

# LIDAR DATA AND 2 FT TOPOGRAPHY PROJECT

Light Detection and Ranging (LiDAR) Data  
and FEMA 2 foot Contours for Denver and  
the Surrounding Metropolitan Communities  
USGS Sponsored Project



## Background

- Accurate topography at the appropriate CI (contour interval) is essential information for all projects
- SEMSWA planned to obtain 2- ft topography for our Service Area in 2008
- A maximum amount of \$100,000 was included in the 2008 budget for this mapping
- The Democratic National Convention requires LiDAR information for security purposes for 3 areas: DIA, downtown Denver and Centennial Airport

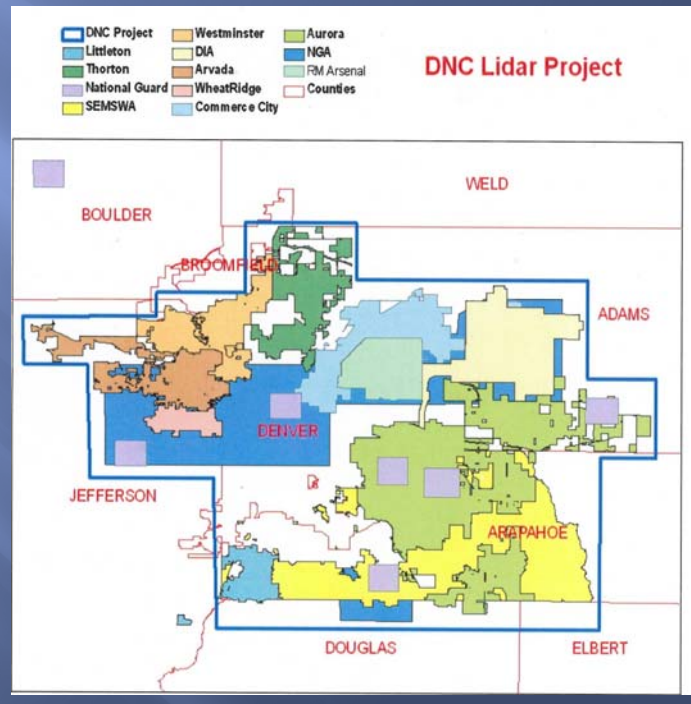


## Background Continued....

- The USGS was selected to coordinate the LiDAR project for the convention
- The USGS opened up the project to local governments
- Local partners could add to the project area and will pay proportional to their area of interest



## LiDAR Project Area and Partners



## Background Continued....

- Recently, CIP received a bid for LiDAR 2-ft topography for 1 mile by 500-1,000 ft of stream channel for \$14,000
- SEMSWA is paying up to \$30,000 for approximately 80 sq miles (SEMSWA Service Area)
- SEMSWA will receive approximately 450 sq. miles of 2-ft topography



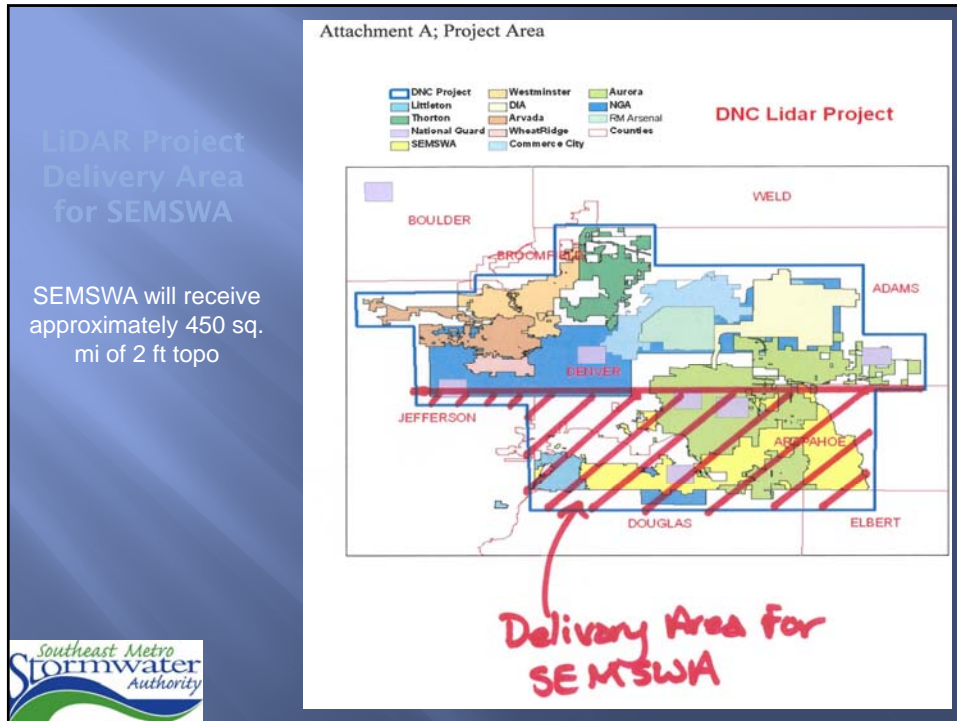
### LiDAR Project Participating Partners

SEMSWA is paying up to \$30,000 for approximately 80 sq miles (SEMSWA Service Area)



Planned Funding Partners and contributions are:

Partner	Contribution \$
USGS/CRGIO-PO	35,446
NGA	395,243
National Guard	10,528
Rocky Mtn. Arsenal	8,782
DIA	20,080
Thorton	23,147
Aurora	70,000
Commerce City	21,643
Arvada	17,771
Westminster	23,995
Wheat Ridge	3,363
Littleton	9,325
SEMSWA	30,000
<b>Total</b>	<b>669,323</b>



## Proposal

- Be able to provide the Community, Engineers, UDFCD, City, County, Water Districts, CIP, Remedial, Maintenance, Floodplain, Master Planning and Development projects quality 2 ft topography
- Basic information for SEMSWA's GIS data base; changes to the topography from projects can be easily tracked
- Huge benefit to having data on one datum

## RECOMMENDATION

- Fund the LiDAR Data and FEMA 2 foot Contours USGS Sponsored Project in an amount not to exceed \$30,000 using a combination of funds from the Floodplain Technical Review Support and the 2008 UDFCD Master Planning budget
- Approve Resolution No. 08-03 and authorize the execution of the Joint Funding Agreement with the USGS

