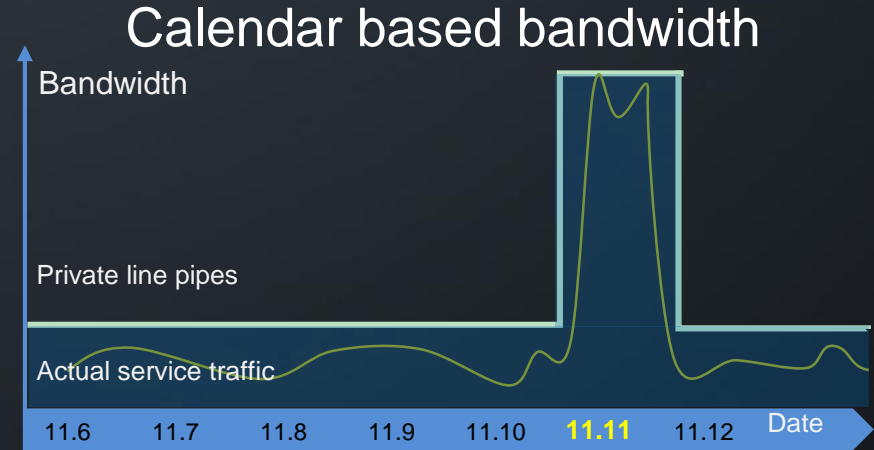
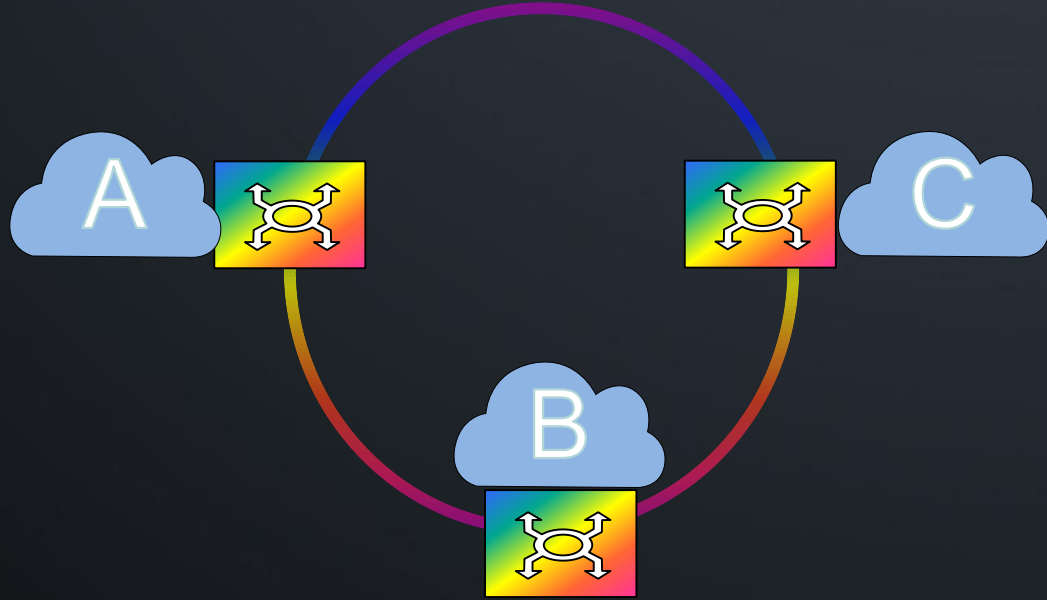
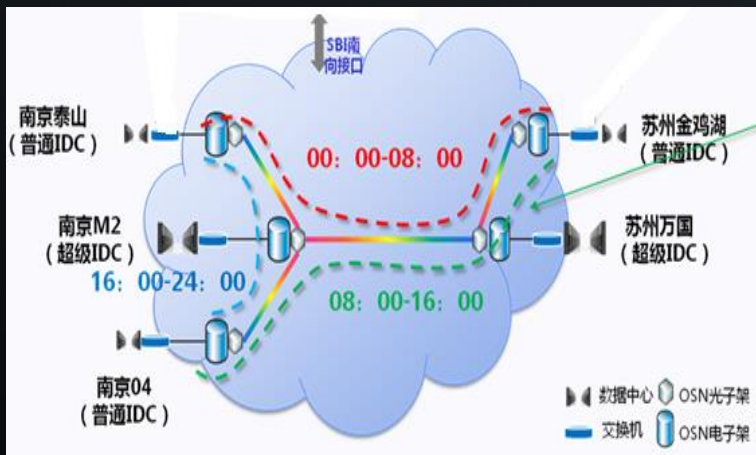


Application Scenario 1: Fast TTM



Time based BW Sharing



DWDM' s TTM Today

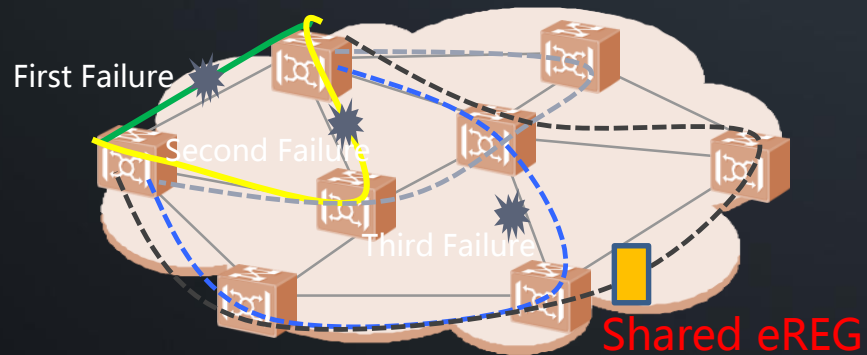


We hope...



Application Scenario 2: Lower Capex & Opex

1. fiber link available (99.9999%)

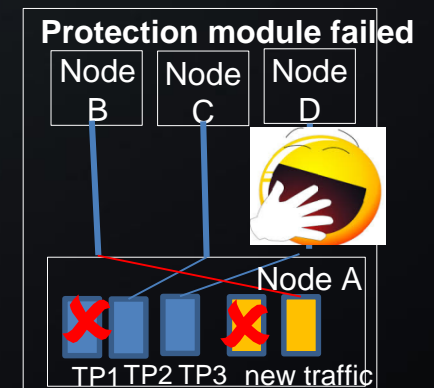
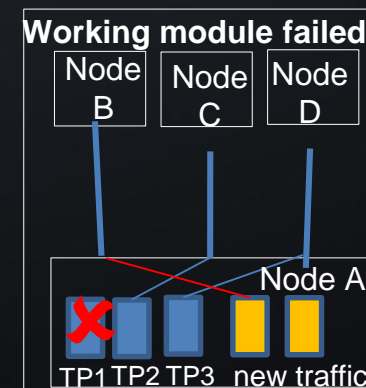
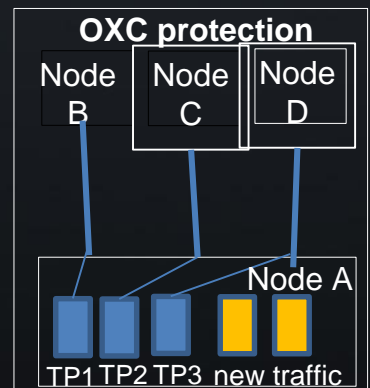
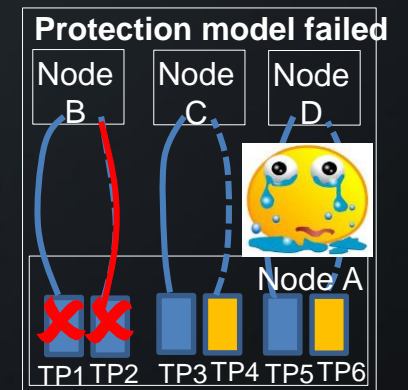
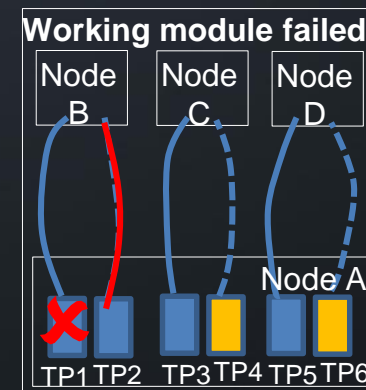
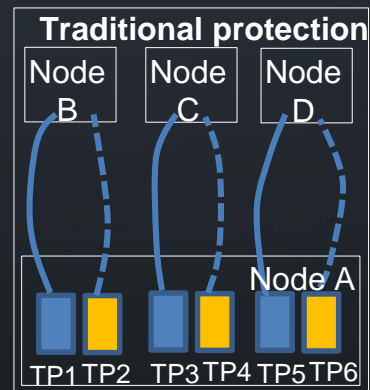
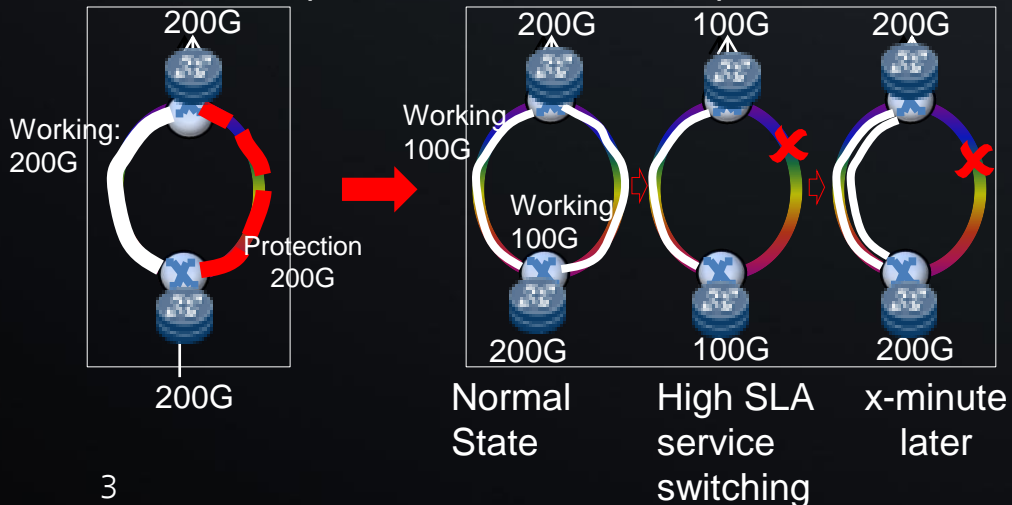


2. Super M:N protection without additional cost (2-hour to 2-month)

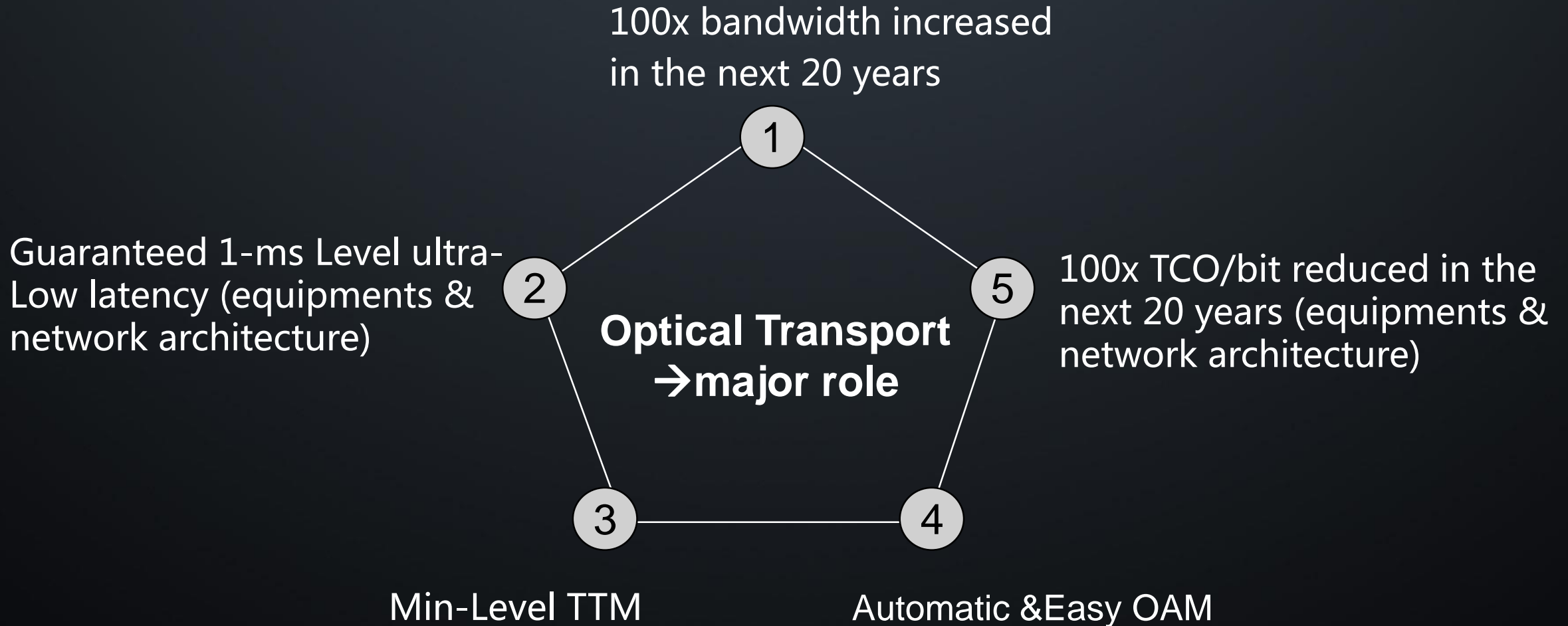
3. Up to 50% bandwidth saving with IP+Optical Synergy

Tradition: 1+1 protection

Optical ASON

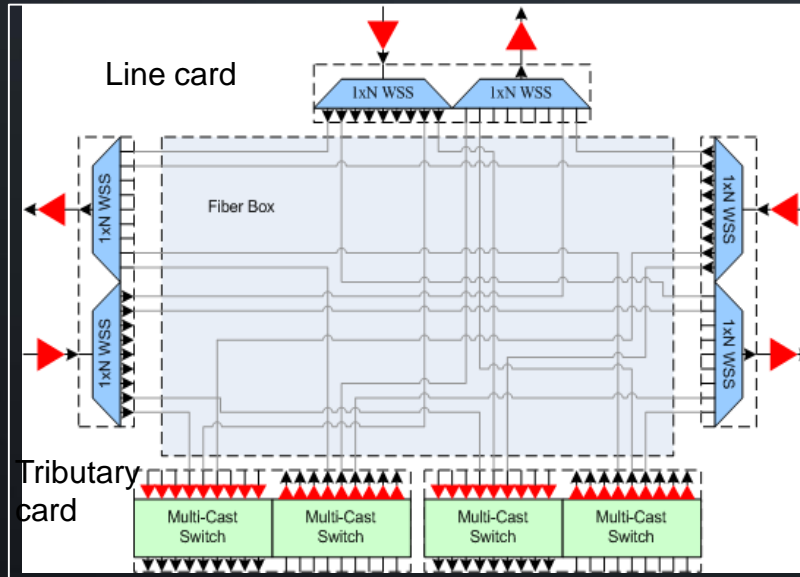


Key Requirements for Next-Gen Transport Network

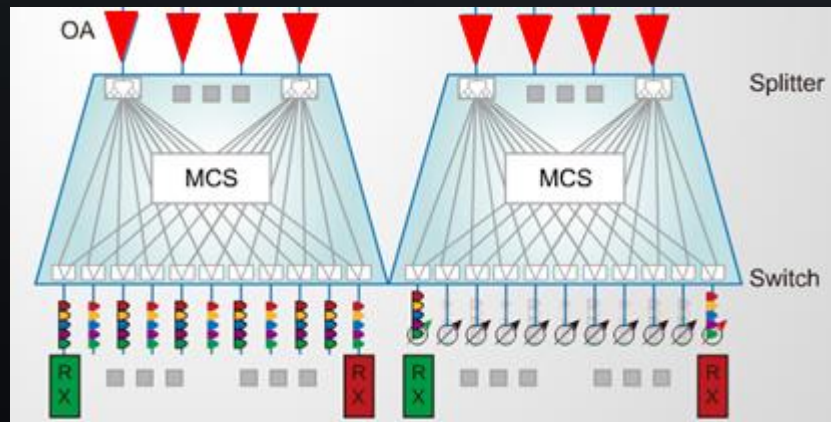
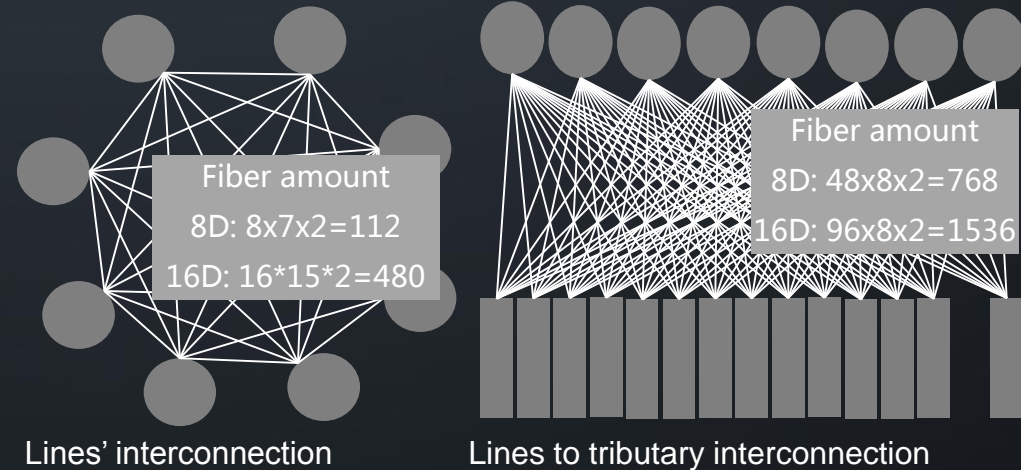


OXC will be a key feature for next generation transport

Key Challenge: Complex Architecture



1. Too many interconnection fiber

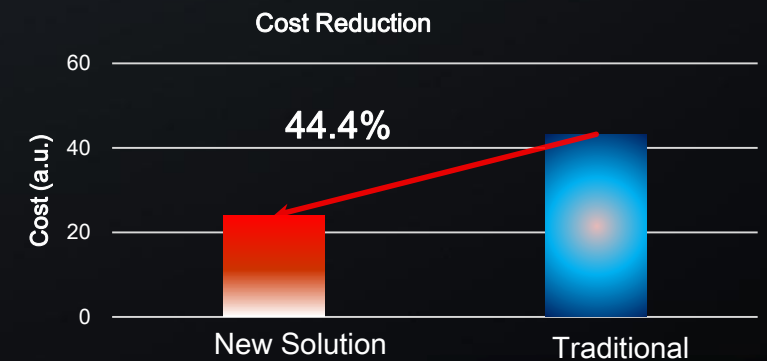
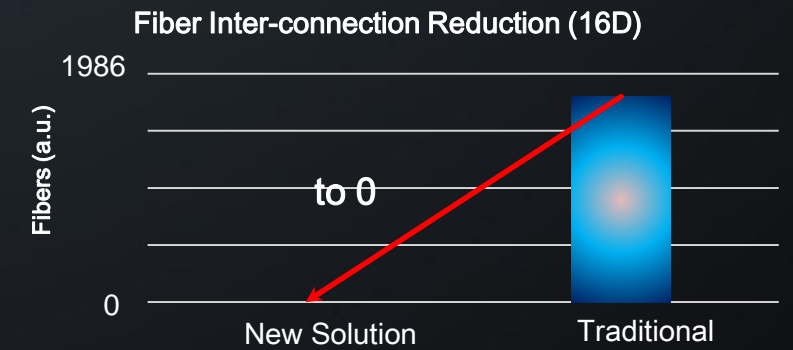
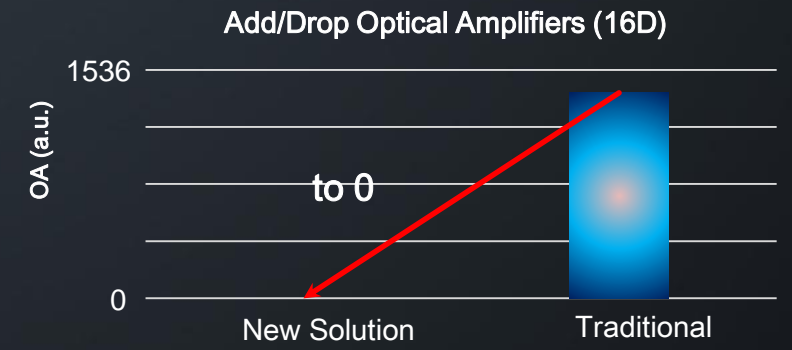
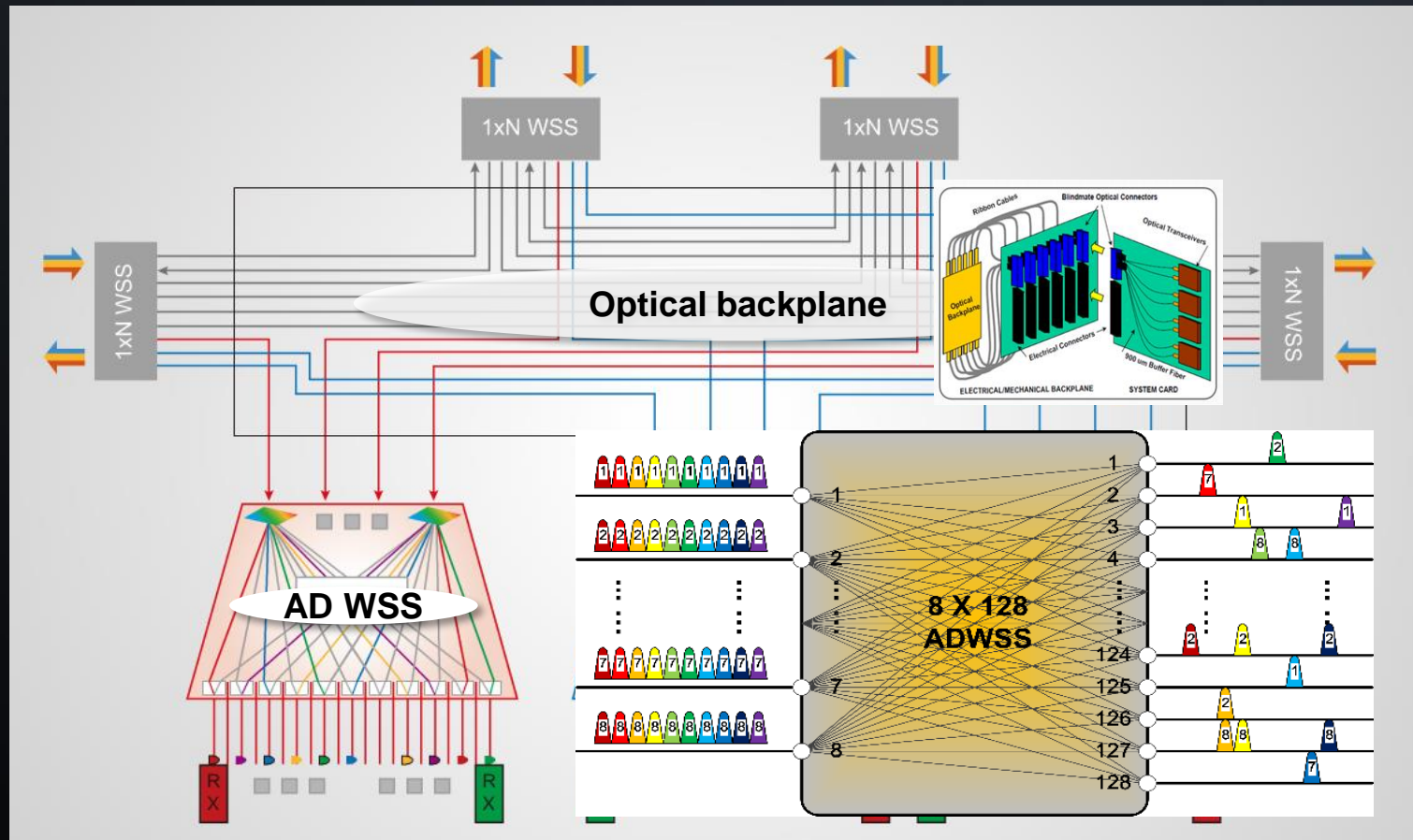


2. MCS8x16 is consist of too many components

- Each MCS8*16 needs 16 EDFAs, fully A/D needs 768 EDFAs (8D) or 1536 EDFAs (16D)
- Not support superchannel without tunable Flexgrid filter issue
- Low reliability

A Promising Solution

1. **Optical backplane**: no manual inter-connection
2. **ADWSS**: no add/drop amplifiers and support superchannel



What We Need:

- Common Spec
- Joint Development
- Multi-vendor Interoperation & Standard
- ...

We really need a good cooperation to enable it to achieve all of the promised industry benefits!

Thank you