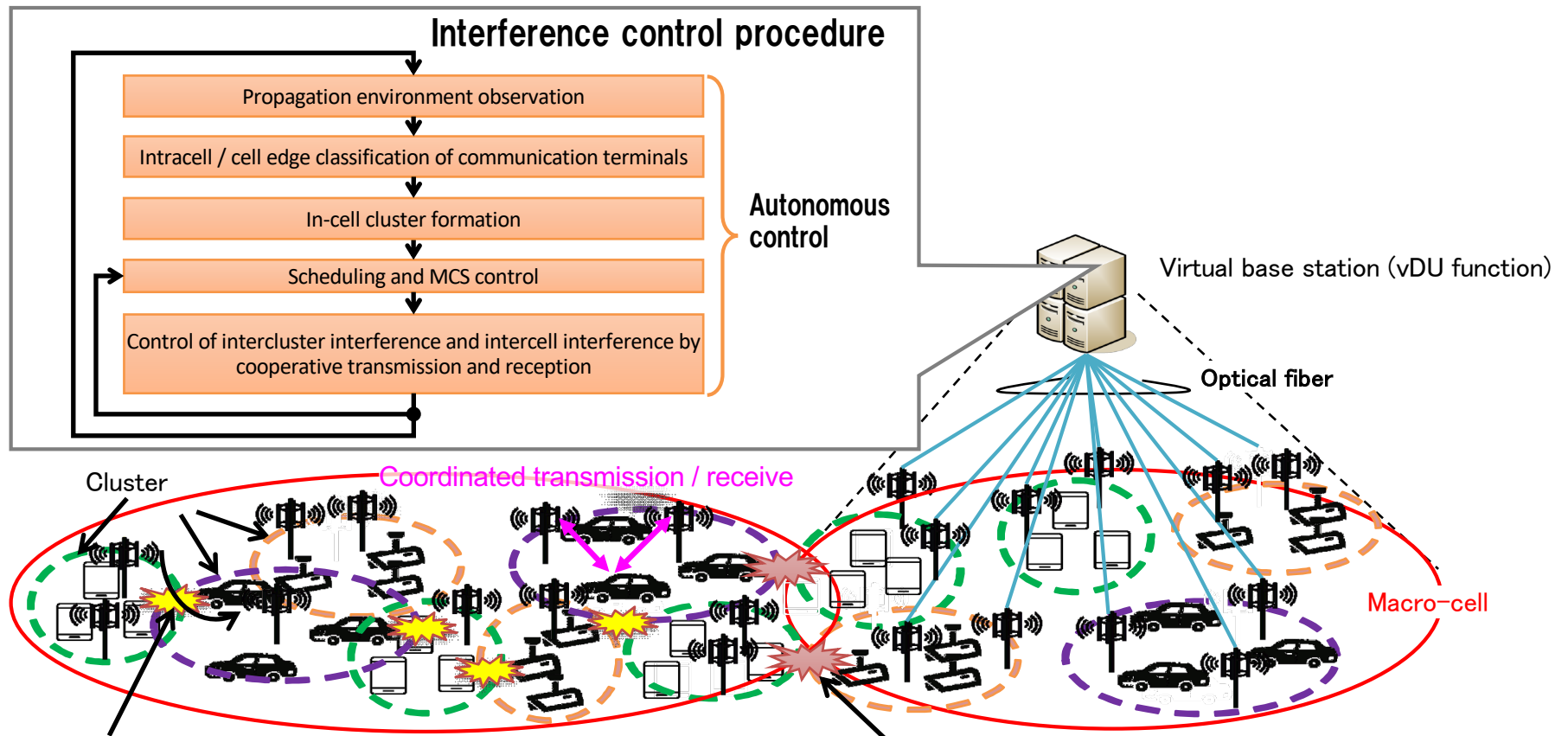


R&D for further advancement of 5th generation mobile communication systems

Wireless integrated control technology to realize adaptive RAN

- Establishing an interference control method that tracks dynamic fluctuations in the radio wave environment such as traffic distribution, building density, base stations and antenna placement.
- Ensures communication quality through interference and adaptive control of radio resources corresponding to various communication service requirements.
- Realization of integrated optical and wireless resource control technology to flexibly utilize resources according to different communication requirements.
- Distribute processing of abstracted optical transmission resources, wireless conversion resources, computing resources, etc. while adapting resources according to traffic requirements and propagation conditions in the wireless section.



Intercluster interference control

- Cluster reconfiguration in response to traffic fluctuations
- Setting of inter-cluster distance according to communication requirements

Inter-cell interference control

- Default bandwidth allocation orthogonal between adjacent cells
- Additional band selection according to inter-cell interference level

R&D for further advancement of 5th generation mobile communication systems

Wireless integrated control technology to realize adaptive RAN

- We will establish a high-efficiency access transmission control method that efficiently accommodates various services with different requirements by adaptively controlling transmission capacity and delay for each communication service.
- We will achieve high-capacity, high-quality, and low-latency simultaneously by multi-level/variable redundancy FEC digital coherent optical transmission technology and optical/wireless integrated MCS control technology

