

# Wavelength Plan “Peacemaker”

# Conflicting Requirements

## But are they?

### ❑ Operator A:

- Wants 25G symmetric by 2018/2019
- Has/will have 10G-EPON, but does not have GPON
- Need evolutionary path to 50G and 100G
- See [salinger\\_3ca\\_01\\_0116.pdf](#)

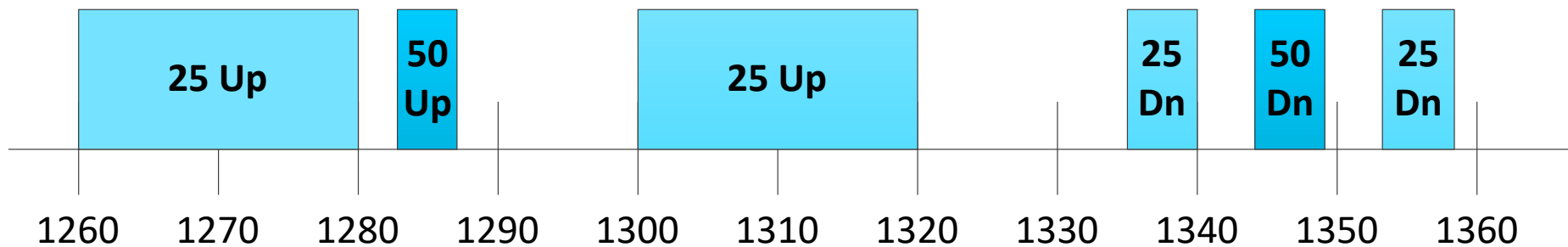
### ❑ Operator B:

- Has GPON/XGS-PON/10G-EPON
- 25G is not big enough step
- Wants 50G over single wavelength
- Waiting 7-8 years is OK.

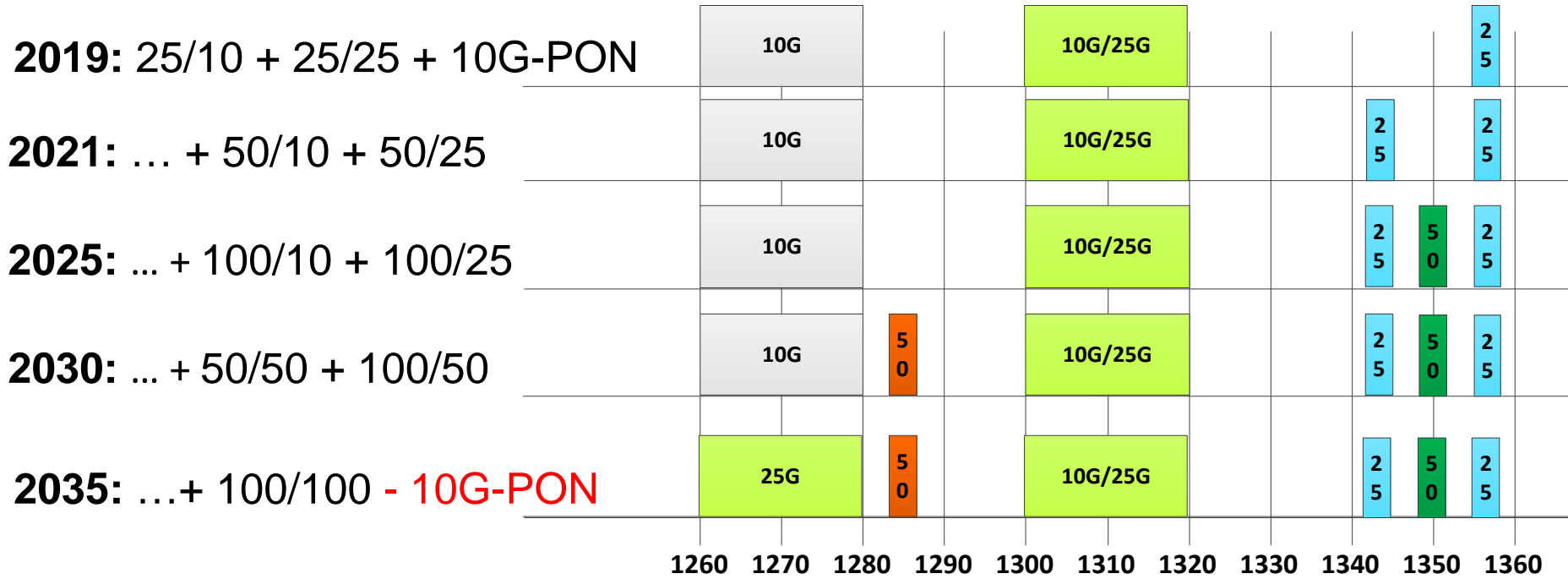
# New Plan

100G EPON

- ❑ Start with 25G/10G and 25G/25G by 2019, when operator A needs it
- ❑ Add 50G wavelengths by 2025, when operator B needs it
- ❑ 6 wavelengths total to get to 100G/100G



# Operator A Network Evolution



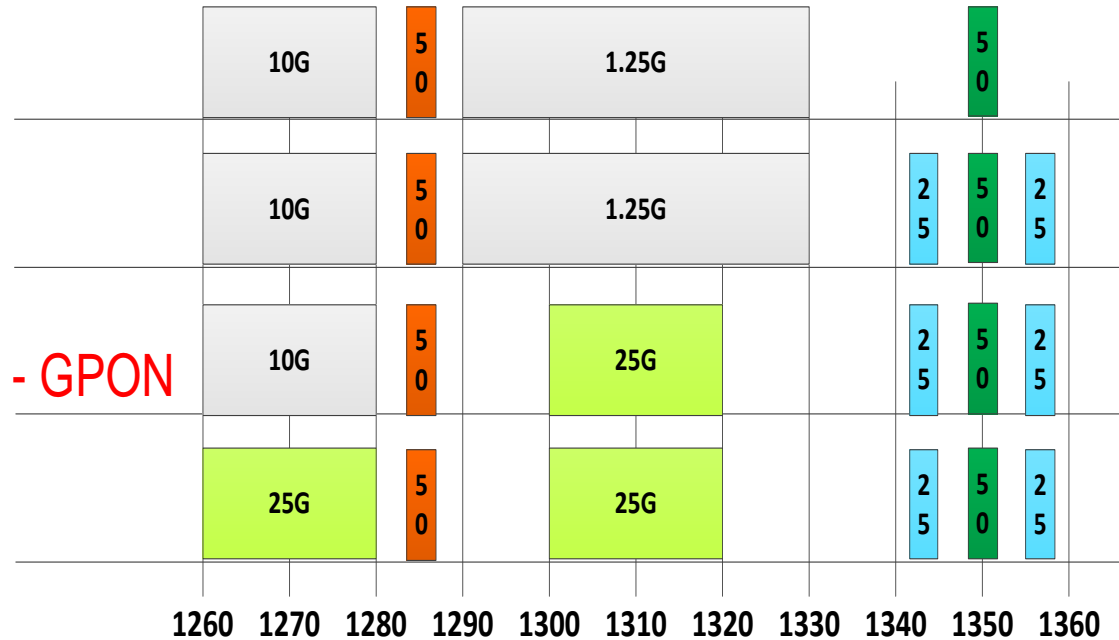
# Operator B Network Evolution

**2025:** 50/50 + GPON + 10G-PON

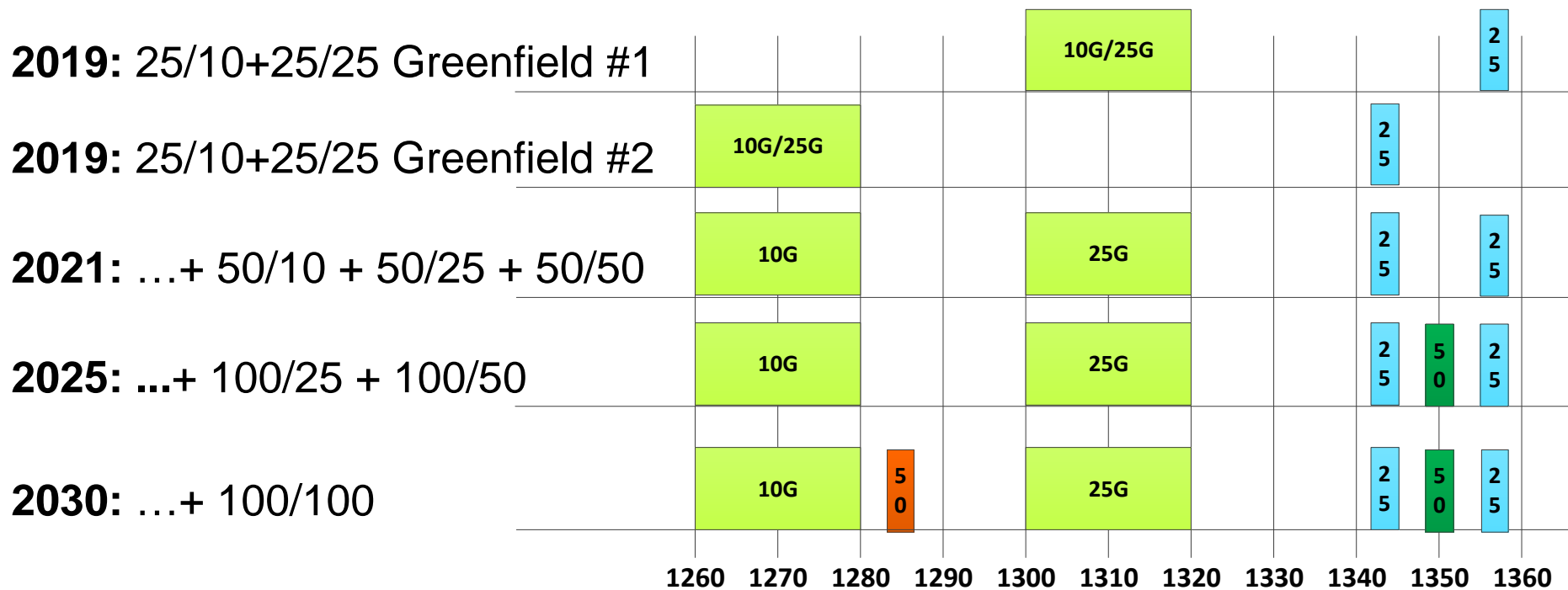
**2030:** ... + 100/50

**2035:** ... + [50/25] + [100/25] + 100/75 - GPON

**2040:** ... + 100/100 - 10G-PON



# Greenfield Network Evolution



Comment received during presentation:  
1270 nm band should be marked 10G/25G

# Thank You

# Straw Poll #4

1. Define wavelength plan that includes mixed rate wavelengths as illustrated in slide 3 (as an example)
2. Remove 100G-EPON from objectives
3. Initiate a separate project on 50G/wavelength PMD

I support the above proposal

Yes: 13

No: 3

Don't care: 3