

Introducing D1.0 Ethernet BWA, Part II

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Review of BWA, Part II Submitted Presentations

- May 2018 – [Mobile Network Traffic Forecasts](#)
- Sept 2018 - [Introduction - Ethernet Bandwidth Assessment, Part II](#)
- Nov 2018 - [Broadband Development Status and Trend in China](#)
- 02 April 2019 – [Trends in Automotive Networks](#)
- 02 April 2019 - [Future EPON Bandwidth Needs](#)
- 09 April 2019 - [Traffic Growth in Telecom Networks and Mega Datacenters](#) (LightCounting)
- 11 June 2019 - [Available Industry Data](#) (Equinix / Akamai / Sandvine / Internet World Stats)
- 24 June 2019 – [Cisco VNI Forecast Update](#)
- 09 July 2019 – [The European IXP Scene](#)
- 27 Aug 2019 – [Review of Networks in PeeringDB](#)
- [Email Summary](#) of Published Reports on Broadband Findings
- Sept 2019 - [Next Generation Data Center Connections in China](#)
- 27 Sept 2019 - [Switching, Routing, and Server 5-Year Forecast](#) (Dell'Oro)

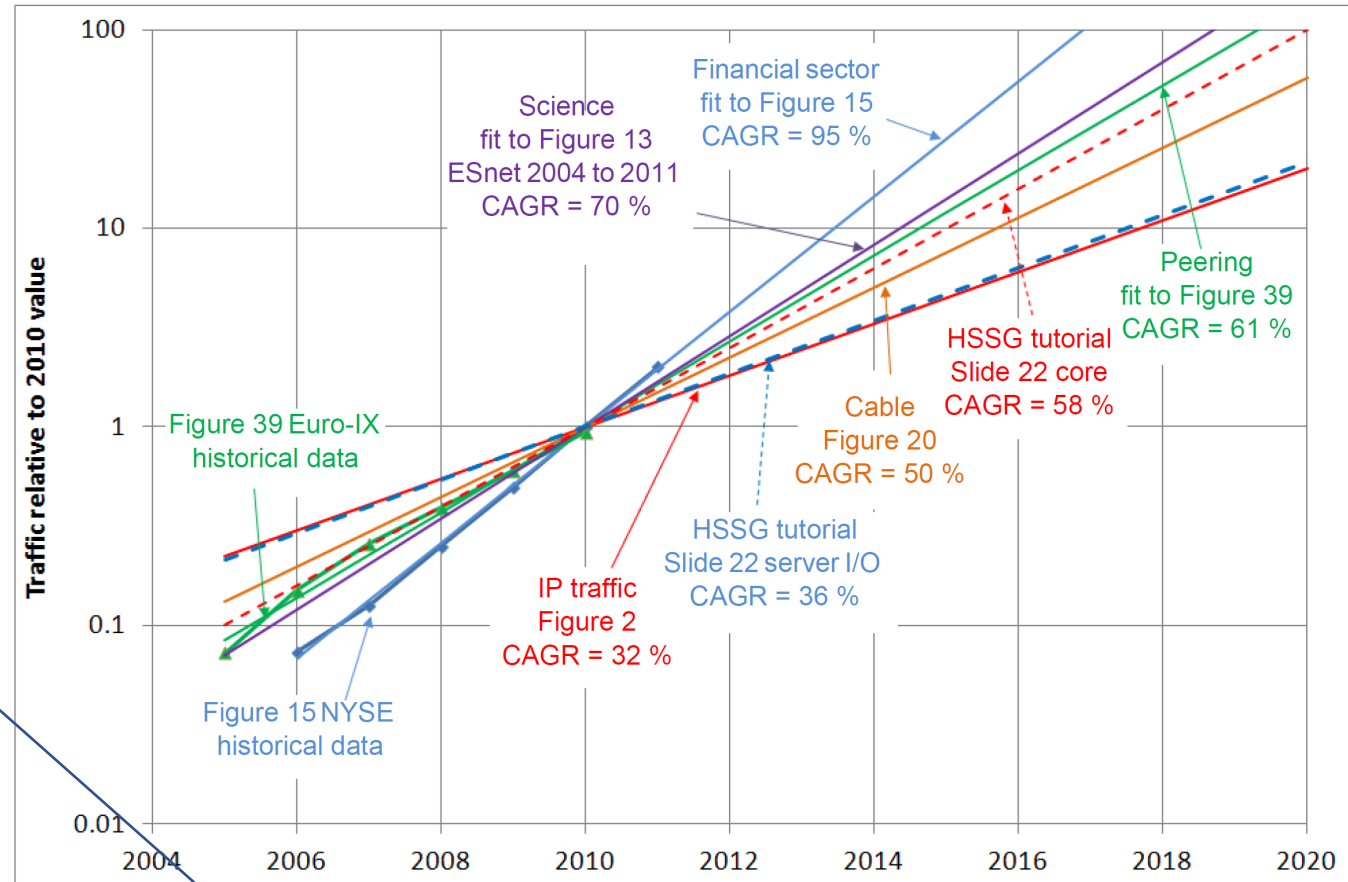
Approach to D1.0 Organization

$$\begin{array}{ccccccc} & & \text{Increased} & & & & \\ & & \text{access} & & & & \\ \text{Increased \#} & & \text{methods and} & & \text{Increased} & & \text{Bandwidth} \\ \text{of users} & \times & \text{rates} & \times & \text{services} & = & \text{Explosion} \end{array}$$

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 - Increased Services & Applications
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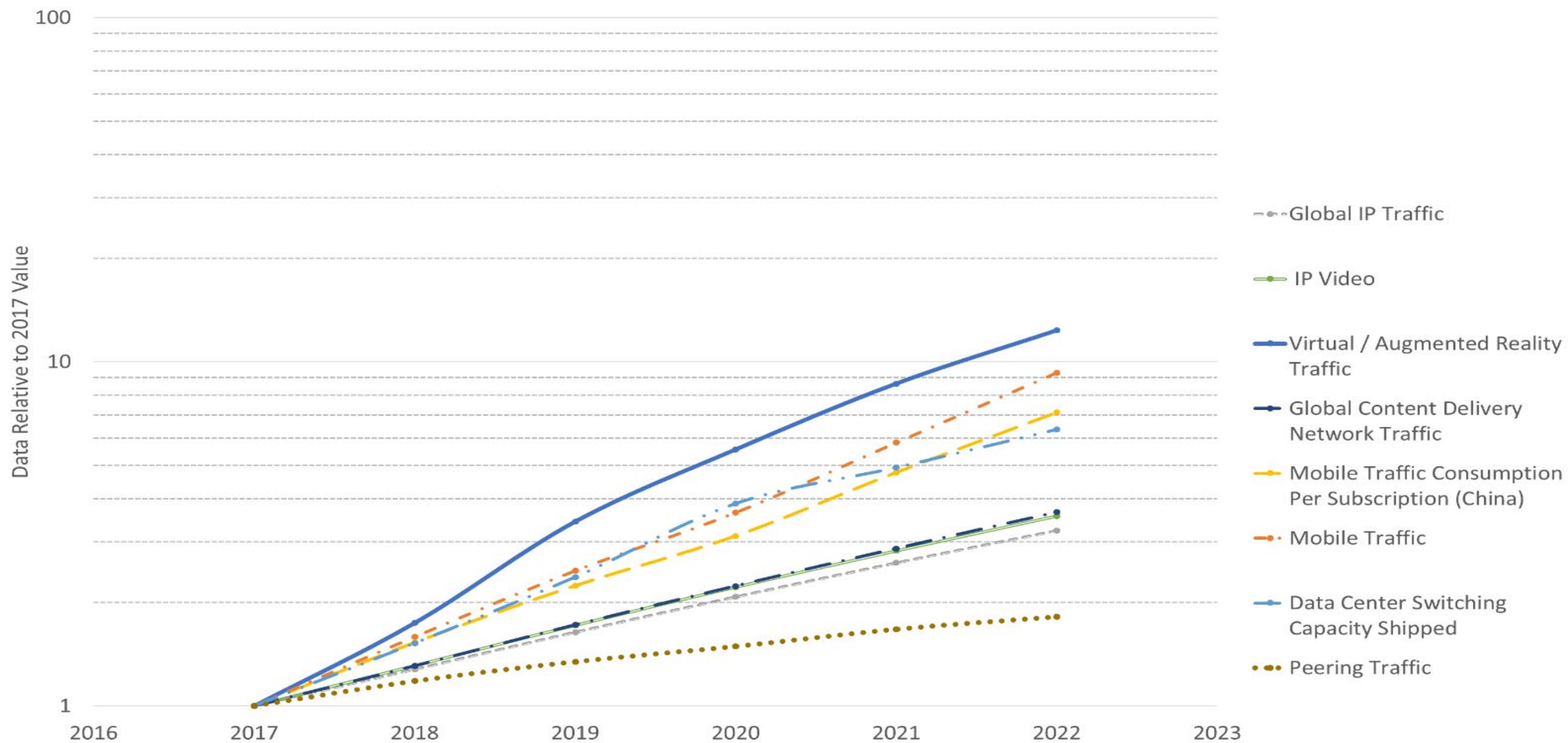
Ethernet BWA (2012) Forecast Comparison



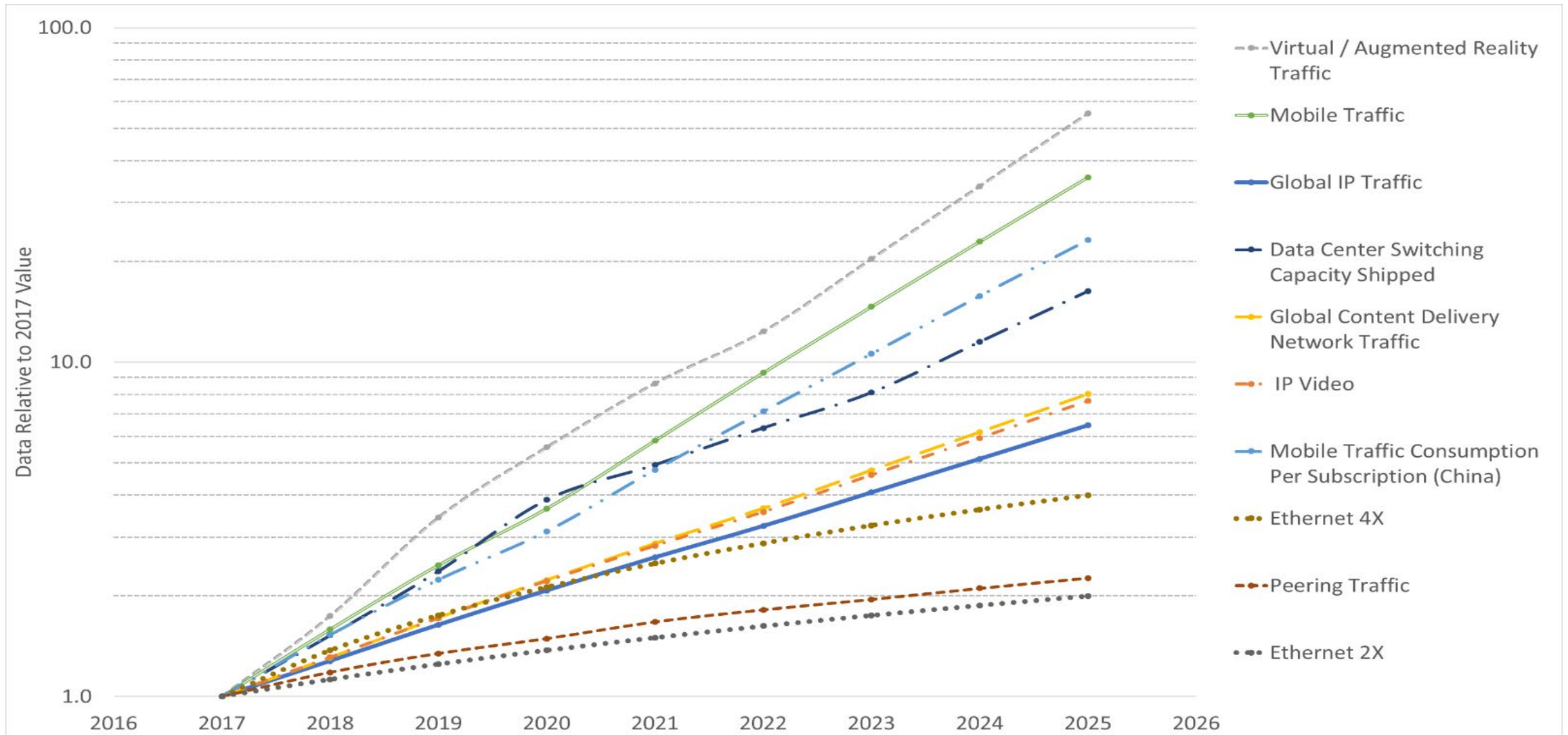
Note – during preparation of this deck this # was reviewed and was found to be wrong. The correct # should be $50 * 3.75 \text{ Tb/s}$ (peak) or 187.5 Tb/s. Comment will be submitted against D1.0 with proposed text update.

For 2018	2012 Forecast (BWA 1)	2020 Data (BWA2)
IP Traffic	≈200 Exabytes / month	156 Exabytes / month
Peering	≈37.5 Tb/s	≈32.5 Tb/s

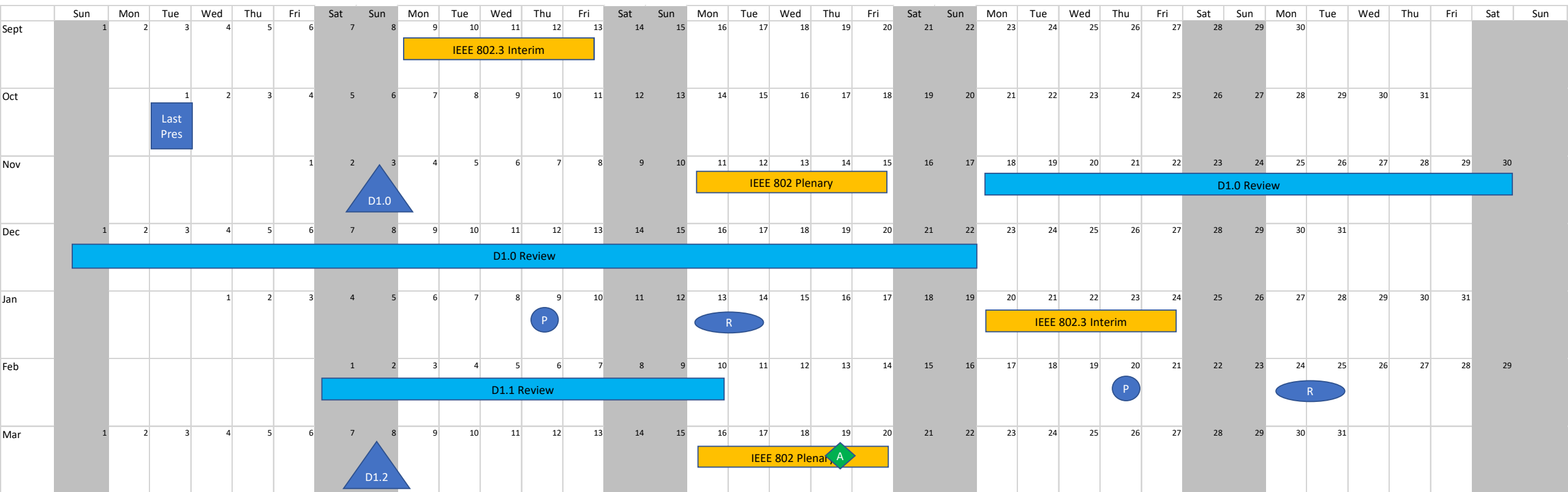
Findings (2017 - 2022)



Findings + 2022 - 2025 Forecast



“Writing / Comment BWA” Timeline



Proposed responses posted



Review comments



Approved (Target date March 19, 2020)