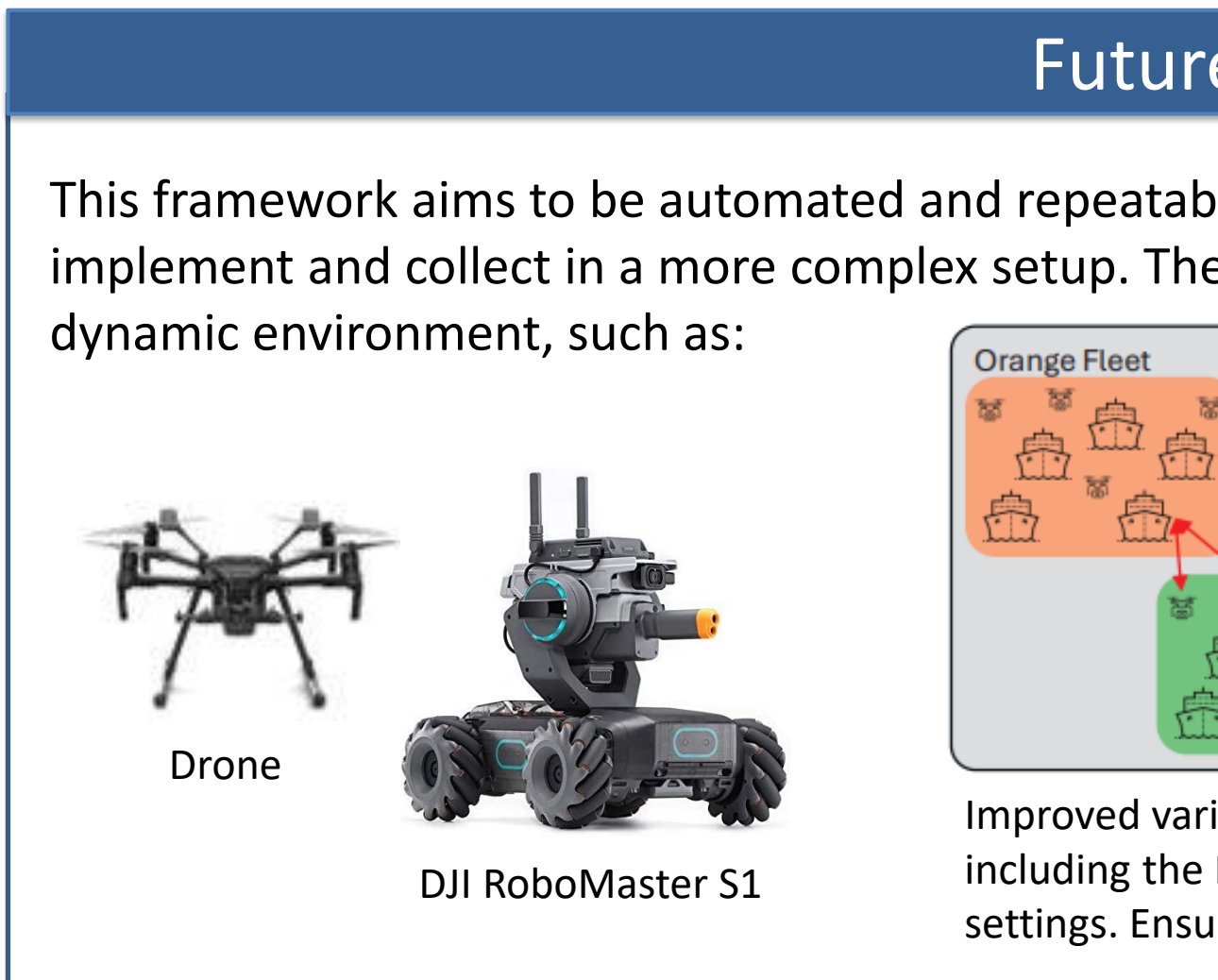
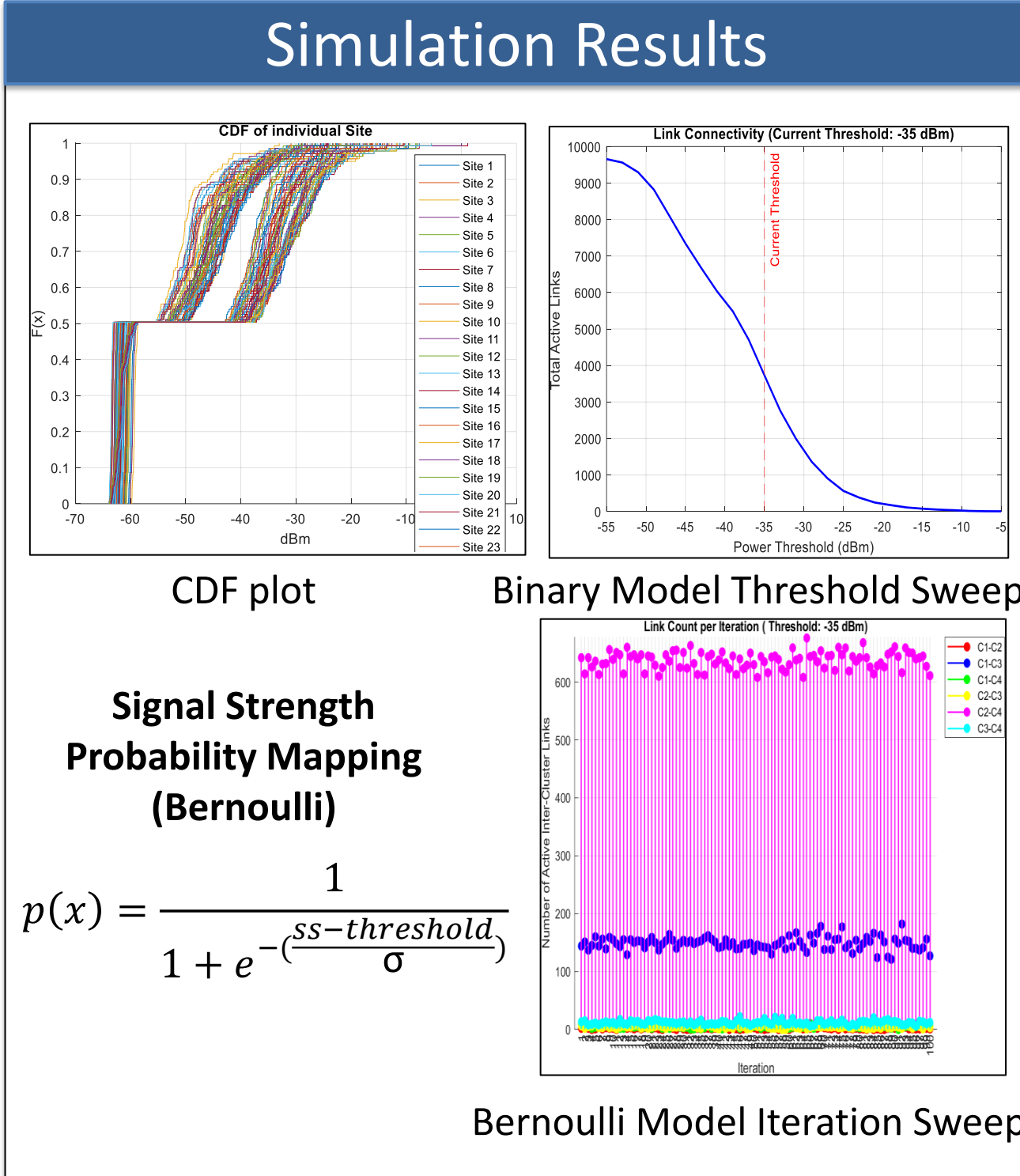
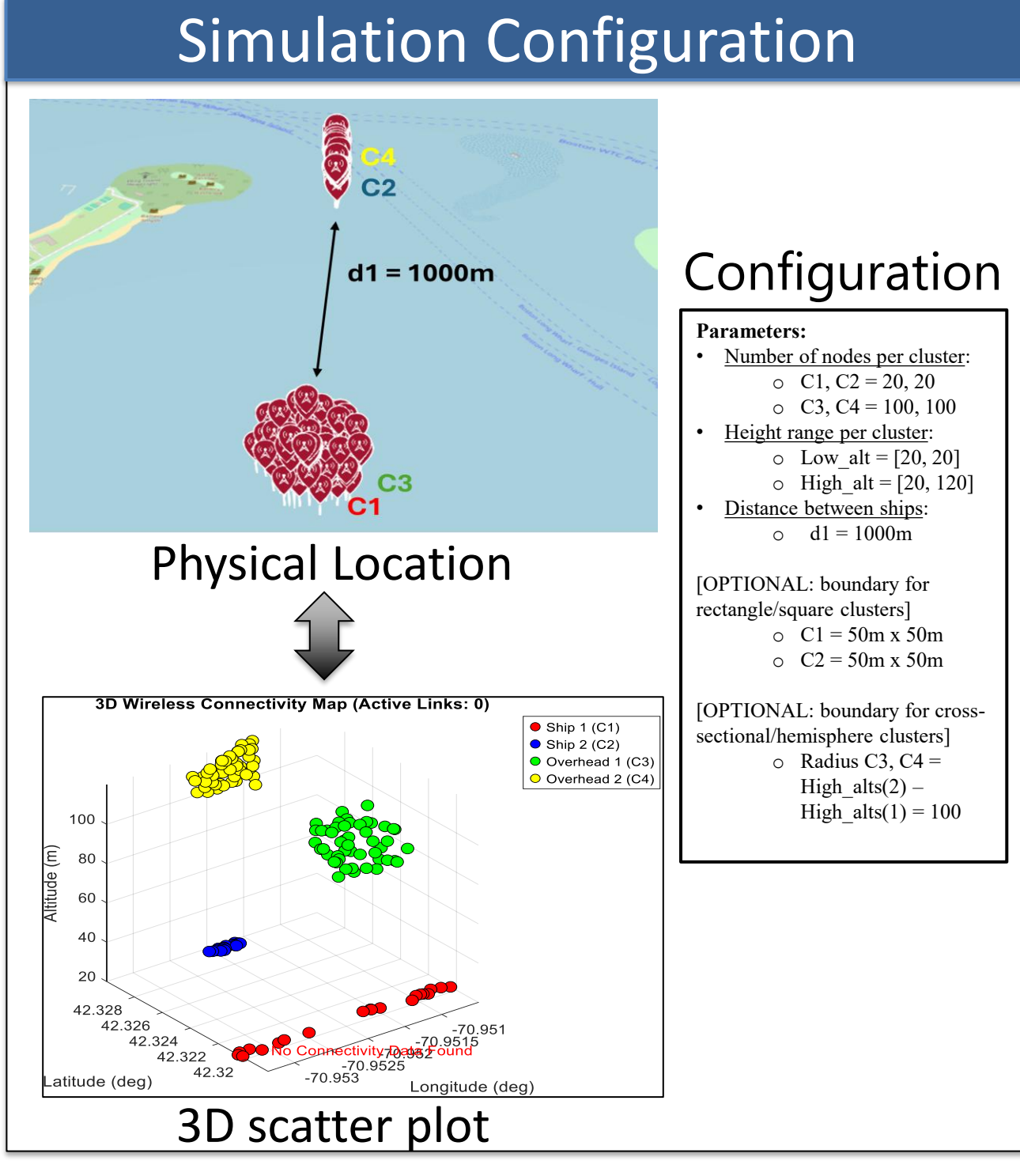
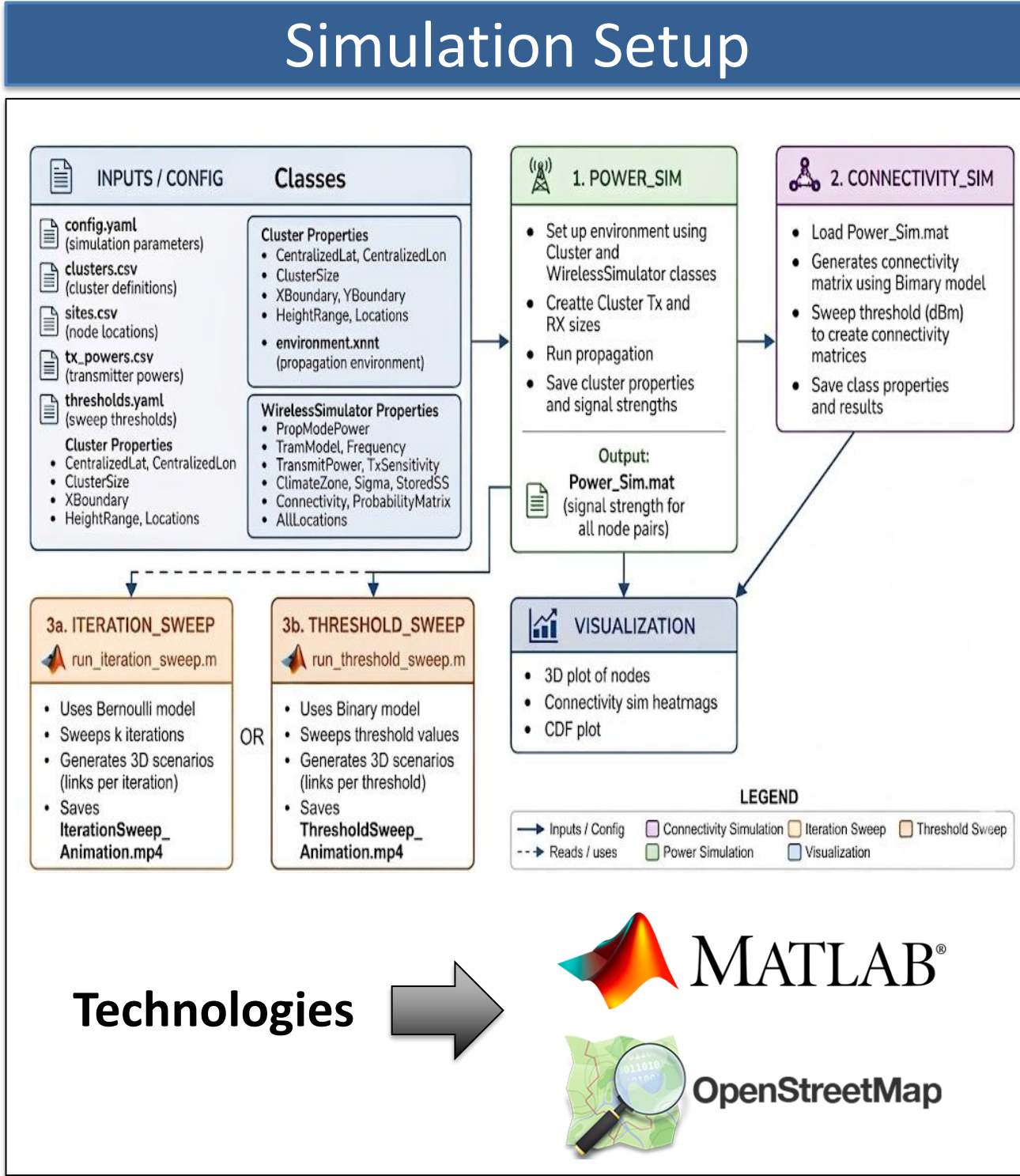
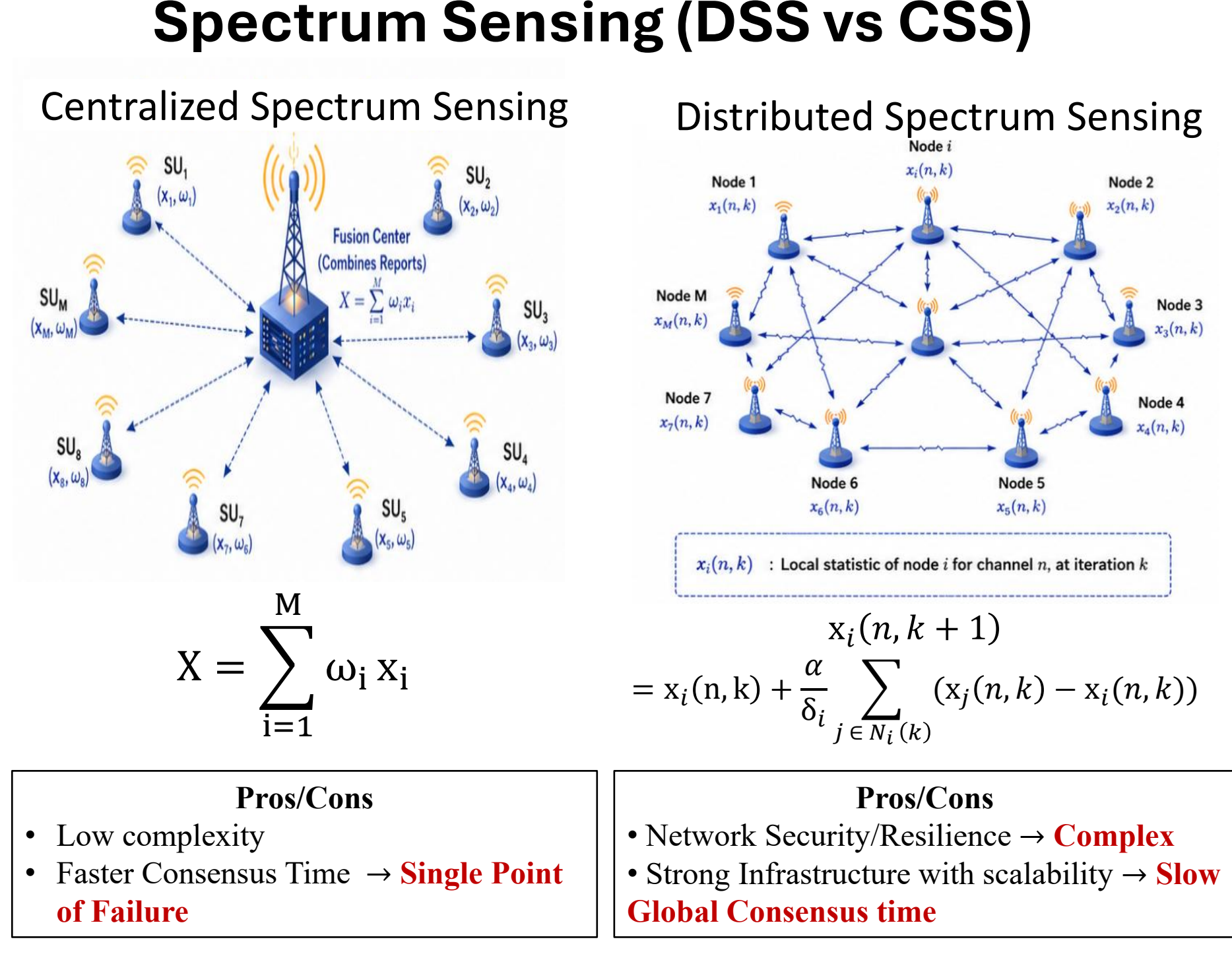
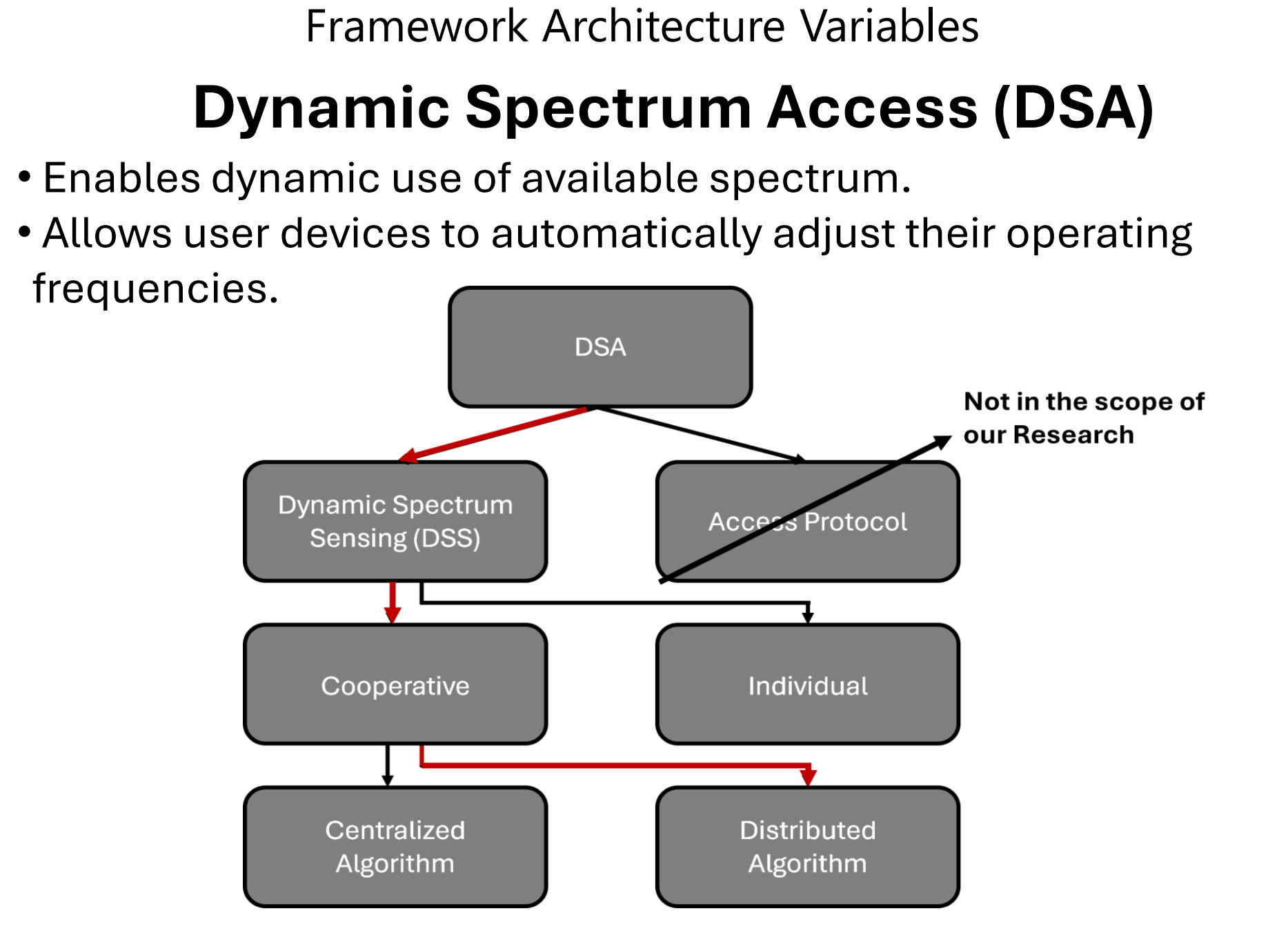
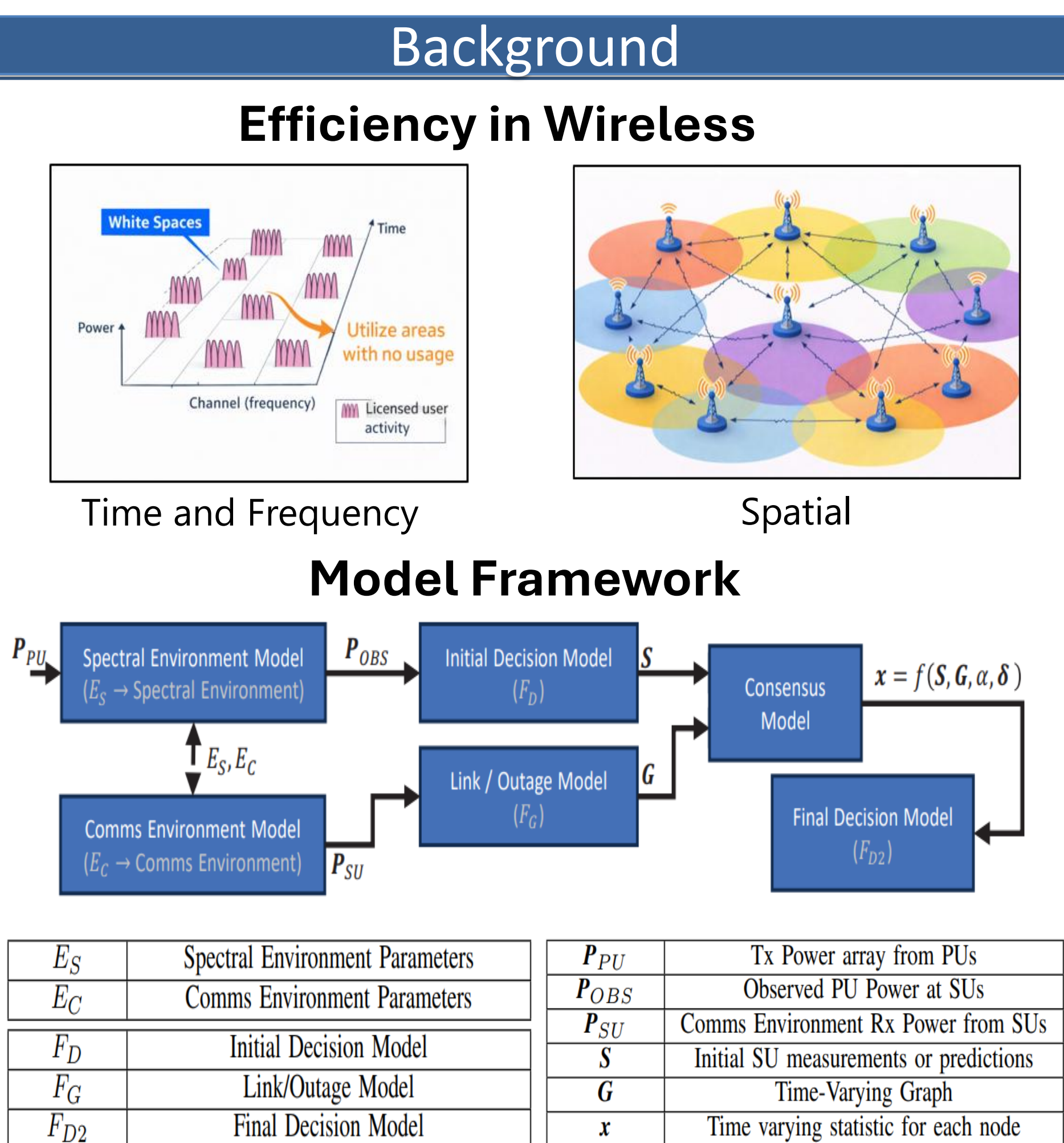


Abstract

The radio spectrum is divided into licensed channels assigned to **Primary Users (PUs)**. Spectrum Congestion becomes a problem when many users are using a channel. To combat this, the **Dynamic Spectrum Access (DSA)** framework is introduced to help with efficient management of the frequency spectrum. Dynamic Spectrum Access (DSA) allows **Secondary Users (SUs)** to use idle channels when PUs are inactive. This research focuses on **Distributed Spectrum Sensing (DSS)**, where nodes make sensing decisions without relying on a central controller.



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