

## GeoTaggingResources (GTR) Use Cases

1. Anonymiser – purge or delete intrinsic metadata which may be embedded within a resource (image) 'silently' such that the owner/user of the image is unaware that location information is attached. The issues related to this are discussed in this article and can have serious unintended repercussions: <http://www.army.mil/article/51268/>

Essentially the use case is – user uploads image and sees that location information is attached to image – evident from being able to see location on map and in a list of metadata that has been mined from the image on upload. User can choose to delete the location metadata or possibly 'obfuscate' by changing the resolution/accuracy of the embedded location e.g. original image gives the location accurate to pin point as a building but user may wish to change this to just city level so another user knows this resource is tagged to a city but not a specific neighbourhood.

2. Nearby pics. Show me all images in the GTR the corpus that are near this image.
3. Capture Device metrics. Show me technical characteristics of sensor used to capture this resource e.g focal length, camera make//model/
4. 3d pipeline - It might be possible to be combined with a mobile app that will upload the images on a server and the user will take back a 3d object that can measure it or do other stuff like putting images on it. It might be a useful app for students that study architecture and need a quick 3d model that will be able to improve it later on.
5. Context enhancer - 'mashup' capacity with say newsfeeds/twitter i.e. to be able to inject a locationally aware synopsis of events/happenings near the tagged location. I'd imagine say being able to encapsulate 'context' dependent on what the user chooses. Nicola extended this idea with the thought of an 'events organiser' in which all the media related to an event say a conference, could be tagged locationally but also via cross-referencing. I'm not sure how that might be implemented but my general idea of using other APIs to inject some relevant (and theres the trick) info into the image
6. MyGTR - register GTR as a service provider to the Generic GeoLocation middleware (MyGeo) that exists as a proto-service. Then we could provide a mapping between say the Geograph open data which we seed GTR with and/or our own user uploaded media and use MyGeo for proximity searching/uploading/download.
7. MediaHub repository - a user uploading a picture/video/audio file they wish to share, which (like adding a journal article to an ePrints repository) requires them to supply some metadata. GTR could have a role here, which would be something along the lines of sending a media file and receiving whatever metadata GTR could extract from it; this might be used to pre-populate the form the user submits to describe their item. There are preconditions for this use case.