CLAIMS

1. A method for wireless communication by a user equipment, UE, comprising:

transmitting (1302), to a serving base station, BS and a non-serving BS, an uplink reference signal with an indication of a preferred downlink beam; and

receiving (1304), from the serving BS or the non-serving BS, a handover command based, at least in part, on the uplink reference signal.

2. The method of claim 1, further comprising including an ID of the UE in the uplink reference signal, or further comprising:

receiving a handover command based on the uplink reference signal.

3. The method of claim 1, further comprising:

selecting the preferred beam during a connection establishment procedure, wherein

transmitting the uplink reference signal comprises transmitting the uplink reference signal during the connection establishment procedure.

4. The method of claim 3, further comprising:

receiving one or more measurement reference signals, MRSs, transmitted using different beams; and

selecting the preferred beam based on the one or more MRSs.

5. The method of claim 4, wherein:

receiving the one or more MRSs comprises receiving the one or more MRSs from a plurality of base stations, BSs.

6 The method of claim 1, wherein:

the preferred beam is selected after a connection establishment procedure; and

the uplink reference signal is transmitted while the UE is in a connected state.

7. The method of claim 6, further comprising:

during the connection establishment procedure, transmitting another uplink reference signal without an indication of a preferred beam, or wherein:

the uplink reference signal does not include an ID of the UE.

8. A method for wireless communication by a non-serving base station, BS, comprising:

receiving (1402), from a user equipment, UE, an uplink reference signal with an indication of a preferred downlink beam;

transmitting (1406), a handover command to the UE based, at least in part, on the uplink reference signal.

9. The method of claim 8, wherein the uplink reference signal includes an ID of the UE.

10. The method of claim 8, further comprising:

performing a connection establishment procedure with the UE, wherein

receiving the uplink reference signal comprises receiving the preferred beam during the connection establishment procedure,

transmitting one or more measurement reference signals, MRSs, using different beams, and wherein the preferred beam is based on the one or more MRSs.

11. The method of claim 8, further comprising:

performing a connection establishment procedure with the UE, wherein

receiving the uplink reference signal comprises receiving the uplink reference signal after the connection establishment procedure while the UE is in a connected state.

12. The method of claim 11, further comprising:

during the connection establishment procedure, receiving another uplink reference signal without an indication of a preferred beam, or wherein:

the uplink reference signal does not include an ID of the UE.

13. The method of claim 10, further comprising:

transmitting a handover command based on the uplink reference signal, or wherein transmitting the handover command based on the uplink reference signal comprises transmitting the handover command based on at least one of the indication of the preferred beam or measurement of the uplink reference signal.

14. An apparatus for wireless communication by a user equipment, UE, comprising means arranged to perform the steps of any one of claims 1 to 7.

15. An apparatus for wireless communication by a base station, BS, comprising means arranged to perform the steps of any one of claims 8 to 13.