laeneve, Gemma, 2013, 57).

This approach can, therefore, represent a formative path aimed at fostering a greater awareness based on the human, cultural, social components and so on, acquired during a learning experience, because the formative process is always and, in any case, peculiarly narrative (Batini, 2009). The training process, intrinsically relational, finds, in the mentioned relationality, *the* negotiation of the self with the self-others, as to say: educate narrating (Demetrio, 2012), give a narrative structure to the educational path, conceive of education not only as a time and place of explanations, of the transmission of knowledge, but also as reciprocal listening between narrative subjects whose identity is first and foremost a narrative identity (Laneve, Gemma, 2013, 59).

5. Evaluation tools for a narrative approach

The characteristics of narration can be summarized in three fundamental processes: the subjectivation; the assumption; the perspective plurality. Storytelling represents an act with a dual function: on the one hand it is a direct way to the interiority (narrative in reflective function), on the other it is an act directed to the context in which you are immersed (narrative in communicative, explicit, documentary function) (Laneve, Gemma, 2013, 38). The structure of the narration is well suited both to read phenomena and processes (the narration as a research tool) and to produce intentional actions and changes (the narration as a didactic strategy) (Cassani, Fontana, 2000). The basic idea in the use of storytelling methodology is the development of reflective learning, consisting of intellectual and affective activities. Narrative structures are just as important as the medium through which they are presented and help to interpret the experiences and complexity of social life.

For these reasons, evaluation tools as «evaluation reports», considered as a «progression of competence profiles useful to provide points of reference for the evaluation of learning» (Castoldi, 2016, 181), and as a device to conceptualize the levels of mastery of the expected skills and provide a useful framework for tools and subsequent evaluations (Castoldi, 2016), could be particularly suitable. «Professional diary» (by teachers) could be added to validate the application of a narrative method, already inherent in the use of transmedia storytelling, and to evaluate the experience and, therefore, the results of the process of knowledge and training, individual and collective, identity-related and educational.

A proposal could start by re-designing the «evaluation reports» proposed by Petrucco and De Rossi (2014) formulated to evaluate digital storytelling products. These reports, when applied for an assessment of process competence, are able to meet quality criteria such as validity, articulation and promotionality (Castoldi, 2016, 188). As anticipated, the use of «evaluation reports» – which investigate dimensions such as: monitoring; socialization; reflection; change; dissemination; and interaction – need to add the «professional diary» (Lavene, Gemma, 2013), in order to better monitoring the process. This occurs because the evaluation of the entire learning path conveyed by a transmedia storytelling that employs the «choose-your-own-adventure» narratives is aimed not just at measuring skills, rather than at reproducing knowledge, to its «original and functional reworking to a given context of action» (Castoldi, 2016, 188).

It is, therefore, an *authentic task* that aims to «encourage students to use their knowledge, skills, cognitive and emotional dispositions to develop answers to significant tasks and engaged in real contexts. The keywords of the evaluation process [...] become «inventing», «recreating», «applying», «reworking». The elaboration of authentic tasks indicates a mode of verification that aims not to limit the attention to the

knowledge or abilities reached, but to explore the mastery of the subject within a given domain of competence (Castoldi, 2006, 189). The concept of competence therefore focuses on the elaboration of complex socio-emotional cognitive strategies, especially when they are expressed in groups, which involve the active and personal use of their knowledge in creative activities. For this reason, an evaluation approach aimed at enhancing performance based on an «authentic, dynamic and active knowledge, connected to reality» (Comoglio, 2004, 38) aimed at developing a theoretical knowledge-practice consistent with the training path and with the objectives of a project that employs the «choose-your-own-adventure narratives», provides the elaboration of a specific heading declined on the elements present in the «general reports» in relation to the requested performance, outlining itself as the most appropriate tool for an assessment that considers each of the aspects presented. «Evaluation reports» are therefore a useful reference track to describe the characteristics of the student learning experience and a matrix of dimensions, criteria and indicators (Castoldi, 2016, 198) from which to start in order to acquire competences and in order to document the carried out distance.

Conclusions. Pedagogical objectives and design guidelines

Collected theoretical coordinates has brought to light that transmediality and interactivity should be effectively implemented to convey didactic contents, by allowing an active and shared participation and by structuring a narrative during the process. An interactive *choose-your-own-adventure* structure, therefore, allows to reach the following pedagogical objectives:

- transportation, as being able to participate in the narrative makes readers more immersed into the story, and «people who are transported into a story are likely to change their real-world beliefs in response to information, claims, or events in a story» (Jenkins, 2014, 11).
- Identification, as the character makes decisions taken by the viewer. Identification with characters allows to «merging with the character and sharing the character's knowledge about the narrated events, adopting the character's goals...and sharing the character's emotions» (Tal-Or, Cohen, 2010, 404). During identification, therefore, viewers adopt the character's point of view and knowledge.
- Responsibility, as having a hand in the actions of the story makes participants feel a sense of responsibility for the events of the narrative. Viewers choose the character's actions; thus they are likely to feel the consequences and outcomes in the story. These kind of agency in an interactive narrative could lead to more awareness about their choices (Jenkins, 2014, 15).

- Knowledge update. Experimenting with the resolution of a problem by operating on what is known about it, has a function of understanding and verifying knowledge. The choice made involves reflective thinking, conveyed by the story.

A new method for delivering distance learning through transmedia storytelling, trying to implement interactivity and participation, can be based on a series of steps and design guidelines. An animated didactic product, therefore, designed with an interactive *choose-your-own-adventure* structure, requires to:

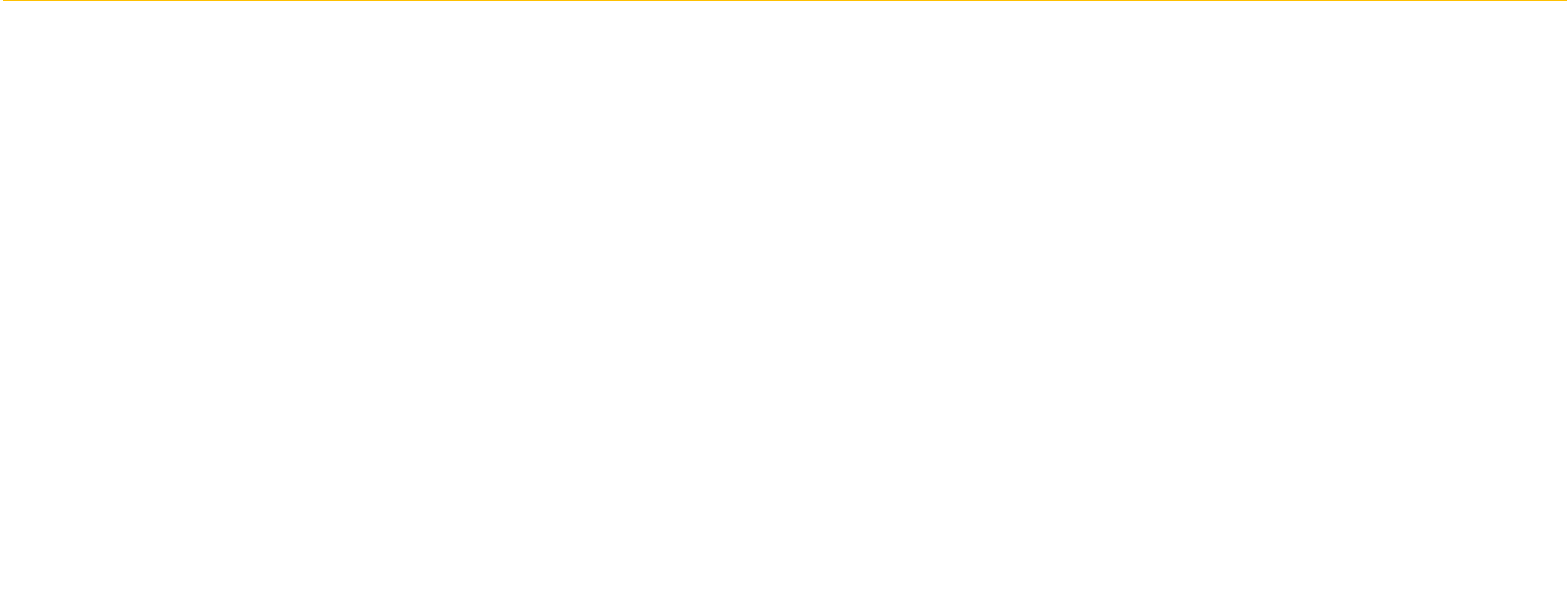
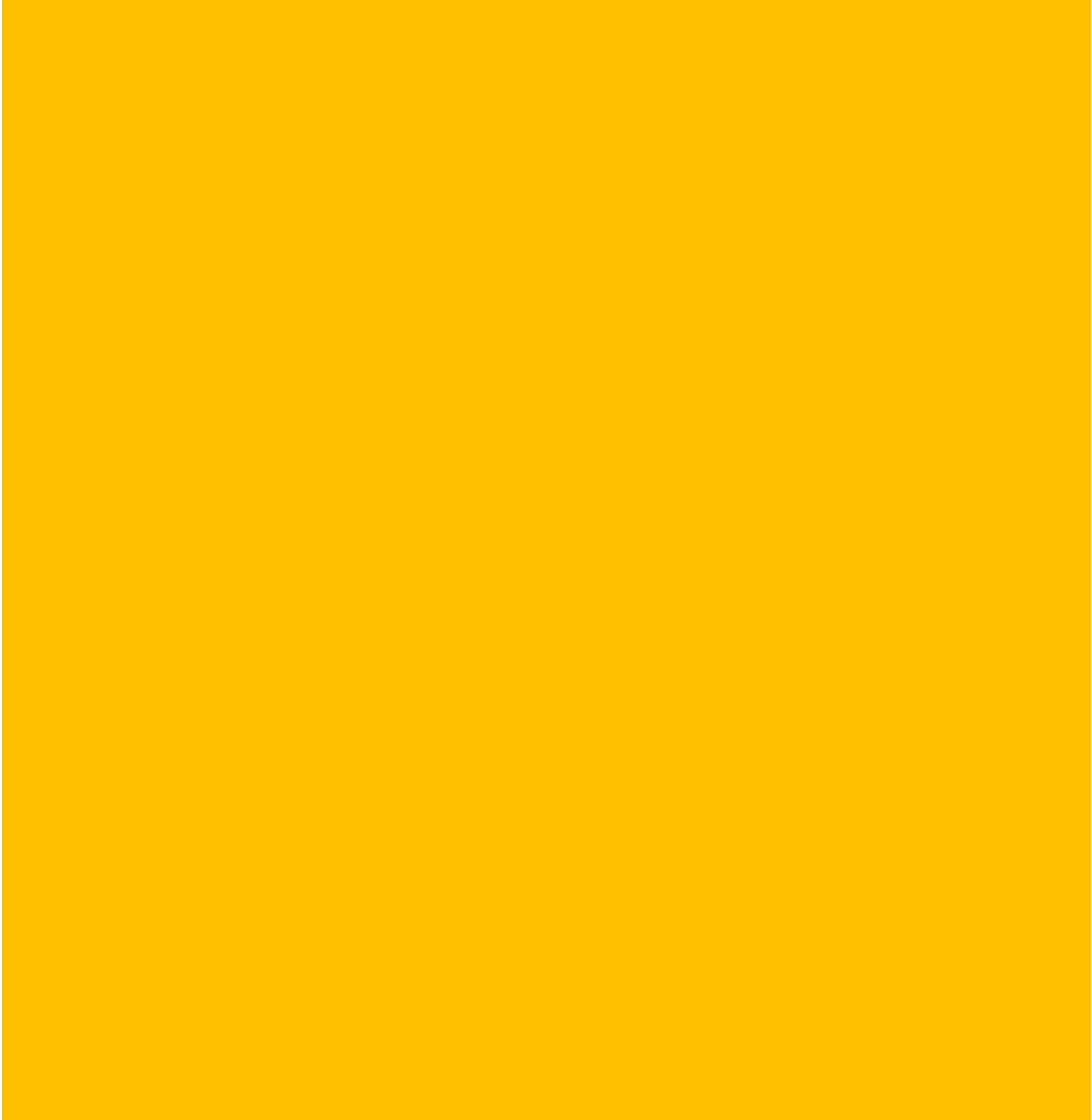
- Write a narrative that – metaphorically or not – tells specific didactic contents;
- Build a learning process with agency that makes users' choices decisive for the continuation of the narrative;
- Structure a path with ramifications to be chosen freely without any imposition of contents;
- Structure a narrative with different «endings», each one demonstrates the correct application – therefore understanding – of a theoretical apparatus conveyed through the narrative itself. The implied screenwriting work involves the running of numerous storylines, each one is able to provide information to be learned in virtualized environments.
- Plan a shared experience. The narrative must be «crossed» collectively, following the gaming criteria of MMORPG communities and guilds made up of specific group of users (i.e. class group) who, starting from the same theoretical premises, must work together to choose which path will allow them to reach the «best» ending.

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Citizenship, Work and The Global Age