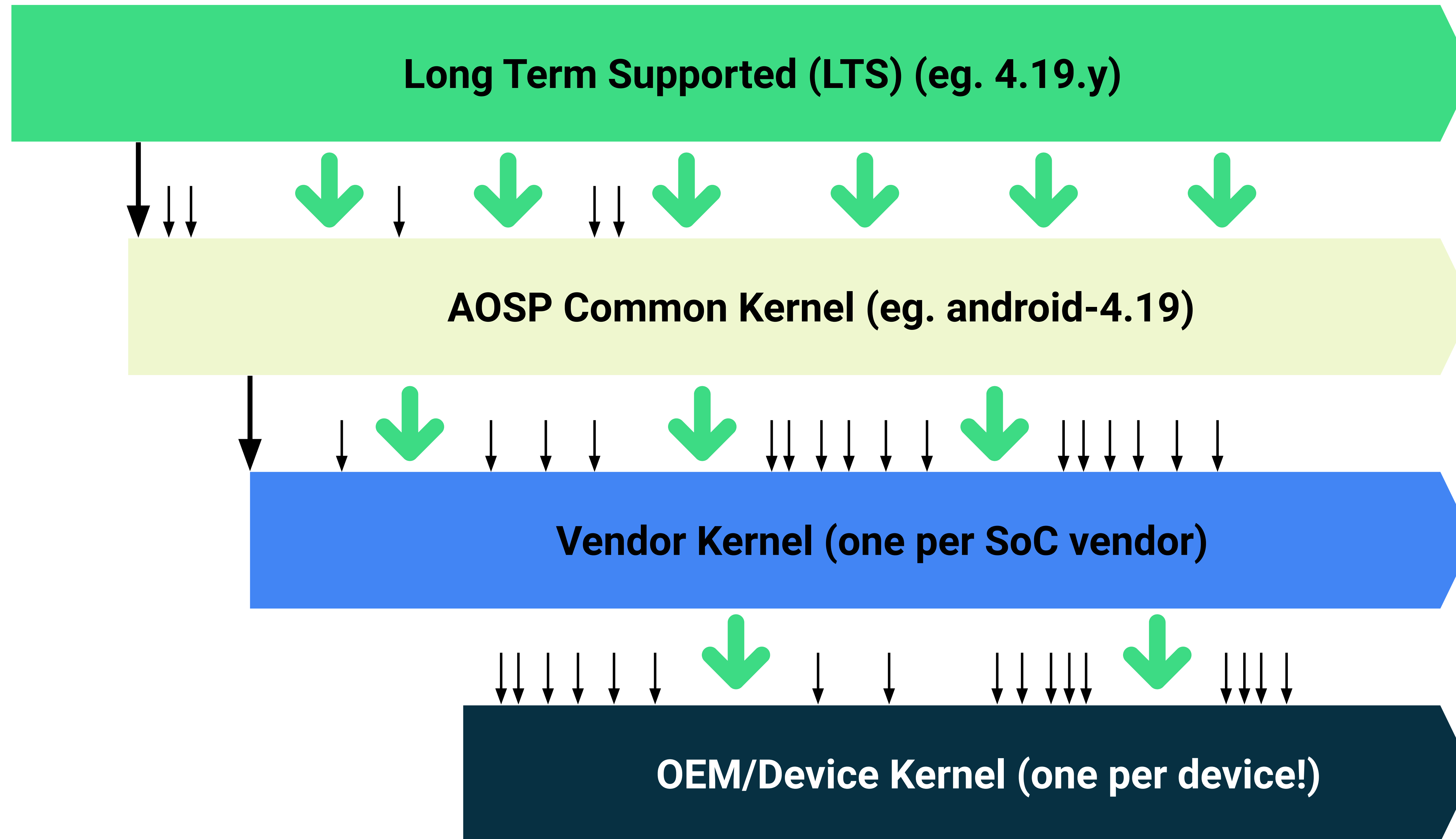


Generic Kernel Image

Linux Plumbers Conference 2020

Android Microconference

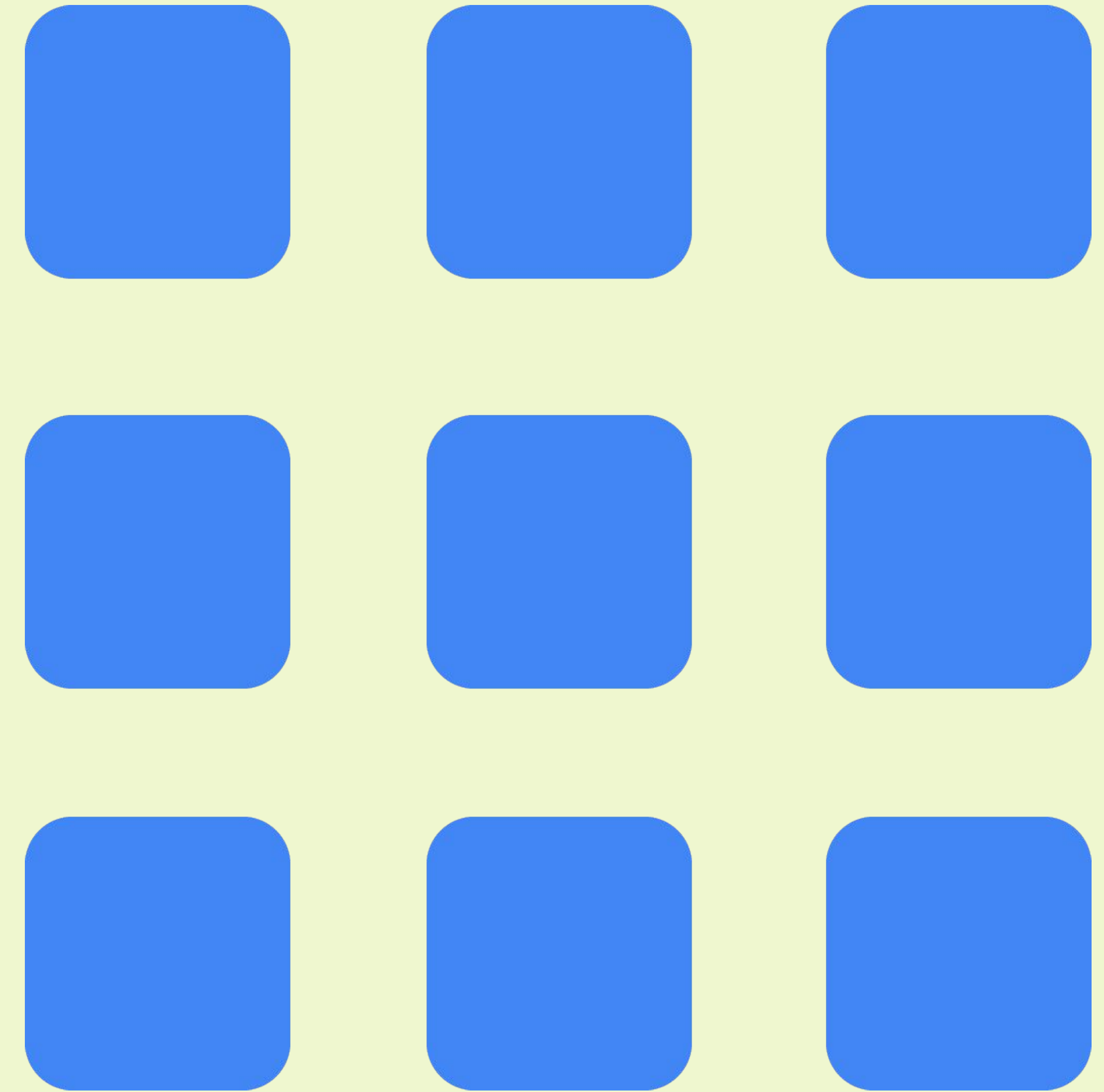
Android Kernel Hierarchy



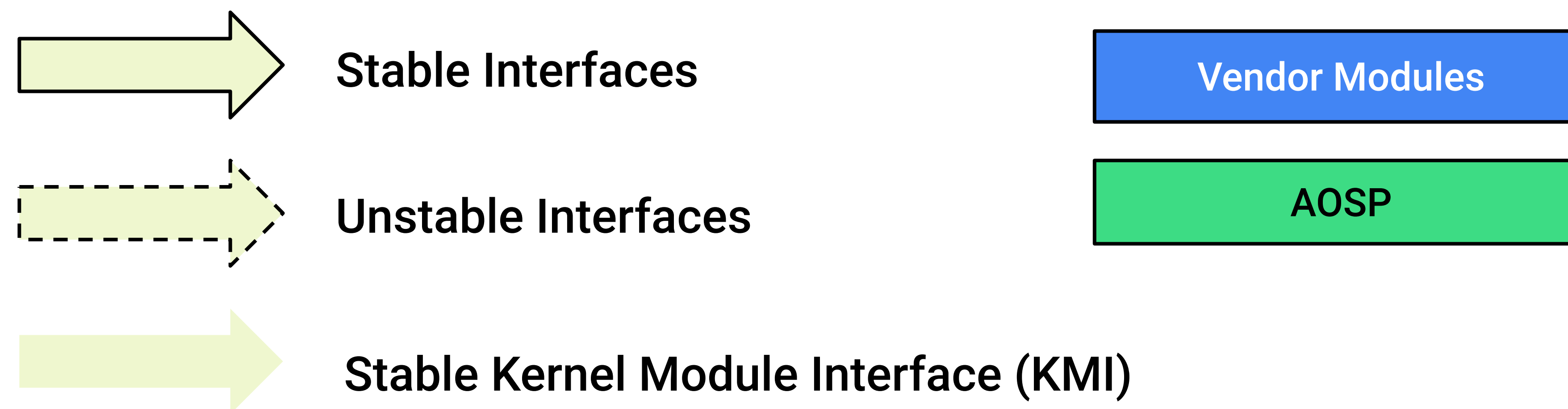
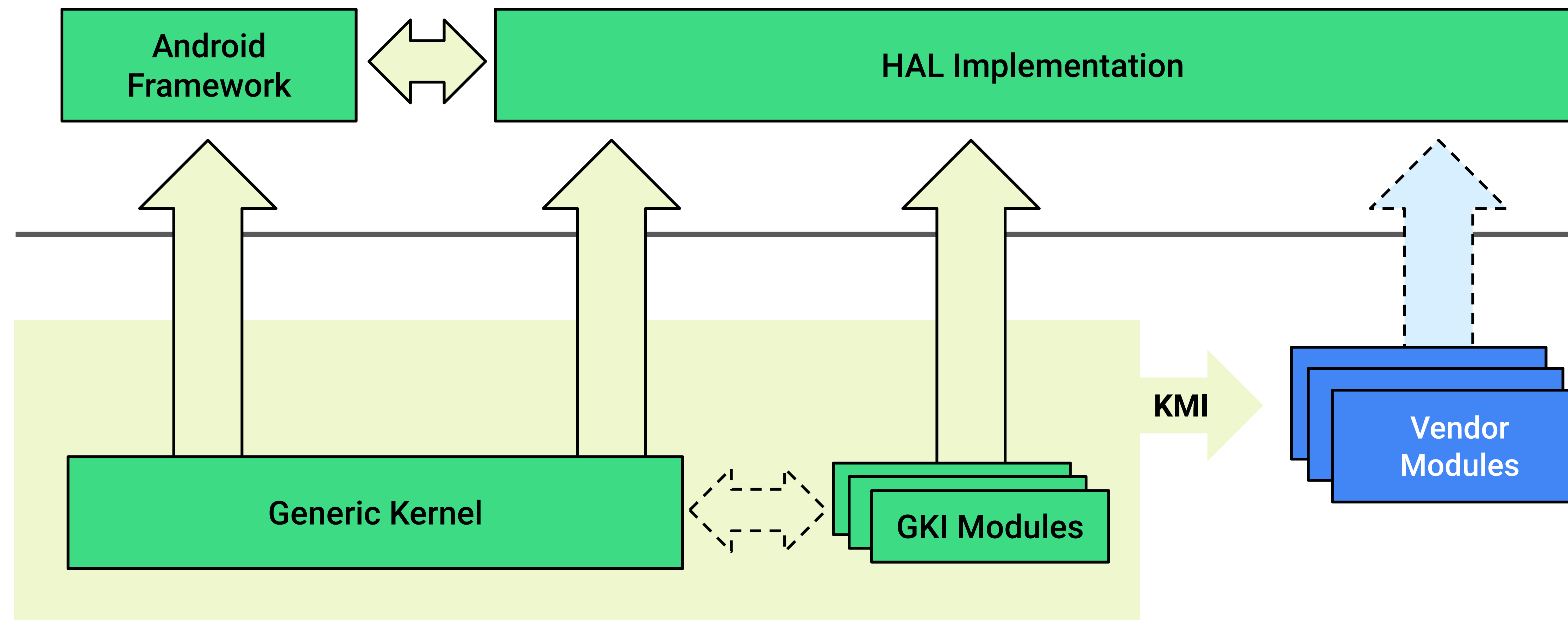
Clone → Merge → Cherry-Pick →

Cost of Kernel Fragmentation

- Security updates are labor intensive
- Difficult to merge long-term stable updates
- Inhibits Android Platform release upgrades
- Difficult to contribute kernel changes back to upstream Linux



GKI is About Fixing Kernel Fragmentation



GKI Deployment

Android 11 (2020)

- Devices continue to ship with device kernel
- Project Treble compatibility testing done with GKI
 - VTS, CTS-on-GSI

Android 12 (2021)

- Devices ship with GKI
- All testing done with GKI