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CBRS By the Numbers

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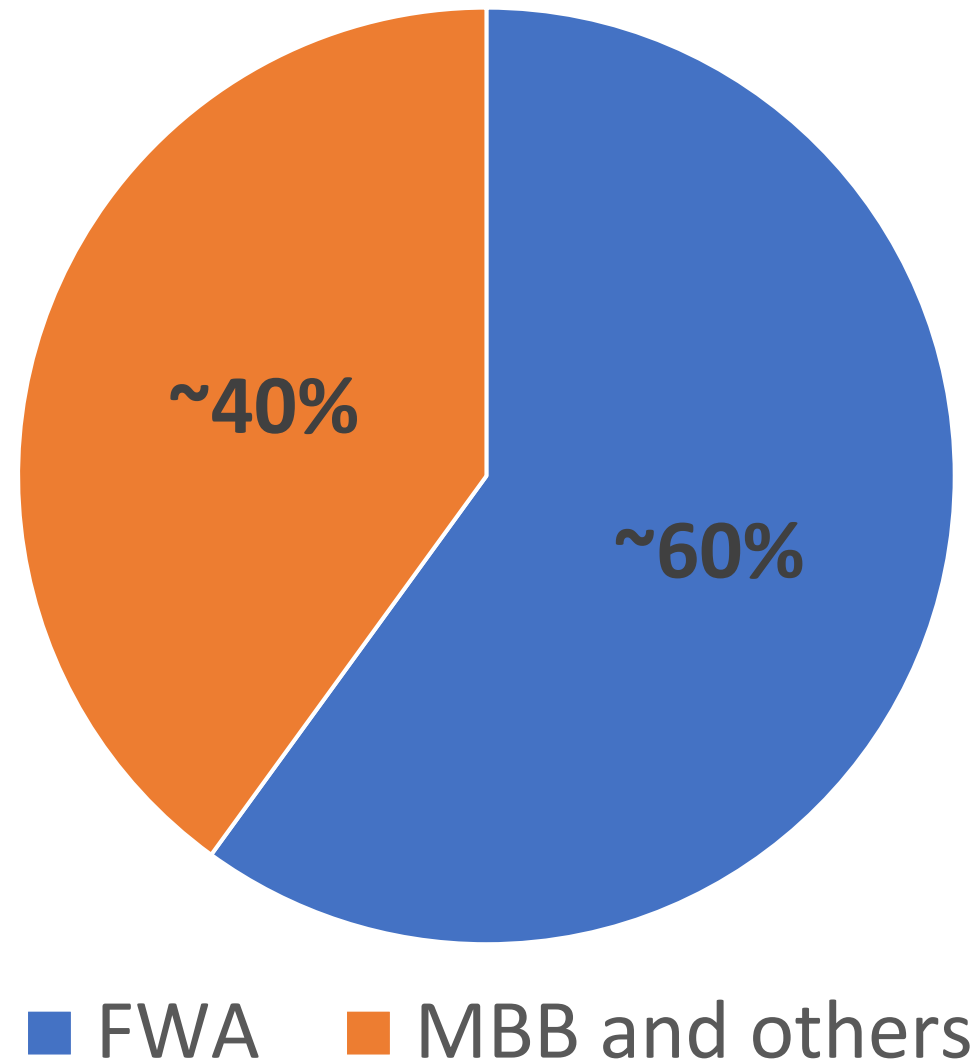
About RED Technologies

- At the forefront of dynamic spectrum sharing, RED Technologies is a trailblazing provider of cloud-native Spectrum Access System (SAS) solutions supporting CBRS (3.5 GHz) across the United States, and TV White Space (TVWS) services in North America.
- RED's SAS architecture enables secure, real-time coordination between incumbent users, Priority Access License (PAL) holders, and General Authorized Access (GAA) users — dynamically assigning spectrum based on priority and availability to unlock greater efficiency and flexibility in wireless deployments.
- Since its founding in 2012, RED Technologies has played a leading role in shaping CBRS regulatory and standardization frameworks, and today offers scalable, enterprise-grade solutions for diverse applications — from private networks and industrial use cases to fixed wireless access.

Ecosystem & Current Deployment numbers

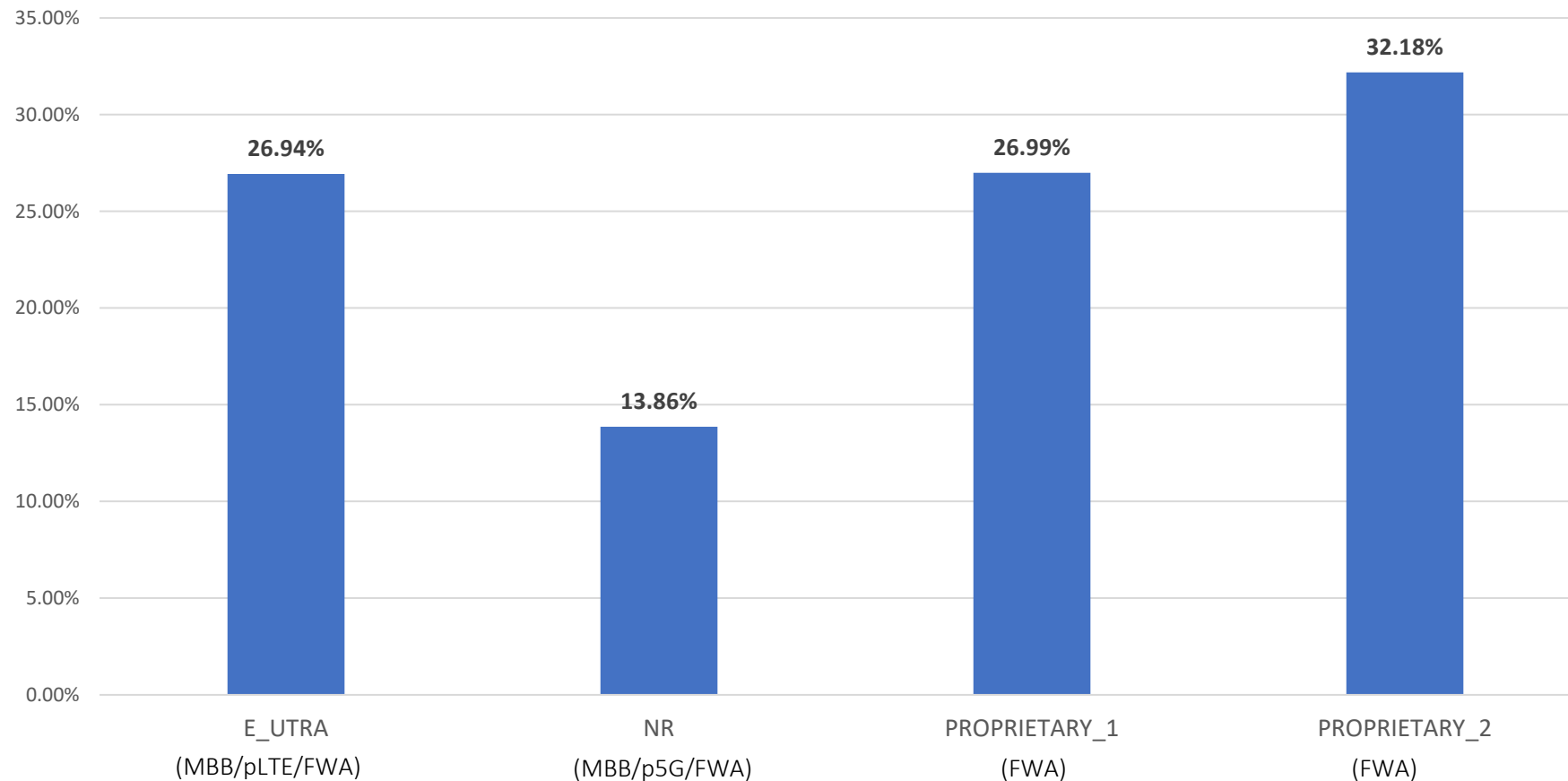
- Reference Full Activity Dump (FAD) is from the **30 September 2025**
- Total number of CBSDs: **423,016**
- Total number of grants: **1,264,983**
- Total number of PALs: **20,134**
- Total number of PPAs: **10,832**
- Total number of PAL leases: **145**
- Total **EUDs** FCC authorizations: **1141**
- Total **CBSDs** FCC authorizations (Base Stations and CPEs): **323**
- Number of CBSD models currently in use in the band: **156** (out of the 323 authorized)

CBSD breakdown - by Market

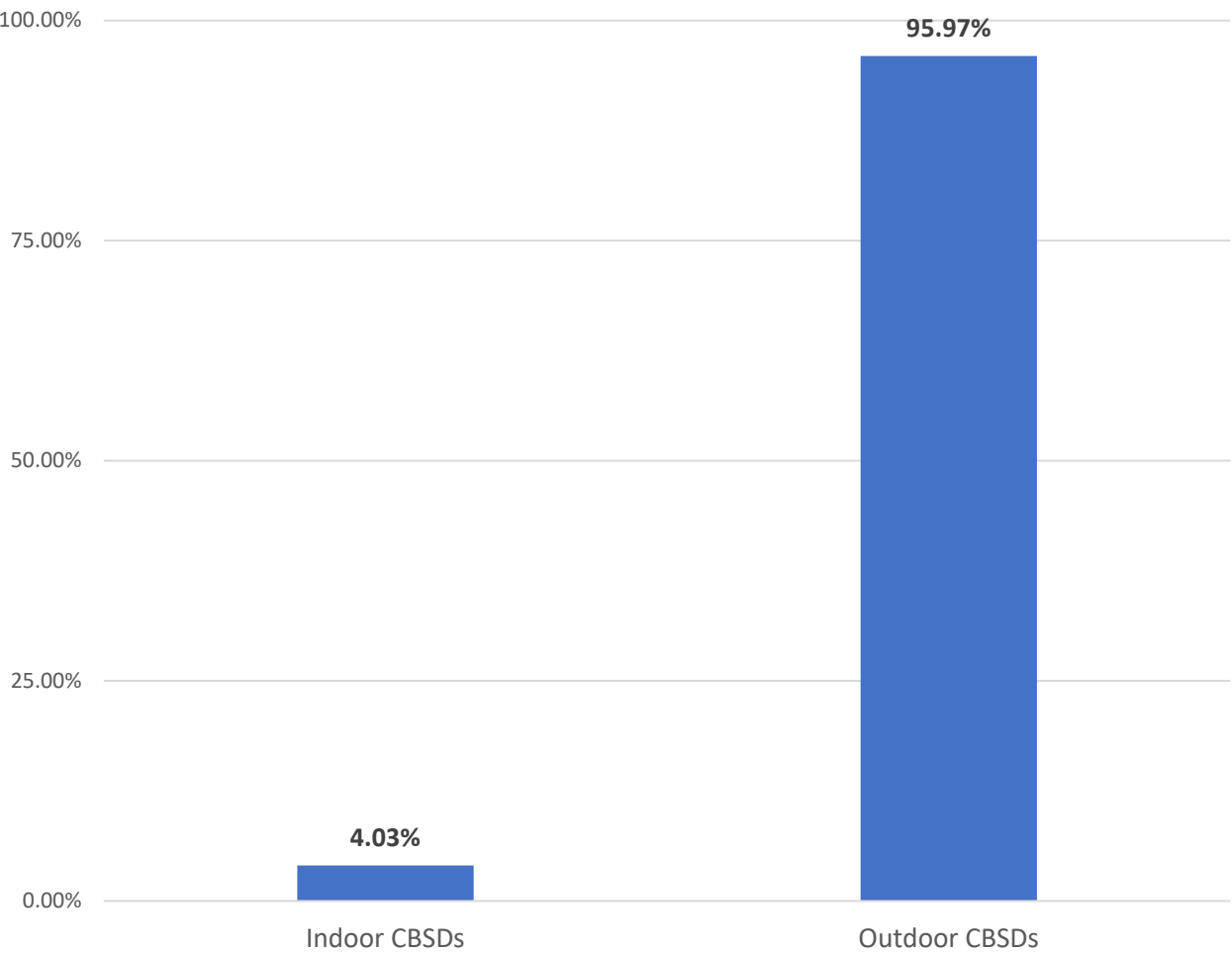


CBSD breakdown - by Air Interfaces

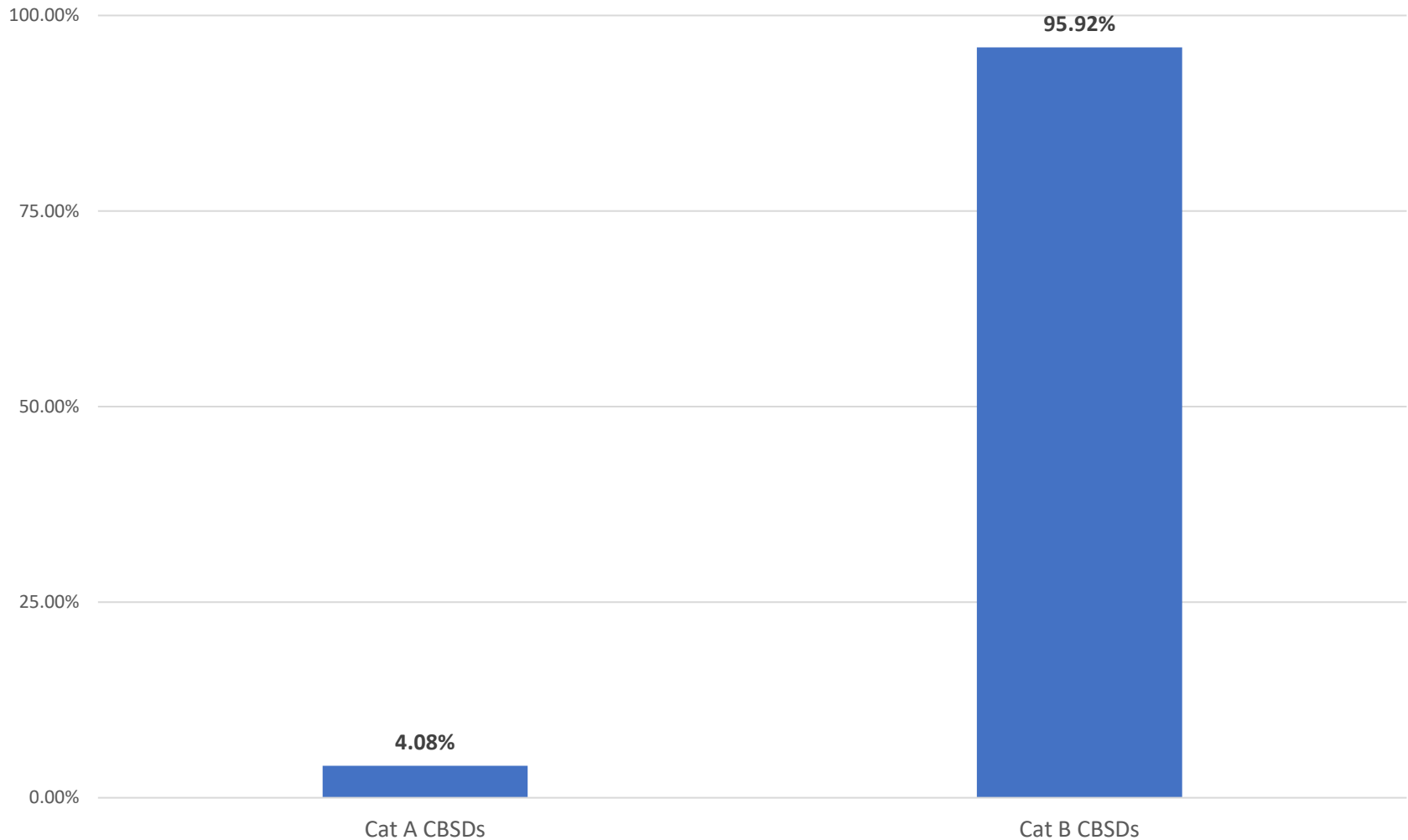
- Largest share of in-use air interfaces: **3GPP (E_UTRA + NR)**
- Defined CBRS air interfaces in WINNF standards: **9**
- In-use air interfaces: **5**



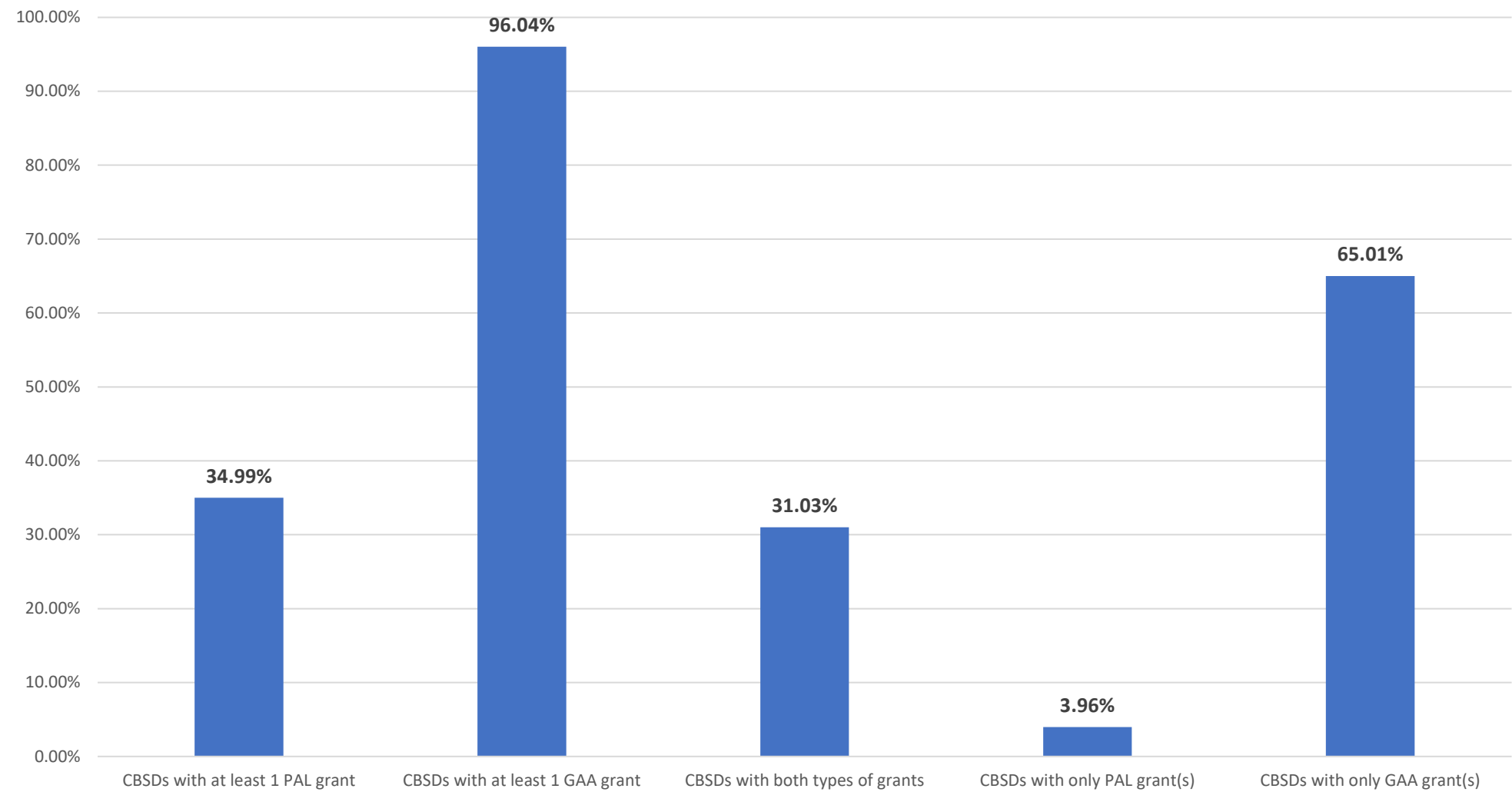
CBSD breakdown - Indoor vs. Outdoor



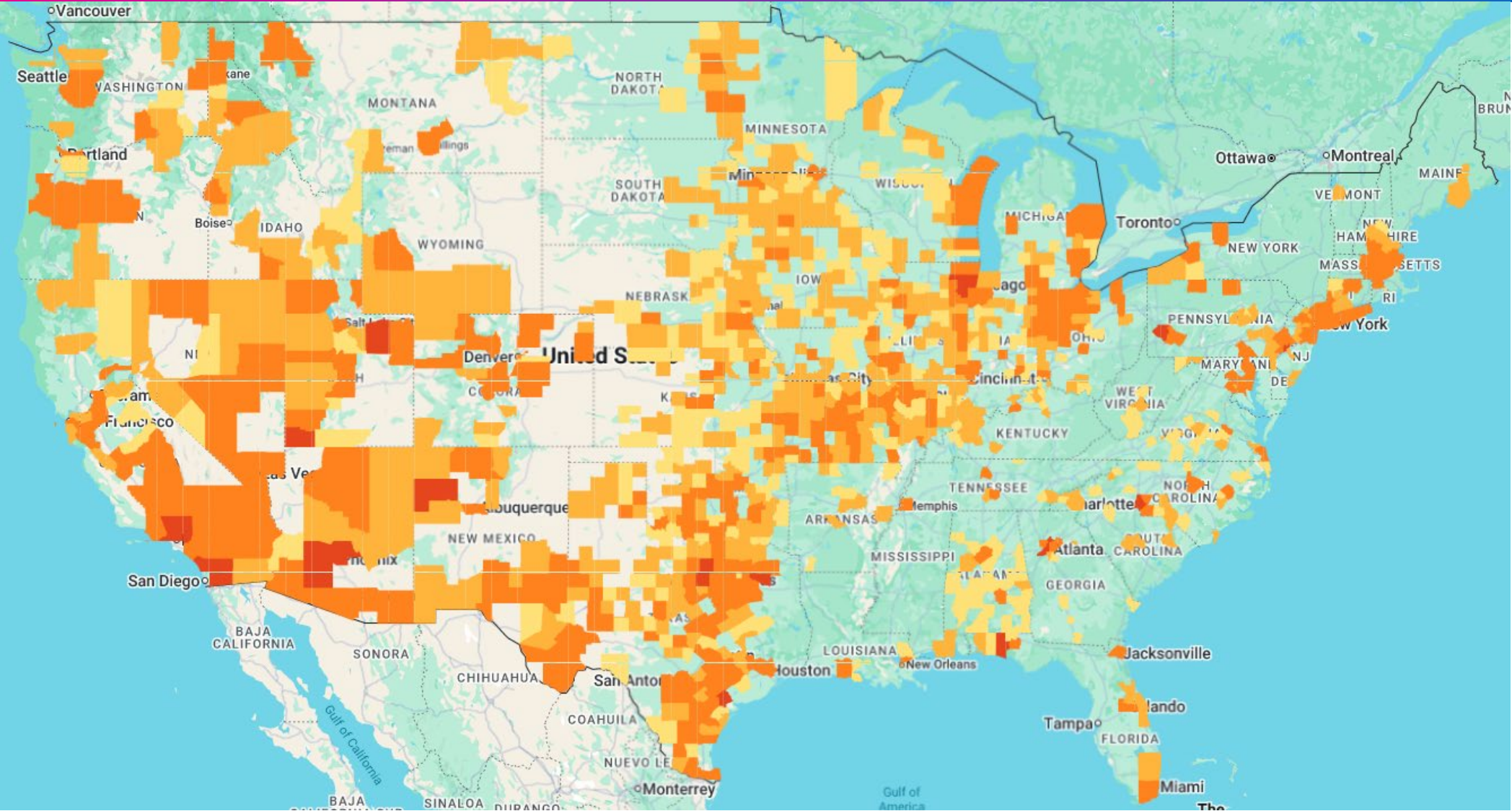
CBSD breakdown - by Category



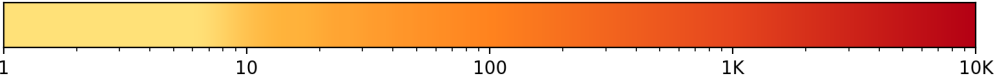
GAA-only, PAL-only, GAA+PAL granted CBSDs



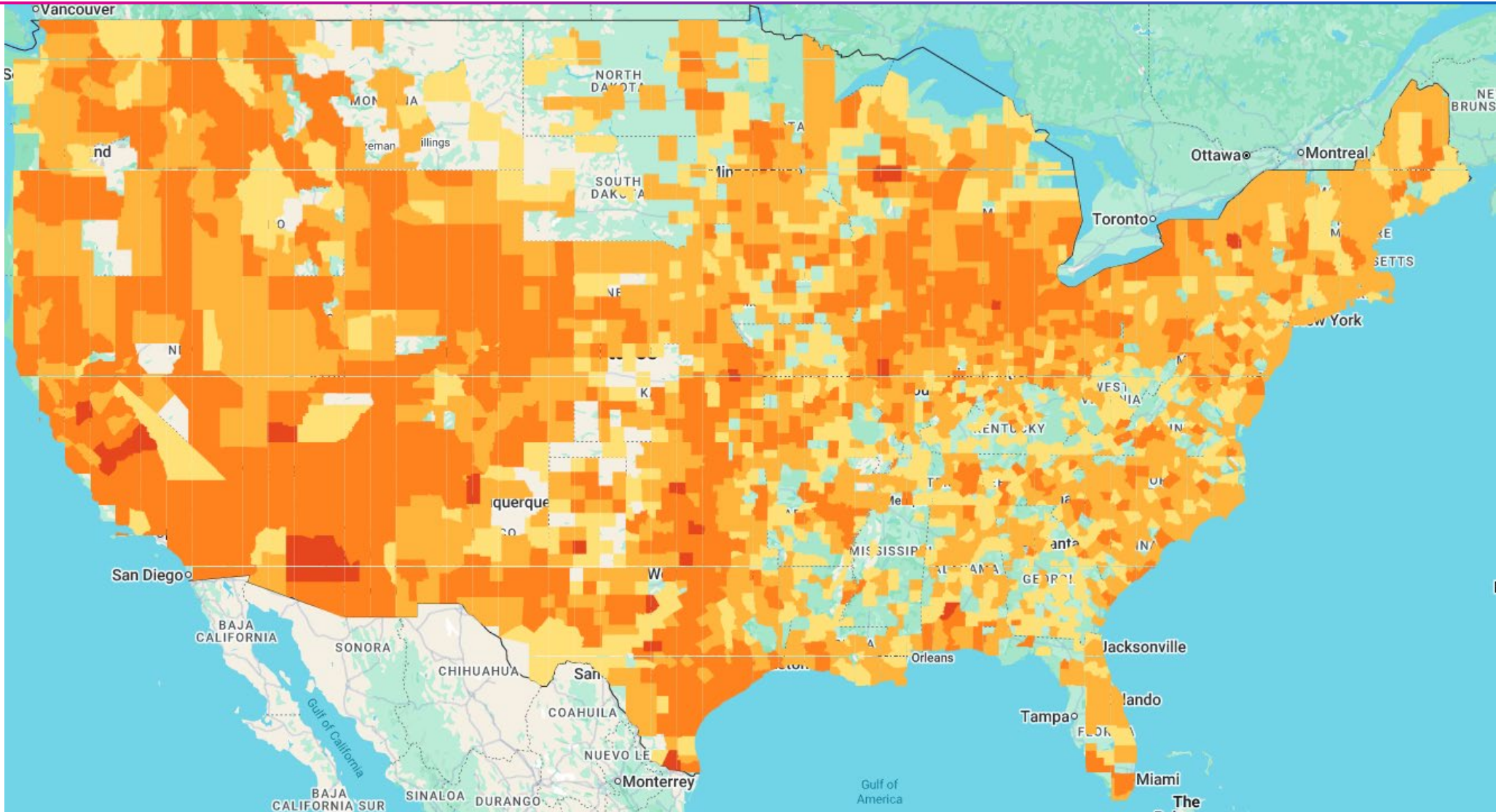
CBSD deployments – CBSDs having at least one PAL grant - per county



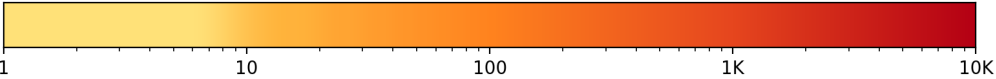
CBS Spectrum: Number of CBSDs



CBSD deployments – GAA-only CBSDs - per county

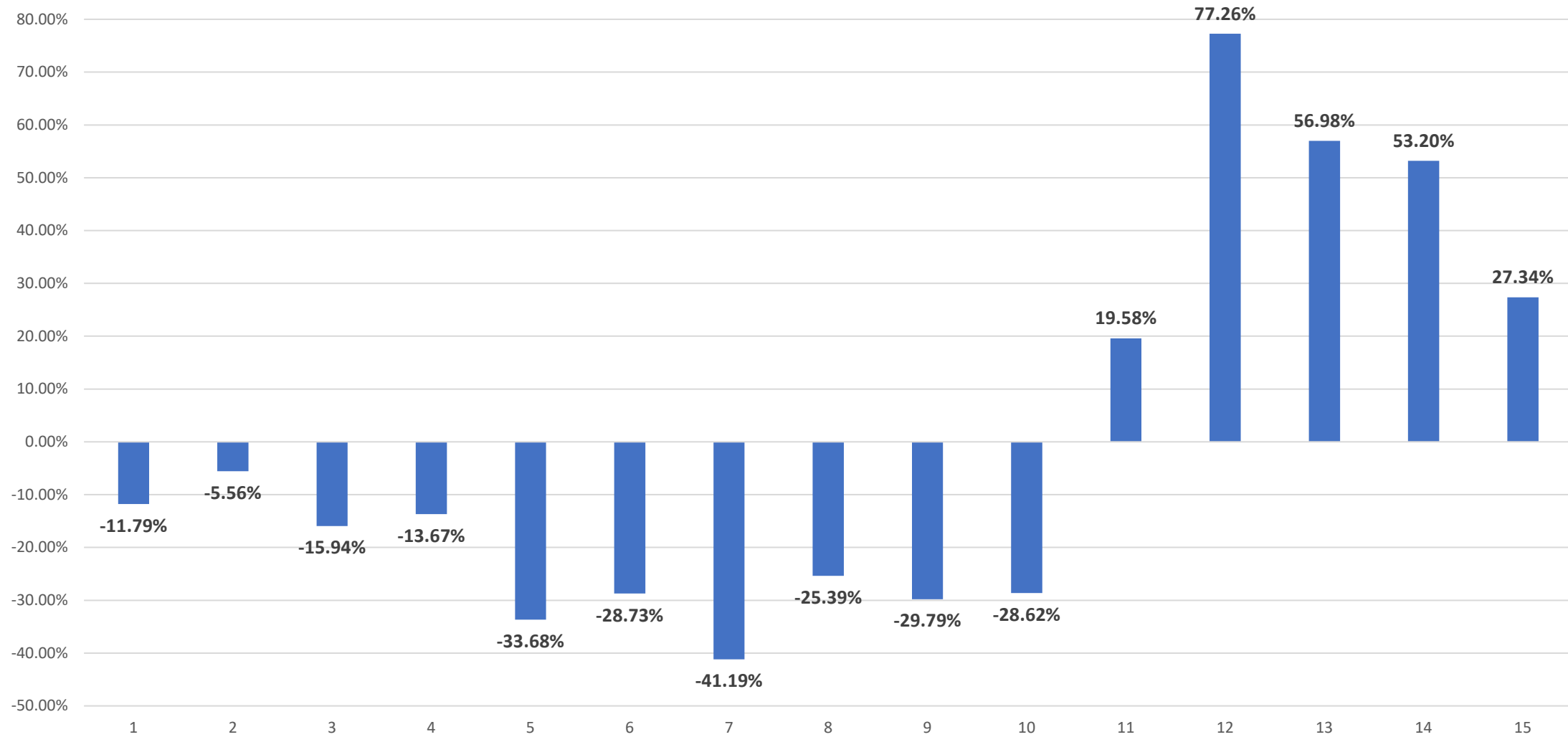


CBRS Spectrum: Number of CBSDs



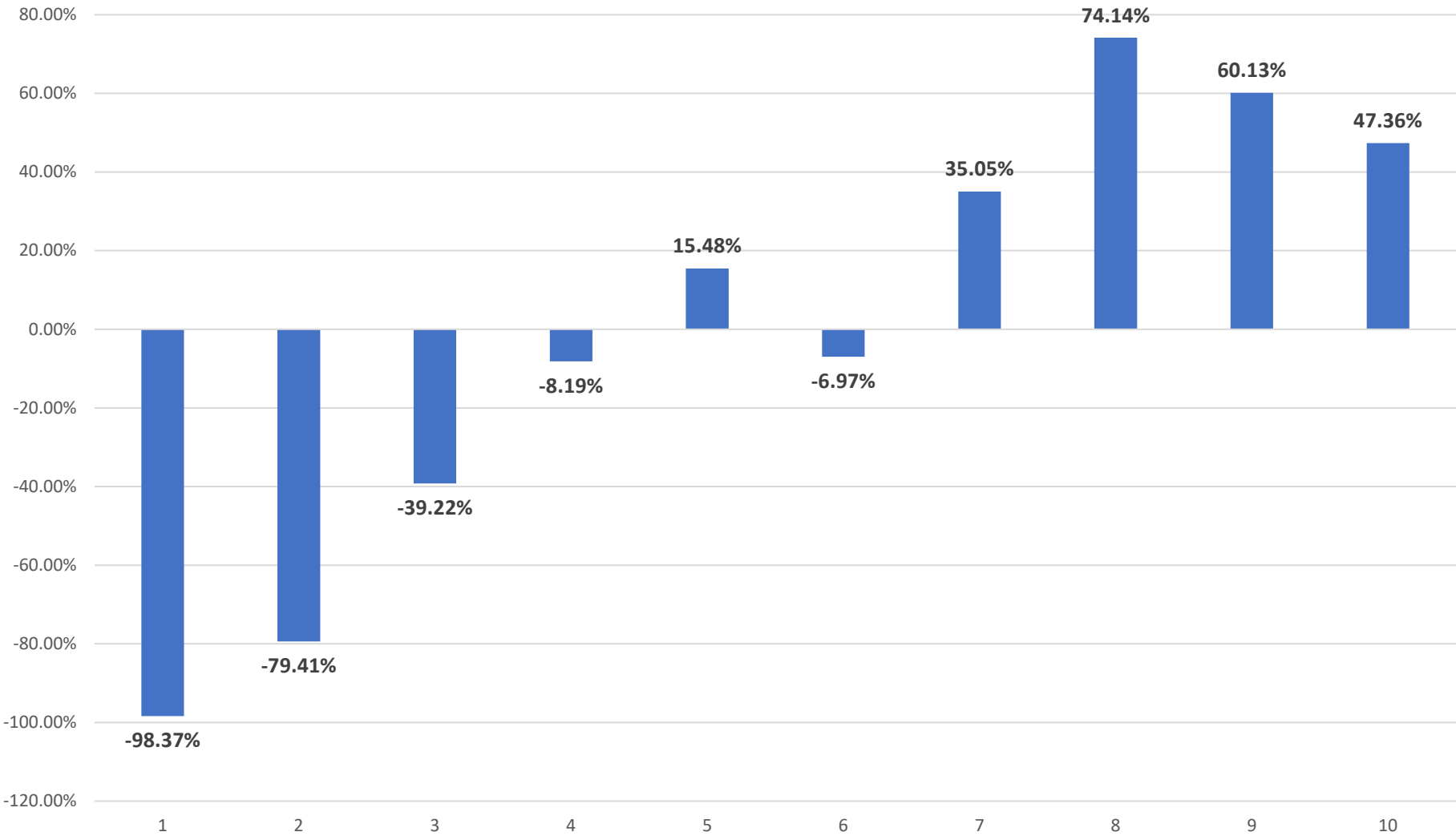
GAA Grant breakdown across Channels 1 to 15

Compared to average – average GAA grants per channel: 120,955

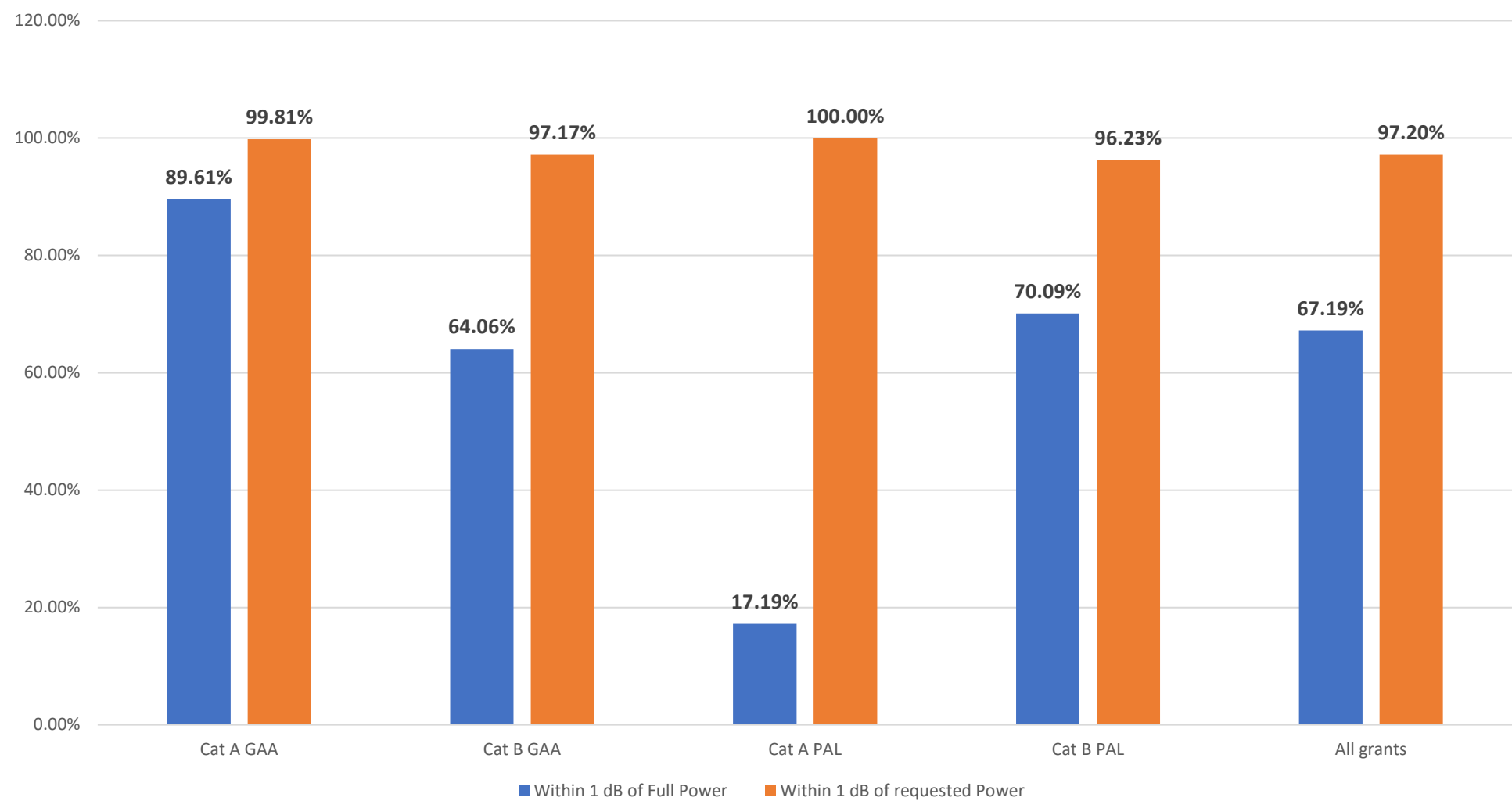


PAL Grant breakdown across Channels 1 to 10

Compared to average – average GAA grants per channel: 39,490

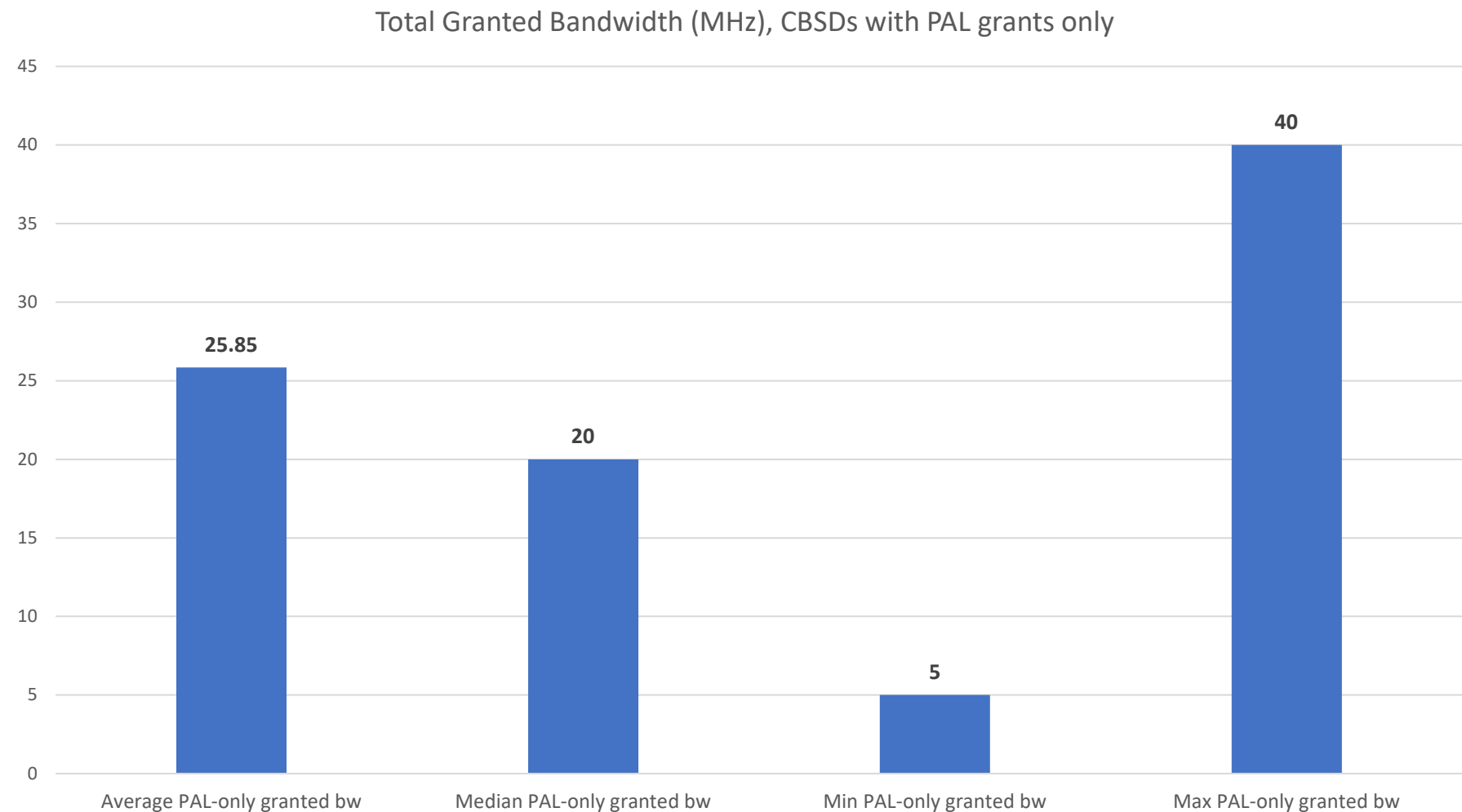


Grants that are within 1 dB of Full Power and Requested Power



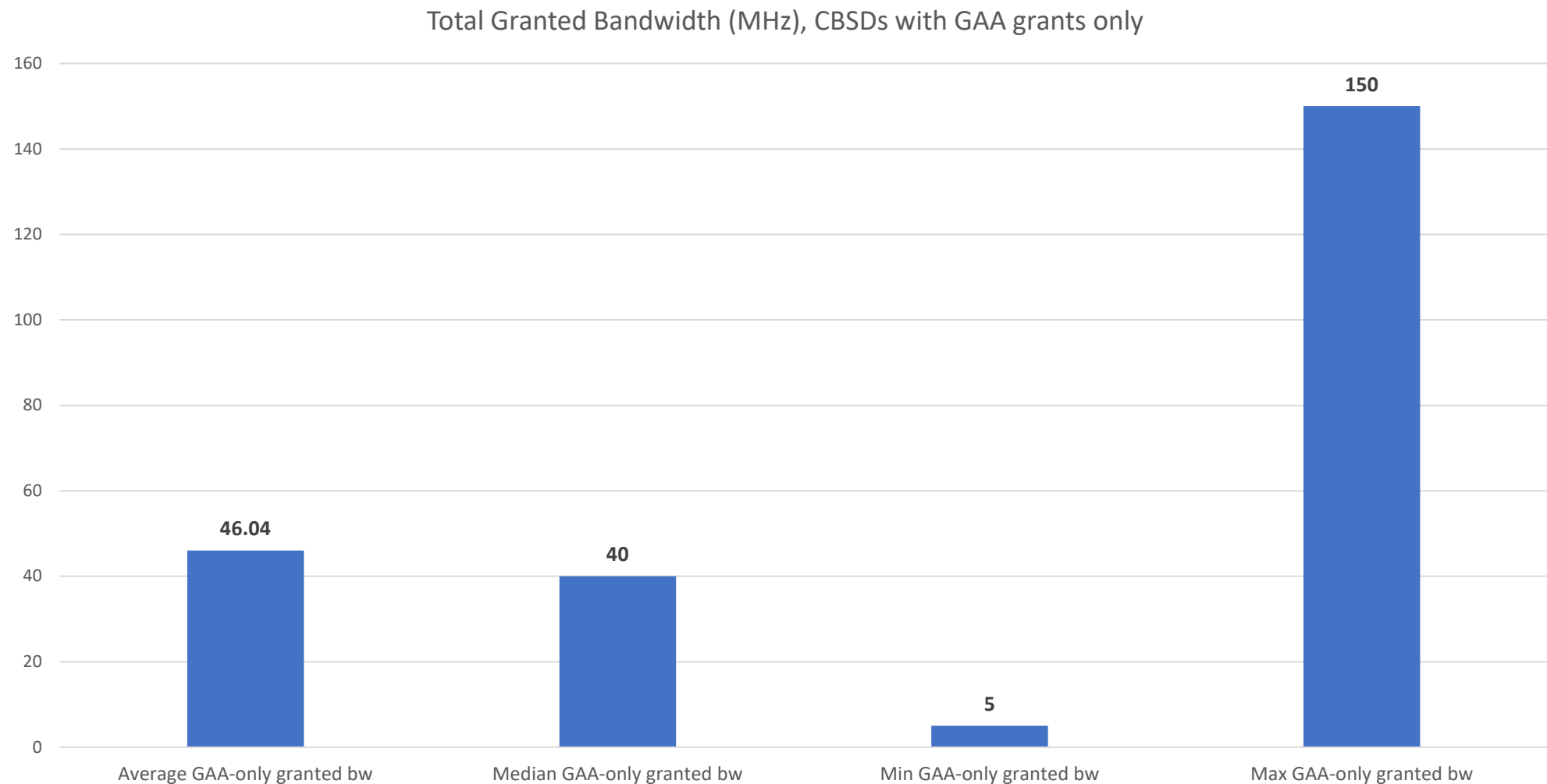
Total granted bandwidth for PAL-only CBSDs

PAL-only CBSDs account for **3.96%** of the total number of CBSDs



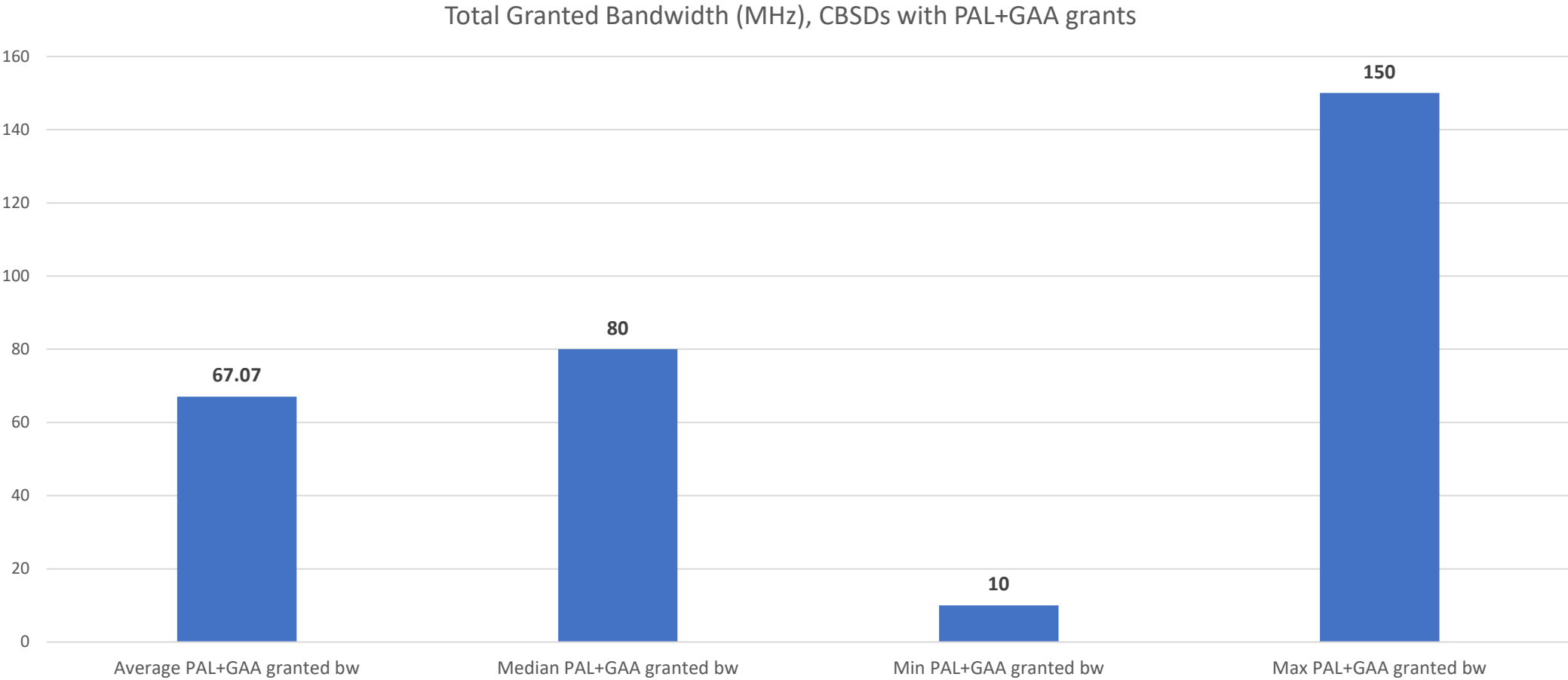
Total granted bandwidth for GAA-only CBSDs

GAA-only CBSDs account for **65.01%** of the total number of CBSDs

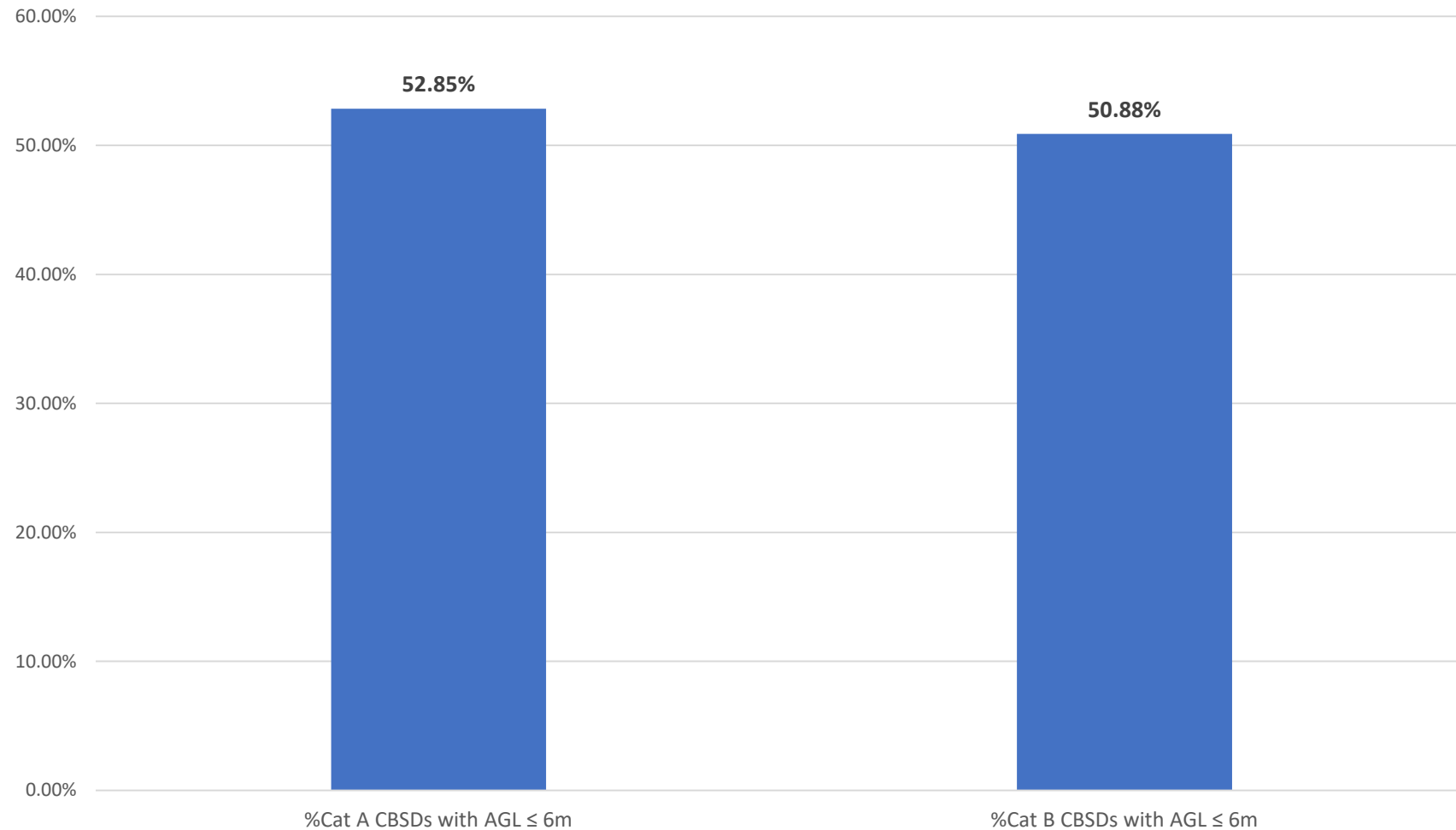


Total granted bandwidth for PAL+GAA CBSDs

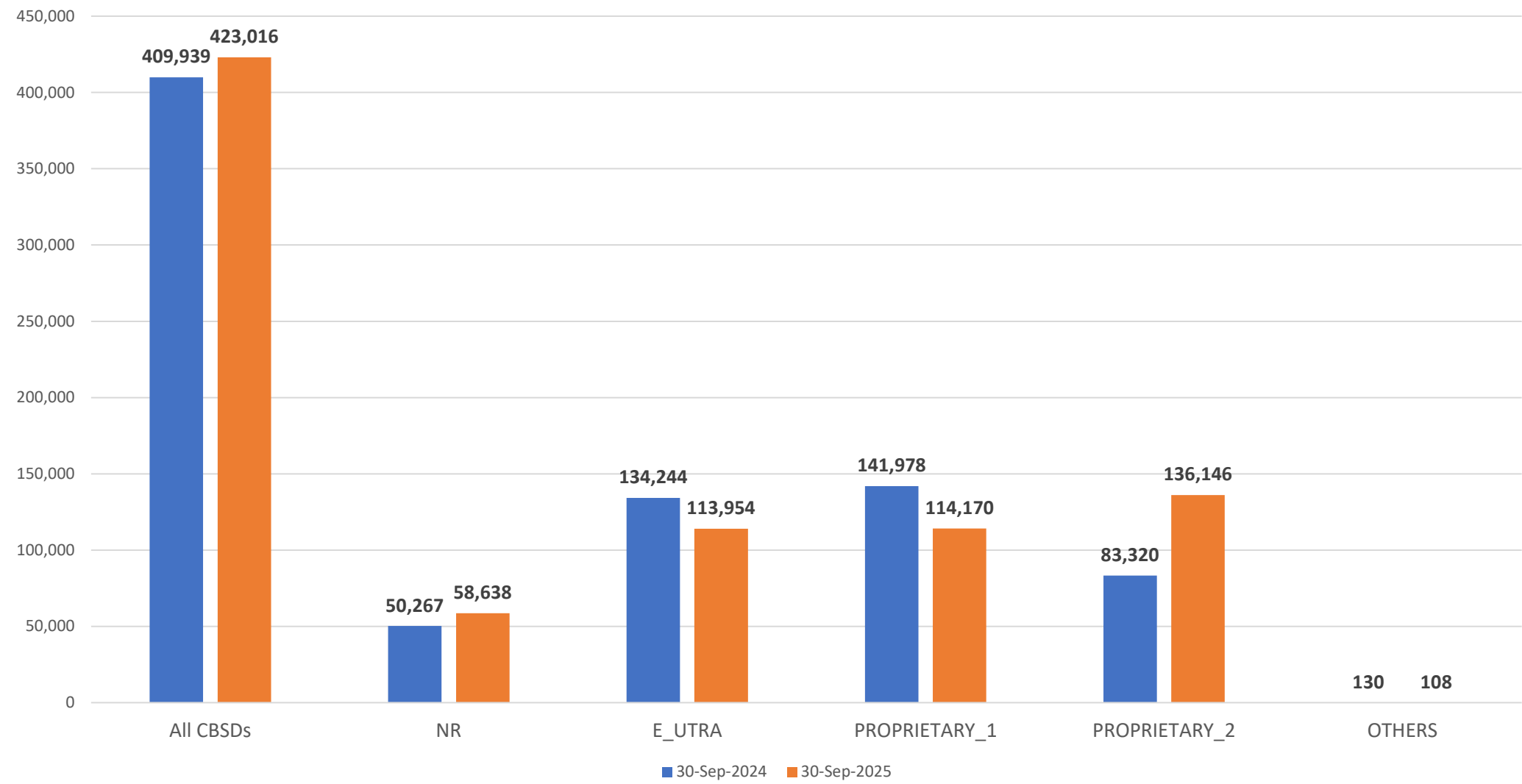
PAL+GAA CBSDs account for **31.03%** of the total number of CBSDs



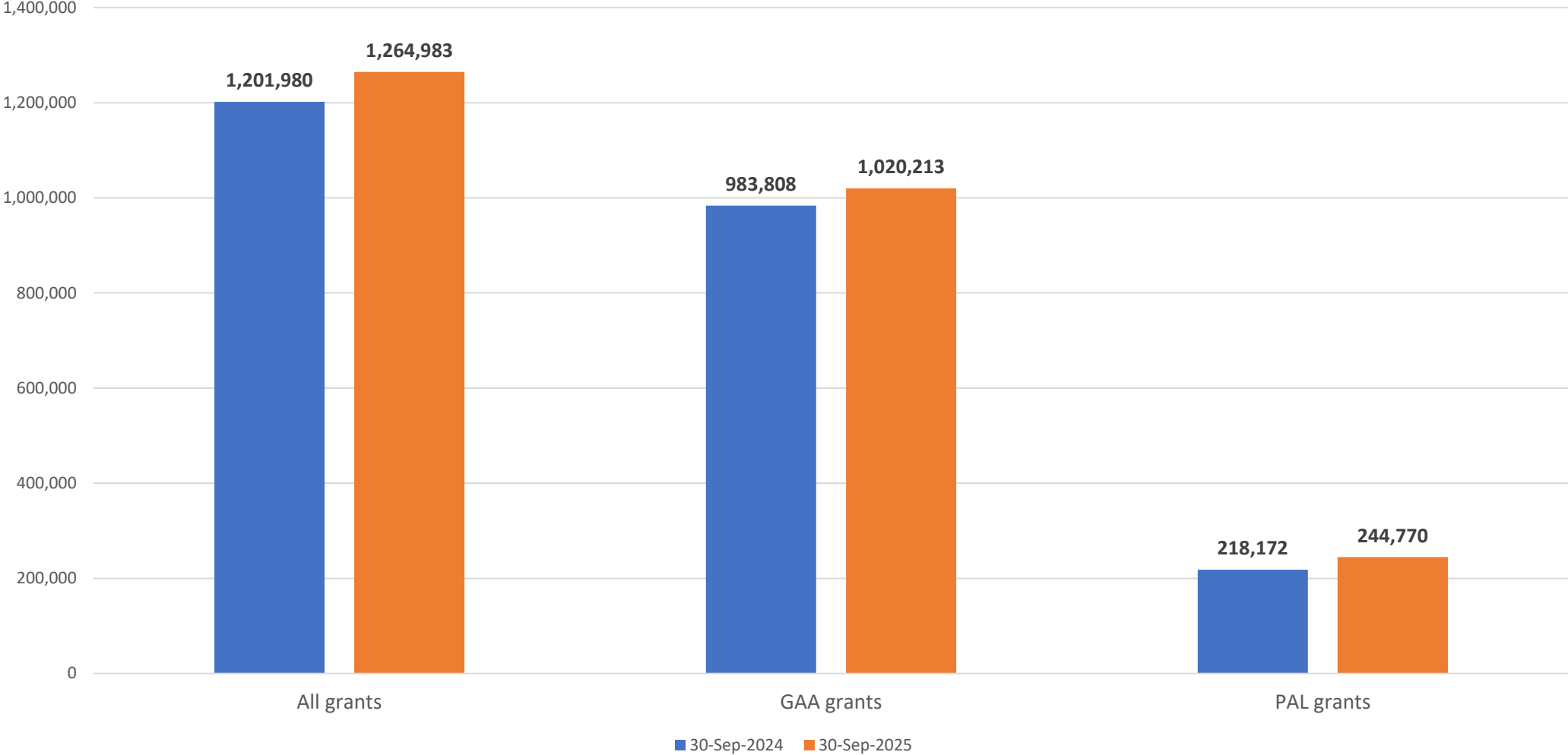
CBSD Antenna Height Above Ground Level (meters) – breakdown by Category



YOY Growth in the number of CBSDs



YOY Growth in the number of Grants





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Grant breakdown across all CBSDs, by CBSD type, by CBSD Category

