DERI Outreach Culture & Heritage Program

Contact: Vinny.Reynolds@deri.org

DERI, through its Outreach work in the Galway schools community has a large and readily available archive of digital photographs and recordings from schools in the Galway region. The purpose of this project is to increase the availability of that material to the general public through two means. The first is the creation of a single online repository of that information that can be viewed online in a spatially relevant way. As part of its Outreach program, this content will be generated by school students, encouraging their uptake in mobile technologies. Secondly, this material will be viewable through an augmented reality browser creating an immersive real world experience when a person visits the school and its vicinity. This project will provide the database of digitized photographs that are "spatially linked", a portal website allowing these photos to be viewed online by browsing through maps, and *an augmented reality browser* that will display those photos when a person is visiting any area that has a school nearby.

Figure 1: A group photo taken at The Pines (Garbally) Secondary School, 1909 is displayed in the DERI-Augmented Reality browser when the user is nearby to where the original photo was taken!

In the future we plan *to link together several existing repositories* including archived storytelling recordings, GAA stories, pictures and photos from Galway museums, and Youtube videos even that are geo-located (audio from famous speeches for examples). By combining these data sets together in the one place, using Linked Data technologies, a mobile device will be able to act as a single location aware portal to all cultural and heritage content. One interesting way that this vast content might be intuitively combined is *to build a navigation layer over the cultural items* allowing the dynamic creation of tours based on linked content available within a specific region. For example, the browser could dynamically create an "audio historical tour of Galway city centre" by searching for linked audio content that has been tagged "historical" and linking these into a customised tour, and the using the location of the mobile device to bring the user to those points. Similarly, an alternative query for "conservation data" could return images of old indigenous forests, dynamically combined with the archived bird sounds from the same region.