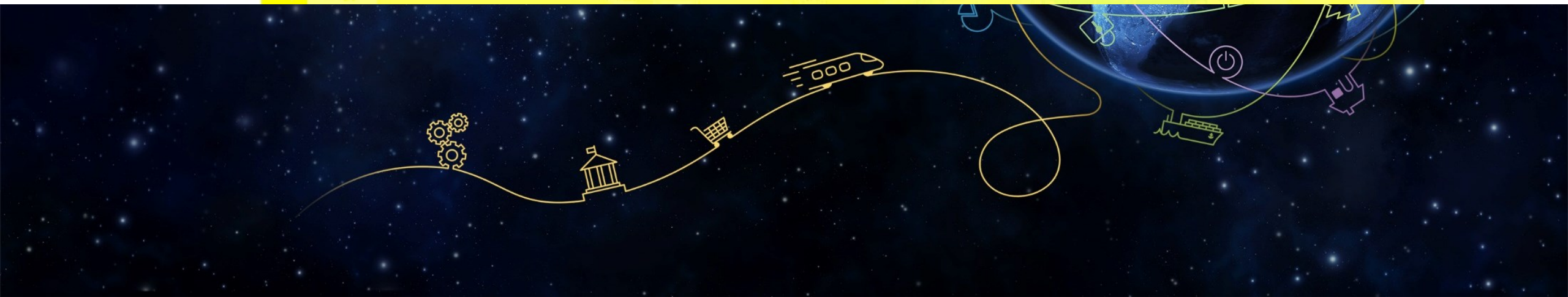
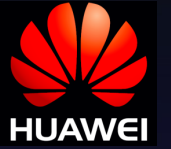




# *Boosting Development of Infrastructure to Enhance Digital Connectivity*





***The digital divide issue should include the gap of bandwidth supply and demand in which has already connected***

# 3 issues hamper operator's broadband investment



- Long **approval time**
- High and multiple **ROW acquisition fees**
- **ROW charge** less transparent / inconsistent among provincial and municipal governments



- High **civil work cost** : 55%~70% of ODN cost
- Lack of **infrastructure sharing policy** to mandate the reuse of existing ducts, poles for fiber rollout
- High **lease price**



- **Last mile monopolization** by incumbent or property management agency
- **Exclusive service agreement** between ISP and property management agency
- Lack of **construction standard and specification** for fiber pre-deployment from home

# Easy ROW accessibility and site acquisition



- Operators are entitled to access public ROW **free of charge** or by a **reasonable one-time expense**
- Government at all level shall **simplify ROW application** and **streamline approval procedure** to accelerate the delivery of broadband services
- Government at all level shall coordinate with investors on **public and private property acquisition, ground clearance and compensation** to facilitate the construction of broadband infrastructure

# Mandate infrastructure sharing and joint construction



- All public infrastructures have obligation to open for fiber rollout
- **Cross-ministerial collaboration** to specify the common use of public infrastructure should be well functioned
- **Planning construction project** must be laid with optical cables or ducts to ensure the installation of broadband infrastructure
- **A visible infrastructure database** should be set up for collaborated construction
- **Lease price of public infrastructure** should be regulated to minimize broadband cost

# Promote fiber pre-deployment from home



- **In-building infrastructure sharing** for fiber deployment should be enforced
- All **new constructed and refurbished buildings**, houses must be laid with optical cables and open to all operators
- **Construction Code & technical standard/specification** for the deployment of in-building optical cables should be put in place
- The **exclusive access agreement** between condominium and ISP should be prohibited
- Residences that have built optical fiber can open all operators at a fee on cost basis



**THANK YOU**