

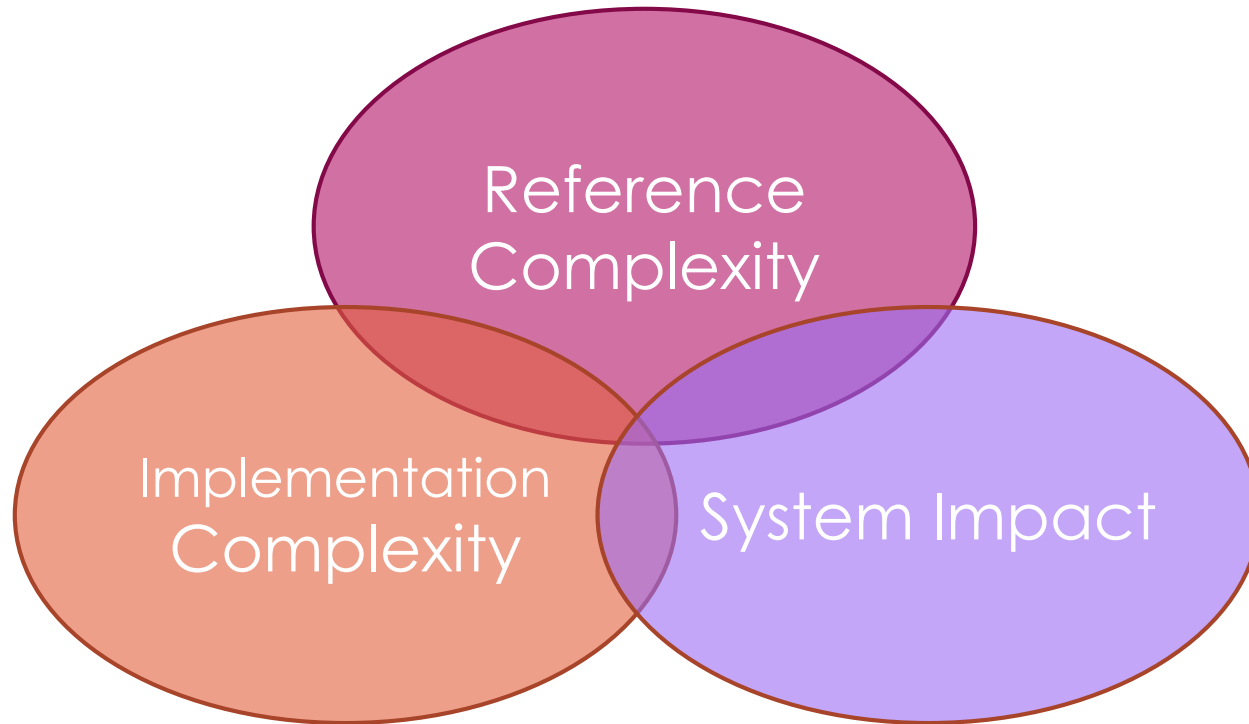


Observations

Backplane Observations

- ▶ Knobs we seem to be turning
 - ▶ Cd complexity (lumped vs distributed) Current Lumped
 - ▶ Cd value 130fF
 - ▶ Package length/loss 32mm (~4.5dB?)
 - ▶ Channel inclusion/coverage 9 of 9 system recommendations
 - ▶ RX complexity (floating vs fixed taps) Fixed Taps
 - ▶ RX tap length 20-24
- ▶ System/Receiver Noise

Comprise to find the sweet spot!



Backplane Observations

▶ Knobs we seem to be turning	Current	Heck 01	Kareti 01	Li 01	Kareti Alt
▶ Cd complexity	Lumped	Lumped	Lumped	Lumped	Distributed/Lumped
▶ Cd value	130fF	110fF	110fF	130fF	70-90fF
▶ Package length/loss	32mm (~4.5dB?)	32mm	32mm	20mm/32mm	32mm?
▶ Channel coverage	9 of 9 system recom.	6 of 9	9 of 9	?	9 of 9
▶ RX complexity	Fixed Taps	16 fixed	24 fixed	16 fixed	24 fixed
▶ RX tap length	20-24	2 banks of 4	2 banks of 4	1 bank of 4	2 banks of 4
▶ Max span from cursor		40UI	80UI	64UI	40UI

▶ Across proposals: $b_{\max}(1)$ 0.85, TxFFE [-0.06: 0.02: 0.00]