



# The Need for 400G Duplex MMF Objective

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- ◆ Market has demonstrated a need for duplex solution at 40G and 100G
- ◆ Arguments made in favor of 200G Duplex also apply to 400G (see [young\\_NGMMF\\_01\\_jan18.pdf](#))
- ◆ The reach may not be 100 meters in order to scale up in number of wavelengths
- ◆ For shorter reaches, MMF transceiver modules easily beat SMF transceivers in cost, power and size
- ◆ Market-Technology coupling is not just one way; often market adapts to technological limits
- ◆ Enterprise: Servers may upgrade to 50G sooner than reflected by older 1G-to-10G upgrade cycle time
- ◆ Data Centers: Some data centers with a smaller physical span may need Tier 1 to Tier 2 links based on cost-effective MMF
- ◆ We should have an objective that addresses the need for 400G duplex over a reach shorter than 100 meters