Emerging Site Layers
How 5G will change network build practice
Today’s mobile traffic

• Large majority of traffic served from outdoor macro

- Outdoor generated
- Indoor generated

38 Exabytes/month 2019 *

Outside-in coverage

Dedicated indoor
Mainly Distributed Antenna Systems

*) Ericsson Mobility report, January 2020
Urban traffic trend

- Mega cities
- Taller buildings
- Energy efficiency standards
- Video driving traffic growth
- Higher frequency bands

*) Ericsson Mobility report, January 2020
Site Layers

- Macro
- Street Macro
- Street Micro
- Indoor
- Transport
- Baseband

Output power
Ease of site build
Macro innovations
Lightpole Sites

- Complete site solution inside light pole
- Customized for ERS HW
- Standardized solutions → Short TTM
- Ericsson approved
Street Micro Sites

- Up to 4 x Radio
- Modular design
  Fits both in panels, bus stops and columns
Street Vault

- Antenna
- Coax
- Remote radio
- Fiber
- Power

Antenna

Remote radio
Site Types

Macro
Street Macro
Street Micro
Indoor
C-RAN

Roof top
Mono pole
Tower
Green
Light pole
Utility pole
Low roof top
Integrated light pole
Bolt-on
Integrated light pole
Street furniture
Strand

Indoor Macro
Stadium
Enterprise
Private network