The animate house, the institutionalisation of the household in Neolithic central Anatolia
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Abstract:

This paper explores the effectiveness of a Domestic Mode of Production model in explaining the development of Neolithic households in SW Asia, using evidence from the site of Boncuklu in central Anatolia. We present evidence that Boncuklu households were institutionalised through repetitive practice, highly structured and symbolically charged domestic activity, ritual and symbolism stressing the animate and transcendentual nature of the house, relating to continuity, and idiosyncratic identity display. The Boncuklu evidence also suggests supra-household groups, possibly bound together by certain landscape exploitation activities, were reinforced by their own distinctive ritual practices and symbolism in parallel with and probably in a certain tension with the cohesive tendencies of individual households, even in the absence of evidence of monumental non-domestic communal structures seen at some Neolithic sites. This suggests the Domestic Mode of Production model does not apply well to Neolithic SW Asia, certainly for long time periods and in certain regions.
Introduction

A notable feature of the Neolithic of SW Asia is the appearance of substantially constructed houses, often showing signs of complex internal fixtures and elaborate architectural devices (Byrd 1994). These houses also display structured use of domestic space, indicating discrete areas for different tasks and storage, facilitating sophisticated resource exploitation measures and elaborate social arrangements (Byrd 1994; 2005). They also often demonstrate significant duration both of individual houses and of sequences of houses in the same location, presumably attesting to the longevity of households and also display evidence of elaborate ritual and symbolic expression within the house. These features are exemplified at Çatalhöyük, where mudbrick houses were regularly plastered, there was a north-south division in space use within each house, with a kitchen ‘dirty’ area in the north and ‘clean’ area for sleeping, socialising and food consumption in the south. There was a storage room and/or storage bins to one side of the main room, and the ‘clean’ areas were distinguished by burials, paintings and clay reliefs of animals and insertion of animal body parts into walls and platforms (Hodder 2006). Repeated reconstruction of houses on the same location was also characteristic of the site. Whilst Çatalhöyük is a well-known example, these practices were widespread, although seen to varying degrees from the PPNA period in the Levant onwards through the Aceramic Neolithic. Central Anatolian characteristics of repeated reconstruction are apparent at Aşıklı from 8300 cal BC (Özbaşaran 2012) and are seen in the Levant, for example, at Jericho in the PPNA (Byrd 2005: 264) and Halula in the PPNB (Kuijt et al 2011: 507). Plastered mudbrick houses appear from the PPNA, for example, at Jericho in PPNA (Byrd 2005: 264). Hallan Çemi (Rosenberg, 1994: 125) in south-east Turkey, and Mureybet (Helmer, Gourichon and Stordeur 2004) and other PPNA/Early PPNB sites on the Euphrates and north Syria from early in the Holocene have houses, some with elaborate features and bucrania (displayed skulls and horns of aurochs – wild cattle).

The phenomena involved in the archaeological record of these houses are surely the material expression of distinct social practices not seen in the Upper Palaeolithic or most of the Epipalaeolithic, indications of new social relationships and new symbolic
roles for households in the first sedentary and agricultural communities at the end of the Pleistocene and early Holocene (Byrd 2005). This paper argues for the institutionalisation of the small-scale household as a distinctive set of related social forms within these communities. Evidence from the site of Boncuklu in central Anatolia (Fig. 1), 10 km north of and predating Çatalhöyük by c. 1000 years, allows us to explore implications for household identities and social interactions, relationships with landscape and ritual practice.

The institutionalisation of the small-scale household proposed in this paper has been recognised by others with different emphases. Thus Byrd (1994; 2005) has argued for the emergence of the ‘economically autonomous household’, with households having an increasing role in production and consumption relative to communal or corporate economic activities. It is argued this is evidenced in the growth in house size, compartmentalisation and development of specialised spaces within houses during the Neolithic (Byrd 1994: 640). This echoes theoretical frameworks derived from social/cultural anthropology summarised and expressed by Sahlins (1974) as the Domestic Mode of Production (DMP). The DMP model raised questions about the role of households in relation to communal level activity and expression, Sahlins (1974: 78, 95 and 131) advocating the ad hoc and fluid nature of supra-household task-oriented collective action and that centrifugal tendencies typify the DMP. This has been articulated directly in relation to the Neolithic of SW Asia with the view that the family became the fundamental unit of production in terms of task allocation and control of stored goods (Byrd 2005: 265).

The adoption of the DMP concept, often implicitly and thus insidiously, via Byrd’s identification of ‘economically autonomous households’ has been regular and persistent by those studying houses and households in Neolithic SW Asia since the early 1990s. For example, Kuijt et al (2011: 505) have recently concurred with others in suggesting an increase in household autonomy during the PPNB, linking this with Kuijt’s own views on the development of extended family households. Düring and Marciniak (2006) and Marciniak (2008) have also argued for the emergence of the autonomous household in Neolithic central Anatolia, suggesting it appears in the Pottery Neolithic/seventh millennium cal BC. Hodder (2014: 16-17) has suggested the appearance of the autonomous household during the course of the Pottery Neolithic in
the sequence at Çatalhöyük. So researchers may differ on the timing, but clearly the DMP model has had a profound and continuing influence on the reconstructions of Neolithic household development.

Several researchers have speculated on the emergence of integrative institutions in Neolithic societies in south-west Asia (Byrd 1994: 640), although most do not do so in a holistic fashion – where the development of households is considered explicitly in conjunction with broader evidence of communal and corporate activity. Rather they have tended to focus on the evidence of non-domestic structures from PPNA and PPNB sites in the region (Byrd 2005; McBride 2013) such as the monumental buildings at Göbekli (Schmidt 2012), Jerf el Ahmar, Djade, Wadi Faynan 16, Çayönü, Nevalı Çori (Hauptmann 1999) and Beidha (Byrd 1994) and in central Anatolia at Aşıklı (Özbaşaran 2012). These buildings seem designed for ceremony and interaction of people beyond the household level, contexts in which ritual and symbolism clearly played a strong role. Thus the very apparent emergence of corporate institutions at the supra-household level could be construed as the counter balance to the increasing economic autonomy of households, performing key integrative functions that allow the development of stable long-term communities in the face of the autonomous tendencies of the household (Byrd 2005: 266). But not all Neolithic settlements show evidence of such non-domestic communal buildings. Corporate institutions are not always apparent at Neolithic sites in the form of non-domestic architecture, even when extensively researched. Çatalhöyük is a good case in point often challenging researchers (Hodder 2006; Düring 2007, 175) as to relationships between households and wider communities at such sites, indeed Kuijt et al (2011: 521) puzzle over this point.

In the absence of evidence of non-domestic structures at Çatalhöyük, Hodder and Pels (2010) have proposed a model of household networks integrated through ‘history houses’. These buildings, it is argued, show evidence for the accumulation of symbolic capital, through repeated construction and more frequent burial, and were thus repositories of ancestral authority based on ritually referenced memories and commemoration (Hodder and Pels 2010: 182-3). Ritual practice is seen as promoting interaction through intensely shared experience and attracting support through the accumulation of trophies from rituals and mementos of intensely meaningful, shared
experiences. But it is easy to be seduced by the evidence of the built environment. What of communal supra-household corporate activity that may have existed outside such contexts? To understand the place of households in relation to more corporate levels of engagement we need to look at the spaces in between the buildings, on sites and in landscapes, the spaces where groups larger than those that could live in habitations, would have interacted. Indeed evidence from the site of Pınarbaşı in the second half of the seventh millennium cal BC documents evidence of ritual in the landscape around Çatalhöyük outside the context of the house (Baird et al. 2011).

In parallel with considerations of household autonomy, researchers have considered evidence of the development of Neolithic households in terms of their symbolic and alliance roles. In particular this has involved discussion of the question as to whether Neolithic house and households might be representative of ‘house-based societies’. The ‘history house’ concept also draws partly on such considerations, suggesting the amassing and transfer of property and symbolic capital through specific social groups, the focus of more extended networks of houses. Lévi-Strauss identified ‘sociétés à maisons’, ‘house-based societies’, as a way of understanding communities whose kinship structures seemed flexible and variable and less important than linkages between descent groups though membership of houses (Carsten and Hugh-Jones 1995). For Lévi-Strauss such ‘houses’ at the least were potent social entities for the transfer of property to younger generations of house members and showed significant intra- and inter-household differentiation (Carsten and Hugh-Jones 1995). The definition of house-based societies seems to have broadened considerably at the hands of both anthropologists and archaeologists (Carsten and High-Jones 1995; Bloch 2010) and has had only modest impact on consideration of households in Neolithic SW Asia, with the exception of Çatalhöyük (Bloch 2010), partly because of challenges identifying property and its multi-generational transfer in the archaeological record and perhaps because of limited evidence for intra- and inter-household differentiation. Other weaknesses in Lévi-Strauss’ initial formulation include little reference to the house as a physical focus for co-residential groups and as an economic entity, exactly what the DMP model focussed on. The limited traction of this ‘house-based societies’ concept in Neolithic SW Asia is interesting given the growing evidence for multi-generational households with strong symbolic identity expression and the question of the value of this approach as an alternative or as an
adjunct to DMP-descended concepts will be explored here. For example, Hodder and Pels, in first advocating their ‘history house’ concept, adopting and adapting concepts of house-based societies suggested that ‘history houses’ may have become much less a focus of social arrangements as households became more independent (Hodder and Pels 2010: 184).

This paper will examine evidence for the institutionalisation of the household at one site, Boncuklu, apparently an antecedent to practices seen at Çatalhöyük, and will consider implications for the nature of households, but also communal practice in the absence of current architectural evidence for community level institutions in the built environment from these sites. It, thus, explores the origin and key features of these phenomena in central Anatolia, especially possible tensions between households and communal groups in social interaction and in relation to landscape exploitation and other practices.

Boncuklu is located 9.5 kms north of Çatalhöyük in the south-west Konya basin, 1000m asl on the Anatolian plateau (Fig. 1). The Neolithic settlement dates c. 8400-7500 cal BC. The site was located in what was a wetland-steppe mosaic in the early Holocene. Multiple lines of evidence indicate an intensive engagement with local wetlands. For example inhabitants hunted aurochs and boar, fowling and fishing, and small-scale cultivation on the wetland fringes (Baird et al. 2012). The hills around the plain were exploited more sporadically for nut/fruit collection, deer and caprine hunting and access to raw materials including timber and firewood (Asouti and Kabucku 2014) and stone raw materials (Baird et al. 2012).

**The houses at Boncuklu; structured and repetitive household practices**

Boncuklu houses shared a number of common features of construction, layout and use of space that speak to shared and repetitive social practices related to construction, layout and use of the buildings. The buildings were all sub-oval (Fig. 2) and are not large, with internal dimensions ranging from 4.6 x 2.9m to c. 5.25 x 4m. They were constructed with floors below their contemporary ground surface, the whole building footprint set into an oval cut into natural or surrounding occupation deposit or a combination thereof (Fig. 2) (Baird et al. 2012). Where we have evidence the walls
were constructed of mudbricks, indicated by surviving foundations and collapsed wall segments, in one case, Building 6 (henceforth B6) (Fig. 2) walls were a minimum of 15 courses high. Foundation cuts were either lined with bricks, which probably continued directly up from the foundations to roof level or the cut was lined with plaster and the brick wall must have sat atop the cut edge.

The houses are all oriented north-west to south-east, with a lower and ‘dirty’ kitchen area with a hearth, located at the north-west end, usually occupying c. one third of the building. The larger south-eastern section was raised above the hearth area and had cleaner, thicker and more extensive marl plaster floors (Fig. 2) (Baird et al. 2012). The ‘dirty’ areas are characterised by less extensive floor patches which included more organic material, small bone fragments and carbonised plant materials; some patches of floor included hearth rake-out in their make-up. ‘Dirty’ areas also contained deposits of occupation material in contrast to the ‘clean’ floor areas. The plasters of the ‘clean’ areas are thus distinct through composition and extent, but also maintenance activities, with typically only very thin silt layers less than 1mm thick being trapped between the regular replastering. This is probably material trapped between mats on the clean floors, which are evidenced by tabby weave examples preserved on floors as reed leaf phytoliths e.g. B1.2 (Baird et al. 2012: 226) or as impressions left in the floors when the mats were placed when the plaster not completely dry, e.g. B6.

‘Clean’ floor areas are the locations in which, on occasion, the dead were buried during the use of the house (Fig. 3). Occasionally ‘clean’ floor areas and adjacent walls were painted and clay reliefs were built against the walls (Baird et al. 2012). Animal bones were built into the walls next to the ‘clean’ area, but bone tools could be inserted into ‘dirty’ floor areas as well as part of different practices. Thus whilst the ‘dirty’ and ‘clean’ areas were constructed differently and obviously designed for different use, this was reinforced by regular and repetitive practices within the different parts of the houses. There was thus a strong and shared experience of household life, bonding the residents together and allowing them recognition of social cues in inter-household interactions. Visualisation modelling of the use of space, taking into account some basket storage on floors in the absence of internal storage pits and bins, gives an indication that the space for sleeping could accommodate only
two-five adults (e.g. visualisation model of space use in B6 - Fig. 4 lower) and equivalent numbers of children in residence. The modelling suggests that the space in buildings would afford the co-presence of twice the number of people that might have made up a typical sized house residence group, when engaged in social and task interactions indoors (Fig. 4 upper). Space for inter-household interactions in houses was thus limited.

The division between the ‘clean’ and ‘dirty’ areas in houses was marked on the floor by a ridge, or distinct lip (Fig. 2) and seems to have been a liminal zone of some symbolic significance. We have excavated several examples of areas of painted floor in ‘clean’ areas, displaying varying extents of paint. The most common distinct locations for paint are the areas over and around burials and the lip of the ridge or step dividing the ‘clean’ and ‘dirty’ areas. Thus, a red painted band demarcated the edge of the ‘clean’/’dirty’ division on several B6 floors and at least one in B14 (Fig. 3). These painted areas did not exist for very long, they typically only lasted one floor, with very rare repetition on an overlying floor and never for long periods in the life of a building. Other forms of symbolic elaboration seem to persist for longer. B4 had a double bucranium installation (Figs. 3, 5 and 6), described in more detail below, overlooking the ‘clean’/’dirty’ floor divide for much of the life of the building. Other liminal zones were also marked suggesting they also were of symbolic and possibly ritual significance. The doorway into B6 was flanked by an aurochs horn, which had been inserted into the doorjamb and probably projected into the interior from the wall next to the doorway, early in the life of the building. A brick-built bin (B15) attached to the exterior of B6, had the lower part of the front of an aurochs skull embedded into its wall, possibly at or by the access point for this structure. This was probably the remnant of a bucranium, the upper bulkier part of skull (and horns?) removed at the end of the life of the bin. Thus the powerful wild cattle may have symbolically watched over or marked areas that were conceptually quite distinct for the inhabitants – both within the structures, but also between the inside and outside of the house, inside and outside of storage bins. For the bin and its contents the bucranium may have performed a protective role. Interestingly this symbolic repertoire draws on parts of animals that were significant elements of the Boncuklu landscape and commonly hunted, a point that will be developed later.
House interiors were dynamic spaces, as indicated by the insertion, covering and removal of elaborate symbolic features. Wooden posts, represented by postholes and occasional impressions in wall plaster, also seem to have been inserted and moved around regularly. In some houses these were certainly not elements integral to the construction of the house. Some houses are built initially without posts, and in many houses there are floors without any sign of posts (Baird et al. 2012). Where they did occur posts were moved around frequently in houses, often lasting between two and four floors, as for example in B2 and B9. The posts are often replaced in similar locations, near either end of the ‘clean’/’dirty’ floor area division, most frequently at the south-west end of the division. They were sometimes paired at either end of the floor division but often not. They may have been inserted as occasional roof support elements to adapt to very local roof degradation. The fact they were not integral to the structures and of short duration in specific locations, like painted floors, raises the possibility they may also have been served purposes other than roof support. For example, they may have been carved or decorated, as with some stone and clay pillars in Neolithic buildings, e.g. Göbekli (Schmidt 2012), Jerf el Ahmar (Stordeur et al. 2000) and Qermez Dere (Watkins 1990). They may therefore also have marked symbolically significant moments in the lives of houses. Their placement, however, at the dividing line between floor spaces, suggests that they structure the use of space and distinct activities, similarly to the red painted lipped floor-ridges. No wooden posts survive in situ at Boncuklu. Wood from local wetland tree species was certainly used on site, but so was timber from more distant locations, including some of the material most suited as structural timbers, oak, juniper, terebinth and almond (Asouti and Kabukcu 2014: Table 1), which must have come from the hills and their fringes over 15 km away and thus evocative of landscapes and activities not immediately local to the settlement.

While the Boncuklu houses display a general schema in terms of a structured use of space and the marking of spatial divisions, specific symbolic elements are deployed in an individual fashion within houses. B4 had a double aurochsen bucrania (Figs. 5 and 6), B6 had a single aurochs horn next to its entrance in its early phases and a boar’s tusk found in collapse on the final floor may have been inserted in the upper walls. B21 had an aurochs bucranium on its final floor trapped by wall collapse, it was probably originally in the upper wall. B1.2 had the only painted clay and plaster relief
(discovered to date) on its north wall opposite its entrance (Baird et al. 2012: Fig. 9); B9 had a very extensive floor covered with red paint; B14 (Fig. 3) and B6 both had floors painted red to demarcate the ‘clean’ and ‘dirty’ areas and B12 had various areas marked with red paint. B6 had a design of two curved lines, set side by side but running in opposite directions, produced by the pressing of hackberries into the plaster floor near the hearth. This was one of the few clear instances of the use of plant remains as part of symbolic elaboration of buildings and in a ‘dirty’ area, although one suspects others using organic materials existed but have not survived. This symbolic repertoire thus seems to express individual household identities as well as broader community ritual and symbolic concerns. It seems likely given the presence of ritual and symbolic elements in the ‘clean’ area and the focus on liminal spaces that the very division into ‘clean’ and ‘dirty’ areas was symbolically charged and a key part of the households’ worldviews. The intensity of use of these areas speaks to significant bonding of household members in relation to distinctive symbolic paraphernalia and associated ritual practice, important in the building of household identity.

**Intensity of use and symbolic expression**

The dynamism of the Boncuklu houses is clear – as well as the regular creation of various features and fixtures, the buildings had between 10 and 25 episodes of extensive plastering of their larger ‘clean’ floor area. Ethnographic observation (Boivin 2004: 171), especially in the Konya plain (Matthews 2005: 361), strongly suggests annual plastering of the floors of mudbrick buildings are typical when using less durable, clay plasters, which tends to occur in the summer when the plasters would dry relatively quickly. Two experimental Neolithic mudbrick houses were constructed at Boncuklu in summer 2014. The floors, replicating the thickness of the Neolithic examples and using local marl plaster, took 10 days to dry, a replastering in summer 2015 took c. seven days. This suggests floor plastering would have been a significant event in the annual lifecycle of house use and maintenance in the Neolithic and that plastering the whole floor was unlikely to have been more frequent. An annual plastering coincides well with Bayesian analysis of our C14 dates for the Boncuklu Area K sequence (Baird and Fairbairn forthcoming). This would suggest buildings lasted between 10 and 25 years. An annual plastering is suggested by
Matthews (2005: 368) on similar grounds for Çatalhöyük, with more restricted or lighter plaster probably applied there on an intra-annual basis.

Decoration, deployment of symbolism, and ritual practice were more sporadic than the maintenance of the domestic facilities, but could also see relatively intense episodes. For example, the ninth and eleventh floors of B9 were painted, the ninth saw painting over an extensive area of the clean floor, but the eleventh was restricted to near the ‘clean’/‘dirty’ division. The eleventh floor saw a burial, Grave 12 (Gr12), of an adult male 50 years old or older. Thus symbolic acts marked within these buildings were not frequent, but probably therefore more charged (Whitehouse and Hodder 2010), signalling and recording important events in the life of the household, often several years apart.

Sometimes, however, ritual and symbolic practices could be more intense. A clay and plaster relief attached to the north wall of B1.2 was remodelled to a significant degree four times and was plastered approximately 40 times, each plastering painted red (Baird et al. 2012). Layers of black organic sooty material coating many paint layers, point to the desire to keep the red colour fresh. This replastering and repainting related to only one or two floors, so probably occurred over a time period of one to two years. Following these assumptions this relief would have been potentially repainted in the order of twice a month. The repeated attention paid to this relief gives an indication of the intensity of ritual and symbolic practice at key phases in the life of households. Sadly we are not able to say precisely what this relief represented, it seems quite elaborate, with several elements and originally continued up the wall some distance, but was truncated by bulldozing to which the site was subject some years before our work started. Its location, however, is quite telling, opposite the entrance, one of the first things to be seen as one peered into or entered the house. Designed to catch the attention of those entering, this relief may well have been important to the identity of this particular household, distinguishing it from others, as the double bucranium would have in B4. These examples serve as an indication that distinct, individual, low frequency rituals in houses bound together household members and helped create households as institutions (Whitehouse and Hodder 2010).

The animate and transcendental house.
Human bodies are clearly a strong source of symbolic reference in many societies frequently categorised into different zones, some associated with purity and impurity and with emphasis on maintenance of boundaries (Bowie 2006: 34-79). At Boncuklu the house – the body of the household- seems also divided into symbolically significant elements, some clean and some dirty. As with a body, the Boncuklu Neolithic house was maintained and at times decorated with red paint. Some human burials from the site were covered with ochre; human skulls were occasionally painted before burial, both suggesting the possibility that the living body could also be painted. As for people, houses had significant moments in their life-cycles marked by ritual, interlinked with those who inhabited - or were affiliated with - the household. Some of these moments likely involved human rites of passage, which may also have been rites of passage for the house. There are indications, discussed below, that houses had rites of passage associated with their birth and death, analogous to those of humans and that household groups were keenly interested in representing a transcendental nature of the animate house (Baird 2012: 459-60; Guthrie 2014: 97-8; Hodder 2014: 342-3).

Boncuklu, c. 8300 cal BC, seems to stand at the beginning of a long tradition of emphatic long-duration repetitive reconstruction of the house in the same location so well documented at Aşıklı and Çatalhöyük (Baird 2012; Özbaşaran 2012; Hodder 2006) seen also at Canhasan III and I (French 1998). Houses are constantly rebuilt on the same location showing much direct continuity, rather than just formal similarity in use of space. As indicated above this is seen in other areas of Neolithic SW Asia (Kuijt et al. 2011) but rarely with the high frequency and longevity seen in central Anatolian Neolithic.

To date we have evidence of 21 buildings, completely or partially excavated, at Boncuklu that we consider domestic residences and three buildings we consider do not conform to the classic features of the residential structures and a further structure best interpreted as a large storage bin (B15). In all cases where we have excavated stratigraphy predating a building in a given area, there is evidence for one or more immediate predecessors, this includes the three non-standard buildings which form a single sequence.
There was much open, un-built space at any given point in the life of the settlement – so rebuilding in the same location represents a conscious decision rather than a necessity (Baird et al. 2012). Unlike at Aşılıkı Level 2 or Çatalhöyük, house rebuilding at Boncuklu does not utilize earlier walls, which then serve as stable foundations, so might be seen to have a utilitarian purpose. Rather the earlier houses were dismantled and the replacements were cut into the earlier buildings, or the footprint of the earlier foundation was reused, in this last case resulting in houses becoming smaller.

The longest and only completely excavated sequence is in Area K (Fig. 7) and consists of six buildings one immediately atop the other, Buildings 2,9,7,3,1.1, 1.2 from earliest to latest (Baird et al. 2012). In Area H (Fig. 7) there are two closely juxtaposed and possibly inter-related sequences, one of two buildings B14 and B5 and the other of three buildings, B12, B8/11, B4. Both of these sequences may originally have had later buildings since eroded/destroyed. In Area P (Fig. 7) there is a sequence of three buildings B17, B21 and a third inferred largely from negative features cut into B21, apparently conforming to a similar footprint as B21. In Area N (Fig. 7) there is a sequence of two buildings one atop the other, B6 followed by B10. In these three Areas H, N and P (Fig. 7) earlier buildings may be present predating the earliest yet excavated in each of these excavation areas. Thus at Boncuklu as at Aşılıkı and Çatalhöyük, there were sequences of up to 6 buildings.

Direct continuity between houses is apparent in a number of ways at Boncuklu. The hearth of each of the six buildings in the Area K sequence was always reconstructed in the same place. Indeed the rim of the hearth of B2, the first in the sequence, was used as the foundation for the rim of B9, the second building in the sequence. The boundary between the internal spaces was constructed in exactly the same location in B2 and B9, even though the recreation of this boundary was reserved until the third floor of B9, so probably after a gap of two-three years. Particularly telling was the reconstruction of posts in more or less the same location, even when there are gaps of several floors between the insertion of posts in sequences of buildings. As discussed above, these posts are not in these locations because they were integral to the structures.
Direct continuity is attested in other ways as well. Thus Gr10 in B3 (Baird 2012: fig. 23.10) was not completely filled, nor sealed by a plaster floor, like other in situ burials in buildings. Rather the mudbrick foundation wall of overlying B1.1 was slotted into the top of this grave cut, indicating that the burial was inserted at the end of the life of the structure and that B1.1 was almost immediately built over B3 and Gr10.

**The house as symbol**

As discussed above the dead were buried under the ‘clean’ floor areas within houses (Fig. 3). Their presence was a constant feature in those houses with burials, residents were probably aware through memory of the burial locations and identity of these individuals, given the probable lifespan of the houses. However, not all the dead seem to have been buried under houses, as discussed below. Despite houses being relatively short-lived, there seem to have been too few burials to represent all residents of each house. For example, in the Area K sequence, c. 60-100 years duration, one adult and one child were buried. Two other infants might have been buried in this sequence, their remains redeposited in Gr12, probably earlier burials disturbed by the cutting of Gr12 in the same location. One would expect several adult deaths, and possibly at least an equal number of children, amongst residents of the six houses in Area K. There is some variability between sequences in this regard. In Area H buildings had slightly more burials, B12 had two burials, an adult and child and the overlying B4 two adults (Fig. 3). In the B14 and B5 sequence there were three adults (Fig. 3) and three child burials and one possibly opened child burial. In Area H these numbers are more plausible as the relevant residents who might have been available for burial over a 20-40 year period. However in Area N the B6-10 sequence has revealed no burials, although there are several of the earliest floors of B6 left to excavate. Certainly in Areas K and N there seem insufficient burials.

It seems likely that certain individuals most closely identified with the house, alongside other factors possibly relating to manner of death, were buried in houses. Over the period of occupation of a house and its successors, the presence of burials was attested by the constant slumping of these areas. Gr12, for example, was visible through the life of B9 and all subsequent four buildings in this area. The burial was
sometimes marked by the painting of the area, or part of the area of the slump. These acts of memory and commemoration ensured the dead were an important part of the foundations of the house both physically and metaphorically and thus the choice to build over dead ancestors, biological or fictive kin, was clearly an important one.

Repeated construction in the same location was a symbolic statement of continuity and of the transcendence of the household beyond the life of the individual house and a statement of success of social and biological reproduction of the household. Beyond this then the placement of the house over the preceding one ensured the continued actions of the living over the dead. The living did not just live with the dead and ancestors under their immediate floor or floors but their ancestral houses beneath them as well, surely a powerful motivation for house continuity and a factor emphasizing the symbolic continuity of the house.

This close identity of house and household, dead and living, suggests the dead and living may have been viewed as an important continuity, whose maintenance was ensured by on-going proximity. This seems very likely for Çatalhöyük where the bones of the dead were accessed and retrieved and redeposited in later houses, notably skulls, teeth and limbs (Hodder 2014b: 16). At Boncuklu there is some evidence for the retrieval of the dead at the end of the life of one house – in B21 a burial-type pit in the clean area was located in the final floor of the building and was not sealed with plaster. However, there was no articulated skeleton within the grave, rather a few human remains were found scattered in the upper fill. It may well have been a reopened grave, with most of the body removed at the end of the life of this house. Floors seem to have been chiselled away around the cut, as if people were searching for it. The grave was partially open when the building collapsed or was dismantled, as bricks had fallen into the top of the cut. At the base and on one side of the pit an additional cut was made and a canid jaw placed in it – perhaps a symbolic act marking the retrieval. In B14 retrieval of the dead is also likely. The last floor, plastered over an oval pit, a typical shape and size for a grave, had been broken through. Intriguingly a collection of boar bones had been placed in the pit, possibly marking a distinct consumption event associated with the retrieval act. In Gr12 in B9, remains of two children were scattered in the fill, possibly retrieved from earlier burials in the house sequence. A large grave-like pit in B12 had a sickle blade placed
at the base of pit, which may have been emptied of a human body, although this pit may indeed have served other functions.

This symbolic identity between house and household may have received other ritual and symbolic expression (Baird 2012). There are indications that the house was perceived as a body in ways analogous or metaphorical to those of the dead bodies buried under the floors. The earlier ‘dead’ houses in sequences were in effect buried as well, so ancestral houses underpinned later houses, just as ancestral individuals provided marked reference points for later residents. There are striking ritual elements to the dismantling of the house at Boncuklu that continue into the later site of Çatalhöyük (Nakamura and Pels 2014: 205-6) in the area. At the end of the life-cycle of the house the roof, the head of the house, was removed and beams probably reused. In analogous fashion skulls were taken and circulated at Boncuklu, although interestingly not from humans who remained buried under house floors, they may though derive from the retrieved burials. The posts were removed and probably reused during and at the end of the life of the house – possibly like disarticulated limbs of retrieved burials. The ritual nature of post removal at Boncuklu is indicated by the placement of finds in empty postholes seen in B21, where a bear figurine (possibly purpose-made) and obsidian core (Fig. 8) were placed in one post hole and a bone point and obsidian microlith in another. The bone point was unusually fine and sharp, possibly made for the purpose of this deposition, and seemingly unused. The occurrence of a bear figurine within such a context is interesting given the bear reliefs at later Çatalhöyük, so the symbolic significance of particular animals, also important later in the area, is clear here. Continuity of symbolism is again apparent, and begs questions about the symbolic significance of the wooden posts during the life of the buildings as suggested above. A bone point was placed against the edge of the wall of B3 on the construction of B1.1 suggesting bone points may have had a special significance on building closure. Bone points, as with obsidian tools, were probably personal kit, perhaps associated with their makers or users. Whatever the associations, it seems that the bear figurine, obsidian tools, bone points (incidentally made of uncommon caprine bones) are all redolent of the hills and distant places, or are made from materials brought from far away. These objects were used in some form of symbolic exchange for structural elements which themselves probably derived from the hills, presumably designed to satisfy various cosmological forces.
These practices are long-lived - analogous deposits are also seen at Çatalhöyük with obsidian points, human and animal bones and skulls placed in post retrieval pits (Hodder 2006, 130-131), things placed on top of posts in burnt buildings, placed on ovens and in storage bins, famously figurines in last case (Hodder 2006:130). At Catalhoyuk also we see burials that were not plastered over (e.g. in B52) where sub-adult dead were gathered into a final grave, that may relate to building closure (Carter et al. 2015: 103).

The house then, received special treatment at death, but aspects of this may have related to ensuring the seamless and successful rebirth of the house. Certainly other practices that relate specifically to the foundation of the house seem important – the bone point against the wall of B3 behind the new wall of B1.1 has been mentioned. The burial of a perinatal child in Gr10, B3 (Baird 2012: fig. 23.10) had the wall of the following building placed in the top of the grave cut. At Çatalhöyük neonates and young children seem important foundation burials as well (Hodder 2006: 117; Carter et al. 2015). The symbolic significance of the hearth continuity (Baird 2012: 452) discussed above was probably very important for these households, matching the broader significance of building continuity, given the hearth was a locus of cooking, demonstrated by burnt smashed-up bone in hearth rake out, observed in micromorphological thin section and also as a locus of heat, vital in the cold winters of central Anatolia. Other foundation-ritual acts we have documented include the placement of a double aurochs bucrania into the foundation cut for B4 (Figs. 3,5,6), at the ‘clean’/‘dirty’ space division and the placing of a bucranium in wall of storage bin B15. Aurochs were the largest, most powerful animals roaming the Konya Plain, and their bucrania may have conveyed protective power over the house, or reinforced links between the animal spirits and activities in the buildings, transferring the agency of the animal spirits to the buildings or the prowess of the aurochs killers underwrote the continuity of the household. Indeed, combinations of such beliefs may well have operated.

The animate house like people had things associated with its activities. The things of the house were sometimes returned to the house, tools that maintained the house were buried in the house. Boar and deer scapulae in B6, probably digging and plastering tools, were buried in specially created shallow pits near the hearth in the ‘dirty’ floor
area (Fig. 10), they were plastered in so they became non-retrievable, echoes of the inclusion of a boar scapula, which had probably been used for digging, as a grave good in Gr16 in B4. In B6 near the scapulae, a large aurochs limb bone hammer was inserted into a disused posthole. In B6 a large aurochs rib had been plastered into the final floor, possibly a tool used to create the floor. An animal scapula, probably boar and probably a digging tool, was built into foundations of B23. These tools created and sustained the house and household during their use-life and their ritual deposition was probably designed to sustain the house in the longer term.

Other deposits may have been intended for retrieval. Obsidian caches were deposited in houses, as at later Çatalhöyük. Excavated examples include a group of 16 bladelets with no retouch, in a shallow pit grubbed out of the southern edge of the ‘clean’ floor of B6. They had been plastered over. It is unclear whether they might have been available for retrieval, or a deliberate deposition like the scapulae in earlier phases of the same building. Also in the northwest of B6, in a cut into the ‘dirty’ area, what was probably a small bag contained 32 obsidian tools. Again its is not clear if they were a ritual deposit or a cache available for retrieval and use. We do know obsidian was suitable for ritual deposition, as documented above, deposited in the postholes of B21. It is possible the obsidian caches could have been retrieved without damage, the deposition of these tools may have been an aspect of on-going exchanges between the animate house and its occupants or they may have represented behaviours similar to those relating to bone tools.

This evidence suggests a symbolic identification between house and household (Baird 2012, 459-60) and a magical and symbolic promotion of the transcendental qualities of these households. Institutions transcend individuals and generations and it is in this sense we can suggest an institutionalisation of these households with potentially profound effects for their communities, which we now explore. In particular, it is pertinent to query how much households as institutions may have encompassed some of the principal tasks with which people were engaged at Boncuklu and whether these households were the exclusive institutions for the negotiation of social interaction.

**Beyond the house, inter-household and communal activity at Boncuklu**
Given the limited space in houses for inter-household interactions discussed at the beginning of this paper, larger scale social interactions would have been in open areas between the households and there was apparently much suitable space available (Baird et al. 2012). C. 65% of the current excavated area is empty of buildings. Such outdoor spaces were dominated by midden accumulation, presumably from both household cleaning and activities between structures. In addition, there seem to have been toilet areas in these open spaces in the middle of the settlement. In Area M (Fig. 7), the most extensively excavated area of open space, there were a number of hearths and fire installations (Baird et al. 2012), indicating the probability of cooking and food preparation in external areas, probably seasonably variable and at a more communal scale. A wide range of chipped stone tools in these open spaces also suggest some crafts were probably pursued externally, allowing households to cooperate on these activities as well. Activities in these open areas certainly included butchery, whilst most animal bone is highly fragmented and processed, there are various locations in these outdoor areas with concentrations of larger fragments of animal bone that seem to relate to specific limited episodes of carcass processing and butchery. In particular, a large collection of large fragments of animal bone in the shell of B20 in Area P result from relatively short episodes of very large-scale food preparation. While a mix of processes and events may have contributed to this accumulation, some of these are likely to have related to feasting, given the quantities of meat produced these would have included large scale events.

Such inter-household activities probably relate partly to communal activity beyond the settlement. Hunting large aurochs, equid and boar were quite likely group activities involving people from several households, as depicted in the later Çatalhöyük wall paintings, c. 1500 years later. Gathering wood and reeds, used in crafts, construction and fuel, gathering fruits and nuts as well as cultivating cereals and legumes around the wetland fringes may also have involved inter-household activity. A key question then is the extent to which inter-household activity generated coherent formal social groups that transcended individual short-term tasks. In particular, whether such communal interactions were largely an element of fluid, ad hoc and temporary economic measures, in contrast to the symbolically significant continuities stressing the institutionalisation of small-scale households at Boncuklu.
There is significant evidence that communal ritual practice, especially mortuary practices and ancestral practices, were important at Boncuklu and may have contributed to supra-household corporate identity. The insufficiency of dead under Boncuklu house floors may be partly accounted for by burials in open areas. Burials are found within midden accumulations in various phases of activity in Area M (Fig. 7) and probably in open areas in other part of the site as well, interspersed between phases of hearths, so in areas important for the communal food preparation and consumption. We can document seven definite single articulated inhumations in outdoor spaces (as of the 2015 season). Some of the Neolithic burials (11) in the upper stratigraphy of various areas were probably also outdoor burials, but we cannot be certain about this group. The characteristics of outdoor burials do not distinguish them from the burials under house floors. Most were as deep as the in-house burials, but some do seem to be shallower. There is the same mix of ages and sexes as under houses, males and females, younger and older adults, perinatal individuals and other infants. As with the houses some burials do not have grave goods and some do, grave goods ranging from a small number of items to a few individuals with many items. For example Gr49 in the exterior space in Area M had 56 marine shells, some in a necklace around the individual’s neck.

In close proximity to these outdoor articulated single inhumations, comparable to the house burials, were a series of other mortuary deposits that show a range of additional practices. Skull circulation and deposition in outdoor areas seems common. There was a cluster of pits with skull fragments around the inhumations in Area M, including one large pit with fragments from several skulls, one small pit with substantial elements of three skulls within it, as well as skull fragments scattered in middens in Areas H and M (Fig. 7). In Area K, a small pit (Gr13) contained a single inverted skull, showing significant signs of wear, as if it had been in circulation for some time. It had been placed on a pile of ash, suggesting significant secondary mortuary ritual. Gr43 in M had a number of elements of human bone at its base, on which was placed ochre, a large polisher/grinder and a scatter of marine shell beads; on top of these artifacts was placed a painted skull. Apart from the circulation of skulls as part of ritual practices, this evidence also indicates some manipulation of disarticulated remains, e.g. those that underlay the skull in Gr43, along with the fact the skull in Gr43 had been painted with red pigment. In addition to these instances, a large pit,
F306, contained the disarticulated remains of six individuals (Pearson forthcoming), long bones arranged on its base, and three skulls piled at one end (Fig. 10). As part of such practices, deposition of large ground stone tools, our largest excavated axe and other ground stone objects, seems to have occurred near the burials, skull pits and F306 in Area M.

At least some of the dead missing from the houses are likely to have been buried in these open spaces in the middle of the settlement and indeed some may have been subject to disarticulation. The detached skulls do not appear to derive from skull retrieval from house burials (as in the PPNA and PPNB of the Levant) as all articulated burials under houses have skulls present, although they might derive from instances where whole bodies were retrieved from houses. The potential instances of body retrieval from houses are few, so it seems likely the skulls may be related to the disarticulation practices documented in the mortuary deposits in the outdoor, communal areas of the site. Pearson has carried out C and N stable isotope analyses of the individual skulls found in outdoor areas, those in deliberate depositions and pits and those fragments scattered in middens. This suggests that the isolated skulls and skull fragments, as so far analysed, were from individuals whose diet was distinct from those buried under the houses (Pearson forthcoming). These skulls could represent heads from other communities, or skulls from sets of households not yet excavated at the site, or alternatively individuals who derived from the typical household groups as so far excavated, but who belonged to corporate groups, with whom they shared in regular communal food consumption rather different sets of food from those buried in the houses. This would then support a view that there were some aspects of communal groups institutionalised by regular food consumption activities, regular and long term enough to be indicated in C and N stable isotopes in bone collagen, thus averaged over several years. These groups were also marked and given identity by distinctive communal rituals in open spaces between the houses. These groups may also have been institutionalised and claimed transcendental qualities with reference to ancestors whose skulls circulated in outdoor rituals. In this way the household may have been symbolically disarticulated at death, just as were its members socially distributed through the community’s different task and alliance groupings or institutions.
The disarticulation and sharing of elements of the dead, especially skull parts, was not restricted to humans of course. Animal parts too, especially aurochs’ skull elements, may well have been shared between houses, the single aurochs horn next to the entry of B6 suggests the other was elsewhere. The right and left side of the two bucrania in the B4 installation (Figs. 5 and 6), had been chopped off in fitting the skulls into the wall foundation; one horn was removed from each skull, possibly as part of the artifice of created a massive bucranium or double head. This would have yielded two horns that could have been shared with other houses or people, perhaps some of those who participated in the aurochsen kill or to cement relationships between households in a transfer of ritual power or animal spirit agency. This implicates these animals in sharing in inter-household ritual practices. Dead people like dead aurochsen confirm important relationships between households and contribute to peoples’ roles in broader corporate groups.

Decorated stones

There are a series of decorated grooved stone tools (often called shaft straighteners) and stone plaques at the site, as seen in other ninth-eighth millennium sites, but in unusually high frequency at Boncuklu, over 100 have been found to date. Much of the decoration on these items is of a geometric nature, but still probably with strong symbolic elements. There are, however, some items that have naturalistic representations that may give us clues about the symbolic concerns of the wider community. These items as a whole seem most clearly associated with individual personal identities, although they are not found in primary association with burials. They are not found deposited or abandoned in houses, probably indicating their use around the settlement and beyond, likely in supra-household group contexts, preparing hunting gear and/or other craft activity. They are very individual items and seem highly personalised, each is unique in form and decoration combined. They are also highly worn before discard, strongly suggesting curation by the individuals to whom they belonged and intense use and portage.

Because these objects would have been seen in settings of supra-household group activity, their imagery might suggest important reflections of wider belief systems captured in individual perspective. More naturalistic representations include possible
dancing figures, examples include individual figures and sets of figures (Fig. 12), underlining the view that such group ceremonies may well have been important and a context for the deployment of the stone plaques. A fish (Fig. 11) suggests the importance of fishing, indicated in the faunal assemblage, a tree (Fig. 11), other vegetation and cereal plants suggests not just a focus on humans and animals but the perceived role for symbolic significance of vegetation, and specific parts of the landscape, perhaps some more distant such as wooded hills. Cereal crops, farmed to modest degrees (Baird et al. 2012) may well have been of interest because of the distinctive parts of the landscape in which farming was carried out, on wetland fringes or evocative of social dimensions of crop management. The most complex image seems ambiguous and may be seated people or a deer head (Baird et al. 2012: fig. 13). In this repertoire there is little evidence of the dangerous wild animals supposedly documented elsewhere (Hodder and Meskell 2010), although at Boncuklu the bucrania might be seen as such. Rather this symbolism references aspects of animals, plants and landscape more broadly.

There is also a wide range of geometric motifs (Fig. 13), elsewhere these have been seen to derive from more naturalistic examples and researchers have suggested stars, the sun, mountains and rivers, may be present in this repertoire. This may well be the case, but making specific interpretations is difficult. Stars, mountains and the sun are plausibly present in motifs at Boncuklu, in two cases there are what may be schematic fish designs – in contrast to the more naturalistic depiction mentioned above. Dots may prefigure leopard markings on later art (Fig. 13). Indeed many of the geometric motifs seem similar to aspects of later wall art at Çatalhöyük. Elsewhere the naturalistic motifs are different, in North Mesopotamia, insects, bees or butterflies, snakes, raptors, solifugids, scorpions and centipedes dominate the repertoire of the decorated plaques and grooved stones (Schmidt 2012, Özkaya and Coşkun 2011). Thus local identities may have been expressed through the designs on these objects, probably reflecting shared symbolic worlds of the relevant communities. There are obvious contrasts between representations on the decorated stone repertoire and the symbolic emphasis on aurochs and boar in the house bone deposits. It may well be that the ideological worlds referenced of the stones were more the concern of community groups and institutions.
Conclusions

Boncuklu households were institutionalised through repetitive practice, highly structured and symbolically charged domestic activity, and symbolism stressing the animate and transcendental nature of the house, relating to continuity, and idiosyncratic identity display. However, the evidence also suggests households strongly integrated into institutionalised corporate activities, economically, socially and ritually, evidenced in practices in areas between houses and probably in the landscape (Baird et al. 2011). The evidence indicates the emergence of households as institutions that transcended individual generations with strong, symbolically marked identities, identities drawing upon their landscape exploitation activities, and households with important roles in structuring social activity. This cannot be taken to indicate a reduction of institutionalised communal economic activities or corporate identities related to such economic practices for this or, indeed, other Neolithic communities, in contradiction of the DMP model. It further suggests that those corporate groups indicated by the presence of large non-domestic structures, were just one element in, and facet of, a range of such supra-household entities that were neither a direct correlate of, nor counter-balance to, the increasing economic autonomy of the household.

The development of households with such strong, structured, transcendental and formal identities is in accord with house-based society models (Bloch 2010) but is likely to have demanded new forms of inter-household interaction and communal activity. The Boncuklu evidence suggests supra-household groups were reinforced by their own distinctive ritual practices and symbolism in parallel with and probably in a certain tension with the cohesive tendencies of individual households, a broader context little considered in house-based society formulations. More speculatively new forms of corporate group may have been involved in the negotiation of landscape exploitation for hunting, for cultivation and for the accessing of more distant resources. In the Boncuklu case, such more distant resources would include timber (Asouti and Kabukcu 2014), nuts, sheep, goats, bear and deer, stone for ground stone tools and ornaments from 15-40 km away, some of the flint from up to 200 kms away (Nazaroff, Baysal and Çifci 2013), obsidian from c. 150 km away in Cappadocia and seas shells from the Mediterranean c. 220 km away or possibly further.
The coevolution of household and communal ritual and symbolic practices and household and corporate institutions must have related to the small and fragile nature of households. These necessarily had significant risk of dissolution through interrelated biological, economic (Sahlins 1974: 95 and 131) and social factors, connected to aspects of biological reproduction, economic capacity and social alliance involving small households. It is in this context then, that we should understand the desire to assert continuity through symbolic and ritual practices and protect against both the centrifugal tendencies of social forces (Sahlins 1974: 95) and risks inherent in the various forms of landscape exploitation with which the households were engaged. Continuity of distinct and identifiable household units and familiarity with their social practices may have allowed easier negotiation within the wider community of access to landscape resources. Interestingly this may also be related to a situation of risks to cereal cultivation in this type of wetland landscape and its integration with traditional wetland exploitation. Connections with the landscape were as important symbolically as economically in the evolution of household participation in community. At Boncuklu agricultural practices seem to have increased the symbolic repertoire and were not symbolically distinct or underrepresented within that repertoire, as has been suggested at Çatalhöyük (Hodder and Meskell 2010). Landscape and taskscapes were thus a symbolic as well as economic resource, agricultural or other, in building formal roles for households, even though often exploited and encountered in supra-household as well as household groups. Such evidence and these interpretations sit uneasily with house-based society perspectives on households, which show little interest in the transactional maintenance of household continuity and identity and often stress emergent differentiation between households.

This evidence and these interpretations do not support the emergence of economically autonomous households in this area and time period of the Neolithic, despite the appearance of households as institutionalised, formal and transcendental social entities. It could, then, be argued that such entities emerged later in the Neolithic as Kuijt et al. (2011), Düring, Marciania and Hodder have suggested. If this were correct this would suggest a very long period of sedentary behaviour, and of cultivation and herding, before the emergence of economically autonomous households. For example, in the case of the Konya Plain this would mean that
autonomous households emerged at least 2500 years after the first houses were built at Pınarbaşı (Fairbairn et al 2014) and almost 2000 years after the first houses were constructed at Boncuklu. However, this evidence and these considerations do suggest that even this case for the emergence of autonomous households very late in the Neolithic of SW Asia cannot be advanced without fuller consideration of the complementary evidence for the nature of inter-household and corporate interaction, which as the Boncuklu evidence shows can often be less evident in the record than might be indicated by the presence of very obvious communal buildings or can result form an over-focus on the archaeology of probable residential buildings. This echoes the need for a more transactional and agent-based understanding and study of archaeological community (Yaegar and Canuto 2000). It also suggests that the emergence of households as symbolically significant multi-generational institutionalised social forms was quite distinct from the development of household economic stability and independence in production and consumption.

References


Figure 1. Map showing Konya Plain Neolithic sites mentioned in the text.

Figure 2. Building 6 – showing ‘clean’ and ‘dirty’ areas.
Figure 3. Drawing of Buildings 4 and 14 showing burials.
Figure 4. Upper: Visualisation modelling of space use for various activities in B6. Lower: Visualisation modelling of space use for sleeping in B6 with basket storage. To scale human figures shown lying down, kneeling and sitting cross-legged.

Figure 5. Double aurochsen bucrania, under excavation in B4.
Figure 6. Reconstruction drawing of possible appearance of double aurochsen bucraania in B4. Wall and floor plaster were present covering the original, but are not illustrated in the drawing.
Figure 7. Plan of Boncuklu showing excavation areas.
Figure 8. B21, bear figurine and obsidian core in posthole.

Figure 9. Deer and boar scapulae in B6.
Figure 10. Feature 306, disarticulated human remains.

Figure 11. Boncuklu decorated stones – fish and tree motifs.

Figure 12. Boncuklu decorated stones – dancing motifs.
Figure 13. Decorated stones – geometric motifs.