

Using digital technologies to create meaningful social and cultural experiences at archaeological sites

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As with museums, people typically visit archaeological sites in social groups. These visitors might join together as part of organised tours or they might make their own way to site with family and friends. At a rural destination like the UNESCO-designated Neolithic site of Çatalhöyük, independent visitors are relatively rare: people come from around the world (but predominantly from within Turkey itself) accompanied by their schoolmates, their tour groups, their partners, children or other known travelling companions. In this way, their visits can be defined as collaborative exercises, almost always realised via some degree of interpersonal cooperation and conversation.

Once on site, however, the extent to which such collaboration continues in a meaningful way is a matter for debate. How do visitors relate to one another while touring the archaeological record? How do they share their learnings amongst themselves and how does this sharing enhance or detract from the material culture in front of them? How do they use locations like Çatalhöyük – recognised as universally-relevant historical sites – to foster precisely what these sites are meant to foster: that is, real cultural understanding both about people from the past and between people in the present (including fellow tourists)? In other words, how do we ensure that the visitor experience at archaeological sites capitalises on the group dynamic, using the various group members to stimulate collectively thinking, discussion and reflection on the material record, and to create relationships between people in the moment – whilst touring the site itself?

Social interaction between visitors to museums has long been recognised as a critical component of the museological encounter. Conversation, in particular, has been highlighted as important to visitor experience in museums, so much so that recent research suggests it might be used as a metric for successful engagement. To facilitate such interaction, computational technologies are now increasingly intertwined into the normal visitor tour. These technologies range from digital displays that enable delivery of information to multiple people at once – including interaction between group members and collaborative planning and replanning of visits – to devices which send alerts to individuals to generate conversation between them (and others) about the contents of the museum.

These initiatives are significant because such technologies – mobile devices in particular – are often understood to be incompatible with face-to-face engagements between people. Mobile phones and tablets, for example, have regularly been accused of privileging the personalised experience above the group experience and hindering engagement between visitors overall. The paraphernalia



Screenshot from a video recording of two student volunteers testing a collaborative, mobile-delivered digital storytelling experience at Çatalhöyük. Funding for this research has been provided by the British Institute at Ankara (video footage by Vassilis Kourtis)

associated with mobiles, including headphones used to deliver content to improve the visitor-exhibit relationship, can further impede human-to-human connectivity; for instance, they can literally deafen visitors to the voices of their companions. The devices' screens themselves can also get in the way, distracting visitors from the items on display and focusing their gaze upon the machine instead of on the museum itself. Efforts to use mobile devices to post to social media sites in order to create 'conversations' about the exhibits with audiences outside of the venue can be similarly problematic. The likelihood of generating real and sustained dialogue through such posts is debatable, making the exercise a passive one at best.

Despite these challenges with mobile technologies, many individuals and groups, both at museums and at archaeological sites, have continued to experiment with their possibilities. As reported in last year's *Heritage Turkey*, the Visualisation Team at Çatalhöyük is one such group. Our experiments have been motivated by seven years of qualitative and quantitative data collection about visitor experience, which testify to the site's complicated nature and resultant unintelligibility to many individuals. At Çatalhöyük, the archaeology is exposed, relatively uniform in colour and difficult to differentiate. Visitors cannot choose their own path through the site, cannot get close to any of the artefacts (which are transferred to museum stores upon excavation) and cannot experience the main attraction – the excavated buildings – from within the buildings themselves (only from a ramp overlooking them and via a generic replica house). Yet visitors also tend to arrive on site with mobile phones in hand and with knowledge derived from researching Çatalhöyük before arrival.

For these reasons, in 2014, funded by the British Institute at Ankara, we collaborated with the international CHESSEX Project (Cultural Heritage Experiences through Socio-personal interactions and Storytelling; <http://chessexperience.eu/>) to produce mobile-delivered

