



TFI Forecast of Broadband Speeds

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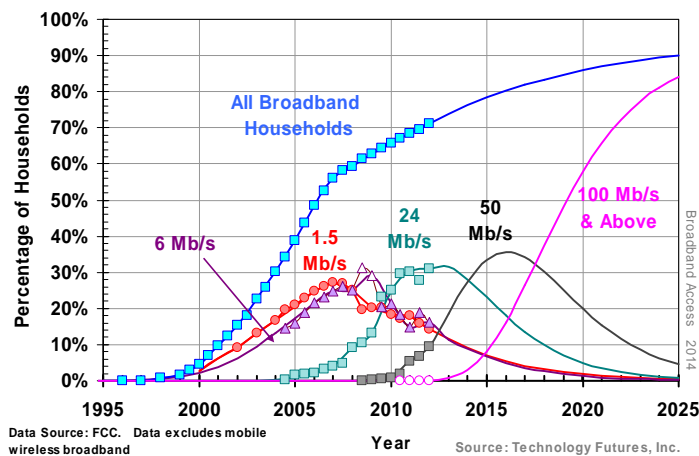
Broadband Generations, Data Rate Categories

Nominal	Range
1.5 Mb/s	Less than 3 Mb/s
6 Mb/s	At least 3 Mb/s and less than 10 Mb/s
24 Mb/s	At least 10 Mb/s and less than 25 Mb/s
50 Mb/s	At least 25 Mb/s and less than 100 Mb/s
100 Mb/s	At least 100 Mb/s

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Resulting Lifecycles

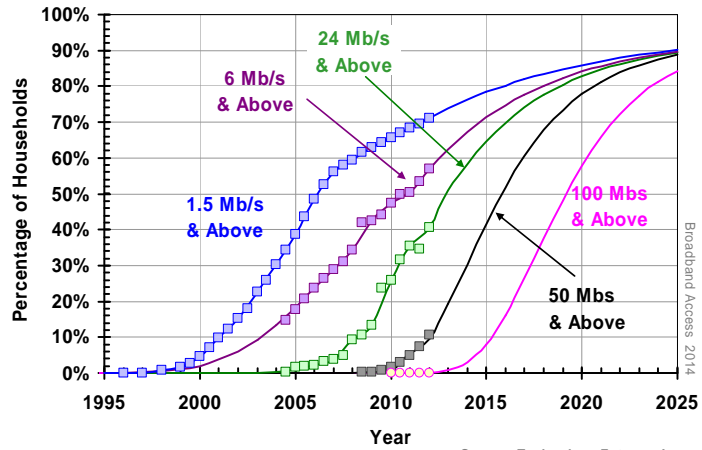


Lifecycle (t) =
Substitution (t) – Next Substitution (t)

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Technology Substitutions



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Adding Another Generation

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Constant Percentage Rate of Advance

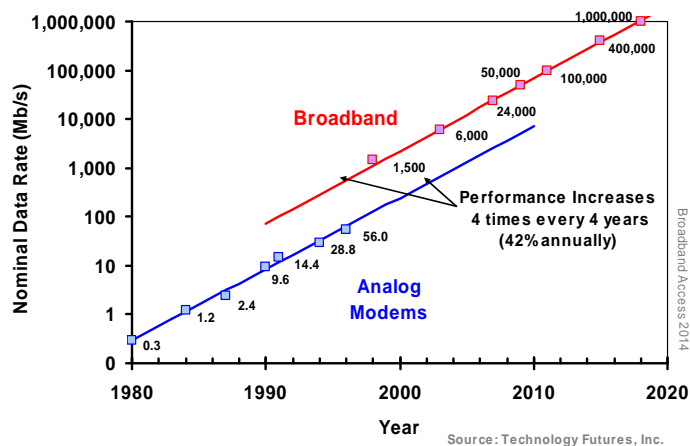
- Most new technologies progress this way
- Rates will continue if:
 - The improvement is technically possible
 - Basic approach remains the same
 - Demand, utility, need continue

From TFI's Technology Forecasting Seminar

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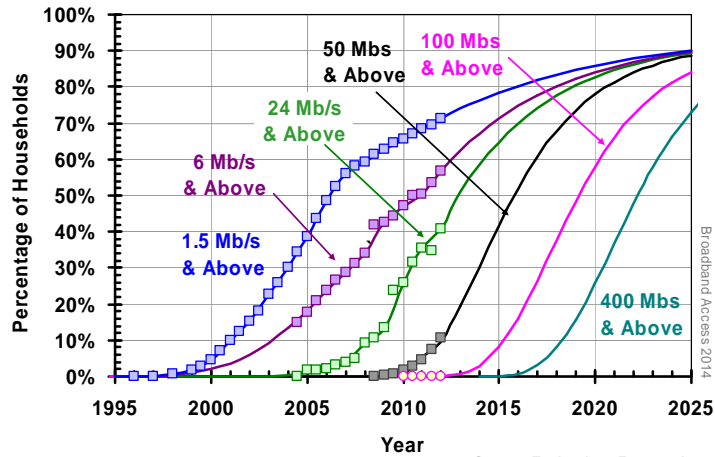
Trend in Residential Access Data Rates



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Technology Substitutions Adding Typical Next Step (400 Mb/s)

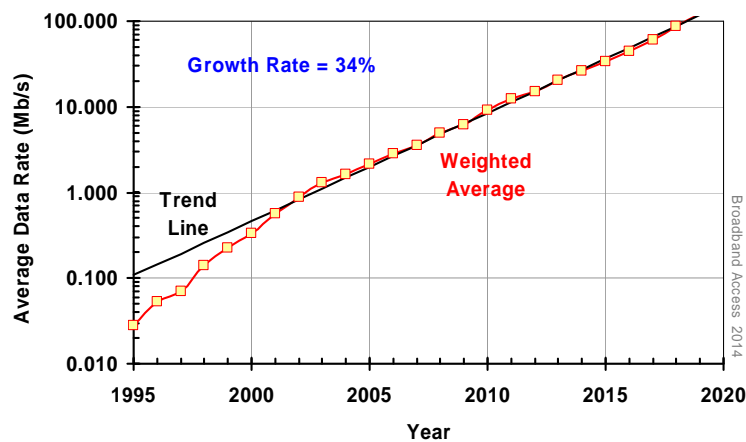


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Resulting Average Data Rate



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