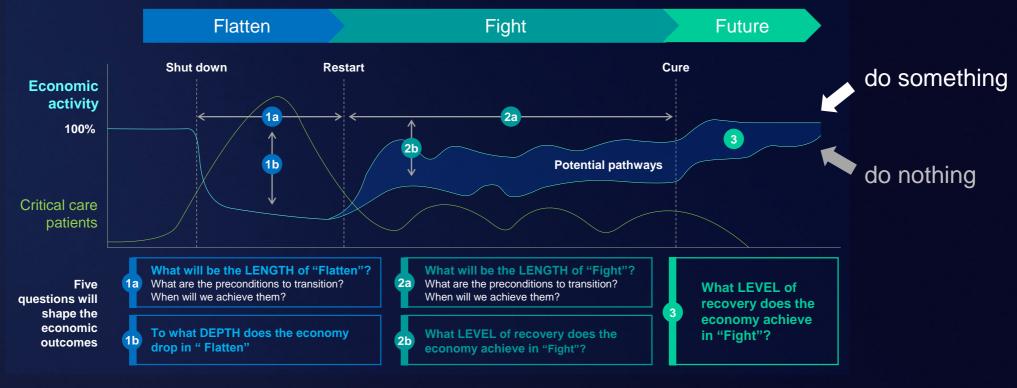
How to speed up national broadband development

Arthur, Kuan-Hong Chen



Broadband is becoming a must during and after COVID-19



Expectations on broadband



Agile and resilient foundation of business



Supply to shorten service TTM



Ease access to public e-service



gains citizen satisfaction



Raising service efficiency



Demand of quality connection



Policy of broadband Universal service



To remove obstacles of fiber rollout, it relies on the policy support of government



Pains of outdoor deployment

- Hard to obtain ROW
- Excavation costs are high
- Can't share legacy pipes

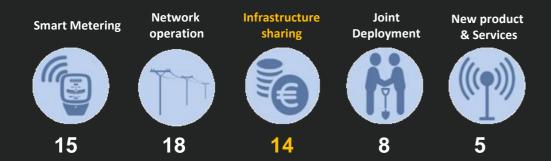
Indoor deployment pain points

- Hard to obtain wayleave(Indoor ROW)
- Hard for users to accept
- Onsite service requires consent of management committees and tenants

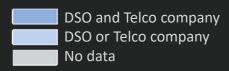


EU promotes and tells the trend of synergies Utility - Telcos

58 projects of synergy in 17 member states



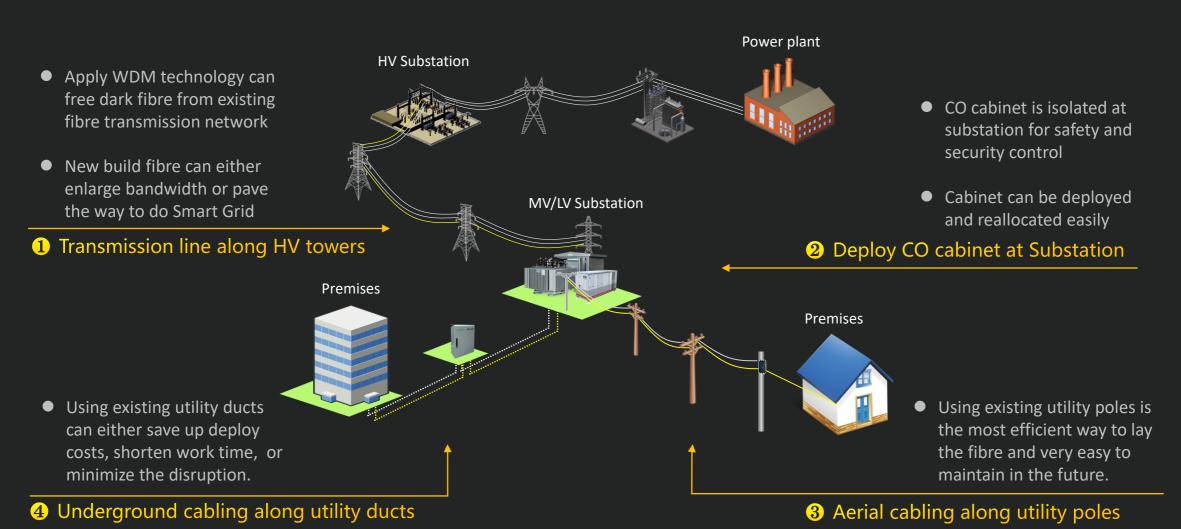
"symbiosis" of smart grid and ultra-broadband realization



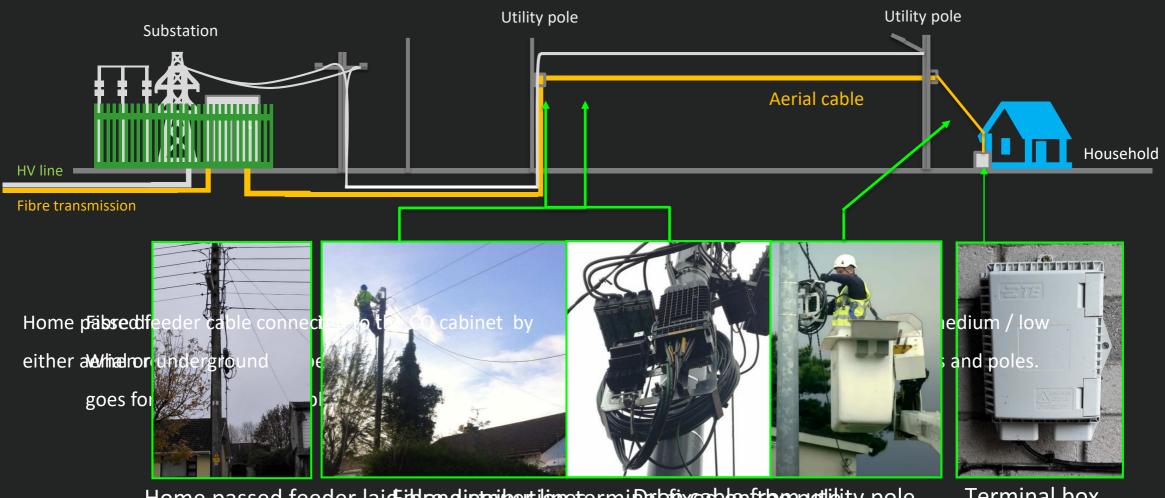
DSO: (Power) Distribution System Operator



Reusing existing infrastructure would save up costs and shorten TTM



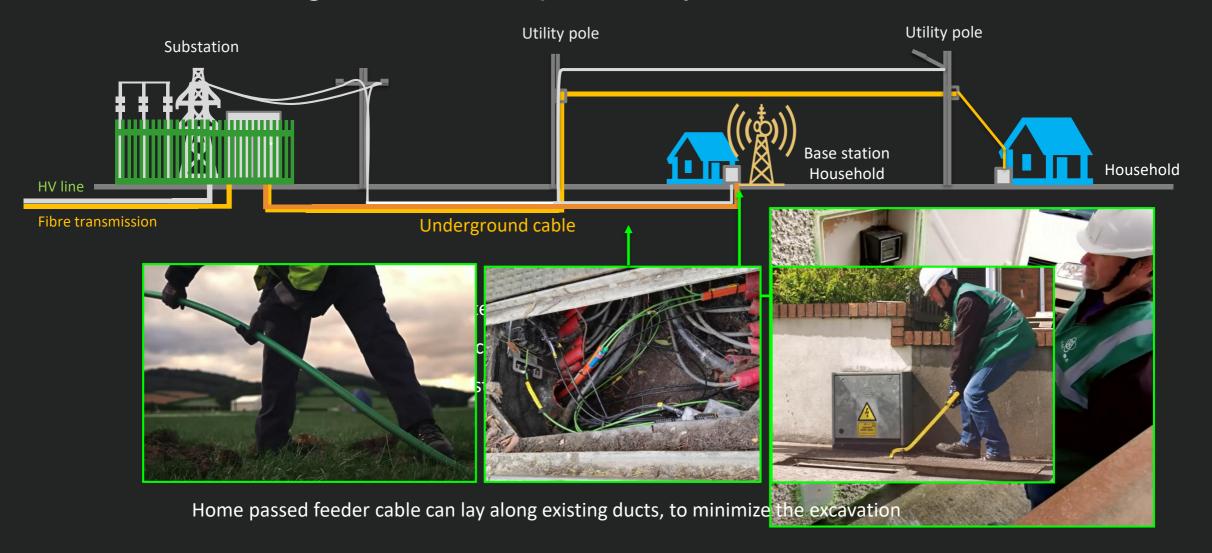
Pole sharing for aerial cabling makes fiber rollout more efficient



Home passed feeder laid Fild congliptoribent librareterm i Darb fix conduction from pustibility pole

Terminal box

Duct sharing enables the possibility to shorten Time-to-Market



Philippine: Government released "joint pole agreement"





Innovative and mature solutions enable the possibility of synergy

Mobile backhaul solution

Tiny box to support backhaul, 2B line and FTTH



Attach to pole solution

Best OLT solution for outdoor pole/mast installation



Fiber rollout solution

Best solution for both aerial and underground cabling



Insert the Cable and Rotate 45° to Get Lock, Plug and Play

