CLAIMS:

We claim:

1. A method comprising:

storing in a local memory a rule that specifies a timing relation between a measurement configuration which indicates at least one subframe to measure and a reporting configuration which indicates at least one subframe in which to report; and

using the rule to map between a downlink subframe in which channel state information is measured and an uplink subframe in which the channel state information is reported;

wherein at least the measurement configuration is periodic and indicates multiple downlink subframes to measure; and

using the rule to map between the downlink subframe and the uplink subframe results in a one to one mapping of one downlink subframe to one uplink subframe in which less than all of the multiple downlink subframes map to an uplink subframe.

2. The method according to claim 1, wherein the measurement configuration and the reporting configuration are configured for a user equipment using wireless signaling.

3. The method according to claim 2, wherein at least the measurement configuration is configured for the user equipment via dedicated wireless signaling.

4. The method according to claim 2, wherein at least the measurement configuration is configured for the user equipment via broadcast signaling.

5. The method according to claim 2, wherein the signaled measurement configuration comprises a bitmap which indicates which of a plurality of subframes is the at least one subframe to measure.

~~6. The method according to claim 1, wherein at least the measurement configuration is periodic and indicates multiple downlink subframes to measure; and~~

~~using the rule to map between the downlink subframe and the uplink subframe results in a one to one mapping of one downlink subframe to one uplink subframe in which less than all of the multiple downlink subframes map to an uplink subframe.~~

~~7. The method according to claim 1, wherein at least the measurement configuration is aperiodic and indicates a single downlink subframe to measure.~~

~~8~~6. The method according to any one of claims 1 through ~~5~~7, in which the method is executed by a network access node which sends to a user equipment the measurement configuration and the reporting configuration;

and in which using the rule comprises mapping between an uplink subframe in which the channel state information is received from the user equipment and a downlink subframe indicated by the measurement configuration.

~~9~~7. The method according to any one of claims 1 through ~~5~~7, in which the method is executed by a user equipment which receives from a network the measurement configuration and the reporting configuration;

and in which using the rule comprises mapping between a downlink subframe indicated by the measurement configuration in which the user equipment measures channel state information and an uplink subframe in which the user equipment reports the measured channel state information to the network.

~~10~~8. An apparatus comprising:

at least one processor; and

at least one memory including computer program code and a rule that specifies a timing relation between a measurement configuration which indicates at least one subframe to measure and a reporting configuration which indicates at least one subframe in which to report;

the at least one memory and the computer program code configured, with the at least one processor, to cause the apparatus at least to perform:

using the rule to map between a downlink subframe in which channel state information is measured and an uplink subframe in which the channel state information is reported;

wherein at least the measurement configuration is periodic and indicates multiple downlink subframes to measure; and

using the rule to map between the downlink subframe and the uplink subframe results in a one to one mapping of one downlink subframe to one uplink subframe in which less than all of the multiple downlink subframes map to an uplink subframe.

~~11~~9. The apparatus according to claim ~~10~~8, wherein the measurement configuration and the reporting configuration are configured for a user equipment using wireless signaling.

10~~2~~. The apparatus according to claim ~~11~~9, wherein at least the measurement configuration is configured for the user equipment via dedicated wireless signaling.

11~~3~~. The apparatus according to claim ~~11~~9, wherein at least the measurement configuration is configured for the user equipment via broadcast signaling.

12~~4~~. The apparatus according to claim ~~11~~9, wherein the signaled measurement configuration comprises a bitmap which indicates which of a plurality of subframes is the at least one subframe to measure.

~~15. The apparatus according to claim 10, wherein at least the measurement configuration is periodic and indicates multiple downlink subframes to measure; and~~

~~using the rule to map between the downlink subframe and the uplink subframe results in a one to one mapping of one downlink subframe to one uplink subframe in which less than all of the multiple downlink subframes map to an uplink subframe.~~

~~16. The apparatus according to claim 11, wherein at least the measurement configuration is aperiodic and indicates a single downlink subframe to measure.~~

13~~7~~. The apparatus according to any one of claims ~~10~~8 through 12~~6~~, in which the apparatus comprises a network access node which is configured to send to a user equipment the measurement configuration and the reporting configuration;

and in which using the rule comprises mapping between an uplink subframe in which the channel state information is received from the user equipment and a downlink subframe indicated by the measurement configuration.

14~~8~~. The apparatus according to any one of claims ~~10~~8 through 12~~6~~, in which the apparatus comprises a user equipment which receives from a network the measurement configuration and the reporting configuration;

and in which using the rule comprises mapping between a downlink subframe indicated by the measurement configuration in which the user equipment measures channel state information and an uplink subframe in which the user equipment reports the measured channel state information to the network.

15~~9~~. A computer readable memory storing a rule that specifies a timing relation between a measurement configuration which indicates at least one subframe to measure and a reporting configuration which indicates at least one subframe in which to report, and storing a program of computer readable instructions that when executed by a processor result in actions comprising:

using the rule to map between a downlink subframe in which channel state information is measured and an uplink subframe in which the channel state information is reported;

wherein at least the measurement configuration is periodic and indicates multiple downlink subframes to measure; and

using the rule to map between the downlink subframe and the uplink subframe results in a one to one mapping of one downlink subframe to one uplink subframe in which less than all of the multiple downlink subframes map to an uplink subframe.

~~20~~16. The computer readable memory according to claim 1~~9~~5, wherein the measurement configuration and the reporting configuration are configured for a user equipment using wireless signaling.

~~21~~17. An apparatus comprising:

storing means for storing a rule that specifies a timing relation between a measurement configuration which indicates at least one subframe to measure and a reporting configuration which indicates at least one subframe in which to report; and

processing means for using the rule to map between a downlink subframe in which channel state information is measured and an uplink subframe in which the channel state information is reported;

wherein at least the measurement configuration is periodic and indicates multiple downlink subframes to measure; and

using the rule to map between the downlink subframe and the uplink subframe results in a one to one mapping of one downlink subframe to one uplink subframe in which less than all of the multiple downlink subframes map to an uplink subframe.