

# Informal presentation of FTTP equipment and infrastructure

# Senate Select Committee on the NBN

# **FTTH Council Asia-Pacific**

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# The Council strongly welcomes the Australian government's FTTP initiative...

and our members are keenly interested in the details of how its going to be implemented...

#### FTTH Council research on economies with highest FTTP penetration



### Key elements of an FTTP Access Network



#### Key elements of a residential FTTP deployment (underground example)

- Potentially several applications providers
  - Smartgrid \_
  - eHealth
  - eSecurity
  - Internet access
  - Telephony —
  - Entertainment
  - Etc \_

Pit

The value of FTTP extends *far more* than just the Internet



#### FTTP 'modem' mounted on an external wall Supporting Cable TV, Telephony and up to gigabit broadband





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FTTP 'modem' mounted in an external enclosure (such as a meter box) Supporting Cable TV, Telephony and up to gigabit broadband







#### Passive Optical Network – Fibre End-to End



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### Pay TV delivery through aerial coaxial network



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### Pay TV delivery through aerial coaxial network



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# Pay TV, telephony and broadband delivery through fibre



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## Pay TV, telephony and broadband delivery through fibre



## FTTP – can be deployed with almost zero community impact



The street furniture shown is for † other utilities.

Example of FTTP street furniture





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## A fibre splitting pedestal / underground enclosure



#### Fibre Cable options



#### Infrastructure Elements



#### Micro Duct branching example



## Mini trenching



## Micro trenching



Microtrenching



Zipping Conduit for Optical Cable Protection



Access Node, Cable Managemennt, Conduits for 1&4 cables

12-25 cm depth, up to 576 fibres









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#### Lead-ins in pit Pre-terminated and coiled underground awaiting hauling



### Lead-ins and optical splitter, after installation



#### FTTP Optical Network in Japan - Key technology for FTTP in Japan -



# END Thank you



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