

Table 2 Simulation Parameters

Parameter	Value
Macrocell radius (m)	500
Femtocell radius (m)	50
Number of femtocells	0-100
Number of macro UEs	25
Modulation	<i>UE-Femto BS link: Adaptive modulation (QPSK, 16 QAM)</i> <i>Femto BS-Macro BS link: Adaptive modulation (QPSK, 16 QAM)</i>
Shadowing std UE-Macro BS (dB)	10
Shadowing std UE-Femto BS (dB)	10
Shadowing std femto BS-macro BS (dB)	6
UE transmit SNR (dBm)	23
Femto transmit SNR (dBm)	23
Receiver diversity gain (dB)	3
Penetration loss (dB)	20
Results	Power reduction, macro UE data rate