## **Example Diagram of Small Cell Node Attached to Light Pole**

## ANATOMY OF A SMALL CELL NODE POLE

**HOW IT WORKS:** 

Small cell networks expand wireless coverage and capacity using smaller equipment in conjunction with cell towers.

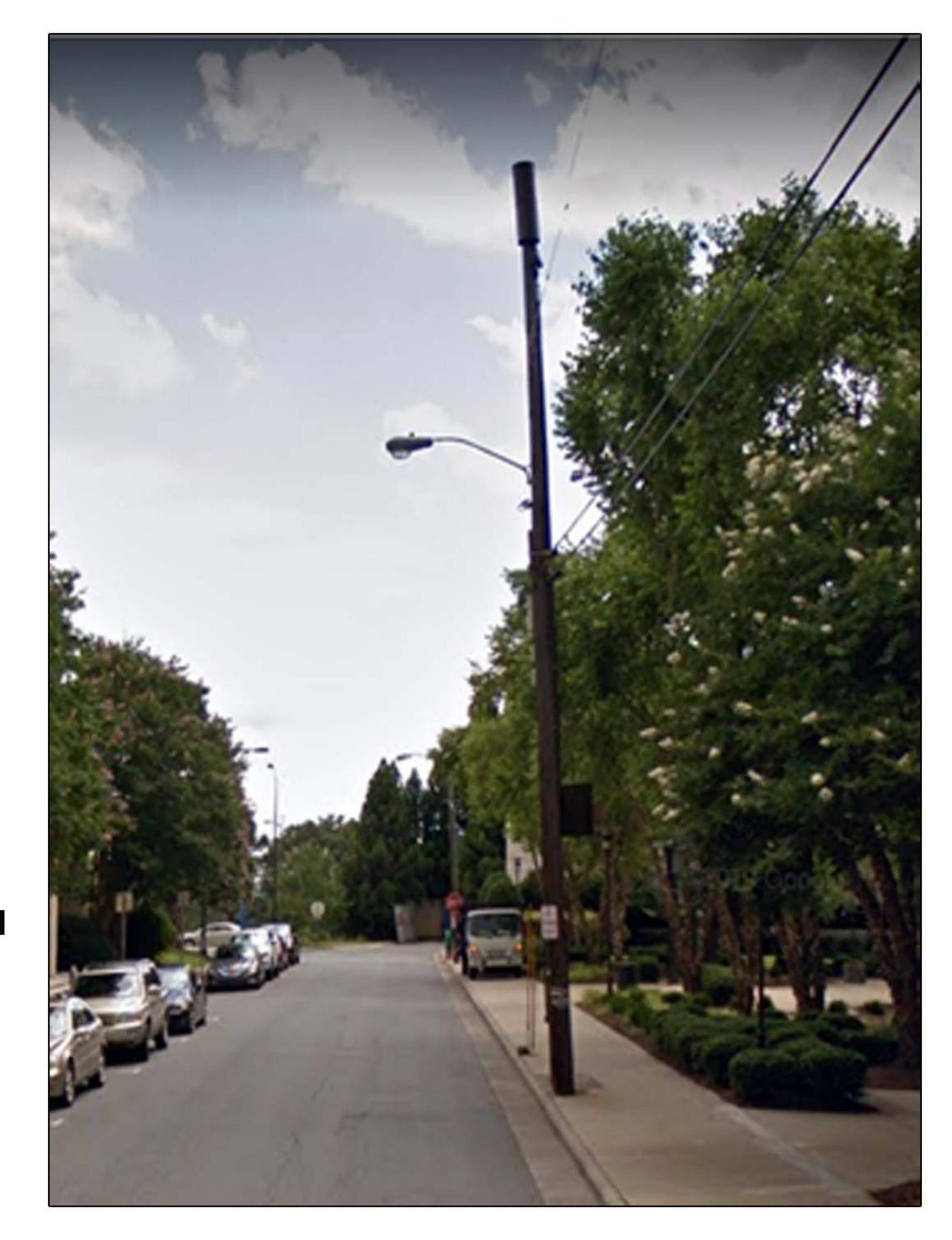
Received and translated signals pass through fiber-optic cable to a macro tower or other "hub" that transmits them to a local network. Small cells send signals directly to "smart" device users.

ANTENNAS CONNECTED TO NODES RECEIVE AND TRANSMIT TO AND FROM SMARTPHONES AND OTHER WIRELESS DEVICES.

THE CABINET HOLDS EQUIPMENT THAT PROCESSES SIGNAL OR WIRELESS OPERATORS.

OPTICAL FIBER CARRIES DATA TO AND FROM DATA CENTERS ALLOWING A SIGNIFICANT AMOUNT OF BANDWIDTH AND ENABLING EDGE COMPUTING.

Sources: Texas 5G Alliance, Australian Mobile Telecommunications Association (AMTA), Mobile & Wireless Forum (MWF), GSM Association



Existing Small Cell Node Attached to Light Pole on Chestnut Street