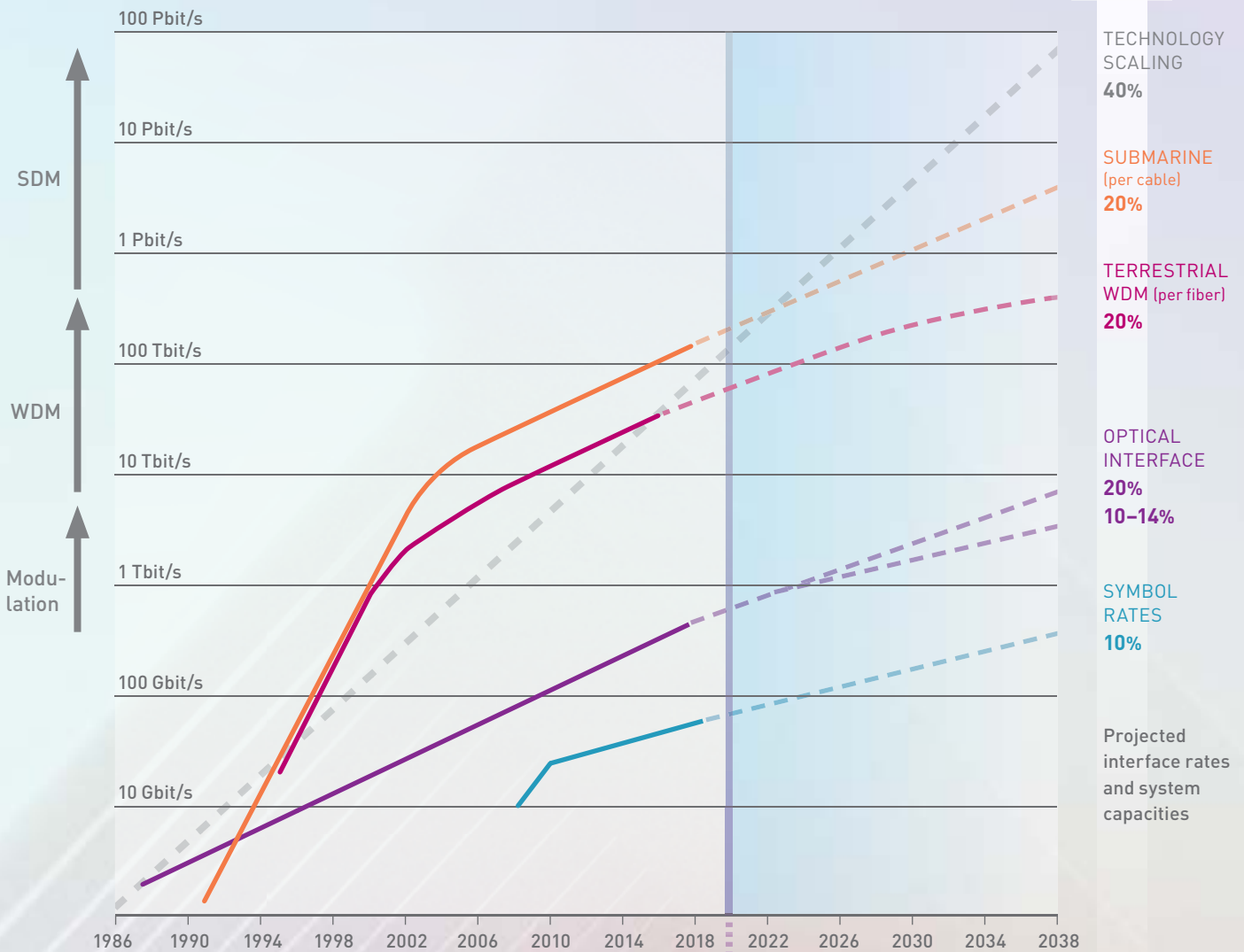


Meeting the Future: Fiber

A widely cited 2018 paper in *Optics Express* considered how well optical transmission systems would meet the challenges ahead. Recently reported advances show that fiber is on track to meet those challenges. (For a look at advances in hollow-core fibers, see this month's cover story, p. 26.)



2020

MARCH 2020: A team from Japan's National Institute for Communications Technology (NICT) reported successfully transmitting 172 Tbit/s over 2040 km through a single multicore fiber
OFC 2020, Post-Deadline Paper

MARCH 2020: A team from Nokia Bell Labs reported using SiGe digital-to-analog converters to achieve single-carrier transmission of 1.52 Tbit/s through 80 km of standard single-mode fiber
OFC 2020, Post-Deadline Paper

DECEMBER 2020: A team from Japan's NICT reported transmission of 1 Pbit/s using a single-core multimode optical fiber—increasing the current record data rate by more than 2.5 times
ECOC 2020, Post-Deadline Paper