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Introduction

The Kościan Group (later KG UC) was situated in the northeastern part of the Unetice Culture (UC) ecumene. Within the model paradigms of worldview in the Bronze Age the geographical location of KG determined its definition as a periphery. The main premise of the core-periphery model is the belief that human communities remained in a state of interaction that fed its progress. In the historical situation discussed, a centre was identified with developed proto-state structures, the urbanized areas of the Aegean-Anatolian civilization zone. They were characterized by an advanced division of labour, craft specialization, developed technologies and systems of exchange and transport of processed goods. The territories exploited by the centre were regions with less advanced social structures and less complex economic mechanisms. While for the centre the strategic resources such as metal were a commodity, namely, an element of market economy with a defined exchange value, in the case of core-peripheries the supremacy of the symbolic value of the new materials is postulated; for the local elites they would first of all represent the means for legitimisation of power and a distinct social status. A major feature was the hierarchical line-up. Those were the elites of the centre that decided about the directions and nature of relations with the peripheral communities (Makarowicz 1998, 291–294; see there for more literature). As part of the development of the core-periphery model, local variants of its functioning in relation to the area of Central Europe were posited (Kristiansen 1987; Shennan 1993). According to those suggestions, central areas were supposed to be located in the Alpine-Danubian territories and the region of Central Germany (Shennan 1993, 61; Vandkilde 1996, 261, 299). The advantage of such an approach is the possibility of passing from the macro-scale, characteristic of the classical concept of the core-periphery, to the micro-scale level on which relatively smaller areas along with their specific tempo and character of their evolution can be analysed (Makarowicz 1998, 294).

The key feature for our reflections on KG UC in the core-periphery context is the possibility of creating secondary centres with their own exploitation areas (Makarowicz 1998, 294). In the synthesising presentation penned by B. Zich, KG is considered to be model example of a peripheral group situated in the buffer zone and gaining in significance only for a brief period. The author believes that KG did not reflect the full sweep of changes characteristic of the Central Germany UC centre, which was a proof of its peripheral nature (Zich 1996, cit. in Makarowicz 1998, 295).

In the present paper we would like to discuss anew the question of the nature of the cultural process connected with the emergence and functioning of KG UC. The reason is that, in our opinion, the wealth and degree of complexity of the sources related to the Wielkopolska enclave of UC indicate the existence of a local centre in southwestern Wielkopolska, its distinctive features being a developed economy, exchange and craft production - with metallurgy in the leading position - documented in the Bruszczewo settlement, and the stability of structures of power unique in comparison to the whole Unetice ecumene as displayed by the complex of "princely graves" in Łęki Małe.

The Fortified Settlement in Bruszczewo

Bruszczewo is located in the southwestern part of Wielkopolska. Excavations of the place were conducted in two stages: in the 60s of the past century and over the last ten years by a Polish-German team from the universities of Poznań and Kiel (formerly Bamberg) (Czebreszuk/Müller/Silska 2004).
Fortifications

Years of excavations and a geomagnetic prospection of the settlement allowed to recreate the structure of its fortifications (Ducke/Müller 2004, 64 – 66, 67, Abb. 25). The main elements were a ditch, 4 metres deep in places, and a double row of palisades of big oak trunks (Fig. 1). Additional elements captured in the shore zone of the original lake encircling the headland are two lines of fascine constructions and an outer massive wall built of halved trunks jostled between double posts (Fig. 2). All the elements of the fortifications are considerable in size and display qualities that allow the definition of their military, defensive function.

The width of the ditch in particular sections oscillated between 10 and 22 metres. In all examined sections its depth exceeded 1 metre, reaching 4 metres in the deepest ones. A further obstacle to crossing the ditch was the palisade. The excavations failed to provide evidence of an embankment which was usually raised with the earth dug out during the ditch con-
During the 2004 season a fragment of a wheel hub was discovered (Kneisel / Kroll, forthcoming). Probably in the Bruszczewo case a similar function was performed by the palisades. Today it is very difficult to estimate their original height. The diameter of posts dragged from the bottom of the ditch (ca. 40 cm) and the depth at which they had been fixed in the ditch bed (ca. 60 – 70 cm) give reason to believe they might have even stood 3 metres tall (cf. Ivanova 2008, 136).

At the time of their discovery the constructions erected on the edge of the headland were less than a metre high. As in the case of the palisades’ remains, it is hard to assess their original dimensions. However, basing on single finds of horizontal fallen beams (up to 5 metres long) it can be assumed that here again the constructions reached up several metres. The investigations in the seasons 2005 – 2007 allowed to partially identify the entrance zone of the settlement. A geomagnetic breach in the fortifications recorded during the research corresponded to the gap discovered in the line of the palisade (Ducke / Müller 2004, 63, Abb. 23). Its width (ca. 2 metres) can be also considered in strategic terms. A gate of that size could be effectively defended and at the same time remained functional, namely, it allowed a free movement both of people and animals as well as carts.\(^1\)

\(^1\) During the 2004 season a fragment of a wheel hub was discovered (Kneisel / Kroll, forthcoming).
There is no definite evidence that further constructions existed that might be connected with the protection of the entrance. Numerous findings of daub with impressions of wooden elements (up to 5 cm in diameter) show that the wooden construction was reinforced with clay.

Dendrological research has revealed a preferential and selective use of tree species employed for the building of the palisade. The use of oak could be seen as a deliberate practice to make the demolition of the construction more difficult. Since at a certain age (60–70 years) this species is relatively fire-resistant (Romanowska-Grabowska 1991, 221), it was probably often used as part of the defensive tactics.

The Function of the Fortified Settlement in Bruszczewo

The formal features of the settlement described above explicitly manifest its military potential. All the elements mentioned could provide an effective protection of its inhabitants and their possessions. However, in reference to different regions of the world and to different prehistoric periods another, symbolic meaning of fortified settlements is very often emphasised (Arkush/Stanish 2005, 6; Alusik 2008, 147–148). As aptly noted by Mariya Ivanova in the current debate, a symbolic meaning can be only of secondary character that ensues from the particular object - in our case, a fortified settlement - performing its proper function which is protecting the inhabitants from physical threat. The author does not, however, address in greater detail the issue of additional roles that might have been performed by fortified settlements. We believe that the case of Bruszczewo can demonstrate that in some situations secondary functions could have become primary ones, and that a heavily and consistently fortified settlement need not have meant a permanent threat to the lives of its inhabitants. On the contrary, it may mean a thriving society, enjoying power and prosperity totally unrelated to military might.

First of all, the often quoted argument that links the construction of fortifications with some kind of leadership and labour organisation cannot be ignored. This follows plainly from the logistical complexity of such an enterprise which involved an accumulation of the adequate amount of building material, its processing and organisation of work, to mention just a few arguments (for a contrary view, see Mierziński 1989, 192–193). The scale of the enterprise is very difficult to estimate, since we do not know the number of people who worked on the construction of the fortifications. The results of anthropological studies of the only grave discovered in Bruszczewo offer some idea as to the extent of effort undertaken by at least a part of its population (Fig. 3). They give grounds to state that the man, about 25 years old at the time of death, had performed a very hard and monotonous job of lifting or hauling heavy loads for years. The work led to pathological changes in his skeleton, particularly conspicuous on one side of the body (Iwanek/Piontek/Nowak, forthcoming). It can be hypothetically assumed that the man’s work consisted of dragging trunks used for building and repairing the palisades, or else carrying containers/baskets with the earth dug up during the construction of the ditch. At the time of his death the man was well nourished but the job he had been doing in life caused permanent damage to his health and he obviously had problems in moving (Iwanek/Piontek/Nowak, forthcoming). There are no sources that would directly define the social status of the person we have hypothetically considered to be one of the builders of the fortifications in Bruszczewo. The arduous and health-damaging toil over such a long time does not, however, agree with the image of a local elite member.

Next to the allotment of roles in work related to the construction and repairs of the fortifications another relevant aspect was the employment of a particular technology. Research in the peat zone of the site produced a number of traces linked with woodworking. There was wood waste of hewing and above all a large amount of halved stakes and posts with hewn pointed ends. The analysis of the traces of working visible on the wood found in Bruszczewo allows to state definitely that metal axes were used in carpentry (Kneisel/Kroll, forthcoming). This is a conclusion of considerable relevance. It means that the inhabitants had at their disposal either a sufficient amount of raw material or ready bronze artefacts. It should be also noted that bronze axes, found in very numerous deposits throughout the Bronze Age, probably functioned as ingots of sorts, products that after being used as hewing tools ended up their lifecycle (sensu Köpff 1986) in a metallurgist’s crucible. In this sense the Bruszczewo fortifications provide an indirect proof of

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2 In Bruszczewo there is no trace of an Early Bronze embankment made of earth from the digging of the ditch. The material must have been transferred to some other place. Considering the size of the ditch, it must have been quite an amount of earth.

3 The furnishings of the grave did not reveal artefacts classified as prestigious. The dead man was placed on a wicker mat. At his head there was a roughly worked pottery sherd, and near the hands two stone hammers (Kneisel, forthcoming).
the form in which bronze could have reached the settlement. The “metallurgist’s hoard” described below also contained small bronze axes and a much worn out dagger blade (Fig. 4). They were probably a set of objects intended for recycling.

It can be said, with some exaggeration, that such effective tools like bronze axes (Mathieu/Meyer 1997) played a major part in the success that included not just the erection of massive fortifications but the subordination of a considerable forested area, originally enclosing the settlement, as well. Palinological research conducted as part of the Bruszczewo project revealed a very high degree of anthropopressure around the headland. Intensive farming and animal husbandry economy exposed in pollen profiles inevitably meant deforestation. We believe that the impression of monumentality made by the fortifications of the headland was intensified by the extent to which the immediate environment had been transformed. Pollen profiles from Lake Wonieść, several kilometres away from Bruszczewo, show a small degree of anthropopressure. A fortified settlement in the middle of a tamed farming landscape, with fields and pastures, must have been a central point ever present in the consciousness of the local communities. The surface survey of Bruszczewo’s microregion shows clearly the absence of sites of comparable rank. Hypothetically it can be assumed that for many people the heavily fortified settlement was the most monumental object they had ever seen (Neustupný 1995). Such an image of the settlement conveys an unmistakable message about the features and potential of its inhabitants. Every single stake of the 3-metre high palisade was a proof of the technology, bronze material and the suitable power and group organization at their disposal. The fortifications did not just display the readiness of the inhabitants to defend themselves but also gave them the possibility of controlling a defined space, people and events within the fortifications.

Unequivocal evidence of warfare and violence is practically unknown from the KG area. It is for the most part marginally legible in that period of the Bronze Age (Weinberger 2008). Although lack of proof is not a proof of lack, it is difficult to show potential sources of physical threat in the archaeological material. The only artefacts that could be connected with warfare are small flint arrowheads discovered in the settlement. Their definite estimate that would exclude their use for hunting is impossible, if only because of the presence of wild species bones found in the osteological material.

The KG Metallurgy

Research carried out so far has revealed a considerable amount of sources that confirm local metallurgical production. Apart from the “metallurgist’s hoard” (cf. remarks below) consisting of two axes and a dagger
blade, the settlement also yielded metallurgical tools: a stone casting mould, a casting spoon and two tuyeres as well as finished objects: an axe, a dagger blade and a number of small items including a pin and objects described as awls (Czebreszuk/Müller/Silska 2004:18). Numerous small unfinished objects and metal droplets along with the range of the tools show explicitly that bronze was smelted in the settlement. It cannot be decided whether the finished artefacts were produced by melting old damaged ones, or by combining metallic fragments of tin and copper in a crucible (cf. Kuijpers 2008, 19–20).

The analysis of the components of the material used for objects found in Bruszczewo allows one to ascribe them to two types of copper: Bennewitz and Bresinchen. Following the classification developed by K. Rassmann the artefacts are overwhelmingly grouped within horizons III (2000–1850 BC) and IV (1850–1650 BC). Only one single analysis can be linked with horizon II (2100–2000 BC) (Rassmann...
Metallurgy in the Economic Sphere

One of the elements in the artefact collection in question is a casting mould for solid bracelets (Fig. 4:9) (Czebreszuk/Müller/Silska 2004, 19, Abb. 4). The objects are typical of the territories in western Poland and the mid-drainage basin of the Elbe (Blajer 1990, 46–47). Along with the necklaces with loop endings and Salez type axes, they constitute a group of standardised objects circulated in various regions, possibly used as commodity money (Lenzer de Wilde 1995; Krause/Pernicka 1998; Müller 2002, 272, Abb. 6; Pare 2000, 27–29). They would have a specified weight, modified if necessary (Shennan 1995, 305; cf. contrary view: Moucha 2005, 29, 31). Along with their standardised form, solid bracelets were also made of a precisely specified type of copper. Both features - the form and the material - allowed one to define the quality and weight and, by the same token, the potential value of the objects (Pare 2000, 27–28; Krause 2003, 188–189). The presence of this particular bracelet form in many hoards of the KG region (e.g. Poniec, Kokorzyn) and its local production in the Bruszczewo settlement indicate that KG communities functioned within a precisely defined network of the circulation of cultural patterns. It can be hypothetically assumed that the settlement was a centre that radiated the knowledge of the weights and measures system which was developing in the Bronze Age (Pare 1999).

Metallurgy in the Socio-Cultural Sphere

In Polish archaeology the issue of metallurgy in the socio-cultural sphere was first raised in 2001 by J. Czebreszuk (Czebreszuk 2001, 24–25). His notion of "embedding the era in the sphere of the sacrum", though only briefly mentioned, expresses the problem that faces every archaeologist who studies the life of prehistoric communities. Without going into details of the current debate on the subject, admirably presented by J. Brück (1999), let us confine ourselves to a pertinent conclusion that follows from her argument: a ritual, in the perspective of modern archaeology, is a particular outcome of the post-Enlightenment rationalism and the colonial era, a juxtaposition of the wild with the civilised. In effect - in archaeology a ritual appears when our own judgment, both modern and that drawn from centuries-old accumulation of experience and advancement of natural sciences, fails.

Assuming the inseparability of the everyday, seemingly common aspects of the life of prehistoric communities and their beliefs (Bradley 2005), a presentation of model attempts to account for many phenomena, metallurgy included, could be attempted. As far as the research into early Bronze Age metallurgy was concerned, the postulate aroused no interest on the part of Polish archaeologists, mainly focused on typochronological studies (Gedl 1980, 1983; Blajer 1990). The problem also applies to the sources from the Bruszczewo settlement and the many finds known from the KG area (Blajer 1990, 84–85, fig. 2). The principal hypothesis we would like to test at the present juncture is the idea of the increased possibility of monopolizing metallurgy by the elites in the territories situated at a considerable distance from the ore deposits (KG) that went along with the markedly growing demand for prestigious objects, apparent in the northern zone of the UC in fluence. A brief survey of the existing maps showing the distribution of objects traditionally perceived as prestigious - solid bronze objects. The inseparability of the economic sphere (and not only that!) and ritual in the communities considered will be discussed below. 

4 The term economy has been drawn from the world of modern concepts and used here to bring order to the narrative connected with the potential exchange value of bronze and
handle daggers and halberds - reveals a tendency towards their accumulation in the area discussed\(^5\) (Krause 2003, 187, Abb. 167; Schwenzer 2004, 195, Abb. 2). Seen in these terms, metallurgy would not have been the economic basis of the group’s subsistence but a deliberately employed tool in the hands of the organizers of the exchange, used for winning and maintaining their privileged status in the community.

A number of deposits containing metal artefacts, sometimes with one standardized type of items - known as Barrenhorte - were discovered in the circle of the UC influence, including the Kościan Group (e.g. Bennweit / Radostice / Havalda / Poiniec; Krause 1998, 171, Abb. 7; 2002, 47, Abb. 1; Moucha 2005, 106, 146; Blajer 1990, 109 – 110). Their definite interpretation is complicated. On the one hand, the evident grouping of particular products into collections of a defined size (e.g. the Ragelsdorf hoard, cf. Müller 2002, 273, Abb. 7) and their standardization that can be sometimes observed give grounds to believe that we are dealing with objects functioning as commodity money (Lenerz de Wilde 1995). On the other hand, however, the conditions in which many hoards had been hidden indicate that there was no intention of recovering the deposited artefacts. The latter circumstance leads us to believe that because of their value in some cases the hoards constituted, as it were, a “gift to the gods” (Junk / Krause / Pernicka 2001). Apparently, a separate group of the stored objects, mainly because of their symbolic value, were daggers and halberds (Fig. 5) (Hansen 2002, 156 – 160). They also came up in territories free of the specific forms of barrow burials (the “princely graves”), thus possibly performing a similar function as a symbol of prestige and of access to bronze metallurgy.

Potentially, then, the control over the metallurgist production in Bruszczewo was not just a monopoly hungry for economic profit but might be connected with an important role of the settlement in the ritual

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\(^5\) The interest of the peripheries (in our opinion, peripheral to KG as well) in the new material in the form of prestigious objects was most vividly demonstrated in the flint imitations of bronze artefacts (Rassmann 2000; Czibreszuk / Kozlowska 2008). It is worth noticing that linguistic studies point at the possibility of an erroneous judgement of the archaeologists concerning the interpretation of flint forms whose shape referred to bronze products. Following linguistic findings about the nomenclature connected with metallurgy, in the early stages of the dispersion of the new material an identical approach to stone, amber and metal can be assumed (Kowalski 2000, 205-208).
life of the region. In this perspective, the economy of the site might be defined in terms of a *prestige economy*, i.e. a system based more on symbolism and manipulating with social relations, and in which activities in the ritual sphere and broadly understood *sacrum* are an inherent element of economy (Kim 2001, 462 – 463). The fundamental paradox of the popularity of bronze lies in the nature of the copper and tin alloy - their ores are very rarely found together in bigger amounts (Pernicka 1998, 135). Because of this, the advent of bronze forced those wishing to come into its possession to intensify contacts and exchange. Along with the expanding acquaintance with the metal went the knowledge of its properties, methods of working, and also a package of cultural associations which in a short period led to similar cultural behaviours over the extensive area of Central Europe (cf. below, remarks on the cemetery in Łęki Małe). Metallurgy connected with the Unetice Culture circle probably was not just a technological innovation. The expansion of the new material was in all likelihood accompanied by a whole range of cultural behaviours related to the production and employment of the metal.

The metallurgy of the Unetice circle was of specific stylistic and formal character. Despite regional differences the most important elements, such as the production of halberds, daggers and a number of specific ornaments, remained unchanged. A major feature that confirms the unity of the Unetice metallurgy was also a similar technology, visible e.g. in the use of a stable instrumentation of metallurgical tools. An artefact discovered in 2007 in the Bruszczewo settlement is particularly telling in this context. It is a small object pointed at one end and spatula-shaped at another, with a thickening in the middle (Fig. 6) (Moucha 2005, 473, Table 179). The object has not been ascribed any functional definition, a fact reflected in various terms used to name it. Beside “an awl” (German Pfriem) (Moucha 2005, 128, 164) the tool was also dubbed “a punch” (Sarnowska 1969, 139). The terms suggest some connection with hide or metal working. A scrutiny of the context of analogous findings permits a claim maintaining that the second interpretation is highly likely. The deposit from Skarbienice contained a tool of such type with bronze ornamentation, a chisel with parallel ends, an axe, a spoon-shaped axe and a bronze rod (Fig. 7). The circumstances of discovering the deposit indicate that it was furnishings of a grave rather than a hoard (Sarnowska 1969, 139 – 140). W. Sarnowska took the metal rod to be a “straightened bronze bracelet” (Fig. 7a); in view of the present findings it should be seen as a half-finished product of a necklace with loop endings or a specimen of the so-called *Ösenringbarren*. The last of the objects was long accepted to be a half-finished product for making other artefacts. Metallographic studies, however, revealed that an astonishingly large number of such objects were preserved in the archaeological material. It was also observed that the majority of those objects were deposited in, at times, very big collections. This gave rise to two hypotheses. The first one points at the possibility of producing a concrete type of object, with defined material properties and so with value as well, specifically with the aim of ritual depositing.

The second one suggests that these products should be perceived as commodity money (Krause/Pernicka 1998). The relative wealth of the furnishings in the apparent burial from Skarbienice, manifested by a spoon-shaped axe interpreted as one of the sta-

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6 We believe that one of the arguments supporting this opinion is the lack of metal products in the area of the Mierznowice culture at the time. As observed by S. Kadrow, the communities seem to have been deliberately excluded from the UC circulation of cultural patterns (Kadrow 1998, 407). Of course, it cannot be determined now which side decided the state of affairs. Yet it is worth reflecting whether the reasons, apart from the absence of individuals/groups that might have initiated a far-reaching exchange, were not ideological and cultural which the communities in question could have been aware of. Hypothetically, it can be assumed that in some cases they could have brought about conflicts (cf. remarks: Jockenhövel 2006, 105, 108).

7 The monograph on the hoards from the Early Bronze Age by W. Blaier (1990) does not include the find among the group of deposits either.
It can be assumed that wood working was one of the crafts with rich cultural associations. Metal axes helped to effectively tame the new land for cultivation. In the case of chisels, sources from other regions offer some insight into the meaning of their skillful use. From the Nordic zone we know specimens of specific campstools and wooden cups decorated with tin nails traditionally ascribed to the higher social class (Kristiansen/Larsson 2005, 57 – 58) as well as objects confirmed in rock art, such as boats and chariots whose production undoubtedly involved a high level of skill (Larsson 2004; Kristiansen 2004). There is no such legible source base for the Unetice culture, but the fact of depositing chisels in specific rich contexts such as the princely grave from Leubingen (Hansen 2002, 152, Abb. 1) justifies the analogy.
around, the importance of manipulating with the added value - meaning - might have grown, if only by elaborating rituals. The modern world has not gotten rid of this characteristic, either. David Fontijn cites in his work (2002) an interesting analogy with today’s wedding rings which acquire the appropriate symbolic meaning solely in the course of the wedding ritual. In this sense, they have no meaning as such except for that involving their physical intrinsic features.

In the KG region, situated away from ore deposits, getting the material and knowledge of its working must have involved starting and maintaining an exchange network. As opposed to the modern world, all object transfers presented on the distribution maps beloved by archaeologists meant a physical relocation of people (cf. Jockenhövel 1991). In prehistoric communities the value of experience and knowledge related to traversing space was immense and often underwent mythologisation and sacralisation (Kristiansen 2004, 445–447). Distance was always connected with the social, political and, above all, ideological significance (Helms 1988; Kristiansen/Larsson 2005, 32–61). Each journey meant crossing the boundaries of a symbolic, cosmological, and sometimes probably also ethnic kind. Today it is not possible to exactly capture those boundaries. Archaeological sources, like the so-called Passfunde to give an example, reveal how natural barriers such as mountain ranges or rivers were of little importance (Mayer 1978; Bader 2001).

Although cited above, Kristiansen’s and Larsson’s work dealt mainly with the interaction between the Aegean zone (in two stages: the Minoan and Mycenaean), the Carpathian Basin and Scandinavia. There is considerable evidence that the territories of the Unetice ecumene stayed within the orbit of southern influences as well (Gerloff 1993; Sherratt 1993). R. Krause pointed at the potential role of Balkan-Aegean impulses in the development of the technology of tin bronze metallurgy in Central Europe. In his opinion the material manifestation of the impulses coming from those regions were the foreign forms of metal artefacts known from the hoards in Kyhna and Melz II. The objects found in these collections (a spearhead and a unique form of halberd) had foreign stylistics but were made of local material (Krause 2003, 247–249). Some of the products typical of Unetice stylistics were very widely distributed. The distribution of Cypriot pins - ornaments, in other words personal items - to some extent connected perhaps with relocation of particular individuals, suggests a wide area of interaction as early as the young stage of the Early Bronze Age (Sherratt 1993, 22). The links of the Unetice zone with the Early Bronze Age civilisation in the territories of Brittany and the Wessex culture were probably of no lesser significance. The “princely graves” known from Helmsdorf, Leubingen and Łęki Male shared many features with the rich burials in those regions (see below).

The prestige economy model assumes the existence of a leading group - the elites. In the Bronze Age case there is a fairly widespread opinion that such a group evolved in many regions of Europe (cf. Eliten in der Bronzezeit). Many of the models accounting for their existence and emergence were subjected to criticism for drawing on the Marxist idea of perceiving communities as remaining in a permanent state of inner tensions between particular interest groups or individuals (cf. Czebreszuk 2001, 37–38). The objections could be justified only if we assume that the said tensions led in effect to an asymmetrical growth in the wealth of one group at the cost of another. Such an approach to the inner divisions of the human community arises from the mistake of projecting the pattern of relations known, say, from the early feudal historical Europe onto all instances of managing production processes.

In order to get the necessary material on an exchange basis it was essential to possess an equivalent. Apart from amber known from Bruszczewo, it could have included part of the goods produced by the group (not necessarily a surplus!) defined by the group’s leader. One of the models which explains the functioning of a primitive society is redistribution. The model assumes there existed the institution of a chieftain, or leader. It was he who defined the size and character of the group’s production and accumulated its effects. His duty, however, was also the distribution of goods and their use for the benefit of the whole community. The last of these functions could be realised on different planes: from organisation of the exchange to supporting crafts or war and the organisation of religious ceremonies (Sahlins 1992, 135–136). It seems that hypothetically the functioning of a similar model in the Bruszczewo settlement can be accepted. An effective economic system could constitute a commodity basis for the redistribution process controlled by an individual who led the community thanks to his personal traits, charisma and prestige (Kadrow 2001, 160–161). A certain part of the group’s produce would in such a case form an element subject to the actions of the chieftain (Kim 2001) who, the possibility of activating the exchange in their hands, would obtain goods (in this case bronze objects or material for their production) later consumed during religious ceremonies (here, hoards deposited, for example, in the form of the potlatch ritual). Redistribution unites the group by sustaining its collective effort and at the same time consolidates the ruling system of subordination to the existing centre (Sahlins 1992, 136). Although the presented model is “an old chestnut”
Fig. 8. Grave finds from barrow no. 1 in Łęki Małe (after Czerniak 2008).
and was many times criticized, we believe that with adding some elements of J. Kim’s proposals to it, it could be applied to the reality under consideration. Controlling prestige economy involves a number of practices in the sphere of symbolism and manipulating symbols and prestige goods. This is a system that not always follows economic principles. In effect, prestige economy turns economic capital (e.g. surplus or part of production) into political capital. Within this system accumulation of prestige is not achieved by raising productivity (e.g. by increasing the quantity of luxury goods) but raising their quality and value by limiting their accessibility. The profit derived from prestige economy is not directly proportional to surplus growth or part of the exchanged produce; it depends on the successful moves in the field of manipulation with meaning and creation of the added value of prestigious goods along with searching for new sources of prestige capital. The last of the intended targets could be reached by introducing new objects of prestige as well as new information concerning them and a new ideology - a point of utmost significance (Kim 2001, 463 – 464). Thus, the strength of the elites in the economy type discussed does not solely derive from the production of prestigious goods but overwhelmingly from having the ability to confer on it the value added - meaning. The main notion in this case is the assumption that the process of production and use of a particular object as well as observing and experiencing it results in bestowing upon it a set of associations, emotions and feelings (Fontijn 2002, 23). The metal that might have reached the Bruszczewo settlement in the standardised form of axes - ingots, for example, was only a thing, a commodity; it became a value only as a result of appropriate procedures, rituals included during the working process; by marking it in the right way (vide: the punch from Bruszczewo) with the ornament and giving it form, e.g. of a dagger or halberd (Fontijn 2002, 25 – 26). Obviously, to be able to employ model explanations similar to the above for the case in question - the settlement in Bruszczewo - it is necessary to consider the casus of Rybiny mentioned earlier. In this small, open Early Bronze settlement fragments of at least two tuyeres were found (Makarowicz 2000, 90). The author of the research made an attempt at explaining the most inventory related to metal working. He drew upon the conception of J. Levy (1991), which postulated the possibility of distinguishing two groups of metallurgists differentiated by the degree they had mastered the technology. Similar reflections accompanied the interpretations of the visible differences in the quality of grave furnishings from Nižna Myšl’a (Olexa 1987) which can be related to the hypothetically assumed two-way character of metallurgical production (cf. above). Following deliberations of J. Levy, it has to be accepted that the division of competences in the groups of metallurgists should be reflected in the range of the discovered products. In the case of Unetice metallurgy the objects that probably were not made in workshops of a household type (vide: Rybiny) were e.g. halberds, but they could have been axes (Kienlin 2007). The prestige economy model offers a possible answer to the question of why throughout the Bronze Age metal found no application in the production of artefacts connected exclusively with a subsistence economy (Kim 2001), of objects that had solely utilitarian and functional meaning, the way we can observe on the example of iron which, after a brief period of operating on the symbolic and aesthetic plane (Pleiner 2000, 7 – 8), was relatively quickly reduced to the position of a common material.

The Cemetery of “Princely Graves” in Łęki Male

The burial forms known as “princely graves” are the most spectacular group of finds related to UC. Only single cases of that type of barrow graves have been found in all its territory (Höfer 1906; Grössler 1907, Schmidt / Nitzschke 1980; Sarnowska 1969, 292 – 315; Schwenzhen 2004). In each case they are characterised by a complicated form and rich furnishings, including metal objects (bronze and gold) (Fig. 8). It is commonly agreed that they are burials of the privileged stratum of the contemporaneous society.
Corded Ware Culture, was precisely the employment of metal objects, often of a specific symbolic shape such as halberds in the burial ritual. On the basis of absolute datings it was usually accepted that the period in which the “princely graves” appeared was relatively short, with emphasis on the discontinuity of the phenomenon (Makarowicz 1998, 295–296). Considering the issue in terms of the Łęki Małe cemetery, it is difficult to agree with such an approach. The distinctive feature is the fact that we are dealing with a funerary complex of several barrows located linearly (archival data reveal the existence of at least 14 barrows; Kowiańska-Piaszczykowa/Kurnatowski 1954; Czебreszuk 2001, 87). Four of them were excavated. They yielded an abundant pottery inventory and many objects of bronze, gold and amber (Fig. 8). The age of the burials was defined by 10 carbon datings which situated the site in the period from 2200–1800 BC (Czебreszuk 2001, 84–88). The results tally with carbon dating of burials from Leubingen and Helmsdorf (Becker/Krause/Kromer 1989, 427). The archival finding from Przysieka Polska can be directly linked with the Bruszczewo settlement. It yielded a rich collection of bronze objects and a perforated amber disk. The conditions in which the discoveries were made (a stone mound of a specific shape) allow to interpret the mound as a barrow comparable with the graves from Łęki Małe (Schwenzer 2004).

The idea of constructing monumental, richly equipped barrows, exemplified by the discoveries in Łęki Małe and Przysieka Polska seems to have wider cultural connotations that extended from the regions of northern France and southern England. Apart from the similar form and a richly furnished burial there are such coincident small details like the specific “cross-shaped” placement of daggers evident in the tombs from Leubingen and Plouvorn (Hansen 2002, 153–154, 152, Abb. 1, 156, Abb. 6). The chronological rank of the northern France and southern England tombs suggests their partial synchronisation with the tombs from Central Germany (Becker/Krause/Kromer 1989, 427). It can be hypothetically assumed that the idea of barrow construction reached the Unetice cultural circle as one of many that accompanied the technology of tin bronze production.

Amber and the First Amber Route

One of the most cognitively spectacular finds in Bruszczewo was the discovery of a well preserved amber bead in the peat cultural layers connected with Early Bronze human settlement (Fig. 9) (Czебreszuk/Kneisel/Müller, forthcoming). This is important to the extent that settlement finds of this material are truly rare and they can be seen as a signal of a big-ger number of amber artefacts present on a site. In KG this is not an isolated find; the best examples are the disk from Przysieka Polska and the artefacts found in Łęki Małe. The problem of the growing importance of amber needs more elucidation. The material had been gaining over-regional significance already in the 3rd millennium BC and amber artefacts in the stylistic version of Globular Amphorae and Bell Beaker Cultures (Czебreszuk 2003, 2007) were found far beyond the areas where its main deposits were situated, on the Baltic and the North Sea. Also at that period the material’s solar symbolism developed (Czебreszuk 2002), which then travelled along with amber from one community to another. At the turn of the 3rd and 2nd millennia BC there appeared the first signs of stabilisation of the far-reaching network of connections by which amber reached the Mediterranean zone (du Gardin 2003; Czебreszuk 2007). The turning point in its cultural expansion was the emergence of the Mycenean culture on the Greek mainland - a great consumer of amber and its products (Harding/Hughes-Brock 1974). One could say that at that moment the first amber route appeared (Czебreszuk 2009).

There is quite a lot of information that helps tackle the issue of the route’s course, particularly in relation to the territories of the Odra and the Vistula drainage basins (Czебreszuk 2009). In this matter the mapping of amber finds from the Early Bronze Age in the areas north of the Carpathians and the Sudeten is of great assistance (Fig. 10). Actually, we only know the finds from the western area. They are arranged in two bands ca. 100 km wide. The first stretched from the Moravian Gate through lower Silesia and eastern Wielkopolska to the mouth of the Vistula. The second ran along the Baltic coast. Contextual analysis is relevant at this juncture. It demonstrated frequent co-occurrence of amber with other special finds (such as bronze or gold) and in spectacular contexts (rich graves, barrows included; rich hoards and - like in Bruszczewo’s case - fortified settlements with bronze metallurgy). Extension of the amber dispersion map with golden finds, bronze imports (objects made in stylistics other than the Unetice style) and “princely graves” emphasises all the more the structure composed of two linear arrangements. It is not hard to guess that they are sections of longer routes. The first ran through the territories of Moravia and south-western Slovakia to the mid-Danube and on to Caput Adria and further along the Adriatic to Aegae. The second went farther west to Jutland, the lower Rhine up to the British Isles and there probably continued along the Atlantic coast. It is characteristic that the investigated sections of both routes made broad
bands up to 100 km wide. It was, apparently, an arrangement of many alternative possibilities of travelling along the route. The main advantage of a concrete point on the route was its stability, a guarantee that there would always be a settlement with inhabitants open to cooperation. This was undoubtedly one of the stabilisers of the Bruszczewo micro-region Early Bronze human settlement.

Conclusions

The briefly presented set of archaeological features reveals a particular compilation of indications that in KG UC there existed relatively stable, complex social structures. Their specificity was manifested at all levels, starting with the man-environment relation. The areas directly surrounding Bruszczewo were an isle of cultural landscape enclosed by an endless for-
The fortified settlement was the central point of the area. Its construction and subsequent year-long conservation provides evidence for the stable presence of structures of power which organised this collective effort. Certainly, part of the community was initiated in the mystery of metallurgy - another determinant of KG UC civilisational development. The features of metallurgy in Bruszczewo demonstrate its more profound role: the local elites not only produced bronze objects but also controlled their meaning, which was doubtlessly a factor stabilising their leading position within the community and confirmed their standing as partners in the long-distance exchange network. Such a diagnosis is further supported by the presence of “princely graves” in KG UC, particularly in the form of the barrow cemetery in Łęki Małe that has no analogy whatsoever in the UC ecumene. The analysis of the cultural significance of amber and its presence in KG UC offers a deeper understanding of reasons for that state of affairs. It was the growing demand for amber among the communities of southern Europe that gave the communities living “on the way” (along the route) a great civilisational opportunity. The KG UC example shows that they made the most of it.

The presented data indicate the existence of a far-reaching network of connections and transmission of cultural patterns. This, however, was not the phenomenon of single artefacts travelling along (so-called imports), but a proof of dissemination of a whole cultural and social “package”, probably closely connected with the introduction of tin bronze. Such perception of the phenomenon corresponds with the postulates of K. Kristiansen and T. Larsson, who pointed to the importance of following the transmission of all sets of values materialised in collections of analogous sources (KADROW 2008, 197). The “princely graves” were not merely a visible symbol of the power and uniqueness of the persons there interred. Building such structures required involvement of a larger group of people. Their work and the accompanying rituals, whose existence can be guessed from the arrangement of the dead, the furnishings and also the elaborate construction of graves and mounds appear to have had a communal significance. Next to the fortifications on the Bruszczewo headland and numerous deposits of metal objects, the “princely graves” were yet another confirmation of the power and consolidation of the communities today described as KG UC.

In the context presented above the human settlement geography of the period was more of a linear (route) character rather than territorial. Particular regions were situated along the route, or they were route junctions, or else existed totally out and beyond. The “route” communities participated in the long-distance exchange in a multidimensional way; they also profited socially from the development in their midst of most complex structures with a stable higher class at the head. Their representatives travelled along the route and created a network of people that stayed in contact; at the same time they organised the life in local communities and managed the particular “links” in the “chain”. One could say more: along the chains there were special links, such as the Bruszczewo fortified settlement situated on the border of the KG UC ecumene. They were like a gate which - drawing on conceptions about the nature of exchange with the Mediterranean zone during the Bronze Age - might be described as an “inland port of trade”.

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