



Champaign County
City of Champaign
City of Urbana
University of Illinois
Village of Rantoul
Village of Mahomet
Village of Savoy
Village of St Joseph

To: CCGISC Policy Committee
From: Leanne Brehob-Riley, GIS Director
Date: April 19, 2024
Re: GPS Base Station Cost Share MOU and Intergovernmental Agreement

What is a GPS Base Station & Benefits of a Centralized GPS Base Station

A GPS base station is a relatively expensive GPS receiver that is placed on a known location. The base station gathers signals from satellites, then transmits corrections (*errors between the calculated location of the base station and the actual location of the base station*) to roving GPS units.

Utilizing a centralized GPS base station provides a cost benefit and resource sharing opportunity for local agencies. Without it, agencies would be required to subscribe to a virtual reference station or maintain their own receivers to act as base stations.

GPS Base Station Cost Share MOU & Intergovernmental Agreement (IGA)

The GPS Base Station Cost Share Memorandum of Understanding (MOU) is a 5-year extension of the existing agreement between CCGISC and the University of Illinois. As with the current agreement, the University agrees to operate and maintain a National CORS GPS base station consistent with the National Geodetic Survey (NGS) standards in a continuous and reliable manner, including the procurement of all required equipment, software, and internet connectivity. This is done in exchange for an annual fee of \$2,408.67 for the duration of the agreement from October 2024 through October 2029. This is an annual reduction of \$2,216.33 from the previous 5-year agreement. All other edits from previous agreement in red or green font.

While CCGISC enters the MOU with the University, CCGISC receives funding for the agreement from the participating agencies with include the City of Champaign, City of Urbana, Urbana Champaign Sanitary District, the Village of Savoy, and the Village of Rantoul. Funds are received through a second agreement, the GPS Base Intergovernmental Agreement (IGA), which requires the participating agencies to pay one-fifth of the annual fee each year based on the terms and conditions outlined in the GPS Base Station Cost Share MOU.

There is some risk associated with the MOU between CCGISC and the University because the University claims Sovereign Immunity. However, the University is entering into the agreement in a spirit of cooperation and goodwill, and there have not been any issues with the University's operation or maintenance of the base station.

It is my recommendation that the Policy Committee approve the base station agreements.