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CONFERENCE PROCEEDINGS



Exploring New Frontiers in Education

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LEARN BY TEACHING AND LEARN BY PLAYING: "THE CITY OF TOMORROW / A VILA DO MAÑÁ"

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Abstract

How can we recover the identity of the city?... how can we do so that our heritage is not lost? ... how could the city be that place of meeting and exchange again?... how to return to make the city our place?... these are the issues that lead us to create the project of "The City of Tomorrow".

It is an educational and awareness-raising project, whose goal is that from childhood and through play you become aware of all the scales of the common: tangible and intangible heritage, architecture, urbanism and landscape. At the same time that from the architectural discipline becomes aware of a new vision of the city.

This project is being developed through different workshops in the City Councils of Galicia, it is carried out by the PØStarquitectos team, financed from the different councils, and receives the support of the ETSAC (Higher Technical School of Architecture, University of A Coruña), COAG (Official College of Architects of Galicia), and APATRIGAL (Association for Defense of the Galician Cultural Heritage).

"The City of Tomorrow" is an innovative project, not only because of the issues it deals with, not because of who it is addressed to, but because of the way it is carried out.

In the first place, it is aimed at children, as future citizens of "The City of Tomorrow", generally forgotten in the processes of transformation of cities. It is childhood that will be in charge of taking care of our material and immaterial heritage and of transmitting it. If the future inhabitants do not know the environment they inhabit, tomorrow will repeat the mistakes that have occurred with previous generations, pieces of heritage of incalculable value will be destroyed, or the identity of our towns/cities will be forgotten.

The workshops have been carried out with groups of approximately 150 children, aged between 3 and 15 years old, who for 5 days the town/city they inhabit becomes their game board, in their laboratory of experimentation. 5 days in which spaces of patrimonial, architectural or landscape interest are studied, they are recovered, they are lived and what is more fundamental, they are enjoyed, generating with it a feeling of identity. The city in which they live has changed for these children, it is their city, they are their spaces.

The fundamental tool to reach childhood is the game, so the activities are based on it. The children play, have fun, and discover elements of their town/city unknown until now. Learn playing.

In "The City of Tomorrow" students from the ETSAC (High Technical School of Architecture of A Coruña) participate, looking for ways to outline the concepts of heritage, architecture, urbanism and landscape to transmit them to children; at the same time that they themselves learn from the little ones, they break with the regulated education forgetting the figures, the norms and the urbanistic techniques, and they learn to focus on the needs of the citizens of tomorrow. Learn by teaching.

Keywords: teaching innovation, architecture, town planning, landscape, childhood.

1 INTRODUCTION

"At one time we were afraid of the forest. It was the forest of the wolf, the ogre, the darkness. It was the place where we could lose ourselves. When our grandparents told us stories, the forest was our enemies favourite place. [...] At one time, we felt safe between the houses, in the city, with our neighbours. This was the place where we were looking for our friends, where we would meet them to play together. There was our place, the place where we hid, where we became fellows, where we pretend to be mummies and daddies, where we hid our treasures ... [...] But in a few decades, everything has changed. There has been a tremendous, rapid, total transformation, as our society had never seen it before (at least according to documented history). [...] The forest has become beautiful,

luminous, the goal of dreams and desires. The city, on the other hand, has become dirty, grey, monstrous. [...] In recent decades, and especially in the last fifty years, the city, born as a place of meeting and exchange, has discovered the commercial value of space and has altered all the concepts of balance, well-being and community, fulfilling just profits and interest. It has been sold, prostituted. [...] The city is now like the forest of our stories." [1]

How can we recover the identity of the city?... how can we do so that our heritage is not lost? ... how could the city be that place of meeting and exchange again?... how to return to make the city our place?... these are the issues that lead us to create the project of "The City of Tomorrow / A Vila do Mañá".

"The City of Tomorrow" is an educational and outreach project, whose goal is that from childhood and through play you become aware of all the scales of the common: tangible and intangible heritage, architecture, urbanism and landscape. At the same time that from the architectural discipline becomes aware of a new vision of the city, which is what those who will be the inhabitants of tomorrow contribute to us.

We believe that it is necessary that childhood and adolescence be actively present in the processes of construction of the common space (square, neighborhood, city ...) providing them with the necessary tools to know the value of their environment and develop their creativity, from art and architecture. The objective is to provoke in them the awakening of a new look on the spaces in which they develop their life.

2 OBJECTIVES

In the times we live, where everything is a "click" away, where flying over Tokyo or New York is within reach, where I can visit the Parthenon from the screen ... we have forgotten the place where I live. The new generations, the inhabitants of tomorrow, are totally unaware of the town or city they inhabit, they live in a "little box" they move into another smaller "box" and they arrive at a bigger "box" (call school, shopping center, ... or sports center), this is your relationship with your environment.

The reality of today is that the natural connection between children and their habitat, the place where they grow and develop, the city or the village in which they live, is diluted, is barely existent. We found children in their homes, watching TV, with their video games, playing in their fenced and guarded urbanizations, moving by car and discovering the city from their window, where the park or plaza has been replaced by the shopping center. The city is a hostile medium for them, they have lost their freedom, which is limited to certain enclosures considered safe and controlled by adults. We are transmitting the message of fear that is currently being felt in society, and as a consequence, the place where they live, the town or the city, is not safe for them.

"To consider the city is to encounter ourselves. To encounter the city is to rediscover the child. If the child rediscovers the city, the city will rediscover the child – ourselves. LOOK SNOW!. A miraculous trick of the skies – a fleeting correction. All at once the child is Lord of the City but the joy of gathering snow off paralyzed vehicles is short-lived. Provide something for the human child more permanent than snow – if perhaps less abundant. Another miracle." [2]

In front of this image of the public space of today, "The City of Tomorrow / A Vila do Mañá" starts from understanding the city as an educational tool, not neutral, to which we approach from the game.

We recover some of the ideas proposed by the Dutch architect Aldo van Eyck (1918-1999), in which the child was given the opportunity to discover the city from his own movement, which has to be developed through his games which is his natural way to know the world. We are aware that, at the moment, this generates a conflict in the streets and squares, which we want to provoke, highlight and show from the workshops, even temporarily. What happens when the spaces of our cities are occupied by children playing? How do the children feel? How do adults react? How can the city be transformed? From this conflict, we want to transform the image of the city that children and adolescents have and, at the same time, make them visible in those spaces in the eyes of adults."Fig.1"

Another idea that bases our project of "The City of Tomorrow" arises from the right to the city, as defended by Henri Lefebvre (1901-1991), by which the people who live in it have the right to its enjoyment, transformation and that reflects their way of understanding life in community. From this point of view, how not to include the right of boys and girls to the city. Therefore, we consider the

public space as a common space of learning and collective construction in which childhood must also have a place.

We want to give voice to those who normally do not have it, children and adolescents, promoting their right to form their own judgment about the habitat in which they live and to be able to express it and make it manifest. We seek to stimulate a critical attitude to promote their development as an active citizenship, as they will be responsible for the city of the future. Forming, therefore, the foundations of a critical citizenship.

We want to work in public spaces to transform them into common spaces. As the geographer and social theorist David Harvey (1935) affirms, it is necessary the appropriation of urban public spaces by citizens through political action to convert them into common spaces. The squares and streets, the landscape with its elements, the furniture, the voids, ... are common goods that we seek for children to recognize as their own from different points of view: from history, its uses, its evolution and its transformations.

Our main objective is that childhood and adolescence be actively present in the processes of construction of the common space, giving them the necessary tools to develop their creativity from art and architecture, in order to provoke in them the awakening of a new look and generate identity links with the spaces in which they live.

It is intended that they acquire a greater knowledge of the city in which they live; an appropriation of spaces that are vetoed daily; the movement with freedom in the squares; spatial empowerment along with other children favoring their coexistence; assessment of the place where they live through a new look at their habitat; make them responsible for the environment; know also the elements that make up the immaterial place "Fig. 2 "and, above all, demonstrate their transformative capacity.

With "The City of Tomorrow", the city in which they live is not an abstract idea, nor is it a series of small partial images; It begins to be understood as a much more complex and comprehensive environment, which brings us closer to the notion of habitat: the space that transcends its physical location in a territory, in which we solve our needs by establishing relationships with other people and the environment, both natural as built; implying processes in which it is transformed but in which we are also transformed. The habitat also implies the memory and the symbolic of the community. In short, the habitat as a system of relations and processes that are generated between three elements: nature, society and the inhabitant.

We want children to learn to look at the place where they live, taking with them two powerful tools: art and architecture. They are two elements that help us to apprehend the world and, most importantly, also to transform it. To do this, tools from different disciplines are combined, since children are expected to manage knowledge of architecture, art, landscape, urban planning and sustainability.

The fundamental tool to reach childhood is the game, so the activities are based on it. The children play, have fun, and discover elements of their town/city unknown until now. Learn playing.

In "The City of Tomorrow" students from the ETSAC (High Technical School of Architecture of A Coruña) participate, looking for ways to outline the concepts of heritage, architecture, urbanism and landscape to transmit them to children; at the same time that they themselves learn from the little ones, they break with the regulated education forgetting the figures, the norms and the urbanistic techniques, and they learn to focus on the needs of the citizens of tomorrow. Learn by teaching.

3 METHODOLOGY

The workshops of "The City of Tomorrow" have a duration of 5 days, 5 days in which the city in which we work becomes our game board, in our laboratory of experimentation, let's learn by playing.

The activities carried out in the workshops: "The City of Tomorrow", are structured through six fundamental concepts: perception, scale, space, city, landscape and sustainability. To develop these six concepts, strategies of art and architecture are used.

3.1 Perception

The perception of the body itself, as well as the perception of the environment that surrounds us, are fundamental concepts in the workshops of "The City of Tomorrow".

We work with perception in two very different ways. First of all we need to know how children see the city they inhabit, we need to answer the question: what is your city like? For this, based on Guy Debord [3], we go out to the "drift" accompanied by a large golden frame, so that in our wanderings they can frame those elements of the city that are important to them. "Fig. 3"


Why a great golden frame? Like Lorraine O'Grady in her performances, she makes us question what is inside or outside, traditionally this was delimited by the frame, now that line is broken, and what is outside the frame coexists with what is inside. "Fig. 4"

Another way we work with perception is transforming a familiar place, a place that is inhabited by children. "Fig. 5". For this we are based on a literary concept, coined by Viktor Shklovsky: "the estrangement". "Everydayness makes us lose the freshness of our perception of objects", makes everything automated. The routine is obstacle, the habit of mechanically perceiving the world. Since when we see or do something again and again, it becomes automatic, we do it unconsciously, losing the ability to perceive. Faced with this would be "estrangement " which consists in making the known strange, as if we were seeing the object for the first time. "Fig. 6".

3.2 Scale

In the workshops of "The City of Tomorrow" we introduce the concept of human scale and the city scale. Starting from becoming aware of our own body dimensions, we can approach other dimensions such as the city and the territory. It is a perceptual route that we place between the hand "Fig. 7", which represents what is close to our body, and the horizon "Fig. 8", how distant the view reaches.

Table 1. Summary table on the importance of the place, of the hand to the horizon.

<p>THE IMPORTANCE OF THE PLACE !!!</p> <p>THE CITY IS THE AMBIT IN WHICH WE CAN DISCOVER WHAT WE WANT TO MAKE THE REST OF OUR LIFE</p>  <p>THE IMPORTANCE OF THE HAND, CONSTITUTING SENSE, DEFINE A LIMIT OF A AMBIT</p> <p>THE SENSE OF HERE, of my body and ask the difference of all the places that surround me, aware of oneself, in parallel with the place.</p> <p>PLAY WITH THE LAYER MORE DISTANT OF MY BODY = THE HORIZON, being the limit of perception of my body: the infinite, to realize that the place is infinite, that it is our planet, that it is ours, and so, take care of it, as we take care of ourselves.</p> <p>Travel in perceptive stays between the closest and the most distant. DEPTH, my body here and my body there, on the horizon.</p> <p>HORIZON SHARED AND SO UNDERSTAND THE HABITAT of the territory, the city or the landscape.</p> <p>ARCHITECTURE, AS AN ELEMENT WHERE IDEAS AND THINGS GIVE SENSE TO THE HORIZON.</p>

3.3 Space

We seek work from the space of architecture and the city through experimentation with light, texture, color, sound, ... The instrument is the body, which travels, constructs and plays in spaces with all the senses displayed.

We work with the horizontal plane, new materials are available, which make us discover new uses. By transforming the space with the new materials, when discovering new textures, new activities appear, they sit down, they lie down, they play, they take off their shoes ... "Fig. 9"

3.4 City

The city as our habitat, our game board to discover. Understand its structure, morphological conformation, its empty and full, its history, its traditions. Reflect on how we move from one place to another, the routes, the important points where the lives of children and the community unfolds.

We want them to discover how they connect their houses to the city, recovering the idea of Leon Battista Alberti: "And if the city (according to the judgment of philosophers) is a great house, and on the contrary the house itself is a small city..." [4].

The instrument is the body, which travels, transforms and plays. We handle elements capable of generating space such as the line "Fig. 10", the plane "Fig. 11" and the three-dimensional element "Fig. 12".

The children become for a few days thinkers of the city, they appropriate their spaces, they make them their own. They devise and invent their own game spaces, modifying them, living them and enjoying them.

3.5 Landscape

Interaction between the built landscape, the most natural landscape and the intermediate territories. Understand how the people construct the landscape and how the landscape in turn builds us.

3.6 Sustainability

We want to reflect on the way in which we relate to the planet. Make us aware that what is sustainable consists in a balance between what allows us to develop our life and what commits us to the survival of future generations.

We work with the inclusion of green in the cities, for this we will use the system of "seed bombs" of Masanobu Fukuoka. "Fig. 13".

4 RESULTS

"The City of Tomorrow" has worked so far with 2100 children aged between 3 and 15 years, has been made in 13 cities / towns of Galicia (of 12 different municipalities): Rianxo, Milladoiro, Bertamiráns, Verín, Mondoñedo, A Pobra do Caramiñal, Riveira, Bueu, Arteixo, Carballo, Vilagarcía de Arousa, Cambados and Ferrol. "The City of Tomorrow" is a project in continuous development, but each workshop is a finished project.

The results obtained so far are the following:

Prior to the begin of each workshop of "The City of Tomorrow" and with the collaboration of students from ETSAC, the structure, urban planning and cultural heritage of each of the 13 Cities that we have worked so far, this material has become "booklets" that have been used in our workshops and are currently being used in schools to transmit those valuable elements of their environment to new generations of children.

During the realization of each workshop, the children have learned from the playful and through the game, to know their own habitat, they have discovered their heritage, they have enjoyed it and they have appropriated it, they have reconstructed spaces expelling the vehicles and converting them into your game space. They have generated an identity with the space they inhabit.

The impact of the project has gone beyond the young participants in the workshops, inspiring all citizens. The realization of interventions built by children, made the whole society participant, provoking an intergenerational dialogue that enriches the experience. On the other hand, the repercussion in the local media (television and written press) has allowed a greater disclosure, transmitting to society a deeper knowledge of their environment and a strong impulse in the revaluation of the same.

In some specific cases, the analysis and conclusions drawn from the "City of Tomorrow" workshops have even inspired specific urban actions.

5 CONCLUSIONS

"I confront the city with my body; my legs measure the length of the arcade and the width of the square; my gaze unconsciously projects my body onto the facade of the cathedral, where it roams over the mouldings and contours, sensing the size of recesses and projections; my body weight meets the mass of the cathedral door, and my hand grasps the door pull as I enter the dark void behind. I

experience myself in the city, and the city exists through my embodied experience. The city and my body supplement and define each other. I dwell in the city and the city dwells in me". [5].

Paraphrasing the Finnish architect Pallasmaa, inhabit the city and let the city inhabit me. It is an idea that we try to transmit to the children of the workshops through the different activities and actions. From the self, from the being / being in the world, from the body, recognizing the habitat that surrounds us with all our senses, understanding it, making it our own; with the ultimate goal of knowing that you can modify it, for better or for worse. For this, our instrument has been the game, the natural way in which children learn and express themselves. The city as a great board that they discover from the action and from their own movements.

"The City of Tomorrow" in its history has worked with 2100 children aged between 3 and 15 years of different municipalities of Galicia and 30 students of the last courses of the ETSAC, throughout the development of the project we have observed two aspects of relevant importance:

- 1 When we started the workshop, the vision of children about their city is diffuse, disconnected "Fig. 14". The perception of the city and of the habitat in which the children live has changed after carrying out "the City of Tomorrow" workshops, the urban space has become a part of them, they have internalized it, They have made theirs. They have generated links with the place where they live.
- 2 The perception of the city and the habitat for future architects and for those who already are, has also been modified, learning by working with children, has made us consider on aspects of the city that we usually leave out of urban planning manuals. New questions arise: How can we recover the identity of the city? ... How could the city be that place of meeting and exchange again? ... how can we feel safe again between the houses, in the city? ... how can we make the city our place? ... what can we do to stop the city from being something dirty, grey, monstrous? ... which are what motivate us to continue evolving the workshops of "The City of Tomorrow".

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Rianxo City Council, Municipality of Ferrol, Municipality of Vilagarcía de Arousa, Bueu City Council, City Council of Carballo, Verín City Council, City Council of Riveira, Municipality of A Pobra do Caramiñal, City Council of Mondoñedo, Cambados City Council, Arteixo City Council for their financing to the project "The City of Tomorrow / A Vila do Mañá"

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ANNEX



Figure 1. Invasion of urban space. Workshop: "The City of Tomorrow, Riveira".



Figure 2. Transforming the city. Workshop: "The City of Tomorrow, Ferrol".



Figure 3. What would you frame in your city?. Workshop: "The City of Tomorrow, Rianxo".



Figure 4. What would you frame in your city?. Workshop: "The City of Tomorrow, Milladoiro".



Figure 5. Playing with perception. Workshop: "The City of Tomorrow, Vilagarcía de Arousa".



Figure 6. Playing with perception. Workshop: "The City of Tomorrow, Vilagarcía de Arousa".



Figure 7. Working with the scale, of the hand to the horizon. Workshop: "The City of Tomorrow, Verín".



Figure 8. Working with the scale, of the hand to the horizon. Workshop: "The City of Tomorrow, Cambados".



Figure 9. Experimenting with new textures. Workshop: "The City of Tomorrow, A Pobra do Caramiñal".



Figure 10. Transforming the city working with the line. Workshop: "The City of Tomorrow, Cambados".



Figure 11. Transforming the city working with the plane. Workshop: "The City of Tomorrow, Arteixo".



Figure 12. Transforming the city working with 3d elements. Workshop: "The City of Tomorrow, Cambados".



Figure 13. Transforming the city working with natural elements. Workshop: "The City of Tomorrow, Vilagarcía de Arousa".

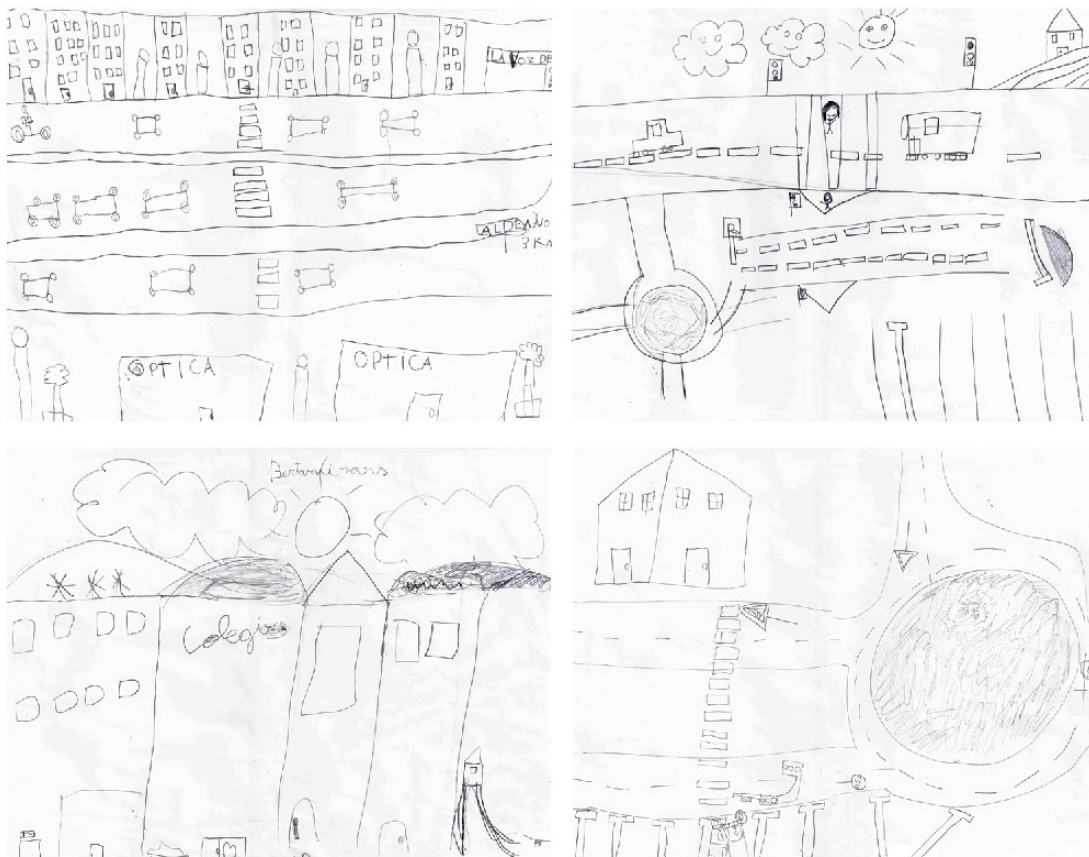


Figure 14. The vision of children about their city. Workshops: "The City of Tomorrow".