

Welcome

**2017 InfoComm AV Networking
World**

Time to reflect

- 30 years in professional audio

Adventures in audio networking

- 1998 - Our first audio networked project
- 1998 - Did we invent networked intercom?
- 1999 - Created the first networked self powered loudspeaker
- 2008 - Our first Dante project - largest at the time 148 channels
- 2009 - First hybrid Cobranet AND Dante network
- 2012 - Started researching industry networked audio use
- 2012 - First questions AVB's used in ProAV market
- 2015 - Started independent AES67 tests
- 2016 - Our first fully AES67 installation
- 2017 - Our first fully integrated voice alarm and IT network











Installation



ProAudioEast^{Middle}

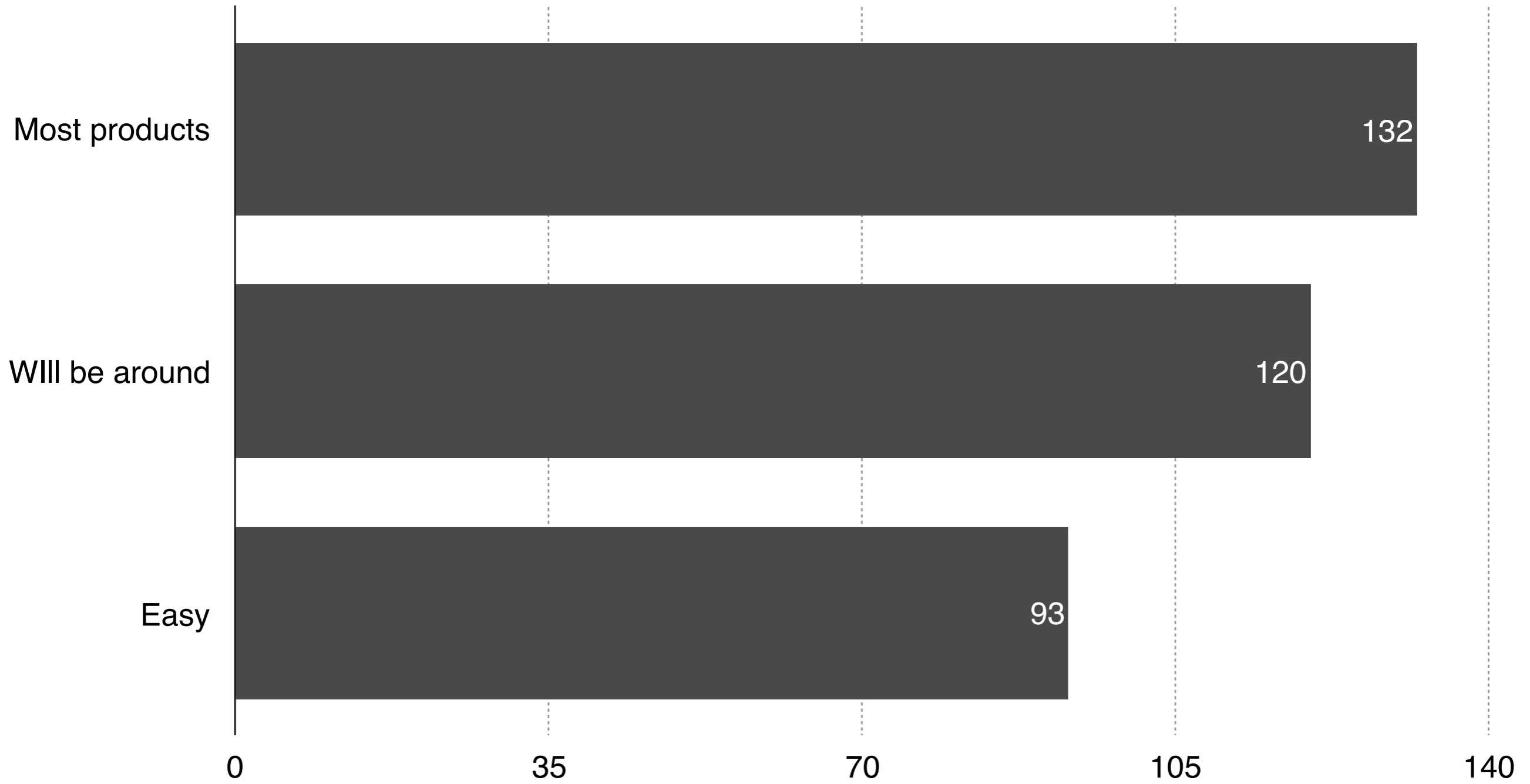
ProAudioAsia

Pro Tools Expert

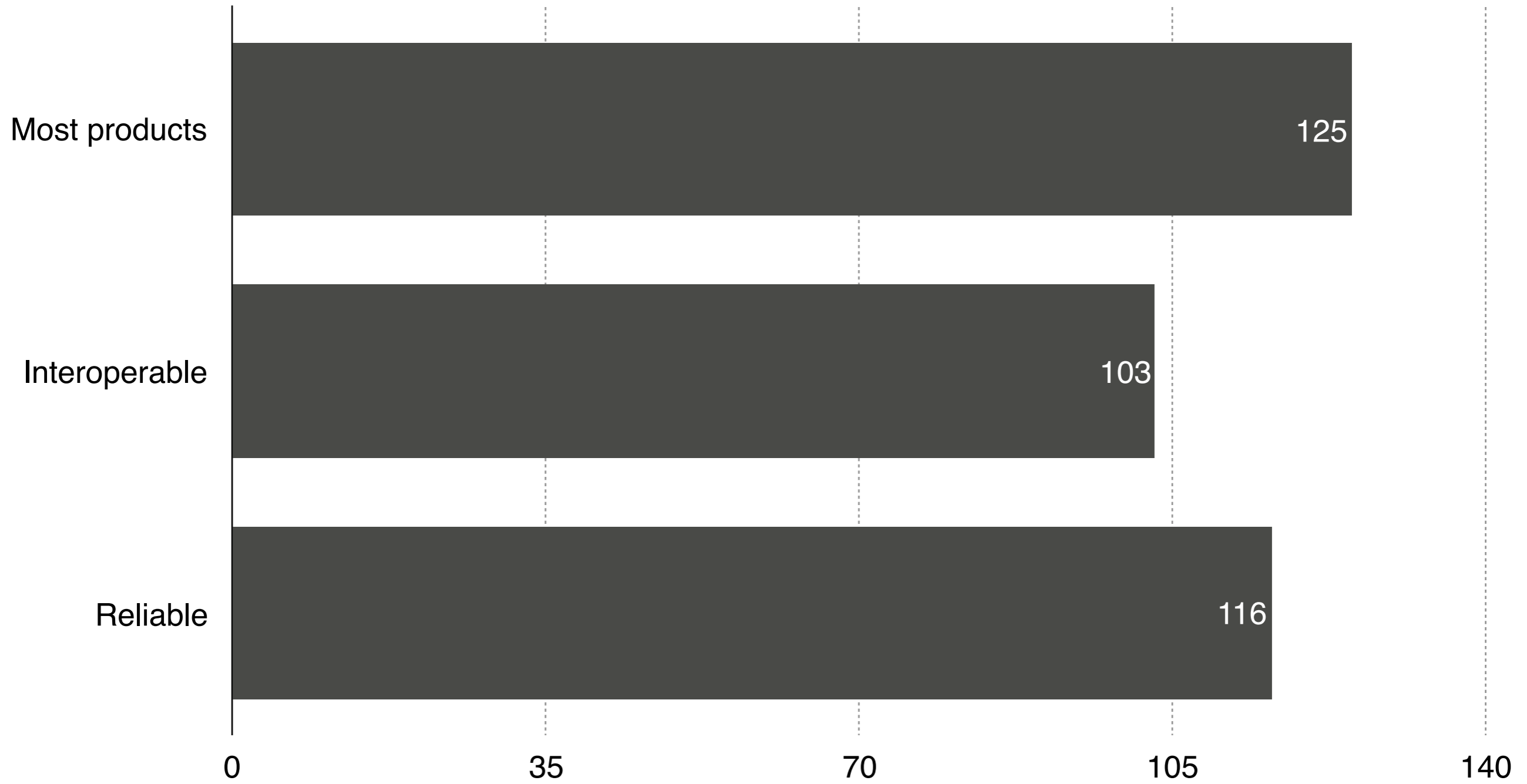
82% had done at least one
networked project

Audio networking use

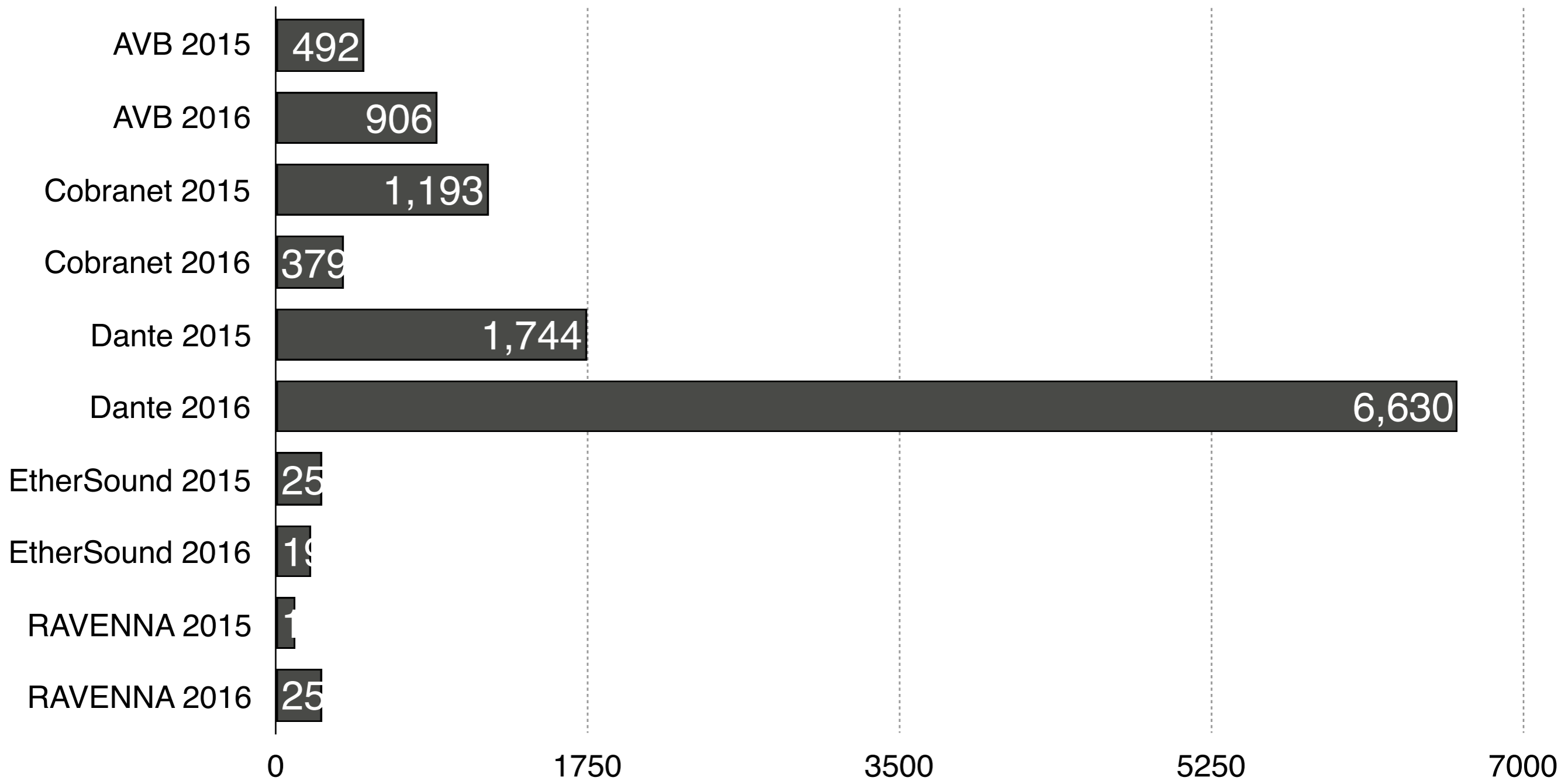
Reasons for most used protocol?



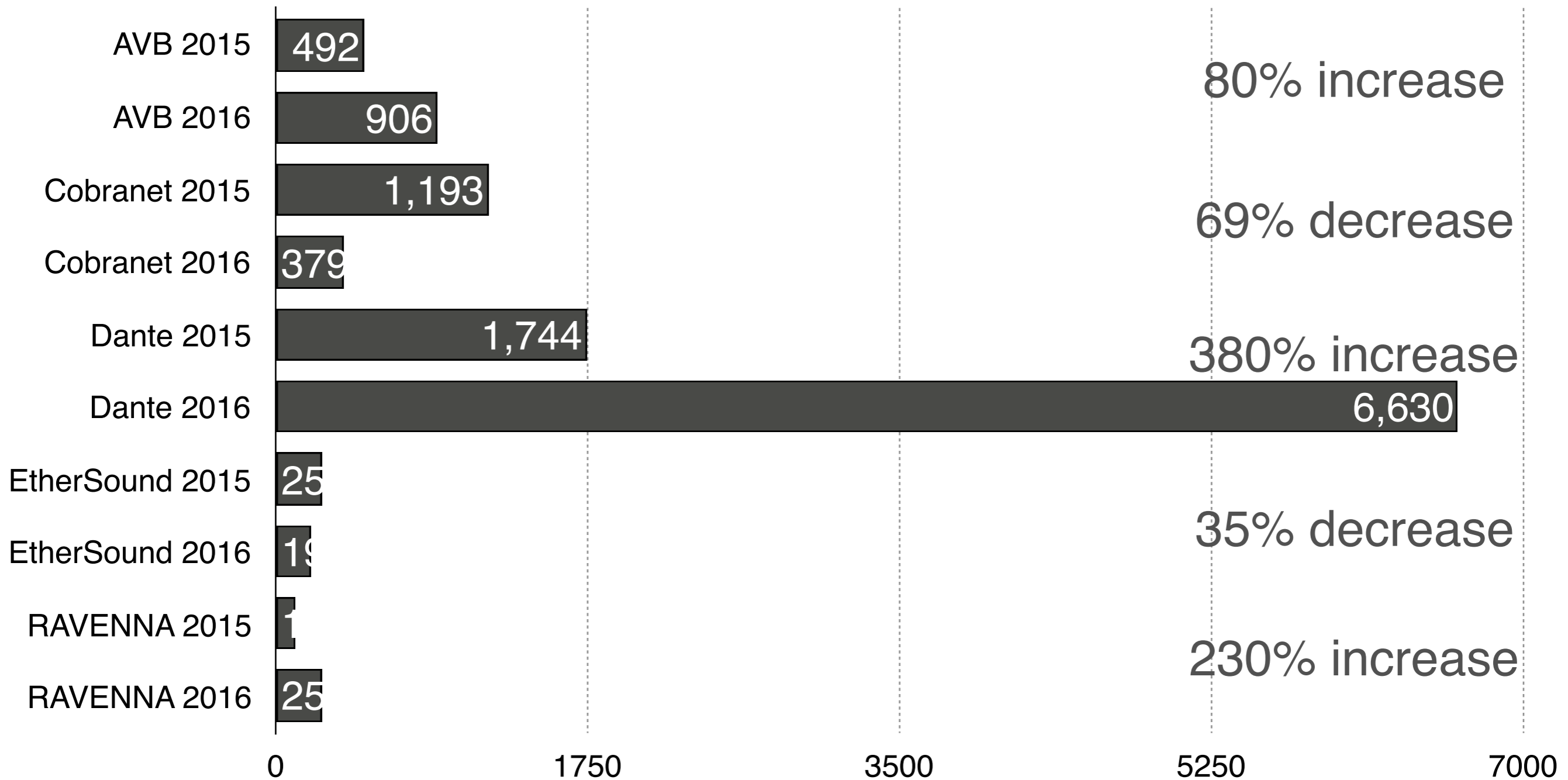
Reasons for change to new protocol?



How many projects using each protocol?



How many projects using each protocol?

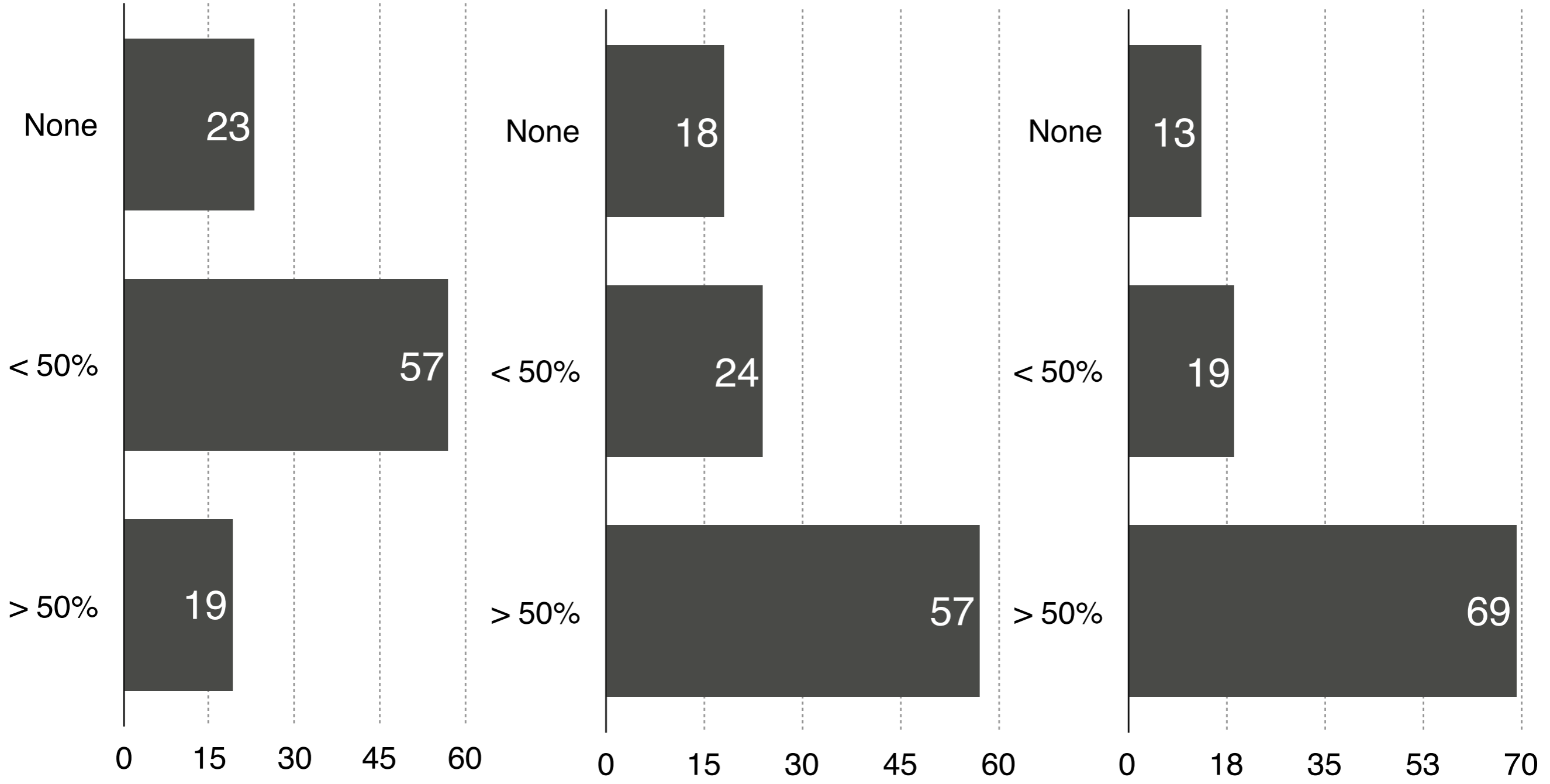


More networked projects

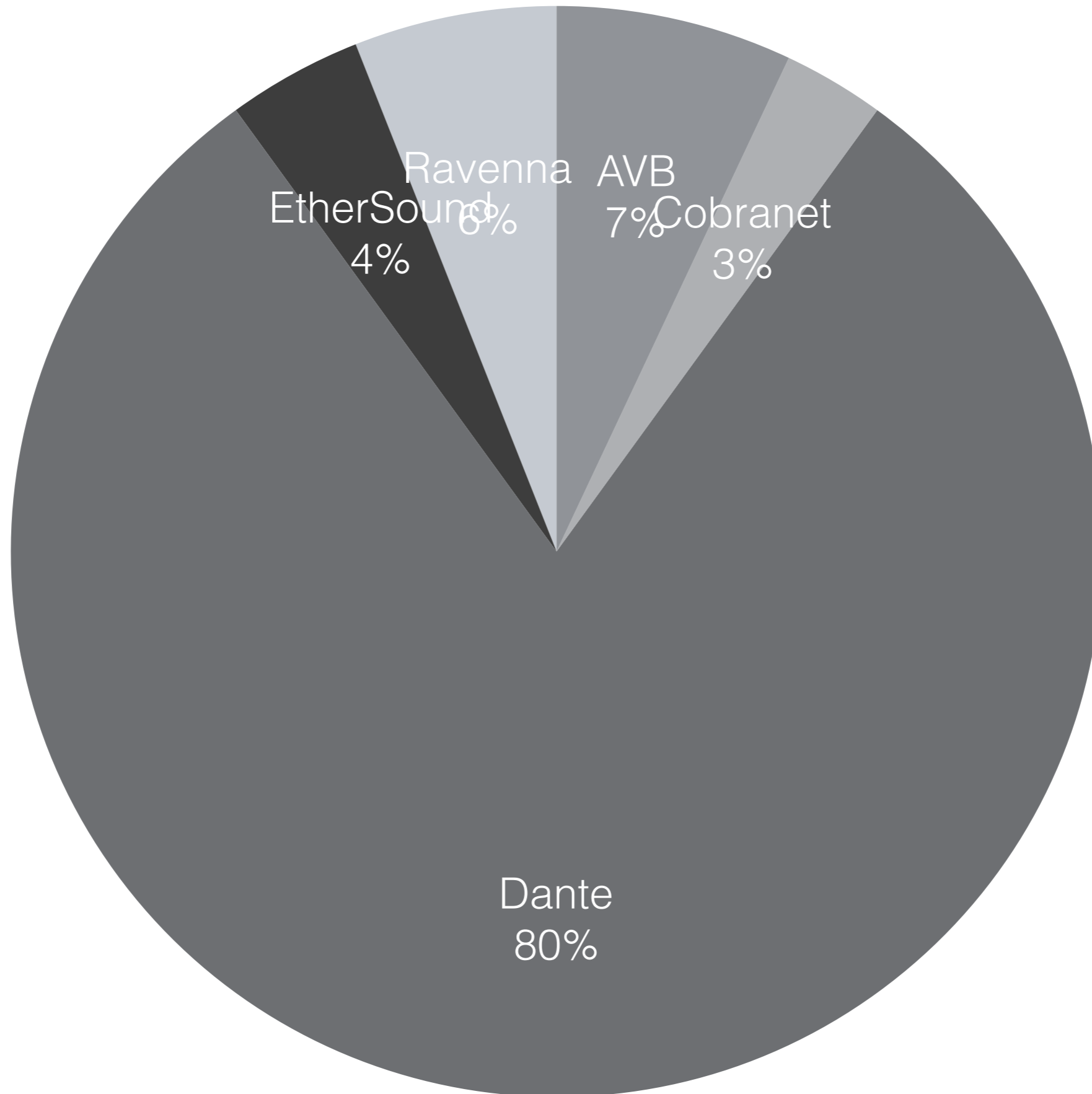
■ 2014

■ 2015

■ 2016



What protocol would non-networkers use?



AVB
Product availability, switches, support

CobraNet[®]
Old, latency

 Dante[™]
Proprietary



Not needed, not supported, limited support

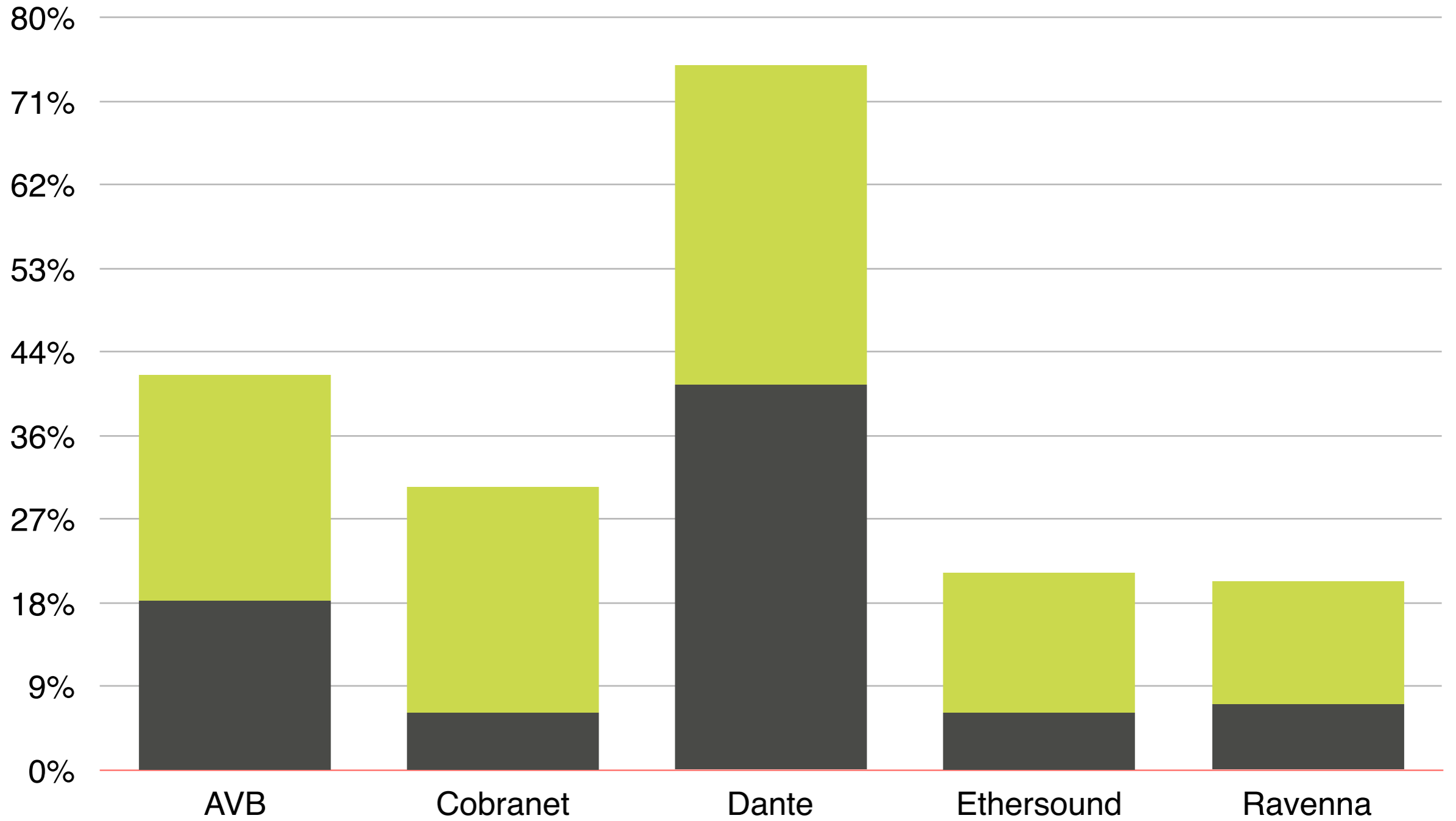


Don't know it, broadcast only

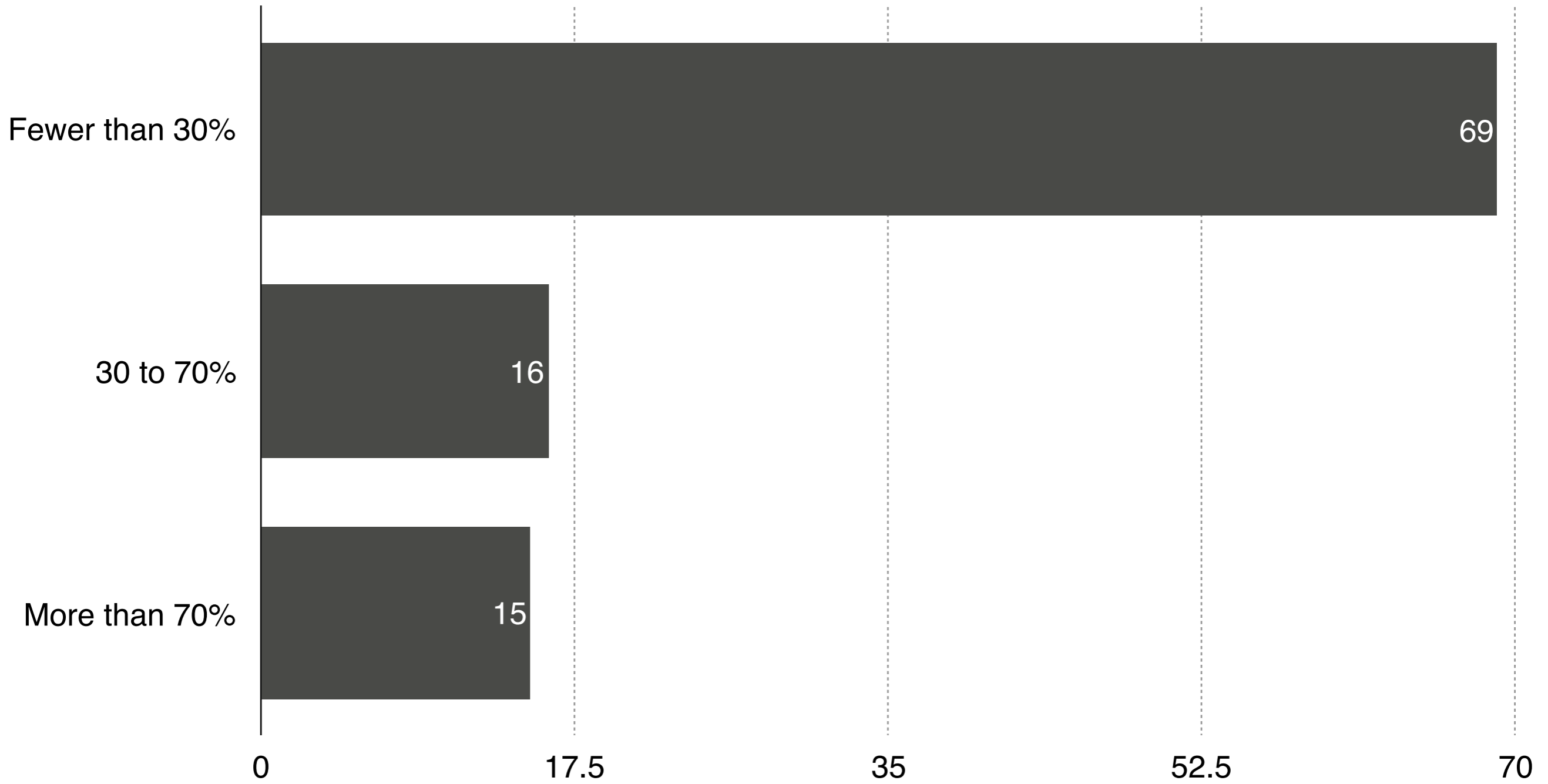
Easy to use

■ Easy

■ Very Easy



How many projects combine with IT network?



(40% have never combined with IT)

Full IT convergent system

- 20 equipment locations
- 6 PCs with controllers and touch screens
- 3 brands of amplifier to monitor
- Full MNS (voice alarm) compliance
- Full integration with IT network
- Q-Lan and Dante streams and a RAVENNA node

A safe investment

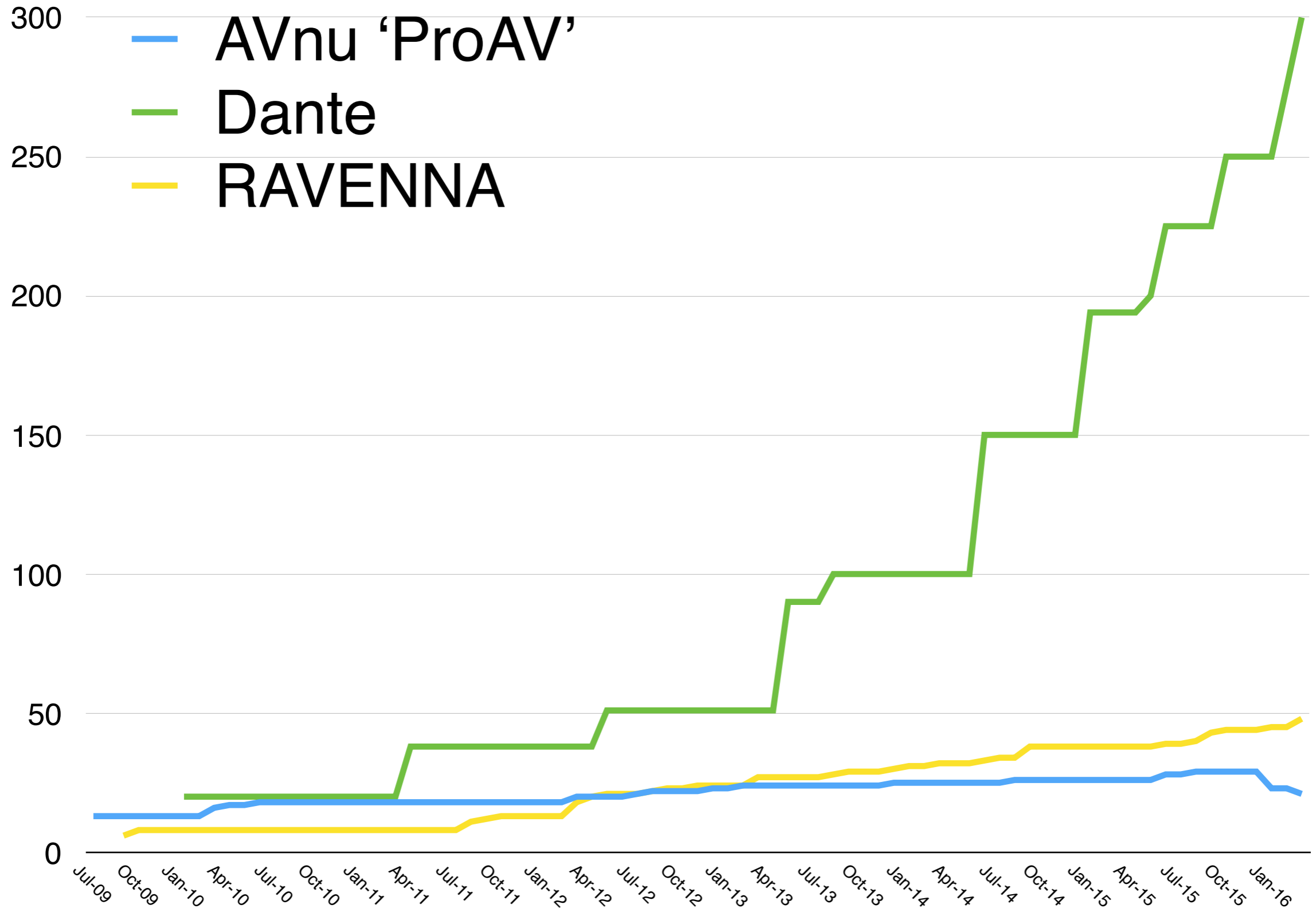
- 9 year old Dante amplifiers
- Works with brand new 2017 Dante gear

Discuss

- All suppliers must commit to the AES67 firmware upgrade within 12 months

And the numbers are ...

Protocol licensees



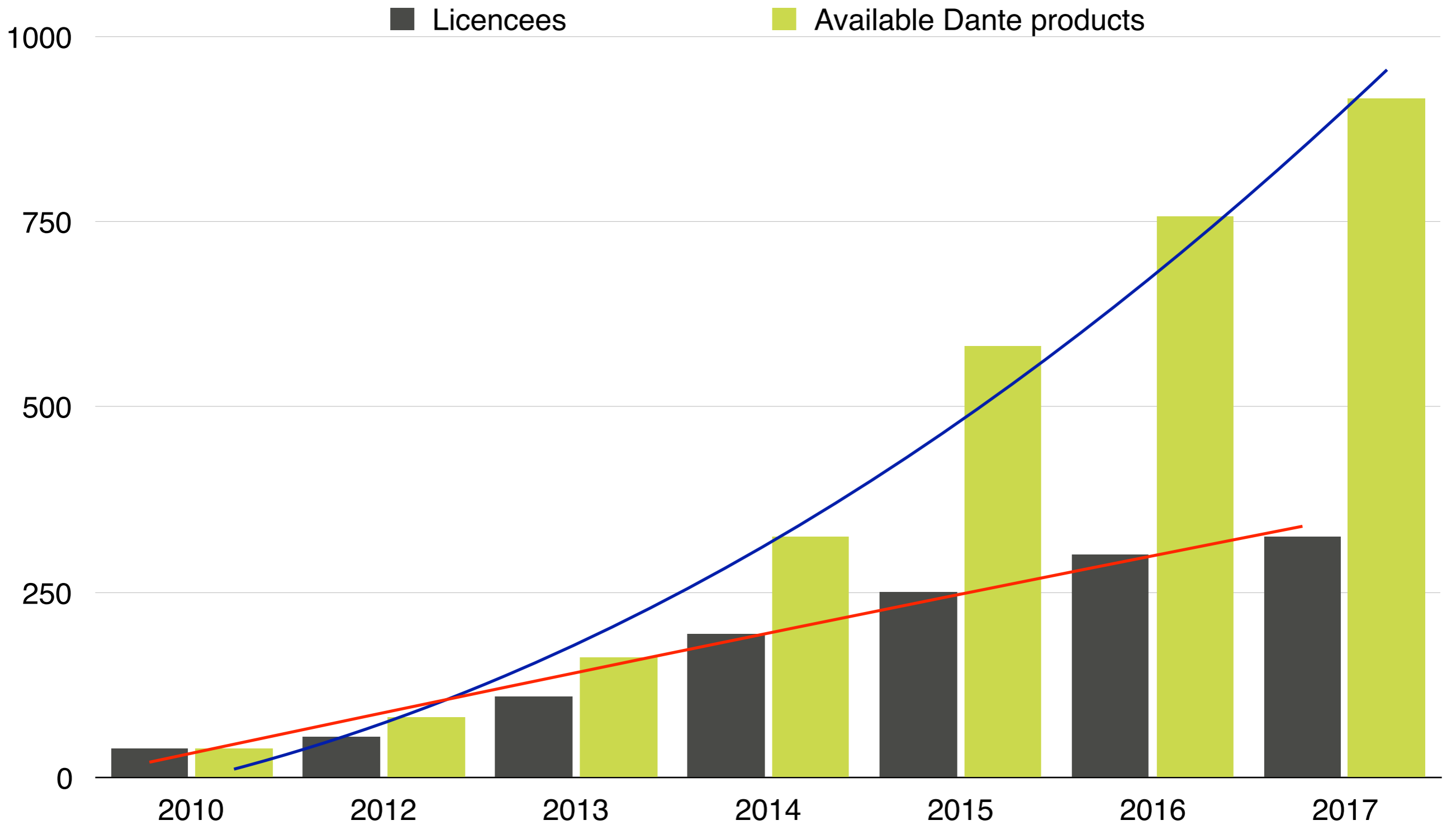
The beer bet

- Available Dante products Jan 2015 - 296
- RHC Estimate for Jan 2017 - 758

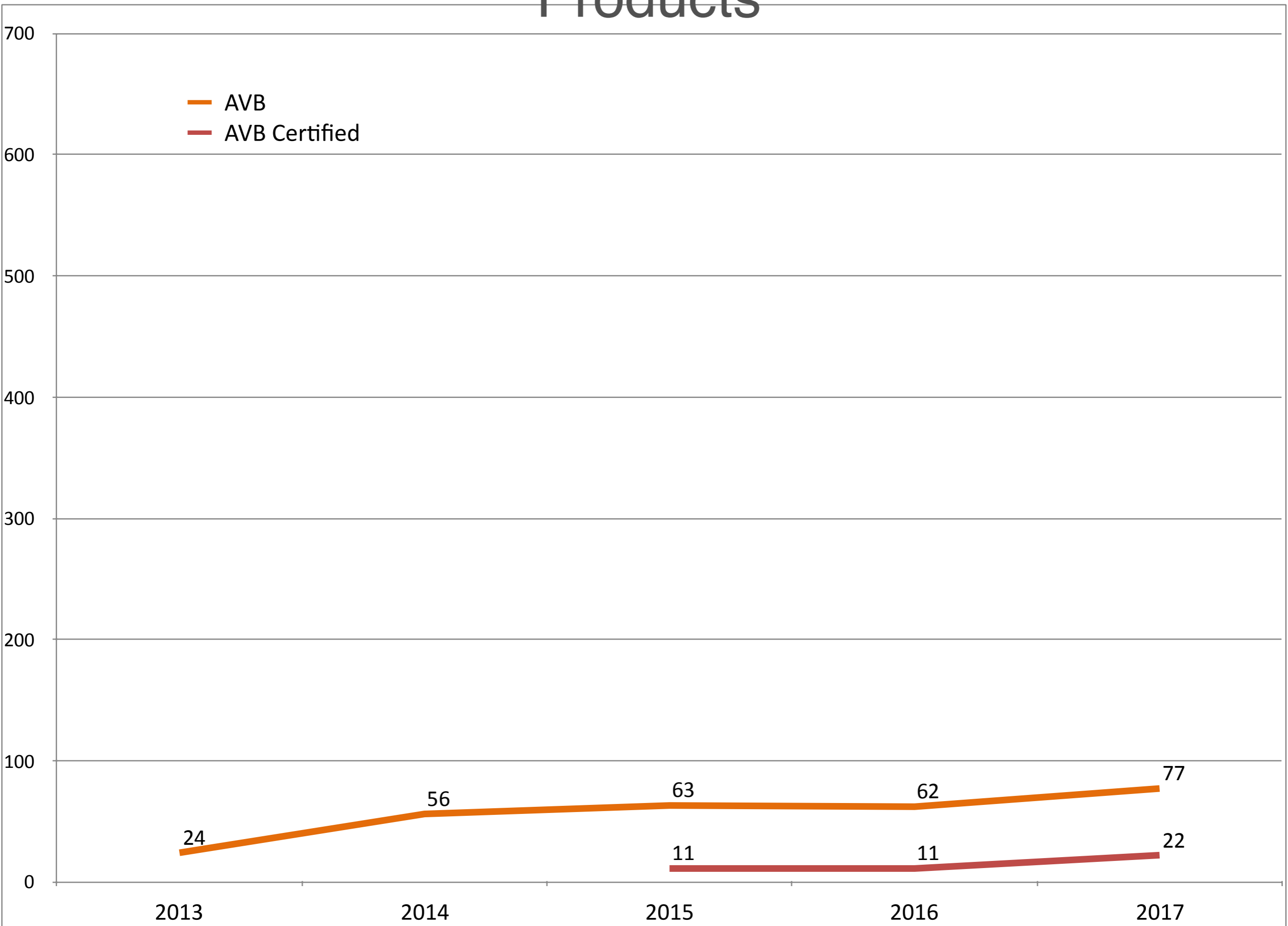
The beer bet

- Available Dante products Jan 2015 - 296
- RHC Estimate for Jan 2017 - 758
- Available Dante products Jan 2017 - 793
- Available Dante products Jan 2017 - 916
- All Dante products February 2017 - 993

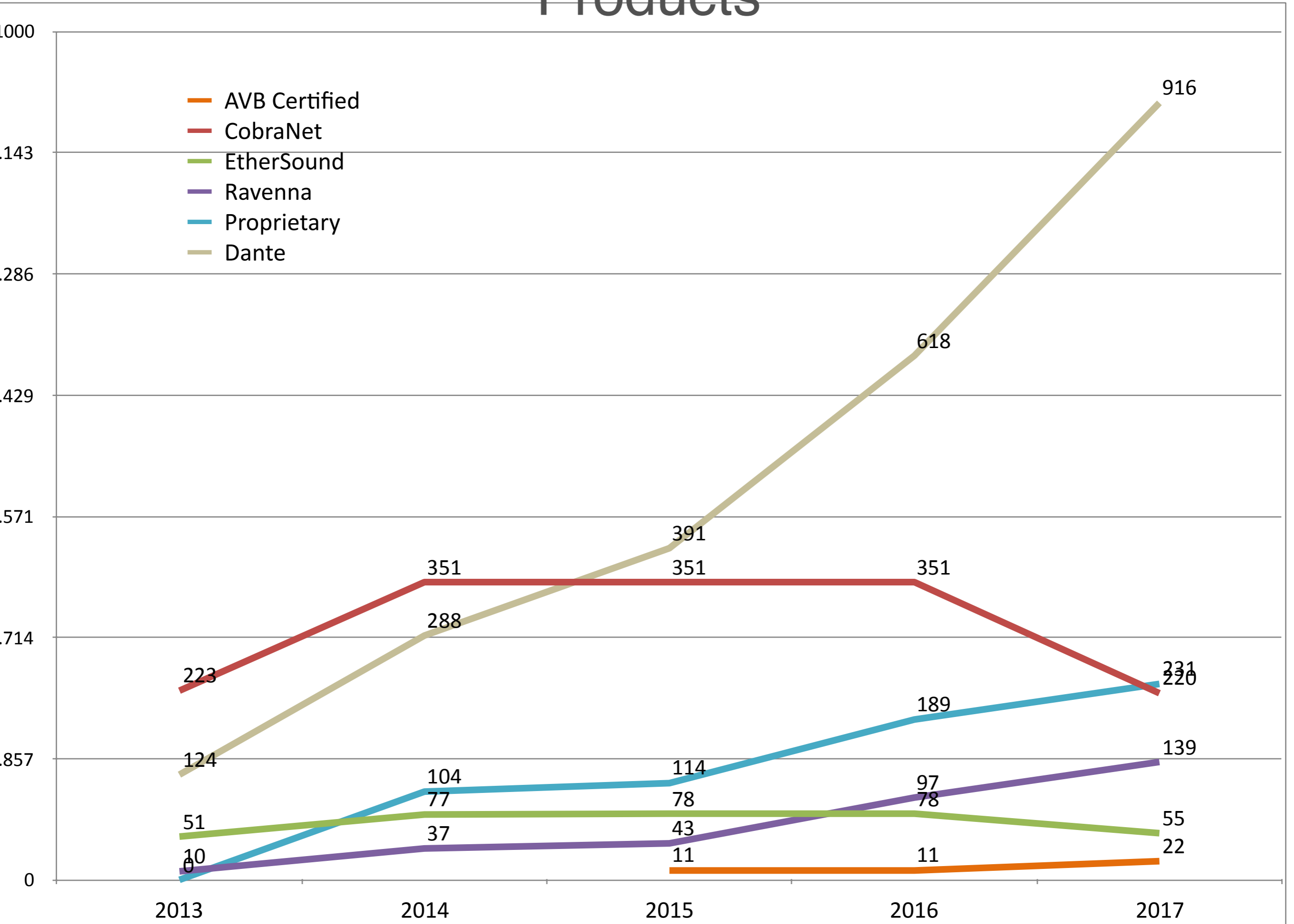
Dante product growth



Products



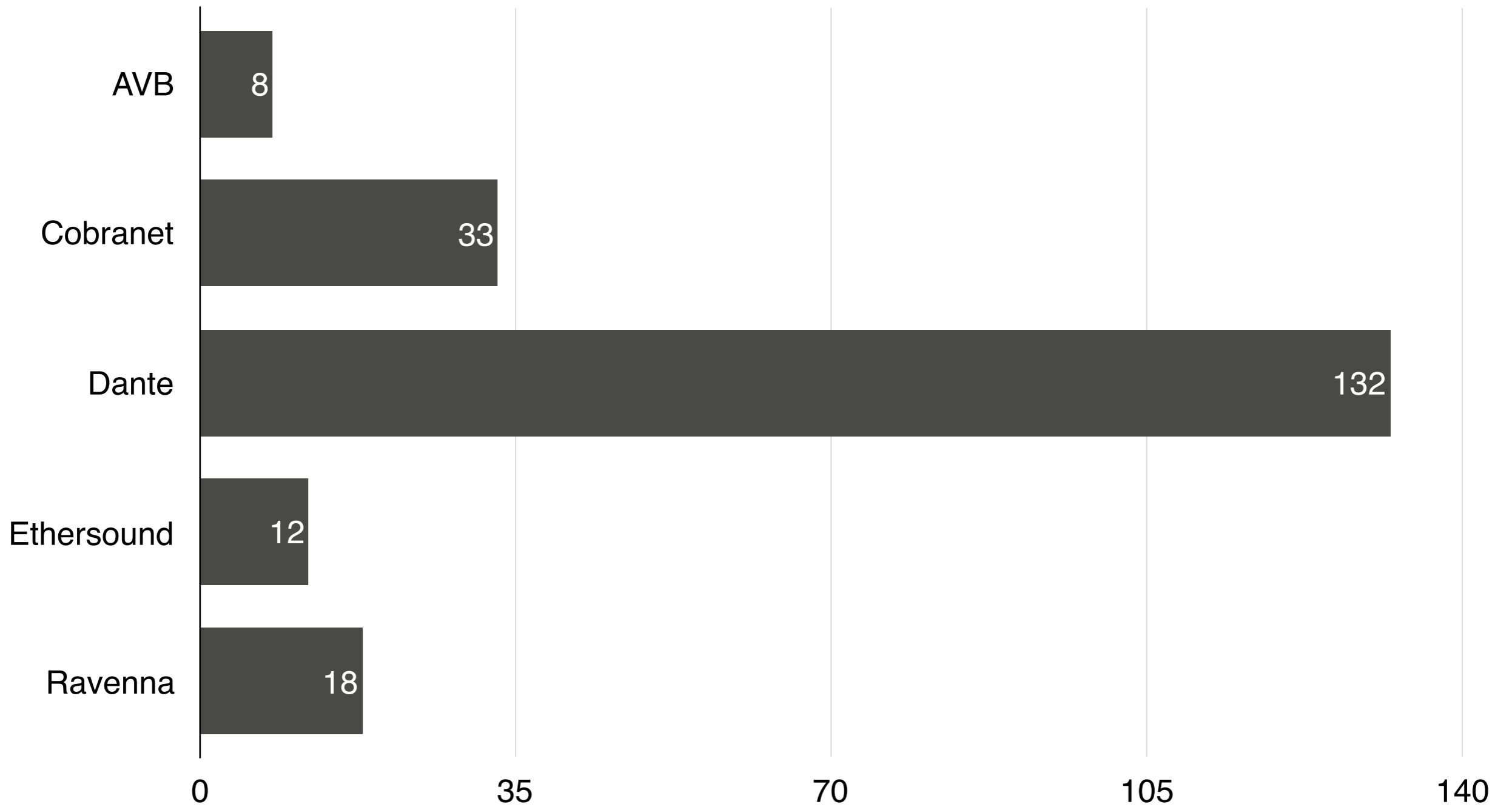
Products



We don't count interface cards

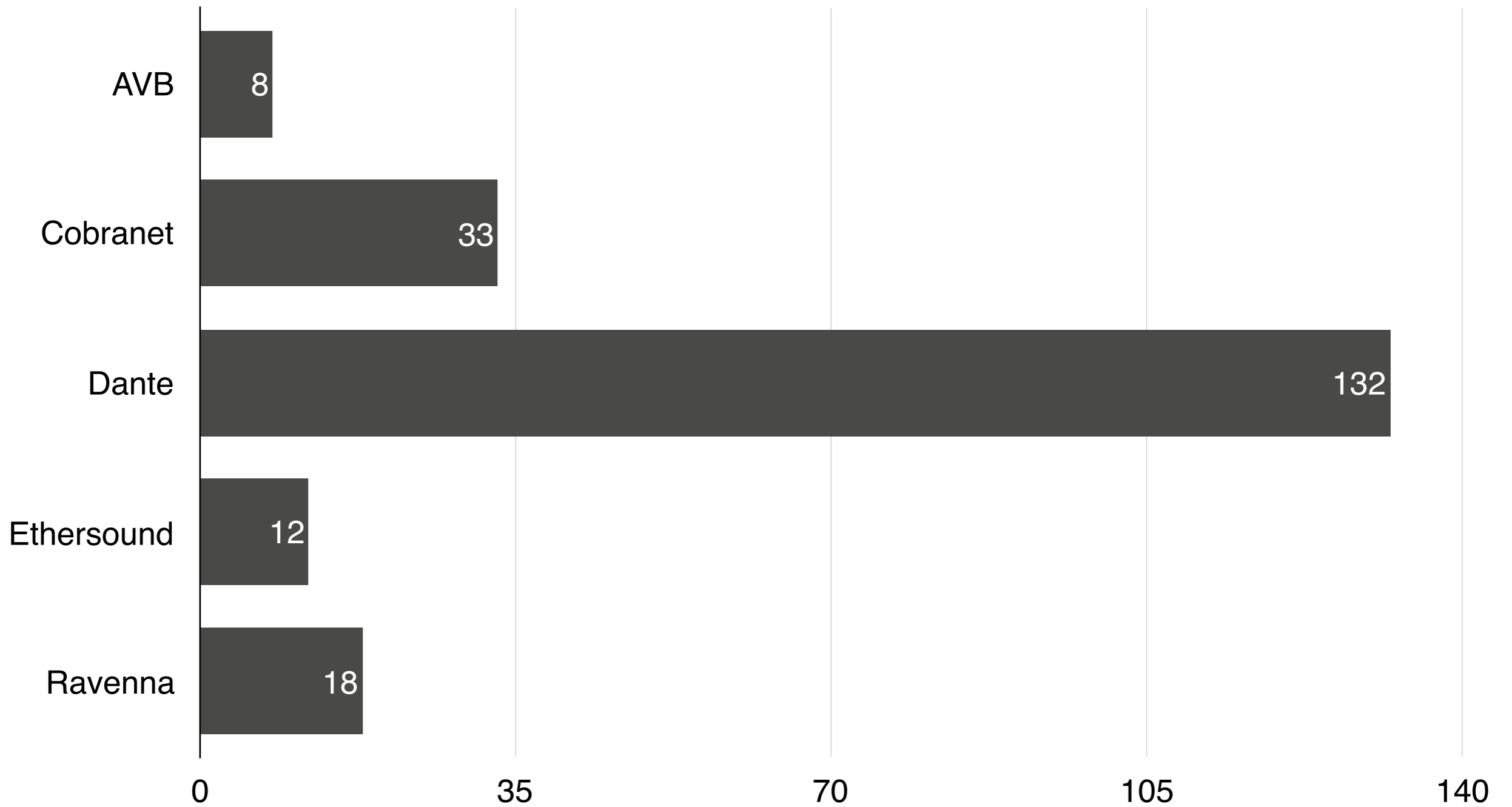
Manufacturer Activity

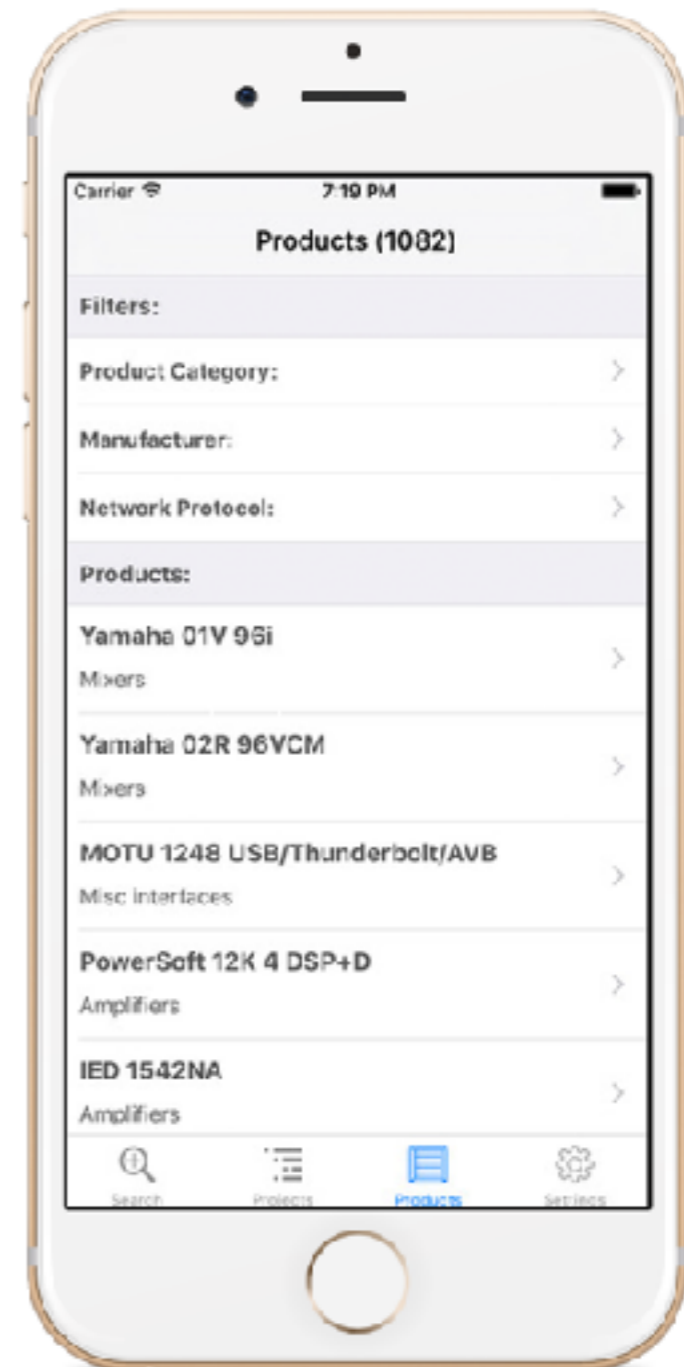
How many manufacturers shipping for each protocol?



Manufacturer Ecosystem

How many manufacturers shipping for each protocol?





rhconsulting.eu/products