

#### A guide for local authorities

# Small cells deliver smart city technology

We've created this guide to help local councils and municipalities understand the impact of smart city technologies on the existing streetscape.

#### The digital economy

The benefits of the digital economy and smart cities are clear. Local authorities have an important role to play in making connected cities happen. Cities are beginning to install small cells on a wide scale so businesses and the general public can take advantage of new services and ubiquitous connectivity.

Today, forward thinking municipalities are changing the way they work and plan in order to deliver better mobile coverage – and local businesses and the general public

are reaping the rewards.

mpact, low powe

Challenge

Mobile data data traffic growth/topline growth/topline growth rate growth rate growth rate growth rate growth growth rate growth data and telecommunications services – but demand is

30.6 EB

Global mobile data traffic growth/topline growth/topline growth/topline 30.6 EB

9.9 EB

6.2 EB

3.7 EB

The availability of cell sites to deliver such services using big towers and roof tops is limited and declining. The challenge is further exacerbated if we consider the digital divide between dense urban and more rural areas, where similar scale will be required.

2015

2016

2017

Source: Cisco VNI Global Mobile Data Traffic Forecast, 2015-20

#### The requirements

widely outstripping supply.



People want access to mobile broadband for video and social networking, quality of life and personal connectivity



enable innovation, connectivity, productivity and efficiency

Businesses want to



2019

2020

2018

Municipalities need to move towards smart city functionality that delivers: security, critical services, traffic management, emergency response, enabling new business and revenue streams

#### Three steps for successful deployment

### STEP 1 STEP 2 STEP 3

better: utility poles, lamp posts, buildings, bus stops, bus shelters, advertising panels, CCTV mountings.

The more locations the

power supply.

Available uninterrupted

infrastructure – eg. to a fiber network, wireless hops and the city's own infrastructure.

Easy access to other telecom

Local councils can incorporate these considerations into their everyday planning

## Managing small cells How local authorities can manage the smooth implementation of small cells

