The 3D MetroDEM™ of Manhattan is being provided courtesy of i-cubed and TGNet, Inc. The sample data provided for Manhattan is only a small portion of the dataset available for the Island of Manhattan. For further information regarding this Manhattan MetroDEM™ or data for additional US and International Cities, please contact i-cubed at 1-800-4SATDAT or sales@i3.com.



Manhattan Data Layers

Raster Based Layers:

- Bald Earth DEM (with no building heights)
- Engineering DEM (building heights)

Vector Based Layers:

• Building Top Print and Footprint

Georeferencing:

Projection:	UTM
Zone:	18
Datum:	NAD83

Format:

Raster Based Layers - Grids Vector Based Layers - ArcView Shapefiles

Basic Instructions for Loading Data into ArcView 3.2

In the ArcView Window Double click on the Views Icon to create a new blank View



Click on the View window to make that view active. Load up a new theme by either

double clicking on the add theme button or from the main menu select: View \rightarrow Add Theme

🍭 Add Theme X Directory: s:\samples\s-mot1-01-002\working\eng-dem 0K 👿 man_dem_1m /2 🔁 ٠ Cancel 🗁 samples 🗁 s-mot1-01-002 🕞 working 📂 eng-dem Directories 🛅 info C Libraries Data Source Types: Drives: Grid Data Source • S: •

In the Add Theme menu, browse your directory structure for the appropriate files.

Please notice the Data Source Type Option in the lower left hand corner.

Select 'Grid Data Source' to load raster based grid data.

Select 'Feature Data Source' to load vector based shapefiles.

Use the View \rightarrow Add Theme menu to load up the following data layers:

Raster based Grid Data Sources:	Bald Earth DEM Engineering DEM
Vector based Feature Data Sources:	Building Top Prints Building Footprints

View Building Data in 3D

In order to view the Grid or Vector data in 3D you require the 3D Analyst extension. Turn on this extension by selecting from the main menu bar FILE \rightarrow EXTENSIONS

Scroll to find the '3D Analyst' Extension and make sure this box is checked.

a. From the main menu select View \rightarrow 3D scene

🝳 3D Scene	×
Add View to 3D Scene as:	OK
Themes	Cancel

Select Themes and click OK

- b. In the View, select the Bald Earth DEM as the active theme by clicking on it:
- c. From the main menu select Theme \rightarrow 3D Properties

This launches the Add Theme Menu

🍳 3D Theme Proper	ties 🔀		
Theme:	Man_dtm_5m		
Assign base heights by	:		
C Value or expression:	° <u> </u>		
Surface:	102/working/bald-earth/man_dtm_5m 💌 🛃	•	Select the 'Surface' option
C Existing 3D shape	·s	-	and make sure that the
Z factor:	1.00000		Bald Earth DEM is the selected surface
Offset heights by value or expression:	° • •		
Extrude features by value or expression			
Extrude by:	× 1		
Show shading for fe	atures Advanced		
Help	OK. Cancel Apply	•	Click 'Apply"

d. Return to the View, and Select one vector layer (at a time) – Theme Pull down – 3D Properties

2 3D Theme Properties		
Theme:	Man_utm_tpr.shp	
Assign base heights by:		
C Value or expression:		
 Surface:)02\working\bald-earth\man_dtm_5m 💌 🛃	
Existing 3D shapes		
Z factor:	1.00000	
Offset heights by value or expression:		
Extrude features by value or expression:		
Extrude by:	Using as absolute	
Show shading for features Advanced		
Help	OK Cancel Apply	

 Select the Surface option and make sure the Bald Earth DEM is the selected surface

- Click the calculator icon to the right, select elevation
- Select 'using as absolute' for extrude by
- Click 'Apply'

Repeat this step for the other vector layer.

e. In the 3D Scene window, zoom and pan around to get different 3D Views of the building data.