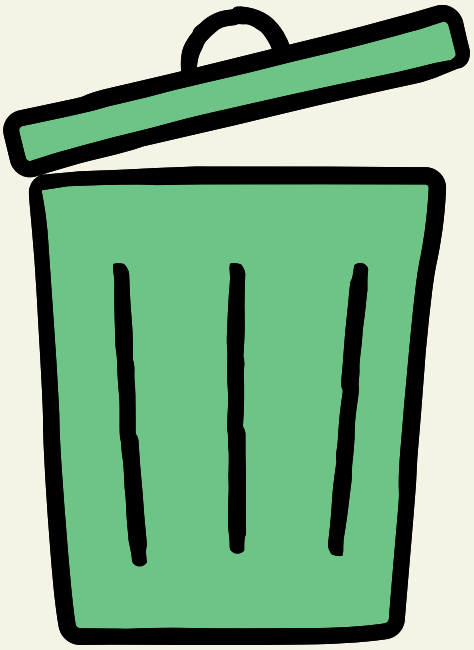
Co-funded by
the European Union

PROJECT N.: 2023-2-PL01-KA210-VET-000174226

Trash Designer

Building a New Profession from What We Throw Away

About the Trash Designer Handbook



Purpose of the Handbook

This handbook serves as a comprehensive introduction to the emerging profession of the Trash Designer—a visionary role at the intersection of sustainability, creativity, and innovation. As environmental concerns and the need for circular economy solutions become increasingly urgent, this guide offers aspiring professionals, educators, and institutions a clear framework to understand, teach, and practice trash design. It aims to highlight the artistic, technical, and social dimensions of working with discarded materials, showcasing how waste can be transformed into functional, aesthetic, and culturally significant objects. By outlining key skills, applications, case studies, and educational pathways, the handbook advocates for the integration of trash design into creative industries and educational systems, empowering a new generation of designers to rethink production, consumption, and value in a resource-constrained world.

What you'll find in this handbook...

- **Historical overview** — A historical overview of trash reuse and upcycling—from Ancient Egypt to modern-day zero-waste art
- **Key skills and competencies** — Including technical, artistic, and soft skills essential for working with waste materials
- **Applications across industries and case studies** — Such as fashion, interior design, architecture, and technology. Case studies featuring pioneering artists and collectives
- **Ethical guidelines** — Educational recommendations for incorporating trash design into schools and training programs
- **Solutions and strategies** — Practical solutions and teaching strategies for implementing trash design courses at various educational levels

The Project

Trash Designer – The Artistic Profession of the Future
Erasmus+ Project No. 2023-2-PL01-KA210-VET-000174226

This handbook is part of a wider European initiative that explores and promotes Trash Design as an emerging, future-oriented profession at the intersection of creativity, sustainability, and education. Developed within a transnational Erasmus+ partnership between Poland, Italy, Romania, and Spain, the project aims to define, support, and embed the profession of the Trash Designer into vocational art education across Europe.
The project responds to growing environmental concerns and the global shift toward a circular economy, positioning trash design as both an innovative creative practice and a socially relevant career path. It supports teachers, students, institutions, and cultural operators in acquiring the necessary competencies to design with waste materials — transforming discarded objects into functional, meaningful, and aesthetically valuable outcomes.
Through international trainings, student workshops, educational materials, exhibitions, and pilot curricula, the project not only raises awareness of the Trash Designer role but also lays the groundwork for its integration into formal education and professional development.

Partners:

- Miejska Strefa Kultury (Poland – Coordinator)
- CIAPE – Centro Italiano per l'Apprendimento Permanente (Italy)
- Liceul de Arte "Constantin Brăiloiu" (Romania)
- Ad Hoc Gestión Cultural SL (Spain)

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01 Introduction and History

With great pleasure, we present a brochure dedicated to a new and innovative profession – the Trash Designer. This emerging field is gaining significance in response to the growing awareness of environmental issues and the urgent need for sustainable development.
However, the practice of repurposing materials and utilizing waste has deep historical roots, dating back to ancient times. As early as in Ancient Egypt and Rome, people found ways to reuse raw materials, treating waste as a valuable resource. During the Middle Ages, various secondary materials, such as metal and wood, were commonly repurposed in craftsmanship, giving them a second life.

Here are a few examples:

1.Recycled Egyptian Vessels
In ancient Egypt, everyday objects, including vessels, were often made from recycled materials such as crushed ceramic fragments or stones. Archaeologists have found numerous pieces of evidence showing that ceramic waste was reused to create new items, especially in the periods following the decline of great civilizations. It is also worth mentioning that damaged metal objects—such as those made of gold, silver, or copper—were melted down and transformed into jewellery.

2.Roman Coins Made from Recycled Metals
In ancient Rome, metals such as silver and bronze were frequently melted down and repurposed to create new coins and other everyday objects. Many ancient coins from this period were made by recycling old currency and other metal items.

3.Recycled Chests and Furniture in the Middle Ages

Between the 7th and 8th centuries in Europe, Byzantine coins were melted down due to the unprecedented rise in the importance of silver currency. During the Middle Ages, furniture made from recycled materials was also popular, with wood from dismantled buildings or unwanted objects being repurposed to create new pieces.

4.The Industrial Revolution

Until the 18th century, most waste was organic. However, with the rise of industry came rapid urbanization, the spread of consumerism, and the development of material science, leading to a greater diversity of waste. In 1810, the first metal cans were patented, and half a century later, plastic packaging emerged. The world's first organized system for municipal waste sorting was introduced in 1895 in New York City, paving the way for large-scale recycling and providing trash designers with materials for creative projects.

5.The 20th Century: From Fountain to Feast

The early decades of the 20th century saw the work of artists like Pablo Picasso and Marcel Duchamp, who can be considered pioneers of trash design. Their sculptures and collages often incorporated discarded objects. The second half of the century marked both the peak of consumerism as we know it today and a fundamental shift in art. Freedom became a key theme—artists were no longer obliged to depict grand or meaningful subjects. Instead, they turned to the mundane, using waste as the perfect medium to portray everyday life.

Artists such as Arman showcased trash in transparent boxes, while Daniel Spoerri captured the fleeting moment of a shared meal by gluing everything on the table in place, including food scraps.

6.Today, It's the Norm

The 21st century has seen a boom in zero-waste art. There is hardly a country in the world that doesn't have artists or designers working with recycled materials. Bordalo II, one of the most famous street artists, creates bas-reliefs on city walls using materials scavenged from landfills. Vik Muniz reimagines classical masterpieces using waste, while Vince Hannemann built an entire "Cathedral of Junk," a striking testament to hyper-consumerism.

Today, in the era of ecological crisis and the pursuit of sustainable development, the trash designer profession takes on a new, practical dimension. This is a role that goes beyond simply promoting waste reuse — it involves creating valuable and functional products from discarded materials, combining creativity with environmental responsibility. As one of the professions of the future, trash design has immense potential, particularly in response to the growing need for environmental protection and waste reduction.
This profession can play a crucial role in transforming the current linear economy — based on the "produce-consume-dispose" model — into a circular economy, where waste is seen as a valuable resource rather than an environmental burden.
By developing high-quality products from waste materials, trash designers can make a significant contribution to sustainable production, helping businesses not only reduce their ecological footprint but also enhance their competitiveness. Integrating recycling into the design process is not just beneficial for conserving natural resources; it also presents substantial material and cost-saving advantages.

A trash designer's work requires a combination of hard and soft skills.
Hard skills include expertise in recycling technologies, production processes, and waste materials, as well as design and engineering skills. A deep understanding of materials and their properties is essential for repurposing waste effectively and sustainably.

Important **soft skills** are creativity, teamwork, communication, and problem-solving abilities. Designing with waste requires not only technical knowledge but also an innovative mindset and flexibility to adapt to changing work environments and material availability.
The trash designer profession goes beyond fashion and art, **integrating skills applicable across various industries**, including manufacturing, engineering, architecture, and technology. It demands a creative approach to problem-solving, allowing waste materials to be transformed into functional, aesthetically pleasing, and innovative solutions. With a balance of technical expertise and interpersonal skills, trash designers can contribute to a wide range of fields, redefining sustainability in design and production.

Hard Skills:

Knowledge of Recycling and Material Reuse: A trash designer understands waste processing methods and how to repurpose materials across various industries, including manufacturing, architecture, and fashion.

- Design Skills: Creating products and solutions from waste materials that are functional, durable, and aesthetically appealing is a fundamental aspect of this profession.

Soft Skills:

- Creativity: Trash designers see potential in discarded materials, constantly seeking new and innovative applications.
- Problem-Solving: They develop efficient waste utilization systems, reducing both waste generation and operational costs.
- Teamwork and Flexibility: The ability to collaborate with specialists from different fields and adapt to changing conditions is essential for working on projects beyond recycling, including sustainable product development and urban design.

Applications Across Various Fields

- Industry: Trash designers develop new materials and production processes based on recycling, helping companies reduce raw material costs and minimize environmental impact.
- Architecture and Construction: They repurpose construction waste, such as wood and concrete, to create sustainable structures and innovative building materials.
- Technology and Electronics: Trash designers design devices and components from waste materials, reducing reliance on natural resources and lowering production costs.

The Benefits of Employing a Trash Designer

- Reduced Production Costs: Reusing waste materials as raw resources can lower expenses related to materials, transportation, and processing.
- Increased Innovation: Trash designers introduce creative solutions that can give companies a competitive edge, particularly in the fields of sustainability and eco-friendly design.
- Enhanced Brand Image: Engaging in recycling and sustainable production can significantly improve a company's reputation, an increasingly important factor for environmentally conscious consumers.
- Compliance with Environmental Regulations: Trash designers help businesses align their production processes with environmental standards and sustainability laws, ensuring long-term regulatory compliance.

The trash designer profession is not just an artistic field—it is also highly technical and business-oriented, with valuable applications across multiple industries. It paves the way for sustainable solutions that benefit both the environment and the economy.

This guide will introduce you to this exciting profession, where ecological responsibility meets creativity and modern design approaches, making it a visionary step toward a more sustainable future.

02

The Argument for Trash Design

Environmental damage and the build-up of landfills have made recycling a norm. When you ‘recycle’ you are returning it back to the daily cycle of having a purpose in society instead of being in the dumpsters. The recycling process involves breaking (usually melting) the product down into its basic raw material (plastic, glass, scrap metal, etc.) and then forming it into new products. However, recycling relies on the idea that the things that we make will inevitably create more waste.

Upcycling, on the other hand, is an energy-efficient method of transforming waste into new products without wasting as much energy required for recycling to reshape and remould the object into a new product. Simply put, upcycling is the process of enhancing a product. The item’s functionality is still the same, however, it looks and serves much better than previously.

Still, a better, long-term type of sustainability in the waste management sector is **Trash Design/Trash Art**, which involves the transformation of garbage or materials considered useless into functional or artistic design pieces. The term “trash design” refers to an intentionally unconventional, provocative, or “messy” style of design that seems to disregard traditional norms of aesthetics and organization. It is often associated with an aesthetic approach that includes elements of "dirt", chaos, disorder, or kitsch, and seen as a manifesto against conventional standards and is seen as a method of expressing creative freedom or social critique.

Trash designing has a strong ecological dimension, as it not only reuses waste but also draws attention to issues of pollution and overconsumption. Trash art may be found in fashion, art, graphic design, web design, and even architecture. Through creativity, trash becomes a resource! Some common characteristics of trash design are:

- Chaotic aesthetics: Deliberate visual combinations that are considered „ugly” or incoherent, often with the purpose of defying standards of beauty and harmony.
- Odd columns, shapes, and typography: The use of inappropriate, disproportionate, distorted fonts or unusual mixtures of graphic elements.
- Overlapping and collision of styles: Excessive mixing of styles and colors that don't traditionally "match" aesthetically.
- Inspiration from mass culture and urban subculture: Elements from pop culture, graffiti, concert posters, memes, and kitsch are often used.

Some examples of how trash designing transforms and redeems discarded objects:

- Furniture from waste: Creating chairs, tables, or shelves from reused wood, metal, or recycled plastic, using wooden pallets, old tires, or metal containers to craft unique furniture pieces.
- Art from recycled materials: Artists and designers transform trash into sculptures or artistic installations. Plastic, metal, or paper objects are combined to create visual works that often make an ecological or social statement.
- Fashion upcycling: Clothing made from reclaimed materials, such as garments crafted from old denim, reused plastic (e.g., bags or PET bottles), or fabric scraps.
- Interior design: Using old household items (lamps, windows, old gates) transformed into decorative elements for homes.
- Construction projects from recycled materials: Houses built from shipping containers or plastic bottles are popular examples.

To sum up, given the need for reducing waste, trash design is emerging as a viable solution even for business. Thus, trash designing as a profession will become more and more relevant in our society, and those specialized in this field will be key players in a future economy built on environmentally friendly practices. Trash designers will be the ones to find creative ways to turn the by-products of the manufacturing process into high-quality materials for making another entirely separate product. They will also be responsible for designing ways to make things with very little waste. The ultimate goal will be waste-free production.
That is why implementing a trash design course in schools could be an innovative and educational way to promote sustainability, creativity, and critical thinking among students.

- The world is changing rapidly due to innovation and digital technologies. Modern industries require new skills. So, the gap between the classroom and the workplace needs to be bridged

03

Skills and applications

The profession of Trash Design requires a unique combination of technical, creative, and ethical skills. As the field gains recognition for its crucial role in promoting sustainability and circular economy practices, aspiring Trash Designers must acquire a range of competencies that enable them to innovate and respond effectively to environmental, cultural, and social challenges. This chapter outlines the essential skills and attributes necessary for professionals in this emerging discipline.

1. Creative and Artistic Skills

Trash Designers must possess a strong foundation in creativity and artistic expression. Their work often challenges conventional aesthetics and transforms discarded materials into something visually appealing or conceptually engaging.

·**Artistic Vision:** The ability to envision new forms, uses, and aesthetics for discarded objects.

·**Design Thinking:** An iterative approach to problem-solving that combines empathy, creativity, and practicality.

·**Experimentation and Improvisation:** Confidence to experiment with unconventional materials and techniques to achieve unique results.

-**Mastery of Aesthetic Styles:** An understanding of diverse visual and cultural aesthetics, including chaos, kitsch, minimalism, and modernism.

2**. Technical and Material Knowledge**

A Trash Designer must be proficient in understanding the properties of materials and the technical skills required to manipulate them.

·**Material Science:** Knowledge of how different materials behave, degrade, and can be repurposed (e.g., plastics, metals, textiles, glass, wood).

·**Types of Materials:** Understanding common waste materials such as:

Plastics: Their classifications (e.g., PET, HDPE), melting points, and reuse potential.

Metals: Characteristics of aluminum, steel, and copper for durable and reusable designs.

Textiles: Properties of natural and synthetic fabrics, and techniques for reconditioning.

Wood: Identifying untreated versus treated wood for safe reuse.

Glass: Techniques for cutting, melting, or fusing glass into new forms.

·**Reuse Potential:** Assessing a material's durability, adaptability, and recyclability for different applications.

·**Craftsmanship and Fabrication:** Skills in traditional and modern techniques such as carpentry, welding, sewing, and 3D printing.

·**Recycling Processes:** Familiarity with recycling technologies, tools, and methodologies.-

-Repair and Restoration: Expertise in repairing or restoring damaged materials to extend their lifecycle.

3. Design Techniques for Upcycling

Upcycling focuses on enhancing the value of discarded materials through innovative design. Trash Designers should master techniques that emphasize creativity and functionality.

·**Deconstruction and Reconstruction:** Breaking down products into components to repurpose them in new ways.

·**Combination of Materials:** Blending contrasting materials (e.g., metal and fabric) to create unique textures and visual appeal.

·**Modular Design:** Creating designs that can be disassembled and repurposed further to extend product lifecycles.

·**Customization:** Personalizing items to fit specific aesthetic or functional needs.

·**Surface Treatments:** Techniques like painting, staining, or engraving to enhance the visual appeal of reused materials.

·**Functional Repurposing:** Transforming waste items into objects with entirely new functions (e.g., turning old tires into furniture).

4. Sustainability and Environmental Awareness

A deep understanding of sustainability principles is central to the profession. Trash Designers must prioritize eco-friendly practices and advocate for waste reduction.

·**Life Cycle Analysis (LCA):** The ability to analyse and minimize the environmental impact of products across their lifecycle.

·**Circular Economy Principles:** Knowledge of systems that prioritize reuse, refurbishment, and recycling.

·**Waste Management:** Understanding how waste is collected, sorted, and processed, as well as identifying opportunities for intervention and innovation.

·**Ethical Sourcing:** Ensuring materials are responsibly sourced and repurposed.

5. Tools and Technologies in Trash Design

The effective use of tools and technologies is critical for transforming waste into functional or artistic products.

·**Basic Hand Tools:** Familiarity with saws, hammers, screwdrivers, pliers, and other essential tools for manual work.

·**Power Tools:** Expertise in using drills, sanders, jigsaws, and other electric tools for precise crafting.

·**Digital Tools:** Proficiency in software such as:

- Computer-Aided Design (CAD): Tools like AutoCAD, SketchUp, or Rhino for planning and visualizing designs.
- Graphic Design Software: Programs such as Adobe Illustrator or Photoshop for branding and presentations.

·**Advanced Technologies:**

- 3D Printing: Utilizing recycled plastics or biodegradable materials for rapid prototyping and product creation.
- Laser Cutters and CNC Machines: For intricate designs and efficient material use.

·**Recycling and Fabrication Equipment:**

- Plastic Shredders: Breaking down plastics into reusable granules.
- Press Machines: For compacting or reshaping materials like metal and plastic.
- Sewing Machines: For upcycling textiles into clothing or home decor items.

6. Social and Cultural Sensitivity

Trash Design often intersects with social critique and cultural expression. Professionals must navigate diverse communities and contexts.

·**Cultural Awareness:** Recognizing and respecting diverse cultural perspectives on waste and reuse.

·**Community Engagement:** Building relationships with local communities to source materials and co-create projects.

·**Advocacy and Communication:** Using design projects to convey critical messages about consumerism, waste, and environmental justice.

·**Collaboration and Teamwork:** Partnering with other designers, engineers, and organizations to maximize impact.

7. Business and Entrepreneurial Skills

Trash Designers often work as freelancers, entrepreneurs, or within niche businesses, requiring strong business acumen.

·**Project Management:** Organizing tasks, timelines, and resources efficiently.

·**Budgeting and Cost Analysis:** Estimating project costs and ensuring profitability while maintaining sustainability.

·**Marketing and Branding:** Promoting designs and educating consumers on the value of upcycled products.

·**Grant Writing and Fundraising:** Securing funding for projects through grants, sponsorships, or crowdfunding.

8. Educational and Leadership Skills

As advocates for sustainability, Trash Designers often educate and inspire others through their work.

·**Teaching and Mentoring:** Sharing knowledge and skills with students, colleagues, or community members.

·**Public Speaking:** Presenting ideas and projects to diverse audiences at events, workshops, and conferences.

·**Leadership:** Inspiring others to adopt sustainable practices and fostering innovation within teams and organizations.

9. Problem-Solving and Critical Thinking

Trash Designers frequently encounter unexpected challenges, requiring resourcefulness and adaptability.

·**Creative Problem-Solving:** Finding innovative ways to repurpose materials that seem unusable.

·**Critical Analysis:** Evaluating the feasibility and environmental impact of design choices.

·**Adaptability:** Responding to changing project requirements or material availability with flexibility.

·**Resilience:** Overcoming setbacks and learning from failures to improve future work.

Different applications of Trash Design

Trash design is not confined to a single industry or form of expression; its principles and practices are being increasingly adopted across a wide range of fields. Here are some key areas where trash design finds its most significant applications:

Fashion and Accessories

In the realm of fashion, trash design has spurred an exciting movement toward sustainability and innovation. Designers are using waste materials to craft unique garments and accessories that challenge conventional fashion norms.

·**Reclaimed Textiles:** Designers repurpose old clothing, fabric scraps, and discarded textiles to create entirely new outfits. For instance, old denim is transformed into jackets or patchwork dresses.

·**Upcycled Accessories:** Materials like bicycle tires, bottle caps, and scrap metal are used to create bold jewellery, handbags, and belts, often with a modern or avant-garde aesthetic.

·**Eco-Conscious Fashion Lines:** Some fashion brands have embraced trash design by launching entire collections dedicated to upcycling and repurposing, raising awareness about textile waste.

·**Runway Art:** Trash fashion often doubles as a form of artistic expression on the runway, using unconventional materials such as plastic bags or discarded electronics to make powerful statements about consumerism.

Interior Design and Furniture

Interior design and furniture are perhaps the most visible applications of trash design, where discarded materials are given new life as functional, aesthetically pleasing pieces for homes and public spaces.

·**Reclaimed Wood Furniture:** Old pallets, barn wood, and broken furniture pieces are reconstructed into rustic or modern tables, chairs, and shelving units.

·**Industrial Aesthetics:** Metal containers, pipes, and machinery parts are transformed into lamps, desks, and other industrial-style decor.

·**Decorative Elements:** Items like old windows, bicycle wheels, or glass bottles are creatively used in wall art, light fixtures, or plant holders, adding charm to interiors.

·**Upcycled Home Improvements:** Reclaimed materials are used in architectural details like staircases, room dividers, or even entire walls, showcasing trash design on a structural scale.

Artistic Installations and Exhibitions

Trash design finds its most expressive and impactful outlet in art, where discarded materials are reimagined as thought-provoking installations and exhibitions.

·**Environmental Sculptures:** Artists create large-scale sculptures from plastic bottles, metal scraps, or e-waste to highlight the problem of pollution and waste accumulation.
·**Interactive Exhibits:** Trash is used to construct interactive art pieces that engage audiences and encourage reflection on waste and consumerism.
·**Kinetic Art:** Some installations incorporate moving parts or mechanisms crafted from old machinery, adding a dynamic aspect to trash art.
·**Public Art Projects:** Communities are invited to contribute materials for collaborative installations, fostering a sense of collective responsibility and awareness.
·**Gallery and Museum Displays:** Trash art is increasingly featured in exhibitions, blurring the line between fine art and sustainable design, and elevating discarded materials to a place of cultural significance.

The diverse applications of trash design demonstrate its transformative potential across industries and artistic disciplines. Whether through fashion, interior design, or large-scale art installations, trash design is redefining the way we perceive waste, offering innovative solutions that combine functionality, aesthetics, and sustainability. By embracing these practices, designers contribute not only to the creative economy but also to a cultural shift toward more responsible consumption and production.

04
Case studies

***robosexi collective*: Toys, textiles, site-specific installation in the context of sustainability. [Poland]**

INTRODUCTION

The use of toys in artistic creation can take many forms, from sculptures to installations or painting, engaging elements of consumer culture in a critical, reflective or creative way. In the context of art, toys are often used to convey important social, environmental or educational themes, considering the context of sustainability.

The use of fabrics in art in the context of sustainability is becoming increasingly popular, as many artists and designers seek to combine creativity with ecological and ethical principles. Fabric-based arts and crafts can make a significant difference in the perception of sustainability, especially when it comes to materials that are sourced in environmentally friendly ways and the use of fabrics in innovative ways.

A site-specific installation is an art form that is created with a specific location in mind, considering its unique features, history, spatial context and social aspects. Such installations can be realized in a variety of spaces - from art galleries to public spaces, to natural or industrial locations. In the context of sustainability, site-specific installations can play an important role, especially in promoting environmental awareness, engaging local communities and using materials responsibly.

robosexi collective (the name robosexi comes from an anagram of the abbreviations of the names of the duo's creators: roxi and sebo) works in performance art, sculpture and site-specific installation. The artistic duo works within critical and social art, dealing with themes of ecology and social engagement.

ARTISTIC PROJECTS

1. **Now they dance before your eyes, someday the ground will grind them out:** This work is a commentary on the overproduction of plastics and the problem of environmental pollution. The artists point out that toys, which are a great joy for children, are also a threat to the environment. The work, however, was created in the context of the duo's autobiography. The artists' daughter threw away all her toys, and not wanting to waste that potential, they created a work of art out of them.
2. **Time capsules:** they collect objects (very often these are toys) from the people who live in a territory and immerse them in synthetic resin. And then they place these resin forms in the holes that are in the facades of buildings, pavements and other places in the city. It is an ‘urban acupuncture’ project.

3. Urban bliss garden: The project was created during the pandemic, when there was an absolute ban on leaving the house. The robosexi duo created huge installation using different types of fabric and plastic waste at an Art Factory in Lodz, Poland. Installation has become a place of respite for pandemic-weary residents.
4. Palace of the Kier: A small, neglected building has become the substrate for artistic action, along with vegetation that appears inside and outside in the form of climbing hydrangeas. The exterior walls are an explosion of color. Simple, organic patches, surrounded by contours: black or white, as it were, are inscribed in the characteristic shapes of the place. The organic irregularities of the building, its dancing aesthetics were an additional inspiration for the painting activity. The main motifs of the Palace of Kier are elements of games: card symbols, dice, dominoes, pawns... and the ubiquitous checkerboard.

IMPACT

robosexi collective demonstrates that:

- Art has no boundaries.
- It is necessary to talk about the dangers that are caused by human activity on earth.
- Art can successfully use waste, garbage, leftovers. You just need to know how to find them and give them a second life.
- Stimulate reflection on consumerism and overproduction.

Robosexi's impact applies not only to art. Their work most often engages local communities by initiating important reflection on responsible consumption and creative reuse of materials. They are not only artists but also pioneers of social change.

RECOMMENDATIONS FOR EXTRAPOLATING THIS MODEL TO OTHER SECTORS

Education program (art, design)

- A special program of teaching at the level of secondary schools and art colleges, incorporating elements of recycling and up-cycling.
- Develop a new teaching model based on sustainability, where recycling and up-cycling are the basis for modern projects.
- Studio visits by students in the studios of artists and designers who use recycling and up-cycling in their practices.

Interior / exterior art & design

- Interior design based on the principles of sustainability and circular economy.
- Art in public spaces created on the basis of sustainability e.g. projects of 'urban acupuncture'.
- Creating outdoor sculptures based on recycling and up-cycling.

Public awareness

- Educational and social campaigns aimed at increasing knowledge about the use of everyday objects in art and design
- Creative workshops open to all interested participants demonstrating up-cycling and recycling in practice.

Innovation and technology

- Collaboration between artists, engineers and designers to develop projects that combine art, technology and the circular economy.
- Promoting sustainability by initiating exhibitions showcasing art and design that use waste

CONCLUSIONS

Using toys, textiles and creating site-specific installations in the context of sustainability offers a powerful way to address critical environmental and social issues through art. The robosexi collective exemplifies how artistic practice can cross traditional boundaries and engage with issues such as overconsumption, waste and ecological damage. Their work highlights the potential for reusing everyday objects, particularly through upcycling and recycling, while promoting awareness of sustainable lifestyles. Through community involvement, they not only create thought-provoking art, but also inspire social change.

The principles presented by the robosexi collective can also be transferred to different sectors, from education to public art and even innovation in technology. By supporting sustainable design practices in schools, public spaces and industry, we can begin to bring the values of sustainability, the circular economy and responsible consumption into our daily lives. As art evolves as a way to address global challenges, it has the power to transform our relationship with materials, nature and each other, ultimately shaping a more sustainable future.

Surindustrialle [Poland]

INTRODUCTION

Sustainability in the context of metal scrap refers to taking measures to minimize negative environmental impacts, use resources efficiently, and promote social responsibility in the metal recycling industry. Key elements of this process include: metal recycling, waste reduction, reduction of energy consumption, cooperation with local communities, social and environmental responsibility.
With the growing demand for metals and the problems associated with the extraction of natural resources, sustainability in this industry is becoming a key element in the fight against environmental degradation and reducing dependence on primary raw materials. Metal recycling is also an important way to support the circular economy, where waste becomes a new resource and product life cycles are extended, ultimately reducing costs and savings.
Artists and designers have long used scrap metal as a material for creating art and designing objects, giving it new life and function. Scrap metal, which for many people is just waste, in the hands of creators becomes a vehicle for aesthetics, innovation and an expression of environmental awareness.
Surindustrialle is an initiative of Andrzej Czapliński, who is an artist who bases his artistic practice primarily on creating from metal waste. He is a scrap metal hunter, and his main goal is to create artistic works in such a way that the objects we know gain a new form and value. Only after a more thorough analysis do we discover what elements the sculpture consists of. In addition to the workshop where Surindustrialle sculptures are created, Andrzej also runs a café where guests can see his works.

ARTISTIC PROJECTS

1. **Scrap sculptures:** Czapliński creates sculptures from what is found in a metal dump. These are pieces of various sizes that are unique artistic objects. By recycling metals, the artist gives them a second life.
2. **Design elements:** Surindustrialle It is also a place where unique design elements are created. These are primarily items for home furnishings such as tables and chairs. In addition, a great variety of outdoor decorations and items for the garden. Czapliński also constructed an artistic rickshaw, well-known in Lodz, which moves along the city's main street. And all this from metal waste.
3. **Scrap metal jewelry:** Surindustrialle also makes jewelry. Jewelry created from recycled metals often stands out for its unique character, as these are often materials with a history. An example is jewelry that uses old coins, tools, or other everyday objects. This adds to its unique character and emotional value.

4.Café Surindustralle: is a unique place where people who like non-standard solutions meet. Activists and people who appreciate unique design. Everyone is attracted by the amazing atmosphere of this place. People who like stories about dwarves and those who appreciate well-made welding will find themselves here.

IMPACT

Surindustrialle is primarily:

- A project aims to make people aware of the importance of metal recycling.
- A project that inspires other artists and designers to use potential trash to create art.
- A project that combines technology, art and design.
- A project that reduces metal waste.

Surindustrialle, thanks to the fact that it makes specific use of metal waste, shows interested people different possibilities of its use. In addition, it is a place with an unusual atmosphere and delicious coffee.

RECOMMENDATIONS FOR EXTRAPOLATING THIS MODEL TO OTHER SECTORS

Education at all levels (art, design, industry)

- Introduce sustainability, circular economy and recycling of metal waste into schools, universities and cultural centers.
- Develop a new teaching model based on sustainability, where recycling and up-cycling are the basis for modern projects.
- Knowledge from the experience of working with metal waste implemented through workshops conducted by people working in this field.

Interior / exterior design

- Furniture made from metal waste such as tables, shelves, chairs, lamps etc.
- Creating elements for gardens such as sculptures and garden furniture, as well as gates.
- Creating a model for the use of metal waste within functional design.

Fashion and accessories

- Using recycled metal to create jewelry such as rings, bracelets, necklaces and other pieces.
- Creating special jewelry for reenactment groups that recreate scenes from history. In this case, the jewelry is almost always custom-made, for the reason that it must imitate vintage jewelry.
- Creating costumes necessary for the creation of films, historical spectacles. Armor, visors and other items related to chivalry can be created.

Cross-sectoral partnerships:

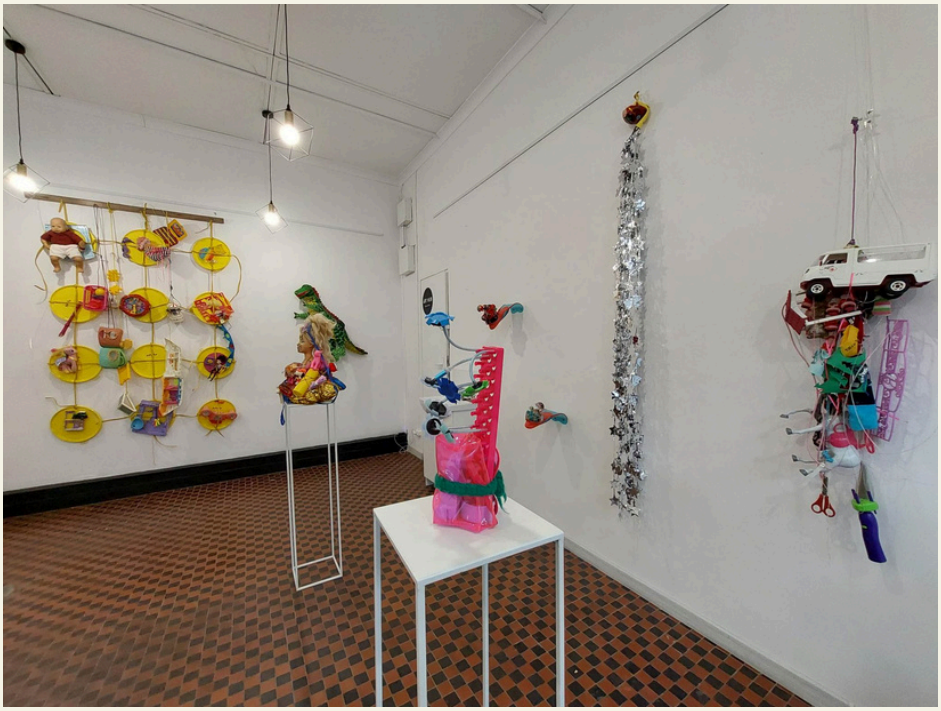
- Collaboration between artists, engineers and designers to develop projects that combine art, technology and the circular economy.
- Promoting sustainability by initiating exhibitions showcasing art and design that use waste.
- Collaboration between waste dumps and artists and designers based on specific agreements that favor the sourcing of materials.

CONCLUSIONS

Recycling metal waste is a process that recovers metals from used materials, reducing the need to extract new raw materials and limiting the negative impact on the environment. Metals such as steel, aluminum, copper, gold, and silver can be recycled many times without losing their properties, making the process extremely efficient and sustainable.

Project Surindustrialle shows in a very interesting way how art and design can be created from seemingly unnecessary waste. The multifaceted activities demonstrate a strong commitment to environmental issues and sustainability, but also to building the local community in the spirit of zero waste.

Designing with metal waste is also a way to promote a responsible approach to production and consumption. By using recycled materials, designers can contribute to reducing waste and conserving natural resources. In addition, such projects often support local craftsmanship, using waste and resources available in the region.



Anna Becherka – BECHANN – Out of passion for creating something out of something [Poland]

INTRODUCTION

An example of a creative business based on upcycling, where creativity meets ecological responsibility. BECHANN is a one-person
company that transforms unused materials into unique works of art, giving new life to items that would otherwise end up in a landfill. Through
upcycling, the brand not only creates innovative products but also promotes sustainability and inspires others to approach waste creatively.

BECHANN is a brand and an art studio created by Anna Becherka that handcrafts modern, upcycling home décor
accessories and jewellery. These are hand-made goods crafted in line with Zero Waste rules; artistic pieces made
from old, worn-out cables, mainly computer cables acquired from the Recycling Centre. The workshop processes
hundreds of meters of cables that were about to be useless.

ARTISTIC PROJECTS

1.Art of Zero Waste: Transforming Discarded Materials into Sustainable Art
At Bechann, the Art of Zero Waste is brought to life through the creation of unique assemblages and mosaics made from repurposed materials, mainly discarded cables and found objects. By transforming what would typically be considered waste into intricate and captivating artworks, Bechann not only embraces sustainability but also offers a fresh perspective on the beauty of reused materials. This approach reduces environmental impact while highlighting the potential of everyday materials to become meaningful art pieces. Through the Art of Zero Waste, Bechann contributes to a circular economy by creating stunning mosaics and assemblages that are both visually striking and environmentally responsible.
They are a perfect décor element of modern interior design. They are available in a wide range of shapes and forms made of useless materials. They also represent the connection between the things the artist sees and feels. They are a fusion of imagination, thoughts and emotions. They talk about an approach to life based on respect and acceptance of the surrounding world. They are the result of the need to create new objects from old ones (computer waste, useless cables) and to eliminate and reduce waste.
Mandalas are assemblages that the artist creates in special circumstances. Inspiration comes to her suddenly and is transformed into shape.

Creating them is a multidimensional journey. Breathing and focusing are like meditation. Shapes and patterns are created freely, but they teach patience and faith in listening to your inner voice. Once heard, it gives hope and confidence in the running of the universe. Usually made to order, they are created with the highest possible good of the customer in mind.
Reusing waste, reducing new resources, finding more uses is a combination passion and work that gives great satisfaction. As a result, contemporary bas-reliefs and mosaics are created. Made to order, individually for each customer, they are perfect as a decorative element of modern interiors.

2. Upcycled Elegance: Modern Jewelry Created from Old Cables and Art Residues
Old cables also turned out to be an excellent material for making modern jewelry. Original series of original women's and men's jewelry are created mainly from remnants generated in the process of creating works of art.
This is a deliberate action aimed at minimizing the amount of waste. The work process has been planned in such a way that the hand-cut material from which the products are made is fully used, without generating waste.

3. Sustainable Fashion: Bechann's Stylish Bags and Backpacks Made from Repurposed Materials
BECHANN brand also creates bags from unusual, repurposed materials. She transforms factory remnants of felt , banners and old fire hoses into stylish bags and backpacks. The handles are made from reused cables, contributing to a unique upcycled design. By using these materials, Bechann promotes sustainable fashion while giving a new life to items that would otherwise go to waste.

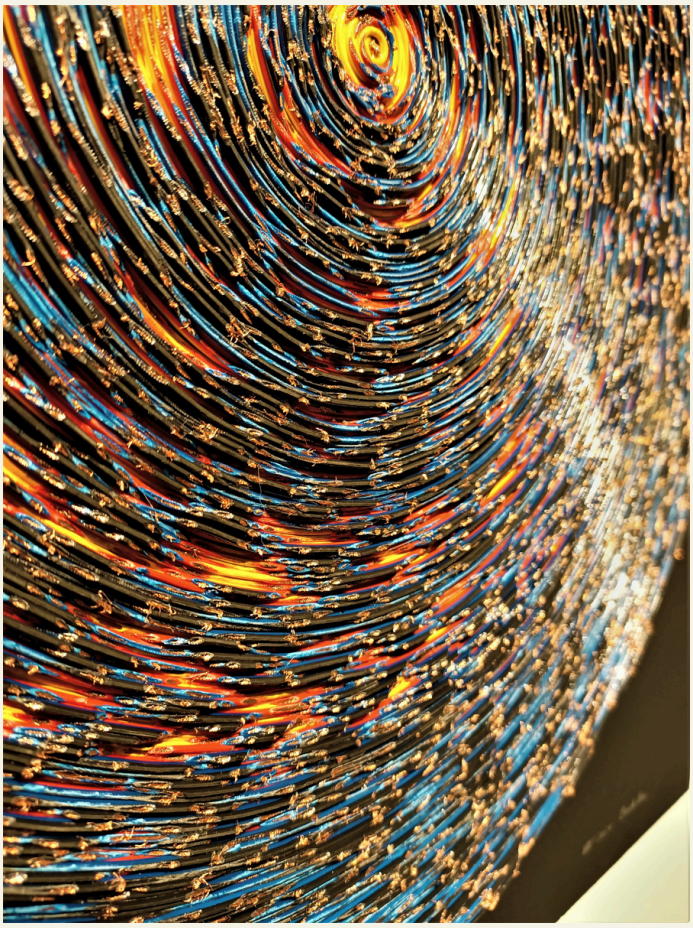
4. Zero Waste Workshops: Create Sustainable Art and Fashion with Bechann
In Bechann’s workshops, participants dive into the world of zero waste art, learning how to give new life to discarded materials. Under the guidance of creator Anna Becherka, participants craft unique artworks, such as assemblages and mosaics, as well as fashion accessories like bags and backpacks, using materials like old cables, felt remnants, banners, and old fire hoses.
The workshops focus on a creative approach to upcycling, where each piece created not only holds artistic value but also promotes sustainability. By repurposing materials that would otherwise end up in a landfill, participants experience the satisfaction of crafting items with a positive environmental impact. The Bechann workshops offer an opportunity to relax, shift perspectives, and explore the potential of everyday resources, turning them into something extraordinary. It’s a perfect space to connect creativity with ecological responsibility, all while gaining a fresh view of how we can see and use our resources.

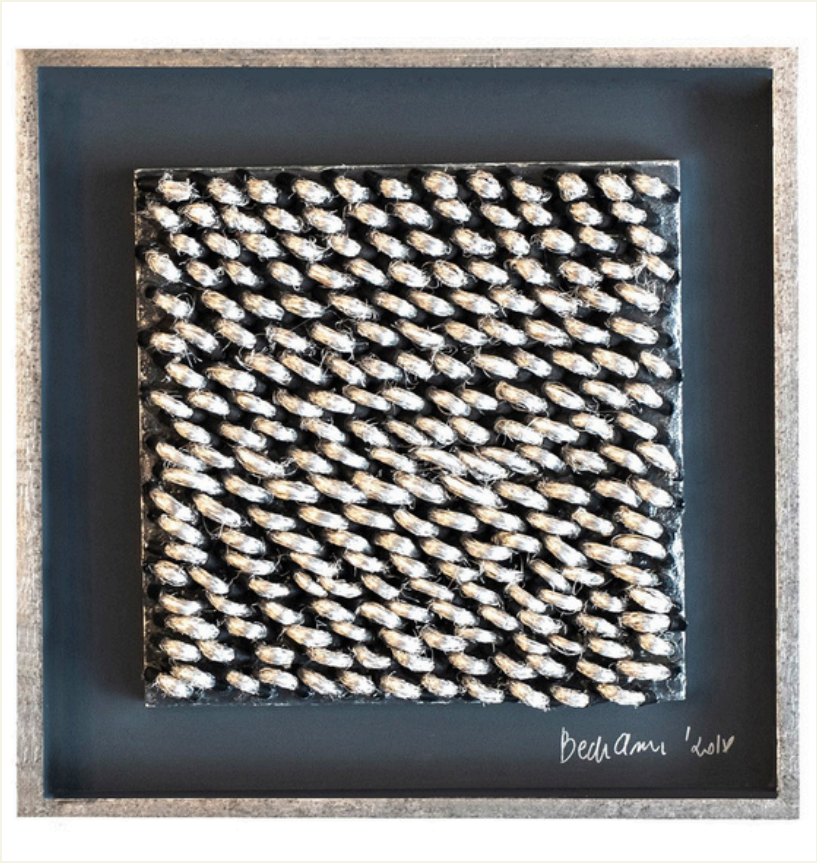
CONCLUSIONS

Bechann, created by Anna Becherka, equals modern handicraft. The brand specializes in crafting unique artworks, mosaics, and contemporary jewelry from upcycled materials, such as old cables, felt remnants, and discarded fire hoses. These products have earned the Certificate of Handicraft Goods (Certyfikat Rękodzieła Artystycznego) from the Polish National Art Workers and Craftsmen Guild (Ogólnopolski Cech Rzemieślników i Artystów).

Anna Becherka, a trash designer and the creator of Bechann, also shares her knowledge through workshops, teaching children, teenagers, and adults the art of upcycling. These workshops not only involve creating decorative pieces but also encourage participants to shift their perspectives and see potential in everyday objects. This approach fosters a deeper understanding of material value, creativity, and environmental responsibility.

In 2018, Anna left the corporate world to pursue her passion for repurposing materials, founding Bechann as a creative upcycling business. Her dedication to sustainability and creativity permeates both her work and everyday life, viewing repurposing as an endless source of resources.




Bechami '2012

RECICLAT [Romania]

INTRODUCTION

Reciclat is an innovative fashion project that merges creativity with environmental responsibility. Initiated by Christian Buză, a young designer and third-year student at the Faculty of Arts in Timișoara, the project was first presented on Earth Day in 2020. With roots in the Arts High School of Târgu Jiu, Buză developed a fashion collection entirely from recyclable materials. The project not only reflects a commitment to sustainability but also challenges conventional notions of beauty and value in the fashion industry.

ARTISTIC PROJECTS

The *Reciclat* collection transforms waste into visually striking garments, using materials such as plastic, paper, metal, and recycled textiles. Each piece is designed to be both aesthetic and symbolic, emphasizing the potential of what is typically discarded. Rooted in the concept of "trash design," the project aligns with a growing international movement that seeks to turn waste into wearable art. This form of design not only expands creative boundaries but also promotes conscious consumption and innovation in material use.

Globally, artists and designers are embracing similar approaches. Exhibitions like *Slow Hand Design* have showcased works made entirely from waste, while initiatives such as *ReCollector* integrate sleek Nordic aesthetics with recycled plastics, demonstrating that functionality, beauty, and sustainability can coexist in design.

IMPACT

Through *Reciclat*, Christian Buză raises awareness about sustainability and responsible consumption within the fashion industry. The project contributes to waste reduction while inspiring new perspectives on fashion's role in environmental issues. It encourages designers and consumers alike to reconsider their habits, prioritize ethical choices, and see value in reuse and reinvention.

Moreover, *Reciclat* serves as an educational tool—illustrating to the public, particularly young creatives, that sustainability is not a limitation but a catalyst for artistic exploration and societal change.

RECOMMENDATIONS FOR EXTRAPOLATING THIS MODEL TO OTHER SECTORS

The *Reciclat* model, which integrates creativity, sustainability, and education, can be successfully adapted to other sectors beyond fashion. For example:

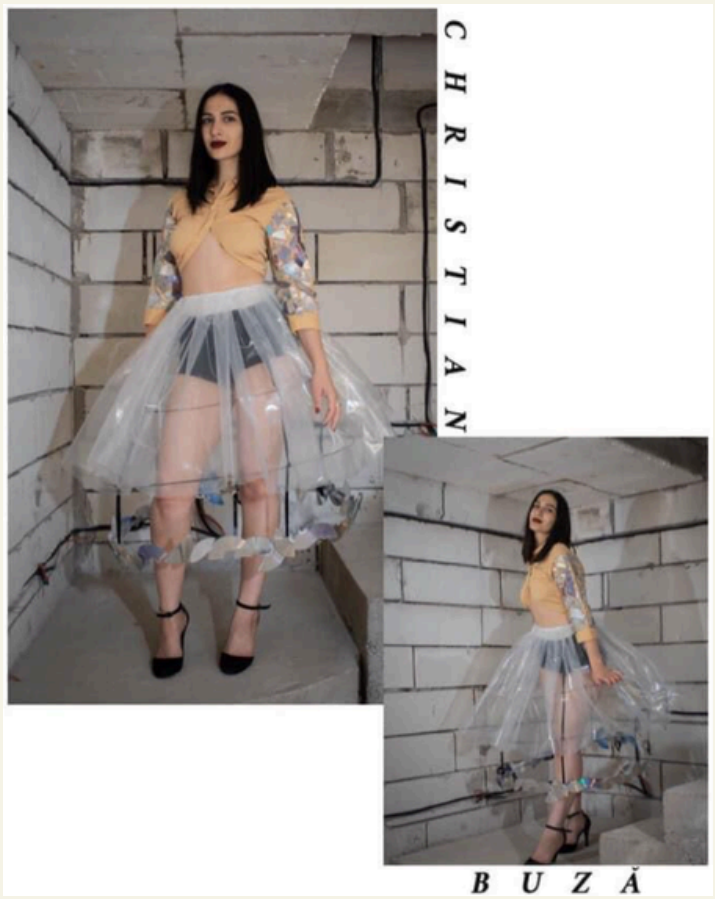
- **Product Design**: Reimagining consumer goods using recycled or upcycled materials.
- **Architecture**: Incorporating waste-based building materials into sustainable housing.
- **Education**: Introducing hands-on, eco-conscious creative projects in schools and universities.
- **Community Development**: Launching local workshops that engage citizens in creating art or utility items from discarded objects.

By embedding sustainability into the creative process, other sectors can replicate this model to foster innovation, environmental responsibility, and community engagement.

CONCLUSIONS

Reciclat is a compelling example of how art and ecological responsibility can intersect to create powerful messages and real-world impact. Christian Buză's work demonstrates that *trash design* is not merely a passing trend but an urgent necessity in today's climate-conscious world. By transforming waste into meaningful fashion, the project challenges us to rethink our relationship with materials, beauty, and sustainability.

To explore how designers around the world are giving new life to discarded materials, we invite you to view the accompanying photo collection.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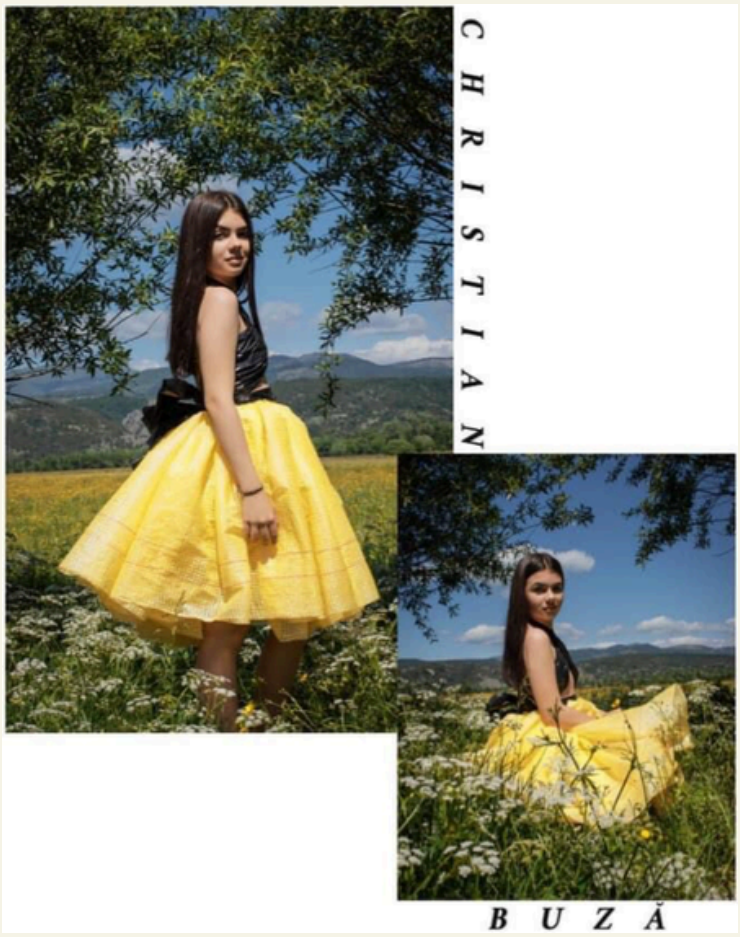
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Eco-Fashion and Harmony [Romania]

INTRODUCTION

The "Eco-Fashion and Harmony" event stands as an inspiring example of how youth creativity, environmental awareness, and artistic expression can converge into a powerful message for sustainability. Organized on Earth Day by students in the Park of the Endless Column by Constantin Brâncuși, the event featured a unique fashion show using only recycled materials and a live choir performance focused on nature and environmental themes. Together, these elements offered a rich, multi-sensory experience celebrating both the Earth and the transformative power of art.

ARTISTIC PROJECTS

1. **The Concept of the Fashion Collection**

The fashion collection presented by the students was a tribute to recycling and the environment. All the garments were made exclusively from recycled materials such as:

· Plastic: Transformed into avant-garde accessories and embellishments.
· Paper: Reinforced and treated to create unique textures and patterns.
· Fabric Scraps: Repurposed into patchwork designs and layered outfits.

The collection's theme revolved around the concept of "Second Life," symbolizing how waste materials can be given new life through creativity and innovation. The garments were both visually appealing and meaningful, each outfit telling a story of transformation and sustainability.

2. The Setting: The Park of the Endless Column

Choosing the Park of the Endless Column by Brâncuși as the venue was both symbolic and strategic:

· Symbolism: Brâncuși's Endless Column represents infinity and continuity, which resonates with the principles of recycling and the circular economy.
· Strategic Impact: The open-air setting allowed the message of sustainability to reach a broader audience, enhancing the impact of the event.

The natural surroundings amplified the significance of using recycled materials, reminding the audience of the importance of preserving nature.

3. The Choir Performance: Harmony with Nature
Simultaneously with the fashion show, the school choir performed songs inspired by nature and environmental themes. The harmonious blend of fashion and music was designed to:
· Amplify the Message: Music enriched the experience, making the environmental message more poignant.
· Create Emotional Connection: The songs, inspired by themes of nature and sustainability, resonated emotionally with the audience.
This dual presentation — visual through fashion and auditory through music — created a holistic experience, reinforcing the importance of environmental conservation.

Challenges Faced
Organizing the event presented several challenges, such as:
· Material Collection: Gathering enough recyclable materials required weeks of preparation.
· Design Limitations: Creating durable and aesthetic garments from unconventional materials demanded creativity and resourcefulness.
· Coordination: Synchronizing the fashion show with the choir performance required meticulous planning and rehearsal.
Despite these challenges, the students' commitment and teamwork turned the event into a success.

IMPACT

The impact of the event was both immediate and lasting:

- Environmental Awareness: Students and attendees gained a deeper understanding of sustainability and the creative potential of recycling.
- Community Engagement: Held in a public space, the event attracted locals and visitors, extending the message beyond the school walls.
- Inspiration: Other schools and youth groups expressed interest in replicating similar initiatives in their own communities.
- Media Visibility: Local media coverage helped amplify the event’s message, reaching a wider audience and reinforcing its significance.

The choice of venue — the Park of the Endless Column — added symbolic depth, with Brâncuși’s iconic work evoking the ideas of continuity, regeneration, and the infinite possibilities of transformation.

RECOMMENDATIONS FOR EXTRAPOLATING THIS MODEL TO OTHER SECTORS

The success of "Eco-Fashion and Harmony" provides a replicable model for integrating sustainability and creativity across other sectors. Key elements include:

- Interdisciplinary Collaboration: Pairing different art forms (e.g., fashion and music) can create more engaging and holistic events in education, community development, or urban planning.
- Use of Public Spaces: Hosting events in symbolic, accessible places can deepen impact and broaden outreach.
- Youth Leadership: Empowering students to lead projects fosters responsibility, creativity, and long-term commitment to sustainability.
- Low-Cost Innovation: Using recycled or discarded materials makes the initiative affordable and scalable.

This approach could be adapted for sectors such as public education, environmental campaigns, community arts programs, and even tourism or cultural festivals aiming to highlight sustainability.

CONCLUSIONS

The *"Eco-Fashion and Harmony"* event is a compelling case of how young people can lead the charge in promoting environmental responsibility through artistic innovation. By reimagining waste as fashion and combining it with the emotional power of music, the students created a transformative Earth Day celebration. The project not only honored nature but also sowed the seeds for future initiatives that blend education, creativity, and sustainability in meaningful ways.

UNA OCA LOCA (A Crazy Goose) [Spain]

INTRODUCTION

The fashion industry is one of the most polluting in the world, responsible for approximately 10% of global carbon emissions and 20% of global wastewater. Textile production, particularly within the fast fashion model, generates enormous amounts of waste and consumes significant resources, including water and energy. Additionally, trends in rapid consumption have resulted in millions of tonnes of clothing ending up in landfills each year, many of which are discarded after being worn only a few times. The environmental impact of the industry also involves the excessive use of toxic chemicals in fabric production, such as dyes and softeners, which pollute rivers and soil. On a social level, working conditions in fast fashion factories are often precarious, with low wages and unsafe environments for workers. These issues have sparked growing concern among consumers, activists, and designers, fueling movements that advocate for sustainability, fair trade, and the circular economy. In this context, textile recycling and upcycling offer viable and creative solutions. These practices not only reduce waste volume but also revalue discarded materials by transforming them into products of higher quality and durability. Furthermore, they encourage a shift in mindset towards responsible consumption, where garments are no longer disposable but are instead cherished as items with history and meaning.

Una Oca Loca, led by Pillar Mesones in Zaragoza, exemplifies how creativity and environmental awareness can converge to transform the fashion industry. Pilar has developed a model focused on textile reuse and emotional personalization, demonstrating that it is possible to create sustainable fashion with a positive social impact.

ARTISTIC PROJECTS

1.Emotional Stitching: Pilar transforms stored garments with sentimental value into new designs, preserving the stories they embody. This approach not only prevents textile waste but also creates a personal and unique connection to each piece. For example, she has repurposed garments from deceased family members into accessories or clothing items, turning them into tangible keepsakes.

2.Textile Craftsmanship: Using fabrics from discarded garments or textile waste, Pilar gives them a second life through cleaning, design, and tailoring processes. She creates unique garments and accessories with high added value. Iconic projects include waistcoats made from ties and bags crafted from reused coffee sacks, seamlessly combining functionality and aesthetics.

Participation in Events: Pilar's collection *"No es basura" (It's Not Rubbish)* was presented at Aragón Fashion Week, featuring garments made from reused materials such as ties, coffee sacks, and old shirts. The collection was widely praised for combining sustainability with high-quality design and originality, showcasing the potential of upcycled fashion.

Education and Awareness: Pilar conducts textile recycling and sewing workshops, teaching techniques to give discarded garments a second life. These workshops not only promote environmental awareness but also empower individuals to adopt sustainable consumption habits. She has collaborated with schools and community centers, inspiring children and adults alike to explore their creativity while caring for the environment.

IMPACT

The Una Oca Loca model has achieved:

- Reduction of textile waste within its sphere of influence.
- Increased community awareness about recycling and sustainability.
- Inspiration for other designers and entrepreneurs to explore the potential of upcycling and the circular economy.
- A bridge between fashion and environmental education, fostering ongoing dialogue about responsible consumption.

Additionally, Pilar has created a profound emotional impact on her clients by offering products that connect with their personal experiences. This emotional connection has expanded the perception of sustainable fashion, presenting it as an inclusive and meaningful process that goes beyond its environmental benefits.

RECOMMENDATIONS FOR EXTRAPOLATING THIS MODEL TO OTHER SECTORS

Education and Training

- Introduce sustainability and recycling workshops into schools, universities, and cultural centers. For example, incorporate upcycling activities into art or technology classes.
- Collaborate with educational institutions to embed circular economy concepts into curricula, fostering skills that link creativity with sustainability.
- Develop digital platforms offering free resources on recycling and creative reuse, encouraging self-education on a global scale.

Strategic Alliances

- Promote partnerships among businesses, NGOs, and local governments to develop sustainable initiatives. For instance, establish material exchange networks between sectors.
- Support events that highlight recycling and upcycling projects, such as sustainability fairs or themed fashion shows, providing opportunities for emerging talents.
- Encourage corporate social responsibility programs that integrate upcycling and recycling projects as part of their sustainability strategies.

Innovation and Technology

- Create tools to facilitate material reuse and optimize sustainable production processes, such as recyclable material databases or apps connecting designers with eco-friendly suppliers.
- Invest in research to develop innovative recycled materials and cleaner production techniques, such as biodegradable textiles or eco-friendly dyes.
- Establish innovation labs where designers, scientists, and technologists collaborate to create integrated sustainability solutions.

Public Awareness

- Design campaigns showcasing the environmental, social, and economic benefits of the circular economy through documentaries, exhibitions, or interactive talks.
- Create spaces for community participation, such as open workshops or sustainable design competitions, to encourage collaboration and idea-sharing.
- Partner with influencers and sustainability ambassadors to amplify messaging and reach broader audiences.

CONCLUSIONS

The work of Pilar Mesones and Una Oca Loca demonstrates that fashion can transcend aesthetics to become a tool for social and environmental change. Her sustainable and creative approach inspires not only designers but also an entire community committed to a more responsible future. Pilar's example highlights the importance of combining talent, vision, and commitment to create a world where fashion and sustainability go hand in hand.

The Una Oca Loca model also underscores that while change begins locally, it has the potential to scale globally. If all sectors adopted similar practices, we could move towards a production system that prioritizes circularity, environmental respect, and long-term value creation for people and the planet.


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JORGE ISLA. VISUAL ARTS AND TRASH DESIGNER [Spain]

INTRODUCTION

Art, in all its forms, has historically been a reflection of the values, conflicts and aspirations of societies. In the 21st century, with the advance of climate change and the growing concern for sustainability, the visual arts have assumed a fundamental role as a means of denunciation, reflection and action in the face of environmental challenges. Environmental sustainability in the visual arts faces a number of challenges, such as the use of polluting materials, the waste generated by traditional practices and the need to question the current model of consumption. In this context, many contemporary artists have chosen themes that address the relationship between humans and their environment, highlighting issues such as planned obsolescence, consumerism and the degradation of natural resources. In addition, the materials used in artworks have also changed. Artists are no longer limited to conventional media, such as canvas or oil paint; they now integrate reclaimed, recycled or found materials, such as plastics, metals and electronic waste. This approach not only promotes the circular economy, but also turns the works into visual metaphors for the human impact on the planet. In this scenario, Jorge Isla stands out as a reference in the use of "electronic waste" to create works that transcend the aesthetic and generate a profound reflection on contemporary society and its relationship with technology. His work is part of an artistic current that seeks not only to document environmental impact, but also to propose new forms of interaction and coexistence between art, technology and the environment.

Jorge Isla. Visual Arts and Trash Designer -Jorge Isla (Huesca, 1992) is a visual artist whose work combines sculpture, video art and photography. Since 2015, his artistic practice has focused on observing and analysing modes of production and consumption in contemporary society, with a particular emphasis on the environmental impact of digital capitalism. His works have been recognised with numerous awards, such as the Guggenheim Museum's Basque Artists Program (2023), and have been exhibited in prestigious galleries and art events internationally.

ARTISTIC PROJECTS

Interior design: This project explores digital culture and its main issues, such as obsolescence and technological waste. Through immersive installations, Jorge Isla creates inhabitable spaces where viewers interact with the works, reflecting on the impact of technology on their lives.

Le Reflet: In this series, Isla uses mobile phone screens to create patchwork installations that reflect the saturation of digital society. These shiny black surfaces function as mirrors that metaphorically capture the essence of the viewer and highlight the limitlessness of technological waste.
Still Life: In this project, Jorge Isla reflects on the use of communication technologies as transformative elements of social and economic structures. Isla converts consumer aesthetics, such as those of mobile phone repair shops, into reflective experiences on the cycles of consumption and repair.
Races and cables / A sea of doubts / Le Reflet: These series critique the pace of digital production and the economy of obsolescence. Isla uses fragments of discarded electronic devices to create works that suspend the cycle of technological renewal, transforming them into artistic canvases that invite us to reflect on our dependence on technology.
Trencadís technique: Inspired by Antoni Gaudí's technique, Isla collects and polishes fragments of electronic devices, highlighting their broken and discontinuous forms. These surfaces of "digital necrosis" underline the exhaustion of resources and pose a critique of unbridled consumerism.

IMPACT

Through his works, Jorge Isla has achieved:

- Environmental awareness: Raise public awareness of the impact of technological consumerism and planned obsolescence.
- Artistic innovation: Incorporating electronic waste as central elements of his works, redefining the boundaries between art and technology.
- Generating debate: To provoke critical reflection on digital culture, highlighting the contradictions between technological progress and sustainability.
- Revaluing discarded materials: Transforming "electronic waste" into unique and meaningful pieces that propose a sustainable alternative to the use of resources.

Jorge Isla's impact transcends the artistic sphere by generating a change of mentality towards responsible consumption and the creative reuse of materials. His work inspires both creators and general audiences to question the current system of production and consumption.

RECOMMENDATIONS FOR EXTRAPOLATING THIS MODEL TO OTHER SECTORS

Jorge Isla's work offers lessons that can be applied in different creative and educational fields:

Educational integration:

- Design programmes in art schools that encourage the use of recycled materials and e-waste as raw materials.
- Provide workshops that teach techniques for transforming technological waste into plastic works.
- Incorporate content on circular economy and creative recycling in design and visual arts subjects.

Promotion of the circular economy:

- Establish partnerships with technology companies to recover discarded materials and reuse them in creative projects.
- Create incentives for the technological and cultural sectors to work together on sustainable solutions.
- Design digital platforms that connect artists with suppliers of recyclable materials.

Cross-sectoral partnerships:

- Encourage collaboration between artists, engineers and designers to develop projects that combine art and technology.
- Organise thematic exhibitions and events that make visible the potential of "e-waste" as a creative resource.
- Establish networks for the exchange of knowledge and resources between artistic and technological communities.

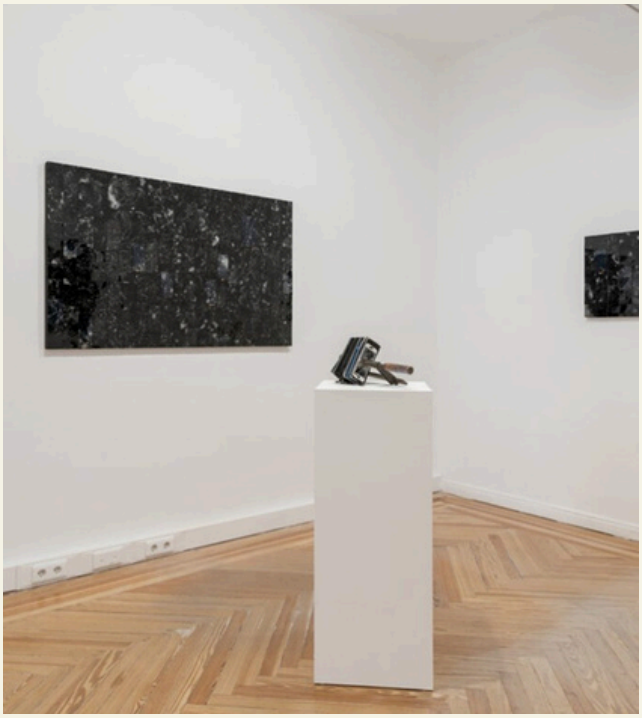
Public awareness:

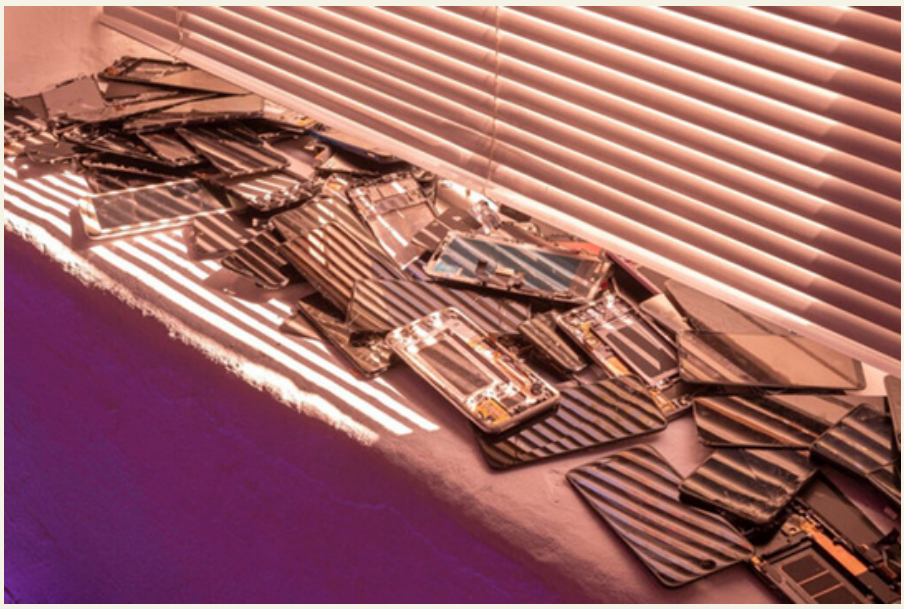
- Design educational campaigns that highlight the environmental impact of technological waste and promote responsible consumption.
- Implement community projects where people can learn and apply creative recycling techniques.
- Promote public recognition of artists working with recycled materials to inspire new generations.

CONCLUSIONS

Jorge Isla's art demonstrates that it is possible to transform technological waste into a platform for environmental reflection and action. His work not only redefines the boundaries of the visual arts, but also inspires a shift in thinking towards sustainability and responsible consumption. Implementing these practices in other creative and educational sectors has the potential to generate a lasting positive impact, connecting art with environmental engagement and promoting a more sustainable future.

Furthermore, Jorge Isla's model underlines the importance of integrating creative reuse into popular and professional culture. His ability to generate awareness and motivate change makes him a reference for projects that seek to unite creativity, technology and sustainability on a global scale.





TRASH DESIGNER AND SCENICS ARTS "River and Game" [Spain]

INTRODUCTION

Within the framework of sustainability and the circular economy, the performing arts have found fertile ground to foster environmental awareness and promote creative recycling. These disciplines not only entertain, but also have the capacity to educate, raise awareness and generate a positive impact on society. By integrating waste materials into their productions, the performing arts not only stand out for their ingenuity, but also for their contribution to the fight against climate change. The role of the performing arts in the fight against climate change is manifested through various strategies, such as the reuse of materials, the reduction of waste and the creation of shows that promote greater environmental awareness. The professionals of the future, such as "Trash Designers", play a crucial role in this process, as their creativity and knowledge allow them to transform what was once considered "trash" into unique sets, costumes and theatrical props. This approach not only reduces the environmental impact of productions, but also inspires other sectors to adopt more sustainable practices. Waste materials offer a range of possibilities for the performing arts. From recycled cardboard and plastics to electronic components and used tyres, these materials can be transformed into innovative scenographic elements, creative costumes or interactive musical instruments. Moreover, their use conveys a powerful message to the audience, underlining the importance of reuse and creativity in building a more sustainable future. "River and Play", promoted by Ecodes, Zaragoza City Council and the PAI street theatre company, is a success story that combines art, play and sustainability. This playful and educational space is designed for children from 0 to 12 years old and uses reused materials to create an environment for learning and environmental awareness. From sensory games to theatrical activities, "River and Play" demonstrates how art and sustainability can converge in an inclusive and transformative project.

TRASH DESIGNER AND SCENICS ARTS "River and Game" is a free play area open to the public that takes place in the surroundings of Expo 2008 in Zaragoza, as part of the children's programme of the Fiestas del Pilar. This project, now in its seventh year, focuses on the reuse of materials and the creation of a space that combines play, learning and environmental awareness.

ARTISTIC PROJECTS

1. **Interactive play spaces:**
   - Giant construction zone: Using tyres, tubes, pallets and other reused materials, children can create large-scale structures encouraging cooperation and creativity.
   - Water and balance games: Spaces with fountains and platforms that challenge motor skills and allow sensory play.
2. **Creative workshops with recycled materials:**
   - Creating masks and figures: Children use cardboard boxes, plastic bottles and other materials to design personalised masks and figures.
   - Recycled music: Workshops where musical instruments are created with reused objects, such as drums made from cans or maracas made from bottles.
3. **Areas of exploration and symbolic play:**
   - Fishing" zone: Children fish for plastic waste in a simulated pond, promoting reflection on recycling and pollution.
   - Underwater Labyrinth: A sensory journey where children explore textures, lights and sounds while searching for "treasures" among reused materials.
4. **Spaces for the little ones:**
   - Espacio Rebebé: Designed for children from 0 to 3 years old, it includes mats, mirrors and soft materials to stimulate psychomotor skills in a quiet environment.
   - Soap bubble zone: Activities that combine visual and sensory play.
5. **Theatrical entertainment and parades:**
   - Travelling theatre: Entertainers dressed as ecological characters invite children to participate in interactive games.
   - Parades: Evening shows combining music, dance and environmental awareness messages.

IMPACT

The "River and Play" project has had a significant impact on both the children and their families:

- Environmental awareness: It has raised awareness among thousands of children and adults about the importance of reuse and recycling, showing that discarded materials can be transformed into play and learning tools.
- Encouraging creativity: Through activities that invite experimentation and exploration, children have developed creative and motor skills while having fun.
- Intergenerational relationships: The space has promoted meaningful interactions between children and adults, strengthening family and community ties.

- Sustainability in the performing arts: It has integrated circular economy concepts into an entertainment format, making it a benchmark of good practice for cultural events.

RECOMMENDATIONS FOR EXTRAPOLATING THIS MODEL TO OTHER SECTORS

Recommendations for extrapolating this model to other sectors
The success of "River and Game" offers valuable lessons that can be applied in a variety of contexts:

Educational integration:

- Incorporate similar projects in schools and educational spaces to encourage the creative reuse of materials.
- Design school programmes that combine play, art and environmental awareness.

Promotion of the circular economy:

- Establish partnerships with local businesses to reuse materials for community events and activities.
- Create incentives for cultural institutions to adopt sustainable models in their programming.

Public-private partnerships:

- Encourage collaboration between local governments, NGOs and arts companies to develop projects that combine sustainability and entertainment.
- Promote the inclusion of training workshops for animators and artists on recycling and circular economy issues.

Community awareness-raising:

- Organise similar events in other municipalities to extend their reach.
- Design campaigns that highlight the educational and environmental benefits of such initiatives.

CONCLUSIONS

"River and Play" demonstrates that it is possible to combine art, play and sustainability in a project that transcends entertainment to become an awareness-raising and learning tool. Its success lies in the ability to transform discarded materials into a valuable resource and in the inclusive approach that encourages the participation of children and adults alike.
This model not only inspires new ways of integrating the circular economy into the performing arts, but also highlights the importance of creating spaces that promote creativity, cooperation and shared enjoyment. Projects such as "River and Play" are a reminder that sustainability can be the driving force behind innovative cultural initiatives, capable of generating a lasting positive impact on communities.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Circular Art and Social Awareness: Laura Buffa's Model for Creative Transformation of Waste [Italy]

INTRODUCTION

Laura Buffa is an Italian artist, designer, and sustainability advocate whose creative practice lies at the intersection of art, environmental awareness, and social change. With a background in visual arts and a profound sensitivity toward ecological issues, she has devoted her career to reimagining waste as a material of value. Based in Rome, Buffa specializes in creative upcycling, transforming everyday discarded materials — such as plastic, textiles, and glass — into poetic, handcrafted objects and art pieces that challenge conventional perceptions of beauty and utility.

Her artistic vision is rooted in the belief that art should serve a civic and transformative purpose, especially in the age of the Anthropocene, where the relationship between human activity and the environment is deeply unbalanced. Through workshops, exhibitions, and collaborations, Buffa uses her work as a tool for education, activism, and social innovation, aiming to foster a more conscious, circular, and inclusive culture. Her approach is not only aesthetic but deeply philosophical, inviting us to rethink our habits of consumption, our connection to objects, and our role in ecological systems.

ARTISTIC PROJECTS

• **Alter Equo**

One of Laura Buffa's signature initiatives, Alter Equo is a creative lab and ethical design brand born as a spin-off of the cooperative Il T-Riciclo. It focuses on gender-neutral design and the creative reuse of waste, producing unique, handcrafted jewelry and everyday objects. Materials such as plastic packaging, bottle caps, discarded textiles, broken glass, and repurposed metals are given new life through artisan techniques.

What sets Alter Equo apart is its inclusive and narrative-driven approach: each piece tells a story, often about consumerism, identity, and the hidden value of what society throws away. In a market saturated with fast fashion and mass-produced goods, these objects challenge standard aesthetics and question the boundaries between waste and worth.

• **"Materia Viva" / Living Matter Series**
In this body of work, Buffa explores the poetic potential of plastic waste — especially the kind polluting natural spaces like beaches and urban corners. Rather than demonizing plastic, she treats it as a living archive of human behavior, transforming it into intricate textures, sculptural forms, and wearable art.
These pieces are intentionally irregular and fragmented, celebrating imperfection and resisting the idea of "clean" or "pure" beauty. The tactile quality of her works — sometimes soft, sometimes rigid — evokes a hybrid language between nature and synthetic material, urging viewers to reflect on how deeply interwoven our lives are with artificial matter.

• **Community Workshops and Participatory Art**
Buffa regularly organizes hands-on workshops and co-creation labs for schools, art spaces, and community centers. Participants are invited to bring their own "waste" materials and collectively transform them into meaningful objects. This participatory process has multiple goals:

- Promote ecological literacy through direct material experience
- Foster collective creativity and dialogue across generations and cultures
- Activate a micro-scale circular economy through local reuse of materials

These projects also double as awareness campaigns, often culminating in public installations, exhibitions, or wearable artifacts that embody a shared journey toward sustainability.

• **Site-Specific Installations and Exhibitions**
Some of Buffa's most powerful work involves site-specific installations that respond to local environmental issues. These may include suspended plastic sculptures that mimic marine organisms, wearable works made from local waste, or installations that turn discarded everyday items into sacred-like compositions.
Each installation becomes an immersive space of reflection, confronting the viewer with the material traces of modern life and their symbolic weight.

IMPACT

- Environmental and Civic: Buffa's work is a micro-example of circular economy, helping reduce waste while promoting sustainability.
- Cultural and Educational: Her works challenge consumerism and reshape perceptions of value and beauty.
- Collective Imagination: Her creations are described as "small sparks of awareness, but highly contagious," contributing to a "psychic collective attuned to change" (laurabuffaonline.com).

RECOMMENDATIONS FOR EXTRAPOLATING THIS MODEL TO OTHER SECTORS

- Sustainable Fashion: Create gender-neutral accessories or one-of-a-kind pieces from discarded materials, highlighting artisanal imperfection as a virtue.
- Packaging & Product Design: Apply the “living matter” approach to packaging by using recycled materials and emotionally resonant design to promote awareness.
- Interior and Industrial Design: Incorporate waste into furniture or decor items to promote circular aesthetics and rethink material life cycles.
- Community Engagement & Education: Organize upcycling workshops for schools and communities to foster creativity and environmental responsibility — replicating Buffa’s “sparks of awareness” model.

CONCLUSIONS

Laura Buffa’s work shows how discarded materials can become powerful artistic and social tools. Her practice merges aesthetics, sustainability, and education — with high replicability across sectors. Her projects teach us that:

- Design can be a driver of collective change.
- Craft-based imperfection generates cultural value.
- Community involvement makes environmental commitment tangible and long-lasting.

Any sector can adopt this approach — turning “invisible” resources into narratives that reshape perception, behavior, and value.

Designing Empowerment: Barbara Annunziata's Ethical and Transformative Approach to Fashion and Urban Regeneration [Italy]

INTRODUCTION

Barbara Annunziata is an Italian architect, designer, and researcher whose work bridges sustainable fashion, participatory architecture, and social innovation. With a formal background in architecture and landscape planning, she has spent over two decades developing hybrid practices that center on care, transformation, and circularity.

Her methodology is rooted in relational and regenerative design: combining aesthetics, ethical production, and community involvement. Whether designing garments that transform with the body or reclaiming neglected urban spaces through collective action, Barbara works at the intersection of creativity, politics, and inclusion. Her projects reflect a deep sensitivity to the material and human dimensions of design — and a commitment to making both visible again.

ARTISTIC PROJECTS

- **4 Cantoni – Urban Regeneration (2005–ongoing)**

Barbara founded 4 Cantoni, a multidisciplinary studio focused on reclaiming forgotten or residual urban areas in historic Italian cities. Using participatory design, tactical architecture, and narrative mapping, the group reactivates marginal public spaces, blending community needs with design interventions.

- **Santarella – Modular Fashion & the "Ruota" Garment (2009)**

Through Santarella, Barbara developed the "Ruota", a patented, transformable garment composed of layered circular panels. The piece can be worn in multiple configurations, allowing wearers to interact with it emotionally and physically. Rooted in both architecture and fashion, this system challenges static norms of clothing. Notably, the "Ruota" was featured in To Rome with Love by Woody Allen, bringing critical design into mainstream culture.

- **Sartoria Sociale Action Women – Social Tailoring (2017–present)**

In Castel Volturno, Barbara launched this workshop to empower migrant women — particularly from the Nigerian diaspora — through fashion design. By teaching tailoring and facilitating self-expression, the project becomes a platform for agency, income, and intercultural dialogue.

- **Made in Carcere Collaboration – Fashion Behind Bars**

Barbara designed accessories hand-crafted by incarcerated women in Lecce. Each piece is made from recycled fabrics and carries with it a dual narrative — of second chances for both people and materials.

IMPACT

- Social: Empowered marginalized communities — including incarcerated women and migrant populations — through design education and employment.
- Environmental: Advanced sustainable fashion practices using modularity, reuse, and upcycling as design principles.
- Cultural: Brought critical, ethical design to mainstream audiences, fostering new perceptions of fashion as activism.
- Urban: Revitalized disused public spaces through architecture-as-activism, turning voids into places of community identity.

Her work repositions design not just as problem-solving, but as a collective, poetic, and political act.

RECOMMENDATIONS FOR EXTRAPOLATING THIS MODEL TO OTHER SECTORS

- Fashion & Retail: Adopt transformable, modular garment systems to extend product lifespan and personalize the user experience.
- Community Development: Use participatory design workshops in under-resourced communities to connect creative labor with livelihood and identity.
- Education: Incorporate co-design methodologies in schools, especially in marginalized areas, to blend skill-building with personal empowerment.
- Healthcare & Well-being: Explore how design can support emotional health, especially among vulnerable populations (e.g. migrants, inmates, youth).
- Circular Economy Strategy: Use Barbara's fashion model as a blueprint for other industries (furniture, accessories, toys) focused on second-life materials.

CONCLUSIONS

Barbara Annunziata's work offers a powerful model of regenerative design that is aesthetic, social, and systemic. Her practice challenges the limits of fashion and architecture, proposing a tender and radical approach to sustainability. By treating design as a relational act, she opens new pathways for cross-sector transformation — where care, inclusion, and beauty coexist.

Her projects are not only best practices, but living systems of resistance and possibility, inviting us to reimagine what design can be — and who it is for.

Upcycling Elegance and Creative Empowerment: Springlab's Model for Sustainable Craft and Community Learning [Italy]

INTRODUCTION

Springlab, led by the artisan Paola Primavera in Rome, is a creative workshop dedicated to upcycling, hand-crafted furniture, wax-print design, and decorative objects Springlab+10Springlab+10Springlab+10. The philosophy behind Springlab emphasizes the transformation of discarded or outdated materials into functional, beautiful items, showcasing how creativity can elevate waste into wonder . They also offer hands-on restoration and decoration courses, fostering both skill-building and creative expression .

ARTISTIC PROJECTS

• **Furniture & Seating (Mobili, Sedute)**
Restoration and re-upholstery of vintage furniture using vibrant wax-print fabrics. Chairs, sofas, shelves, and sideboards are enhanced with bold African patterns and resin accents — like wine box shelves reinforced with brick and resin Springlab.

• **Upcycling Creations ("Piccole Meraviglie")**
A collection of unique decorative objects including:

- PalletFish: colorful wooden fish made from reclaimed pallet wood
- CuorePiatto: heart-shaped dishes from repurposed kitchenware
- BoxLight: wine crate lightboxes featuring LED-lit plexiglass prints
- Microgiardini verticali: miniature vertical gardens using stabilized moss and succulents in vintage frames

• **Upcycling Repairs & Home Decor**
Rejuvenating everyday items — like dented brass trays, broken chair backs, vintage armchairs — through creative intuition, craftsmanship, and enhancement techniques The aim: "from old, a new better one."

• **Workshops & Training**
Springlab offers modular courses tailored to various skill levels: "Change Your Furniture Image", "Repair & Renew Your Furniture", and "Create Your Cassadivina" These hands-on sessions teach restoration, painting, upholstery, and custom finishes.

IMPACT

- Environmental: Extends material life cycles, reduces waste, and promotes circular design through upcycling.
- Social & Educational: Empowers individuals by teaching hands-on craft skills, fostering creativity and independence.
- Aesthetic & Cultural: Highlights beauty in imperfection, fair-trade aesthetics (wax-print), and storytelling through transformed objects.
- Community-led: The workshop is a creative hub in Rome's Pigneto neighborhood, fostering connection and local identity

RECOMMENDATIONS FOR EXTRAPOLATING THIS MODEL TO OTHER SECTORS

- Interior Design & Home Décor: Integrate upcycled decorative pieces (like BoxLight, Microgiardini) into retail offerings — encourage customers to co-create.
- Education & Therapy: Use restoration workshops for skill development, mindfulness, or occupational therapy.
- Small Business Training: Structure modular courses that teach craft and business skills, empowering participants to monetize creativity.
- Sustainable Hospitality: Interiors that feature local upcycled furniture provide unique ambiance and eco-friendly storytelling.
- Art & Culture Events: Host pop-up exhibitions or participatory workshops during fairs/festivals to engage broader audiences.

CONCLUSIONS

Springlab demonstrates how craftsmanship, sustainability, and inclusive learning can coexist in a local creative enterprise. By transforming waste into design, and teaching the process through workshops, Springlab:

- Advocates for the value of artisan imperfection.
- Bridges environmental responsibility with personal empowerment.
- Establishes a replicable framework: upcycling × training × community.

Any sector — be it retail, education, hospitality, or social work — can leverage this model by combining circular-material projects with hands-on skill-building and community engagement.


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05

Challenges and practical solutions

Implementing the “Design from Waste and Upcycling” optional course at the middle and high school levels brings numerous benefits but also poses challenges that require practical, context-based solutions for each school. From managing recyclable materials to engaging students and ensuring the necessary resources, this course relies on a project-based and collaborative approach. Below are the main challenges and several strategies for practical implementation

1. Managing Materials and Organizing Workspaces

a) Identifying and Collecting Recyclable Materials

A major difficulty lies in obtaining a consistent flow of usable waste (paper, plastic, metal, textiles, etc.). Before starting the actual upcycling projects, teachers and students need to secure a stable source of materials.

Practical Solutions:

1. School- and Community-Level Collection Drives: Organize regular events where students and their families bring recyclable materials.
2. Partnerships with Recycling Centers and Local Businesses: Supermarkets, printing shops, tailoring workshops, or other organizations can provide useful leftover materials.
3. Permanent Collection Points: With the school administration’s support, set up special containers for cardboard, PET bottles, and textile scraps, allowing students to pick up the materials they need.

b) Storage and Space Management

Once collected, materials take up space and require systematic organization. The workspace must be safe, well-ventilated, and equipped with basic tools.

Practical Solutions:

1. Setting Up a Creation Corner/Workshop: Dedicate a specific area, whether in a technology lab or a specially assigned room, where materials are labeled and clearly stored.
2. Project Planning in Groups: To avoid crowding, each group of students can schedule access to resources and workspace on a rotating basis.
3. Empowering Students: The teacher can designate “resource managers” or team leaders responsible for organizing materials and ensuring they are reused efficiently.

2. Preparing and Motivating Students

a) Differences in Age and Skills

The course targets students from 5th to 12th grade, and practical skills and interests can vary greatly. Adapting projects to each student's level and maintaining interest is a real challenge.

Practical Solutions:

1. Differentiated Projects: The teacher can prepare different project versions, from simple models (e.g., paper decorations for middle schoolers) to more complex ones (e.g., pallet furniture for high schoolers).
2. Mixed Group Learning: Older students can help younger ones, developing both leadership skills and fostering a cooperative learning environment.
3. Interactive Feedback: Sessions of self-evaluation and peer evaluation within each group can contribute to a constructive attitude toward one's own work and that of classmates.

b) Maintaining Interest and Engagement

In an era when students are overloaded with information and extracurricular activities, an additional optional course can easily lose appeal if not presented in an interactive manner.

Practical Solutions:

1. Thematic Approach: Linking projects to current issues (e.g., plastic pollution in the oceans, sustainable fashion) increases the course's relevance and attracts students' attention.
2. Showcasing Results: Organize exhibitions, presentations, or fashion shows featuring upcycled products to motivate students to make an effort and take pride in their accomplishments.
3. Inviting Experts and Volunteers: Local artists, interior designers, or environmental NGOs can offer demonstrations, short workshops, or lectures to spark students' interest and inspiration.

3. Teacher Training and Development

a) Specific Knowledge of Upcycling and Sustainable Design

Teachers coordinating this course need foundational knowledge on methods of reusing materials, on the tools and working techniques, as well as on safety in workshop settings.

Practical Solutions:

1. Workshops and Professional Development Courses: Holding training sessions for teachers (in collaboration with NGOs, craft workshops, specialized artists) is essential for acquiring technical and pedagogical skills.
2. Experience Sharing: Teachers can form online discussion groups or visit other institutions where this course has already been successfully implemented to exchange resources and methods.
3. Support Materials and Guides: Creating manuals, brochures, or digital platforms with examples of best practices, tutorials, and lesson plans can significantly ease teachers' work.

b) Managing Financial Resources

Even though many of the materials used are recycled, it may be necessary to purchase tools (professional scissors, glue guns, paints, safety equipment, etc.) at times.

Practical Solutions:

1. Dedicated Budget or Sponsorships: The school can allocate a small annual budget for this course or negotiate sponsorships from companies interested in sustainability.
2. Crowdfunding and Donations: Students can launch online fundraising campaigns to buy equipment, involving the local community.
3. Institutional Partnerships: Collaborating with city hall or government environmental agencies can provide additional resources and visibility for the course.

4. Integrating into the School Schedule and Long-Term Support

a) Fitting into an Already Packed Timetable

Students and teachers have very busy schedules, and introducing a new weekly one-hour course can be challenging. Flexibility and coordination with existing subjects are required.

Practical Solutions:

1. Interdisciplinary Partnerships: The course can be combined with classes in Biology, Technology, Visual Arts, or even Computer Science (for digital design), making more efficient use of time and students' skills.
2. End-of-Week Projects: If the timetable does not allow it, some schools can schedule this course on Friday or Saturday as a creative workshop, preventing overlap with mandatory subjects.
3. Intensive Sessions: Some more complex projects can be carried out in a few-hour workshop format on a quarterly basis, rather than weekly.

b) Continuity and Program Development

After the first year of implementation, the course needs to be assessed, adjusted, and enriched to remain appealing and relevant.

Practical Solutions:

1. Periodic Evaluation: Surveys and discussions with students and teachers involved can highlight strengths and areas for improvement.
2. Expanding the Network of Partners: New collaborations with environmental associations, organizing public exhibitions, or participating in eco-design competitions add value to students' projects.
3. Increasing Visibility: Publishing students' work online (the school's website, social media) or in the local press can strengthen community support and sponsorship.

5. Conclusion

The "Design from Waste and Upcycling" optional course has considerable potential for developing practical skills, creativity, and ecological awareness among students, but it also comes with a series of challenges — from logistics and budgeting to adapting projects for various age levels and maintaining long-term engagement. With careful planning, strong partnerships with the community, solid teacher support, and efficient organization of spaces and materials, this course can become a valuable educational tool. Beyond increasing awareness of how waste impacts the environment, students learn to see in seemingly useless objects a resource for creation and innovation. Thus, we shape proactive young people able to seek sustainable solutions and make a meaningful contribution to building a more environmentally responsible community.

06

Ethics and conclusions

Ethical and Pedagogical Recommendations for the Implementation of the Trash Designer Profession

The Trash Designer profession emerges as a creative and sustainable response to today's environmental challenges. In a world where ecological damage and waste accumulation have become critical issues, the Trash Designer is positioned as a professional capable of transforming discarded materials into artistic and functional products, while promoting the principles of the circular economy and ethical design.

The project **"Trash Designer: Artistic Profession of the Future"** aims to promote this new profession internationally, integrating it into non-formal artistic training and raising awareness among young people and professionals about the impact of consumption and waste generation. This approach not only redefines the relationship between art and sustainability but also fosters a new way of conceiving creativity: as a driver of cultural, social, and environmental change.

This document presents ethical and pedagogical recommendations for implementing the Trash Designer profession in art education, along with innovative teaching methodologies and conclusions about its relevance in educational and professional contexts. These elements aim to prepare a new generation of responsible designers while contributing to a cultural transformation that places sustainability at the heart of the creative process.

Ethical Recommendations

1. Awareness of the Environmental Impact of Artistic Creation

- Include in educational programs the teaching of the environmental impact associated with the production and consumption of goods, linking this knowledge to the designer's responsibility to minimize such effects.

- Promote critical thinking about the concept of "waste," encouraging students to view discarded materials not as a problem but as an opportunity for creative innovation.

2. Ethical Use of Recycled Materials

- Teach students how to responsibly select recycled materials, prioritizing those that can be reused without causing new environmental issues
- Encourage transparency in communicating the origin and transformation processes of the materials used in their designs

3. Promotion of Social Responsibility Values

- Develop educational projects that address specific social needs through the use of recycled materials, such as creating furniture for public spaces or decorative items for community institutions.
- Raise awareness about the positive social impact sustainable design can have, particularly on vulnerable communities.

4. Defense of Aesthetic and Cultural Diversity

- Incorporate diverse cultural perspectives on recycling and upcycling, highlighting traditional practices as a means of preserving cultural heritage.
- Promote aesthetic experimentation with "chaos" and "kitsch" to challenge conventional design norms and celebrate boundless creativity.

Innovative Teaching Methodologies

1. Learning Through Real Projects

- Involve students in addressing local environmental challenges by designing products or installations that reuse waste materials from their surroundings.
- Develop competencies in product life cycle analysis to help students understand how to maximize usefulness while minimizing environmental impact.

2. Innovation and Sustainability Laboratories

- Create workshops equipped with tools for transforming recycled materials, such as presses, cutters, 3D printers using recycled plastics, and spaces for creative assembly.
- Foster a culture of free experimentation in controlled environments, allowing students to explore without fear of failure, thereby enhancing their innovative potential.

3. Interdisciplinarity in Teaching

- Combine disciplines such as art, technology, engineering, and economics to approach environmental challenges from multiple perspectives, enabling comprehensive and creative solutions.
- Incorporate digital tools, such as computer-aided design (CAD) software, to plan and simulate the efficient use of recycled materials.

4. Participation in International Networks

- Collaborate with initiatives like Trash Designer and other global projects to exchange best practices, techniques, and innovative educational strategies.
- Encourage cultural exchanges to expose students to diverse approaches to sustainable design across geographical and cultural contexts.

5. Incorporation of Social Critique in Design

- Use design projects as a platform to reflect on societal issues such as consumerism, pollution, and inequality, integrating critical messages into artistic creations.

Conclusions

1.Trash Designer as a Profession of the Future
This profession has the potential to become a cornerstone of the creative and sustainable industries, offering innovative solutions that not only repurpose materials but also educate and raise awareness in society.

2.Education as a Driver of Change
Integrating Trash Design into educational curricula fosters a sense of responsibility among students, preparing them to become leaders in a job market increasingly focused on sustainability.

3.Art as a Tool for Raising Awareness
The works of Trash Designers go beyond aesthetic value, serving as powerful visual messages to educate the public about the importance of reuse and the impact of overconsumption.

4.Linking Education to the Circular Economy
By teaching reuse and sustainable design techniques, schools not only prepare students for the future but also actively contribute to the transformation toward a more equitable and sustainable economy.

5.Culture of Collaboration and Innovation
Cooperation between educational institutions, businesses, and communities enhances the impact of this profession, creating synergies that benefit both the educational ecosystem and society as a whole.

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