

### Different models of government supported national fibre initiatives Case study of Qatar Q.NBN and Singapore NBN

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- 1. Why are governments investing in national fibre network projects?
- 2. What are the different models available and how they compare?
- 3. What have others done? Singapore vs Qatar
- 4. How to chose the right model?



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## Declaration of broadband and access to the internet as a basic human right

United Nations – 2011 Human Right Council Report



## National fibre network is critical piece of infrastructure

Access to high speed broadband is linked with the economic prosperity of the country

Main Goals		
	<b>(</b> ::	
Broadband adoption	90%	90%
ICT contribution to GDP	<b>x2</b> (\$26 bil)	<b>x2</b> (\$3 bil)
ICT jobs increase	<b>66%</b> (80K adds)	<b>100%</b> (20K adds)

Source: IDA Singapore and ictQatar

Stimulating demand and supporting the national rollout are key initiatives and part of every national ICT plan





## Operators usually don't have the commercial justification for doing it nationally

Nationwide roll-out is very expensive. Business case payback period is usually more than 10 years



Source: Yankee Group. Based on 1000 USD cost per home / 45% margin and 12.5% WACC More than 50% of the costs are in the civil works. Duct reuse could vary things a lot



Source: Alcatel-Lucent



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## Governments have usually two levers they could use

#### **1. Financial involvement**

- National level subsidy
- Local government support usually as gap filler where operators can't afford

#### 2. Regulatory measures

- Regulatory holidays
- Regulatory access
- Separation (structural/functional)
- Nationalising the assets and creating government utility



## Models differ in the level and scope of government involvement



Source: Salience analysis



## Regulatory exclusivity is the only model that works without government subsidy



**Regulatory outcome** 

Source: McKinsey Analysis



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## Singapore had great vision but long road to success



#### Next Gen NETCO

Passive Network Infrastructure company Government grant of US 500 mil

#### **Operating model**

- Structural separation from SingTel to ensure Open Access
- Natural Monopoly
- High barrier of entry/replication

#### Targets

- > 50% coverage by 2012
- Universal service by 2015

### 

#### Next Gen OPCO

Active Network company Government grant of US 170 mil

#### **Operating model**

- Operational separation from Starhub to ensure Open Access
- Likely to have multiple OPCOs
- Medium barrier of entry/replication

#### Targets

- > 330K residential subs by 2015
- 80K non-residential subs by 2015

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#### Main challenges/lessons

- Selected the right model for their country open access, consortium approach
- The bid was open to external parties knowledge transfer through consultations
- Took much longer than anticipated by the government 3 years to award
- Shaping the incumbent involvement was difficult and highly political
- NetCo issues with in-home cabling
- OpCo issues with meeting surge of demand

## NetCo – carefully crafted consortium





## Qatar is great example of government support



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## Qatar: Positive start but a lot of unknowns

#### **Potential issues**

- Duct asset identification and transfer from QTel and other government entities (Ashqal)
- Q.NBN is new entity with new team and no operator background
- Take-up is a target but its not clear how Q.NBN could achieve this
- Delays are likely most government projects are over optimistic at the beginning

#### Likely outcome

#### **Qtel: negative / neutral**

Expected to lose market share quicker than in normal circumstances. Potential to build leaner service oriented company.

#### Vodafone: positive / neutral

Quicker access to new customers then building own network. Government delays could affect service plans negatively and impact brand.

#### 3rd player: positive

Unclear yet but the availability of regulated infrastructure should help

#### End users: positive

Availability of high speed connections at lower price. Possible disruption from the roll-out.



## Comparative analysis – Qatar vs Singapore

	Singapore Shad		Notes
Population density (People/km2)	7,315	123	Singapore has 3 times more population, urban space is mainly multi-storey buildings
Subsidy per household	\$437	\$706	Higher costs are consequence of different geography
Rollout plans (years)	7	4	Qatar has very aggressive targets
Model	Independent NetCo & Opco	Government established NetCo	Singapore spend 3 years selecting the right model and doing competitive RFP
WEF Networked Readiness rank in 2011/2010	2/2	25/30	State of various factors related to ICT development



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## Planning is key so do your homework

- Analyse your country specific factors there is no one-size fits all solution
- Create financial business cases for the various alternatives
- Choose wisely importing international experience vs local knowledge, interest of existing players
- Make it big and bold plan it around national ICT strategy
- Learn from other mistakes you could observe why others have succeeded or failed
- You don't need all the answers from day one Singapore was shaping the framework through its competitive consultation process for years
- Implementation needs to be rigorous running multiple networks is chaos, digging roads to deploy fibre could be very disruptive



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