



Are your fiber design processes ready for 5G?

5G will result in significant expansion of fiber networks to meet the latency requirements for front and backhaul of 5G. The need to quickly & accurately design fiber networks will become increasingly important as 5G deployments gather pace.



1.4B 5G connections by 2025¹



By 2025 **40%** of cell sites will be **fiber fed**²



\$244B CapEx spend on mobile networks by 2020²

Estimating costs of fiber deployments can be challenging



Time consuming

Manual estimation can many take weeks to complete



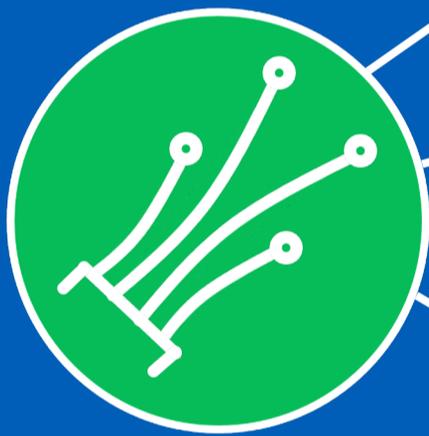
Inconsistent designs

Variations in designs leads to complexities and delays in network construction



Missed opportunities

Considering FTTx and 5G x-haul independently results in higher deployment costs



GE's Smallworld solutions allow you to rapidly **create fully optimised, least cost, designs** considering multiple input factors to minimise costs of network construction



Design in minutes not weeks

Design automation enables designs covering 1000's of locations to be created in minutes comparing different deployment architectures and roll-out scenarios, de-risking business case and tender requests



Reduce deployment costs by ~5%

Least cost designs minimize the cost of network construction by optimizing route choice, minimizing trenching and equipment while maximizing coverage



Save up to 10% for converged networks

Converged operators can realize significant savings by designing 5G x-haul network in conjunction with FTTx networks rather than considering them independently

Learn more about how you can work with [GE to achieve your goals](https://www.ge.com/digital/sales-contact-me)

Footnotes

¹ <https://www.gsma.com/r/mobileeconomy/>

² <http://telecoms.com/opinion/fiber-optic-is-important-for-5g-but-operators-will-need-a-range-of-options/>

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