



## Obsolescence of Narrowband Assets

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**TFI Communications Technology  
Asset Valuation Conference**

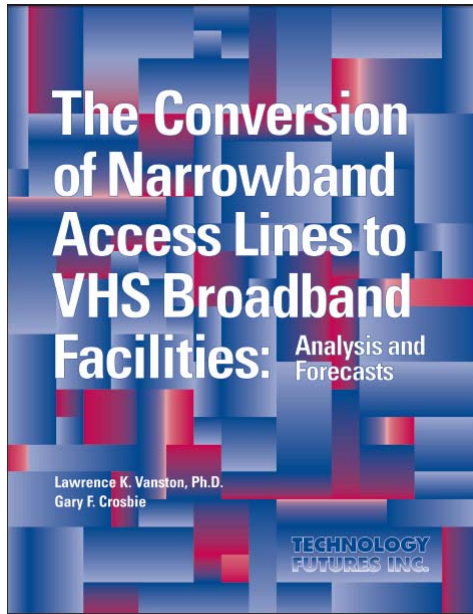
January 24-25, 2013

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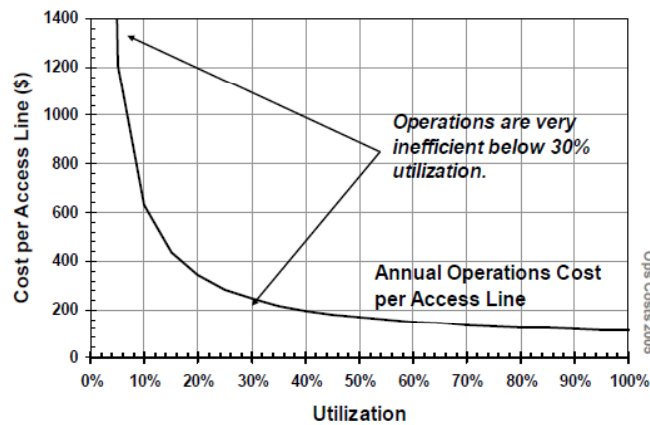
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## Annual Operations Costs per Access Line on Legacy Facilities vs Utilization

(2006 View)

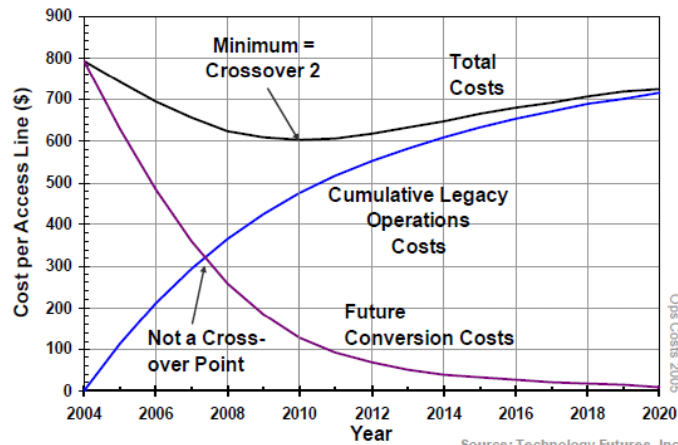


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## NPV of Total Costs by Conversion Year (2006 View)



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5TH EDITION

*Lawrence E. Vanston, Ph.D.*

*Ray L. Hodges*

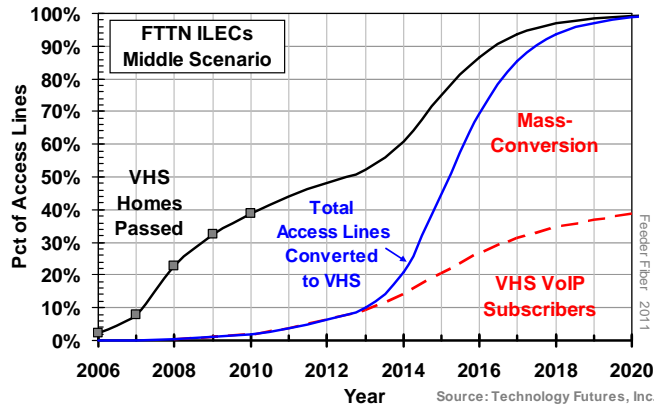
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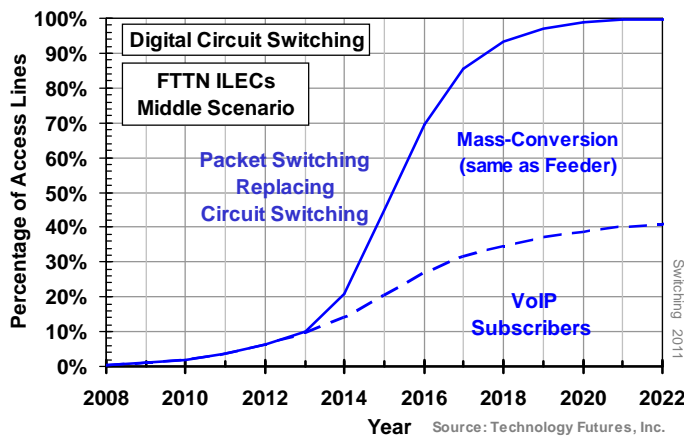
## Narrowband Access Lines Converted to VHS Broadband Facilities – FTTN ILECs – Middle Scenario



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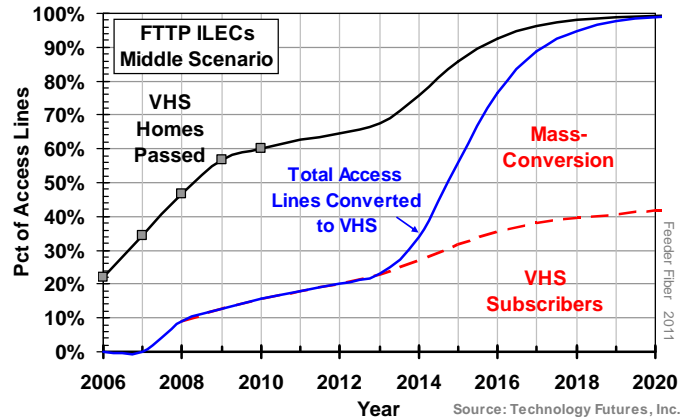
## Substitution of Packet Switching for Circuit Switching – FTTN ILECs



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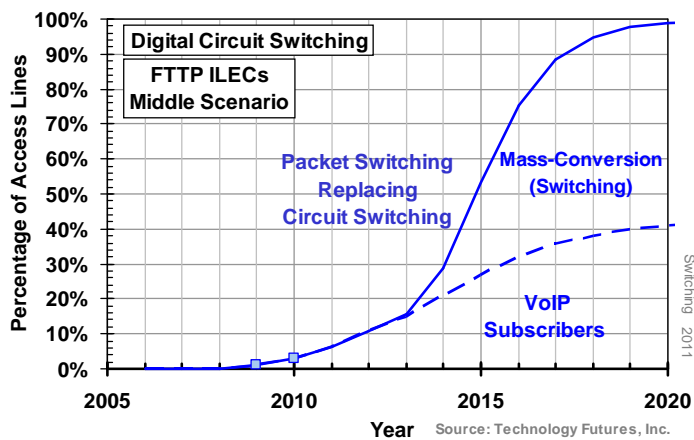
## Narrowband Access Lines Converted to VHS Broadband Facilities – FTTP ILECs – Middle Scenario



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## Substitution of Packet Switching for Circuit Switching – FTTP ILECs



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