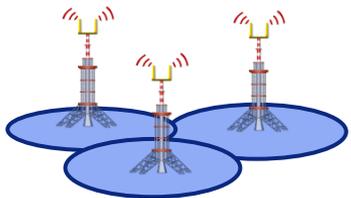


Proposal for relaying capability

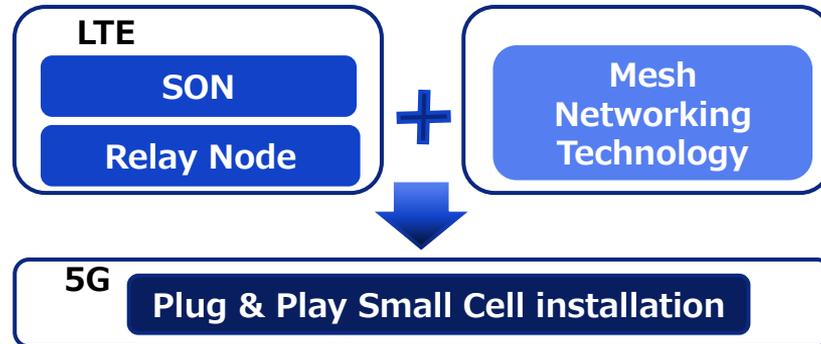
KDDI Corporation

- Challenge : Deployment cost increase due to Small Cell

Macro Cell (planned)

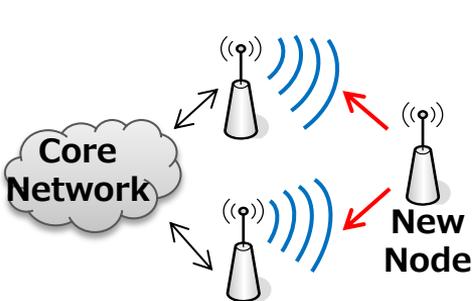


Small cell (planned and unplanned)

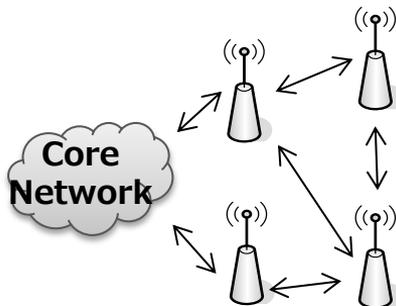


- Solution : Plug & Play installation with wireless backhaul and SON enhancement

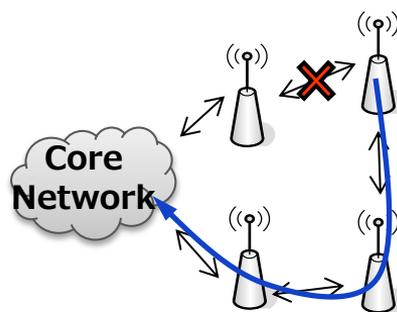
Discovering and adding nodes



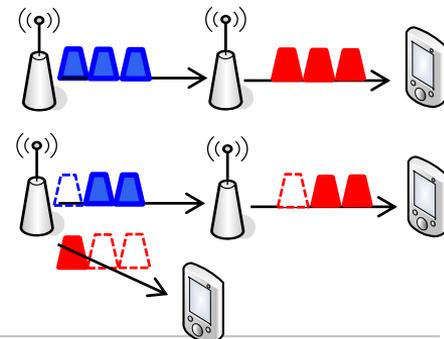
Mesh networking with relay hop



Auto rerouting



Dynamic Frequency Allocation to Access & Backhaul Link



Technologies which enable “small cell plug and play installation” for 5G deployment are important for operators. So **the following 3 capabilities should be studied within the 5G SI.**

1. Multihop/mesh relay
2. Relay self configuration (including “autonomous neighbor discovery”, “link setup”, “self configuration”, “auto re-routing”)
3. Flexible (quasi-static / dynamic) partitioning of resources between the relay links