### Recycle, ideas from the past

### Kudelić, Andreja; Miloglav, Ina; Balen, Jacqueline

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## recycling and reuse

Recycling is a highly complex, but also a universal phenomenon, whether studied from today's or from the perspective of past cultures and communities. It is a set of social, economic, political, as well as religious ideologies of a society or an individual. However, a wider understanding of the phenomenon has still been neglected within the scope of social sciences and the humanities. The ways and motivation that drove man in the recent or distant past to repair, reuse and recycle objects and /or materials are deeply rooted in different social spheres, but primarily in man himself. The contemporary definition of recycling refers to the collecting of used, i.e. utilized or discarded, materials, as well as to their transformation into constituent raw

materials that are then used to create new products or reusable materials. Collecting, sorting and creating new products can help reduce the amount of waste, replace the need for the original raw material, reduce energy expenditure, and air and soil pollution. In the last one hundred years, people have become highly attached to practicality, availability, fashion, as well as constant technological change, and the increase in mass production has resulted in what used to be unimaginable amounts of waste.

The mission of contemporary recycling practices is to strive towards the reduction of packaging waste, to invest in renewable energy sources, to raise awareness about the negative effects of mass consumerism, to encourage the design of objects that can be repaired, that last longer and are safer, as well as to encourage people to take care of and repair things. All of this includes not only changes in use practices, but also in production, that should, ultimately, have a significant impact on global economy and In the past, recycling was a part of everypolitics, and, consequently, have positive day life and was done almost routinely, just effects on society and the environment. like today. It can be said that the pheno-Recycling and reuse passed through vario- menon of recycling is temporally universal, us phases and had different meanings for and the reasons for it are mostly based on society, starting with the industrial revolu- sustainability, the renewal of resources tion, and leading to increased consumerism and raw materials, meaning that recycling and the creation of a consumer society. was, essentially, of a practical nature. In However, in the past, these activities had the past, recycling was not seen as a moral a completely different meaning, because or ethical choice, nor was it brought on by man's awareness of ecological problems trying to preserve the environment, as it is is connected to the contemporary way of usually thought of today. life and has become a constituent part of Recycling was directly influenced by lot from the past.

## recycling in the past

global economic and political events. The changes in technology and the materials reuse of objects is an indicator of cultures associated with such changes. It also octhat do not discard things, but strive to curred when the value of a certain material reuse them, and from that we can learn a increased in situation when raw materials or artisans who knew how to process it become less available. Changes in the intensity of recycling a certain material in the past can indicate specific economic situations or cultural transformations. Although the practical nature of recycling was of primary importance in the past, just include: pottery (clay), bone, and stone, allocation of individual artifacts.

Despite the complexity of recycling contain traces of use-wear, repairs, reupatterns, today and in the past, evidence of se or material recycling. The main reason this practice can be found in all segments for the frequent practice of repair, reuse of human society, in both recycling and or recycling of objects and materials was reusing everyday things made of different of practical nature, and the focus was on materials (pottery, glass, bones, stone, the maximal usability of raw materials - a metals, textile, wood), and in the "recyc- consequence of limited resources or their ling" of space (structures, cemeteries, limited availability. sacral spaces, and the like).

# materials and

like today, there are numerous examples while artificial materials, such as glass where practicality partially overlaps with and metal alloys, appear somewhat less ideological motives and the symbolic re- often, depending on the studied historical period. Precisely such durable materials

#### STONE

It is evident that technology of knapped stone extended the duration and usability of some artifacts through sharpening, retouching and recycling. There are In the past, man used different natural ma- numerous archaeological examples of terials, and the most common ones disco- using much older, damaged stone tools vered by archaeologists during excavations that were reused, repaired or retouched in a completely different context. In some BONES cases the reuse of a discarded artifact oc-

curred after several thousands of years. Finds of animal bones within the remains of his ancestors.

It is assumed that man consciously colle- of settlements from the distant past are cted, chose, and selected such discarded mostly the result of food consumption. The material, aware of the skill and knowledge availability and the physical, chemical and mechanical characteristics of these mate-

Prehistoric stone axe with a hole for hafting and a damaged axe of the same type transformed into a hammer



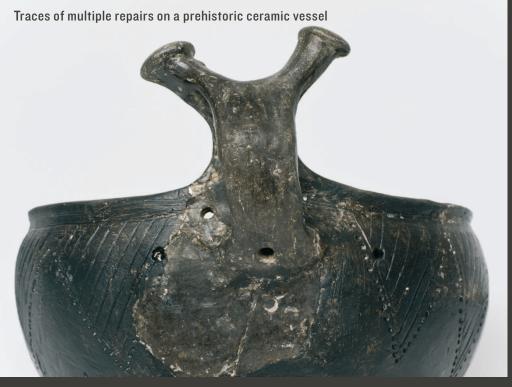
rials make them suitable for the production unreasonable use, so, apart from controlling consequently, to their byproducts. The (the hidden artifact effect). processing of bones, their preparation and Many hoards of bronze finds of the, so called,

#### **METALS**

of different artifacts (tools and weapons, their expenditure/use, it was necessary to decorations, artistic objects, and the like). recycle them. In prehistory, the recycling of Apart from that, it is known that certain metal artifacts (copper, bronze, gold) had a traditional communities ascribed certain significant impact on the amounts of specific characteristics to them (such as stren- artifacts, and such practices can also largth, cleverness, aggression, etc.), and, gely influence archaeological interpretations

transformation into usable raw materials Urnfield culture (I4th-IIth cent. BC) were disrequired special skill, and, if assumed they covered all over Europe. Such hoards contain were also ascribed symbolic properties, the complete, but mostly fragmented artifacts fact that many bone artifacts were repai- that were, at a certain point in time, buried red after being damaged is not surprising. (hidden). It is assumed that the metal finds were buried out of practical reasons (artifacts collected as raw materials for re-melting), even though, from today's perspective, Metal is produced from natural raw mate- it is impossible to completely understand rials - ores that, in the past, as well as today, all the reasons behind such decisions have a significant effect on the development that are, in interpretations, often conneof technologies, and economic and political cted to votive offerings made in the past. progress. These are non-renewable energy Packaging (paper/cardboard, plastic, wood, sources, and their stores are drained through metal, glass, textile) includes everything that, in relation to a product, has the function of protection, transport, use, and informing, and that must, before or during content consumption, be placed aside or discarded, thereby becoming waste. The main difference between packaging today and in ven baskets, stone vessels, or in the ground.





#### POTTERY

cribed to ceramic vessels by individuals and societies, repairs were recorded on vessels Pottery, i.e. ceramic vessels, is the earliest dated to all periods of human history. The and the longest-lasting material used for sto- frequent use and transporting affected their ring, transporting and thermally processing lifespan, and broken and damaged vessels food. Due to the function and meaning as- were repaired in settlements regardless of the high level of pottery production. Eviden- crushed fragments were used to prepare ce of repairing is seen through subsequently water-resistant mortar.

perforated holes near the breaks that were

then tied together with organic materials GLASS such as rope and leather, or with iron or lead rivets. Sometimes the fragments were glued Glass is an artificial material made of natogether with lime, bitumen or birch resin in tural raw materials (obtained by melting order to fixate the vessel body, thereby ma- basic raw materials: guartz sand, soda and king the vessel suitable for some other use. limestone), and was invented in prehistory. Apart from that, broken ceramic vessels In the past, the practice of recycling glass were reused for different purposes, so was probably accepted due to technological that modified and additionally processed and economic reasons such as raw matefragments appear in archaeological and rial shortage, the reduction of production ethnographic contexts as spindle whorls, costs, or the demand for specific products. weights for fishing nets, pendants, game The recycling of glass intensified with intokens, tools used for processing pottery creased production during the Roman peor leather, spoons, warmers, substrate riod and the Middle Ages, and, even today, used to transfer embers, or as moulds Roman glass is highly valued and reused for used to produce new vessels. As building the production of jewelry and other items. material, they are found as parts of the ba- Glass from the latest periods of prehistory ses of hearths or bread and pottery kilns, was recycled in a similar way, thereby attebut were also used to produce ceramic sting to human awareness of the value of tesserae for flooring and mosaics, while resources and the continuity of its use.

Roman-age balsamarium in the process of recycling and renewed production



## symbolic "recycling"

There is a list of examples where artifact reuse became part of a ritual or was purely symbolic. In the past, such activities took place on daily basis, and are still a part of the contemporary lifestyle and relation to

artifacts. In these processes, the main role was played by artifacts that most often did not belong to the period in which they acquired their symbolic meaning, i.e. their "manufacturing date" is probably a lot older, making the artifacts some kind of memorabilia. The reasons for their safekeeping, that is, their symbolic use, are never easy to explain, just like the connection between man and artifact or what it symbolizes. The reuse of the community. In that sense, the meaning of an artifact is not static, but gets transfor- AXES med with the change of its context of use. In

#### POTTERY

und as often, and under as many different tion of disease, misfortune and maleficent circumstances as ceramic vessels or their spells, and were placed into the thresholds, fragments, as attested to by a series of walls and attics of houses. Similar customs ethnographic and archaeological sources. were recorded across Europe, and there is According to this data, the vessel represents evidence that such practices of "recycling" a personification of the human body made stone axes, followed by their symbolic reufrom the soil, as indicated by terms used se, are a lot older and can be traced back to describe its parts (e.g. neck, shoulder to the Bronze Age.

an object does not only include the change or vessel body), and their life expectancy of its function, but can also reflect the social is a metaphor for the life cycles of man. In identity and status of its owner, as well as that sense, the vessels reflected continuity the social, economic or symbolic meaning and identity, and symbolized the birth of life, that the item held for the individual and/or whereas broken vessels symbolized death.

every new situation where an artifact acqui- According to ethnographic sources, acres a new meaning (new function), new rela- cidentally discovered prehistoric stone tionships develop between man and artifact. axes (folk expressions: stone arrows, arrow stones or arrows) from northwestern Croatia were ascribed supernatural powers, especially for the protection from There are no artifacts that have been fo- lightning, the healing of cattle, the preven-

# transformation transformation of structures

living materials that were recycled. The represents the continuity of man's impact exploitation of stone, as well as processing on the environment. Such effects chanand transport, require great costs and ged with generations, cultures and natural tremendous effort, so the reasons for re- conditions. Man's awareness of his own using older stone monuments are primarily transiency, his ancestors and past cultueconomic. In a sense, Roman age cities on res is especially visible and long-lasting the Adriatic became stone queries during once its mark is left on the environment. the Late Antiquity and younger historical Such occurrences can be viewed as the periods. Stone monuments are often found systematic use of the same area, be it for displaced from their original position, and the same, or some other purpose. In thebuilding material that was primarily used se examples, the reasons for "recycling" to construct utilitarian and sacral archi- are highly complex, and enter different tecture is secondarily used for different spheres of the human conceptualization construction purposes (spolia).

Stone is one of the oldest and longest- The transformation of space essentially of both the material and the spiritual, but, this time, in a given landscape.

Even though, in the past, recycling was of practical nature, same as today, examples where practicality partially overlaps with ideological motivation and the symbolic reallocation of specific artifacts cannot be neglected. Despite the complexity of recycling practices, the evidence seen on archaeological artifacts represents potentially very valuable records on the different spheres of life from the past.





#### IMPRESSUM

#### Exhibition authors

Andreja Kudelić (Institute of Archaeology, Zagreb. Croatia) Ina Miloglav (Department of Archaeology, Faculty of Humanities and Social Sciences, University of Zagreb, Croatia) Jacqueline Balen (Archaeological Museum in Zagreb, Croatia)

#### Production design and graphic preparation of the exhibition

Antun Sevšek, Damir Gamulin

#### **Exhibition Associates**

Selena Vitezović (Institute of Archaeology, Belgrade, Serbia) Tomislav Bilić, Ivan Drnić, Igor Krajcar, Dora Kušan, Miroslav Nađ, Ivan Radman-Livaja, Ana Solter, Srećko Škrinjarić, Igor Uranić (Archaeological Museum in Zagreb, Croatia) Snježana Karavanić, Ivana Ožanić Roguljić (Institute of Archaeology, Zagreb, Croatia) Ana Franjić, Ian Freestone (Institute of Archaeology, University College London, United Kingdom) Karina Grömer (Naturhistorisches Museum Wien, Austria) Ivan Alduk (Conservation Department in Imotski, Republic of Croatia Ministry of Culture, Croatia) Jasna Vuković (Department of Archaeology, Faculty of Philosophy in Belgrade, Serbia) Jure Šućur (Department of Archaeology, the Faculty of Humanities and Social Sciences of the University of Zadar, Croatia) Dino Demicheli, Ana Pavlović, Tihomila Težak-Gregl, Martina Rončević, Rajna Šošić Klindžić (Department of Archaeology, the Faculty of Humanities and Social Sciences of the University of

#### Photographs in the leaflet

I. Alduk, I. Krajcar, M. Vuković

#### Technical execution of the exhibition

Siniša Blažić, Ana Đukić, Igor Krajcar, Stipan Kujundžić, Nenad Milić, Stjepan Marinković, Vedran Mesarić, Ivan Troha, Srećko Škrinjarić The realization of the exhibition was financed by the city of Zagreb the Archaeological Museum in Zagreb the Faculty of Humanities and Social Sciences of the University of Zagreb

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Figure on the back

Prehistoric tumulus with subsequent interventions, presumably of military character (from the First World War)















