

# **Managing Floodplain & Stormwater Infrastructure with GIS**

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## **Abstract:**

Geographic Information Systems (GIS) technology combines mapping software with database management tools to collect, organize, and share many types of information. This presentation will provide the audience with an introduction to GIS and how it can be used to aid in the management of floodplain and stormwater data and infrastructure. Within a GIS, geographical information is stored in a database that can be queried and graphically displayed for analysis. By overlaying or intersecting different geographical layers, floodprone areas can be identified and targeted for mitigation or stricter floodplain management practices. Example applications that will be illustrated include: mapping stormwater infrastructure; and calculating the percentage of land in the floodplain.