

Netlink NBN Trust

The fibre landlord

SINGAPORE |TELECOMMUNICATION | INITIATION

- Sole network provider of residential fibre broadband in Singapore
- Stable and recurrent cash-flows from a customer base of 1.3mn
- Future growth from NBAP and non-residential end-user connections
- We initiate coverage on NLT with a target price of S\$0.89. We used a DCF approach in our valuation because of the regular stream of cash generated from NLT's fibre business. Our valuation is based on a WACC of 6% and a terminal growth rate of 1%.

Company background

Netlink NBN Trust (NLT) is the only fibre network with nationwide residential coverage in Singapore. NLT designs, builds, owns and operates the passive fibre network infrastructure which includes ducts, manholes, fibre cables and central offices. As of 31 December 18, NLT supports close to 1.3mn residential end-user connections and more than 45,000 non-residential end-user connections and 1,462 Non-Building Address Point (NBAP) across Singapore. NLT owns more than 16,000 km of ducts, 62,000 manholes, 76,000 km of fibre cables and 33,000sqm of co-location space.

Investment thesis

- 1. Sole network provider of residential fibre broadband in Singapore. NLT nationwide residential coverage in Singapore accounts for about 60% of its revenue. The asset base of more than S\$3bn and the duration needed to build a comparable network across Singapore, will pose a major barrier to entry. Any meaningful return on investment would be a challenge without similar financial assistance from the Singapore government. Under iN2015, NLT received an aggregate grant worth of S\$732mn.
- Stable and predictable revenue stream. We believe NLT enjoys a resilient business model 2. because the majority of its revenue is derived from recurring subscription fees (~67%) from residential and non-residential fibre connections. In the long run, the residential segment is pegged to new homes build or population growth. Growth could also stem from dual fibre connections per household. Cancellation of connections is rare. In the medium term, growth in residential connections is being propelled by migration of legacy Asymmetric Digital Subscriber Line (ADSL) and Hybrid Fibre Coaxial (HFC) connections to fibre. We project the residential segment to grow 11.5% to 1.4mn connections and the nonresidential segment to grow 5.3% YoY to 48,800 connections in FY20e.
- Future growth from NBAP and non-residential connections. Although revenue contribution 3. from NBAP is still modest (~2% of revenue) we expect government smart nation initiatives to propel growth. We project a 41% YoY growth rate in FY20e. Non-residential connections provide an additional avenue for growth. Demand is expected to come from SMEs as they upgrade to fibre for cloud-based applications. However, there is competition from retail service providers (RSPs) with their own fibre infrastructure and competes directly with NLT. Hence, we are more conservative with our projections and give a 5.3% YoY growth rate for FY20e.

We initiate coverage on NLT with a target price of S\$0.89

We initiate coverage on NLT with a target price of \$\$0.89. We used a DCF approach in our valuation because of the regular stream of cash generated from NLT's fibre business. Our valuation is based on a WACC of 6% and a terminal growth rate of 1%.



27 March 2019

ACCUMULATE(Initiation)

SGD 0.825
SGD 0.047
SGD 0.890
13.5%

COMPANY DATA

O/S SHARES (MN):	3,897
MARKET CAP (USD mn / SGD mn):	2380 / 3215
52 - WK HI/LO (SGD) :	0.83 / 0.73
3M Average Daily T/O (mn) :	5.89

MAJOR SHAREHOLDERS (%)

Singtel Interactive P te Ltd

24.8%

PRICE PERFORMANCE (%)

	1M T H	3 M T H	1Y R
COMPANY	2.5	6.5	6.7
STIRETURN	(2.5)	4.7	(3.5)

PRICE VS. STI



Source: Bloomberg, PSR

KFY	FINAN	ICIALS
IXE I	FINAI	VCIAL3

Y/E Mar, SGD mn	F Y 17	F Y 18	FY 19 e	FY20e
Revenue	299	229	357	393
EBITDA	214	167	247	268
Net Profit	79	50	77	92
Distribution Yield	2.5%	4.0%	5.7%	6.4%
ROE (x)	2.6%	1.6%	2.4%	3.0%
ROA (x)	1.9%	1.1%	1.8%	2.1%

Source: Company, PSR

VALUATION METHOD

DCF (WACC: 6%, Terminal growth: 1%)

Alvin Chia	(+65 6212 1852)
Research Analyst	
alvinchiawv@nhill	in com sø

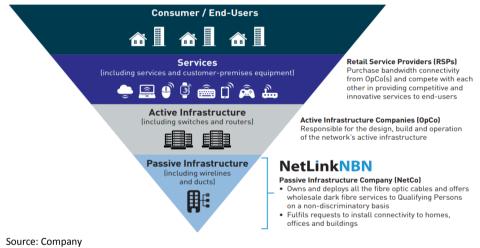
Drivers of the demand for fibre

- 1. Increased data consumption. Increasing demand for high speed and low latency broadband service for online video streaming and audio services, video communications, cloud service and internet of things.
- 2. Growth in market size. Growth in population, household and residential premises, demand for multiple subscriptions, growth in enterprises and office space, demand from mobile telco operators.
- **3.** Migration from older technologies to fibre. Migration of users from older broadband technology such as ADSL and HFC. Starhub will contribute ~80,000 migrations in 2019.

4. Government initiatives.

- COPIF 2013: New residential units with planning permit after May 2013 are required to have at least one fibre termination point pre-installed
- Increase in number of hotspots for Wireless@SG
- Fibre Ready Scheme: Subsidised one-time installation for in-building fibre for nonresidential
- Grants to improve productivity and performance of SMEs through adopting new technology

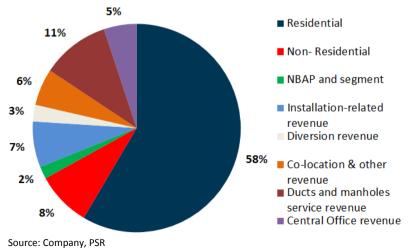
Figure 1: Industry structure



Revenue

NLT has two streams of revenue namely fibre and non-fibre. Fibre revenue includes residential, non-residential, NBAP, installation-related, diversion and co-location. Non-fibre includes ducts & manholes service revenue and central office revenue. ~80% of revenue is regulated under the Regulated Asset Base (RAB) model. (see regulated pricing)

Figure 2: Revenue breakdown as at 3Q19



Timeline

2008 – OpenNet established as a consortium among Singtel, SPH, SP telecom and Axia NetMedia corp

2009 – Issued licence by IMDA to install, operate and maintain the passive infrastructure and systems of the Next Gen NBN

2011 – NLT was established. Majority of the passive non-fibre infrastructure assets comprising underground ducts, manholes, and central offices were transferred to NLT from Singtel

2012 – Next Gen NBN was deployed to 95% of all residential homes and non-residential premises

2013 – NLT acquired OpenNet increased its assets to include OpenNet's fibre network

2014 – Additional passive non-fibre infrastructure were transferred to NLT from Singtel Integration of fibre infrastructure and related Singtel assets into NLT was completed

2016 - One million home subscribers

2017 – Remaining passive non-fibre infrastructure assets were transferred to NLT from Singtel, NetLink NBN Trust was established, listed on mainboard of the SGX





Fibre business

Residential (58% of revenue) - RAB

Residential fibre currently supports 1.28mn fibre end user connections. Each end user typically pays a monthly recurring charge (MRC) for the use of NLT fibre network through an RSP like Singtel (Figure 3). This revenue becomes the core of NLTs stable and predictable revenue stream. We project residential connections to grow 11.5% to 1.43mn by FY20e. The growth is attributable to migration of older technologies like ADSL and HFC to fibre connecting up remaining ~2% of Singapore's residential network. According to Media Partners Asia (MPA) an industry consultant, Singapore will reach the 100% coverage for fibre connection by 2020. In the long run, we expect growth to be pegged to organic household growth or population growth. Hence, we have incorporated growth from new homes built into our model including after reaching 100% coverage (~20,000 homes/ year).

Non-Residential (8% of revenue) - RAB

As of 3Q19 there are 45,734 connections to businesses, shopping malls, hospitals and schools, and these non-residential customers pay S\$55/mth (Figure 3). NLT is well positioned to benefit from growth in this segment because of its extensive network that allows access to non-residential end users in a cost-efficient manner. In the medium term, we expect the segment to benefit from government initiatives and grants like the Fibre Ready Scheme to promote improvement in productivity through digitisation. RSPs have their very own fibre infrastructure and compete directly with NLT. We assume a more conservative growth to non-residential of 5.3% YoY in FY20e.

Non-Building Address Point (2% of revenue) - RAB

NBAP refers to a location that does not have a physical address or assigned postal code. Such locations can include bus stops, lamp posts, multi-storey carparks and traffic lights. NLT typically charges S\$73.8 per NBAP connection (Figure 3). NBAP is used for applications such as wireless network base stations, cameras and sensors. These connections are essential in collecting real-time data from a network of sensors (e.g. monitoring weather conditions). Contributions from NBAP are still modest and we expect government initiatives like the next phase of wireless@SG, potential introduction of Heterogeneous network (HetNet) and 5G network to propel growth. We project a 41% YoY growth in NBAP connections to 2,063 from 1,462 in FY20e. We expect higher growth and demand for NBAP connections with the progressive rollout of smart nation programmes.

Figure 3: MRC paid thru RSPs

Monthly recurring charge for fibre	(S\$)
Residential	13.8
Non- Residential	55
NBAP and segment	73.8

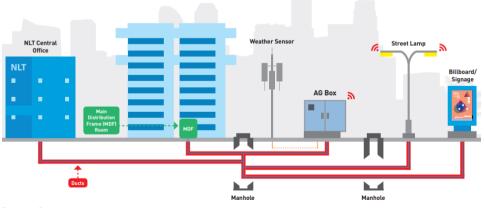
Source: Company

Figure 4: Smart nation initiatives

		Agencies:
1.	Smart Mobility 2030	LTA
2.	Smart HDB Town Framework	HDB
3.	Integrated Estate Management System	JTC

Source: Company

Figure 5: Example of NBAP connections



Source: Company

Installation (7% of revenue) - Non-RAB

Installation related revenue comprises of one-time charges for the installation of a termination point at residential, non-residential and NBAP connections. Charges include new, relocation, repair, replacement or removal of existing termination points and fibre. Installation charges (Figure 6) and new service activation charges are typically paid by RSPs. New service activation charges are \$\$53 and \$\$64 per connection for residential and non-residential/NBAP respectively.

Figure 6: Installation charges

	(55)
Residential	
High-rise	150
Landed	270
Non- Residential	
CO to termination point	717
CO to Vertical telecom riser	494
Source: Company	



Diversion (2% of revenue) - Non-RAB

Diversion revenue is generated upon request from third parties such as developers and the Land Transport Authority for the diversion of NLT's ducts, manholes and fibre cables. Diversions include events such as road works, construction of MRT infrastructure and tunnels and building construction. Diversion revenue is not predictable because of its ad hoc nature.

Co-location & others (6% of revenue) - Non-RAB

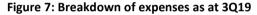
The growth in co-location revenue is based on overall end-user demand for fibre connection services. Mainly comprises of MRCs received from Requesting Licensees to use space in co-location rooms in central offices to store their equipment racks, power, cooling and project study works.

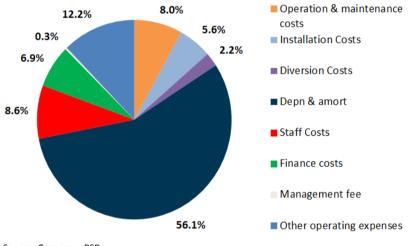
Non - Fibre business

Ducts & manholes & central office (15% of revenue)

Majority of Ducts & manhole service revenue is from Singtel. Sales are generated when Singtel uses the ducts & manholes spaces for its business needs. The central office revenue is mainly revenue received from Singtel for the leasing of space and equipment at the central offices for security, maintenance & administration. Ducts & manholes are under the RAB model while the central office is non-RAB.

Expenses







Operation & maintenance

Operation and maintenance costs include the maintenance expense of NLT's network of ducts & manholes, fibre and central office, utilities, property management fees and warehouse management fees.

Installation costs & Diversion costs

Installation costs are driven by residential, non-residential and NBAP end user connections. Costs should be in tandem with installation revenues. Diversion expenses are pegged to diversion revenue and it tracks close to 70% of revenue.

Depreciation & amortisation

NLT possesses significant investments in its fibre infrastructure which translates into high depreciation charges. Depreciation is the largest expense item, accounting for 56% of the total expense. NLT uses straight-line depreciation method for its network assets that have a useful life ranging from 23 - 50 years. Amortisation of license fees totals S\$10mn p.a. using the straight-line method over 23 years. There is no impact on distributions as these items are non-cash in nature.



Staff Costs

Staff cost is rising due to increasing headcount attributed to larger scale of NLT's operations. Staff costs have crept up since IPO from 7% to 8% of total expenses. We expect staff costs to remain stable in FY20e.

Balance sheet

Property Plant & Equipment (PPE)

Given NLT's extensive network infrastructure, PPE is the largest item in its balance sheets. NLT's PPE comprises of more than 16,000km of ducts, 62,000 manholes and 76,000 fibre cables. Alongside with leasehold land and buildings, exchange equipment, furniture, fittings and equipment and motor vehicles. Useful life ranges from 23-50 years for network assets.

Loans

Net gearing is expected to be 13% in FY20e. The loans are mainly committed revolving credit facility (RCF) and term loans. The S\$210mn 3-year RCF matures in June 2020 and the S\$510mn term loan matures in March 2020.

Regulated pricing

Interconnection offers (ICO) are prices set by Info-communications Media Development Authority (IMDA) and are regulated using the RAB model. Current prices are subjected for review in 2022.

NLT can recover these cost components:

- 1. Return of capital deployed (e.g. depreciation)
- 2. Operating expenditure
- 3. Return on capital employed

Assumptions in the RAB model:

- (a) Base year of RAB is 2012. Assets purchased up to and including 2012 are valued at 2012 prices, assets purchased after 2012 are valued at actual cost. Depreciation for useful life for ducts & manholes is 35 years and fibre is 25 years.
- (b) The return on capital is based on nominal pre-tax weighted average cost of capital (WACC) derived using the Capital Asset Pricing Model (CAPM) approach. Pre-tax WACC is 7% starting Jan 18. IMDA may change pre-tax WACC in the future. IMDA can also conduct mid-term adjustment in the third year if there are significant changes in cost inputs or demand forecasts due to unforeseen circumstances.

Formula:

Nominal Pre-tax WACC = Cost of equity X (1 - gearing) + Cost of debt X gearing (1 - tax)

Tax Savings

Under the Singapore Income Tax Act, NLT will qualify for qualifying project debt securities (QPDS) because of the S\$1.1bn (at 10.5% fixed interest rate p.a.) issue of NLT notes. The interest expense is tax deductible for NLT, interest income received by the trust will be tax exempted. The tax savings will contribute to higher distributions to unitholders.

Distribution

NLT's distribution policy is to distribute at least 90% of its distributable income to the trust. The Trust's distribution policy is to distribute 100% of its Cash Available for Distribution (CAFD). We forecast \$\$180mn CAFD to unitholders in FY19e. Distribution yield works out to be 5.7% as of current stock price.



Risk factors

Revenue volatility. There are three types of revenue that are relatively more volatile. Firstly, non-residential may face increased competition from RSPs. Secondly, installation-related revenue varies with the number residential, non-residential and NBAP connections. Thirdly, diversion revenue is ad hoc in nature and dependent on property and infrastructure projects. Note these revenues are only approximately 13% of total revenue.

Change in ICO. There will be a review of the average cost of capital WACC of 7% in 2022. Anh downward revision in WACC will impact NLT's regulatory pricing. In our opinion, the current rising interest rate environment will offset any downward pressure on WACC.

Failing to meet the quality of service standards. Potential losses of revenue or fines from IMDA could incur.

Unforeseen CAPEX. Although NLT is required to set aside S\$8mn a year for regulatory CAPEX reserve, huge spikes in CAPEX would impact distributions to unitholders.



Investment thesis

- Sole network provider of residential fibre broadband in Singapore. NLT nationwide residential coverage in Singapore accounts for about 60% of its revenue. The asset base of more than S\$3bn and the duration needed to build a comparable network across Singapore, will pose a major barrier to entry. Any meaningful return on investment would be a challenge without similar financial assistance from the Singapore government. Under iN2015, NLT received an aggregate grant worth of S\$732mn.
- 2. Stable and predictable revenue stream. We believe NLT enjoys a resilient business model because the majority of its revenue is derived from recurring subscription fees (~67%) from residential and non-residential fibre connections. In the long run, the residential segment is pegged to new homes build or population growth. Growth could also stem from dual fibre connections per household. Cancellation of connections is rare. In the medium term, growth in residential connections is being propelled by migration of legacy Asymmetric Digital Subscriber Line (ADSL) and Hybrid Fibre Coaxial (HFC) connections to fibre. We project the residential segment to grow 11.5% to 1.4mn connections and the non-residential segment to grow 5.3% YoY to 48,800 connections in FY20e.
- **3.** Future growth from NBAP and non-residential connections. Although revenue contribution from NBAP is still modest (~2% of revenue) we expect government smart nation initiatives to propel growth. We project a 41% YoY growth rate in FY20e. Non-residential connections provide an additional avenue for growth. Demand is expected to come from SMEs as they upgrade to fibre for cloud-based applications. However, there is competition from retail service providers (RSPs) with their own fibre infrastructure and competes directly with NLT. Hence, we are more conservative with our projections and give a 5.3% YoY growth rate for FY20e.

Valuation

NLT resilient business model ensures limited volatility to its sales and its cost base. We used a DCF approach in our valuation because of the regular stream of cash generated from NLT's fibre business. Our valuation is based on a WACC of 6% and a terminal growth rate of 1%.

Financials

Per unit data (SGD Cents)

Y/E Mar

DPU

BVPU

Cash Flow

CFO

Y/E Mar, SGD '000

Profit before tax

Cash generated from ops

Cashflow from investments

Cashflow from ops

Share issuance, net

Distributions

Others

Loans, net of repayments

Cashflow from financing

Net change in cash

Adjustments

WC changes

Tax paid

Others

Others

<u>CFF</u>

<u>CFI</u> CAPEX, net

EPU, reported

Income Statement				
Y/E Mar, SGD '000	FY17	FY18	FY19e	FY20e
Revenue	299,160	228,587	357,200	392,712
Operating Profit	80,765	55,416	87,834	107,306
EBITDA	213,776	167,275	246,666	268,202
Depreciation & Amortisation	143,319	111,811	158,629	160,379
EBIT	70,457	55,464	88,036	107,822
Net Finance Inc/(Exp)	(10,087)	(12,180)	(20,110)	(21,717)
Profit before tax	70,794	43,809	68,891	87,030
Taxation	8,636	6,141	7,639	5,001
Net profit, reported	79,430	49,950	76,529	92,031

FY17

2.0

2.1

78.8

FY17

70,794

153,245

(13,781)

210,258

(10,012)

(4,672)

195,574

(117,275)

-

_

-

-

(80,000)

(80,000)

(1,701)

(117,275) (1,307,225)

FY18

1.3

3.2

81.5

FY18

43,809

120,964

25,075

189,848

(20,407)

(10,985)

158,456

(212,181)

(1,095,044)

2,334,718

(1,019,477)

1,315,218

166,449

-

FY19e

2.0

4.7

80.2

FY19e

68,891

177,775

15,400

262,066

(20,110)

(6,703)

235,252

(75,000)

(75,000)

30,026

(126,262)

(96,236)

64,016

_

-

FY20e

2.4

5.3

77.9

FY20e

87,030

181,171

(4,786)

263,416

(21,717)

(6,743)

234,956

(70,000)

(70,000)

49,459

(182,278)

(132,820)

32,136

262,601

-

ROE (%)

ROA (%)

Distribution yield (%)

Debt/EBITDA (X)

Y/E Mar, SGD '000	FY17	FY18	FY19e	FY20e
ASSETS				
PPE	3,059,509	3,210,668	3,127,039	3,036,659
Others	1,098,012	928,249	928,249	928,249
Total non-current assets	4,157,521	4,138,917	4,055,288	3,964,908
Accounts receivables	55,532	63,511	71,878	83 <i>,</i> 827
Cash	15,929	166,449	230,465	262,601
Inventories	5,499	3,889	6,760	7,055
Finance lease receivables	194	208	208	208
Total current assets	80,082	238,133	313,387	357,767
Total Assets	4,237,603	4,377,050	4,368,675	4,322,675
LIABILITIES				
Accounts payables	87,222	48,374	75,012	82,470
Deferred revenue	2,387	12,485	12,485	12,485
Tax payable	13,159	0.00	0.00	0.00
Total current liabilities	102,768	60,859	87,497	94,955
Long term loans	507,604	588,742	618,768	668,226
Deferred tax liabilites	546,603	552,827	537,520	524,852
Total non-current liabilities	1,064,020	1,141,813	1,156,532	1,193,322
Total Liabilities	1,166,788	1,202,672	1,244,029	1,288,277
Unitholders' funds				
Unitholders' funds	3,070,815	3,174,378	3,124,645	3,034,399
	-,,	-, ,,	-,,	-,,
Valuation Ratios				
Y/E Mar	FY17	FY18	FY19e	FY20e
P/E (X)	39.7	64.0	42.0	34.9
P/B (X)	1.0	1.0	1.0	1.1
EV/EBITDA (X)	17.1	21.6	14.6	13.5
Growth & Margins				
<u>Growth</u>				
Revenue	-	-23.6%	56.3%	9.9%
EBITDA	-	-21.8%	47.5%	8.7%
EBIT	-	-21.3%	58.7%	22.5%
Net profit, adj.	-	-37.1%	53.2%	20.3%
<u>Margins</u>				
Gross margin	27.0%	24.2%	24.6%	27.3%
EBITDA margin	71.5%	73.2%	69.1%	68.3%
EBIT margin	23.6%	24.3%	24.6%	27.5%
Net profit margin	26.6%	21.9%	21.4%	23.4%
Key Ratios				

2.6%

1.9%

2.5%

2.3

1.6%

1.1%

4.0%

3.5

2.4%

1.8%

5.7%

2.5

3.0%

2.1%

6.4%

2.5

CCE, end	15,929	166,449	230,465
Source: Company, Phillip Securities Research (Singapore) Estimates			

*Forward multiples & yields based on current market price; historical multiples & yields based on historical market price.

Netlink NBN Trust Initiation

Balance Sheet









Important Information

This report is prepared and/or distributed by Phillip Securities Research Pte Ltd ("Phillip Securities Research"), which is a holder of a financial adviser's license under the Financial Advisers Act, Chapter 110 in Singapore.

By receiving or reading this report, you agree to be bound by the terms and limitations set out below. Any failure to comply with these terms and limitations may constitute a violation of law. This report has been provided to you for personal use only and shall not be reproduced, distributed or published by you in whole or in part, for any purpose. If you have received this report by mistake, please delete or destroy it, and notify the sender immediately.

The information and any analysis, forecasts, projections, expectations and opinions (collectively, the "Research") contained in this report has been obtained from public sources which Phillip Securities Research believes to be reliable. However, Phillip Securities Research does not make any representation or warranty, express or implied that such information or Research is accurate, complete or appropriate or should be relied upon as such. Any such information or Research contained in this report is subject to change, and Phillip Securities Research shall not have any responsibility to maintain or update the information or Research made available or to supply any corrections, updates or releases in connection therewith.

Any opinions, forecasts, assumptions, estimates, valuations and prices contained in this report are as of the date indicated and are subject to change at any time without prior notice. Past performance of any product referred to in this report is not indicative of future results.

This report does not constitute, and should not be used as a substitute for, tax, legal or investment advice. This report should not be relied upon exclusively or as authoritative, without further being subject to the recipient's own independent verification and exercise of judgment. The fact that this report has been made available constitutes neither a recommendation to enter into a particular transaction, nor a representation that any product described in this report is suitable or appropriate for the recipient. Recipients should be aware that many of the products, which may be described in this report involve significant risks and may not be suitable for all investors, and that any decision to enter into transactions involving such products should not be made, unless all such risks are understood and an independent determination has been made that such transactions would be appropriate. Any discussion of the risks contained herein with respect to any product should not be considered to be a disclosure of all risks or a complete discussion of such risks.

Nothing in this report shall be construed to be an offer or solicitation for the purchase or sale of any product. Any decision to purchase any product mentioned in this report should take into account existing public information, including any registered prospectus in respect of such product.

Phillip Securities Research, or persons associated with or connected to Phillip Securities Research, including but not limited to its officers, directors, employees or persons involved in the issuance of this report, may provide an array of financial services to a large number of corporations in Singapore and worldwide, including but not limited to commercial / investment banking activities (including sponsorship, financial advisory or underwriting activities), brokerage or securities trading activities. Phillip Securities Research, or persons associated with or connected to Phillip Securities Research, including but not limited to its officers, directors, employees or persons involved in the issuance of this report, may have participated in or invested in transactions with the issuer(s) of the securities mentioned in this report, and may have performed services for or solicited business from such issuers. Additionally, Phillip Securities Research, or persons associated with or connected to Phillip Securities Research, or persons associated with or connected to Phillip Securities Research, or persons associated with or connected to Phillip Securities Research, or persons associated with or connected to Phillip Securities Research, or persons associated with or connected to Phillip Securities Research, including but not limited to its officers, directors, employees or persons involved in the issuance of this report, may have provided to Phillip Securities Research, including but not limited to its officers, directors, employees or persons involved in the issuance of this report, may have provided in the issuance of this report, may have provided to Phillip Securities Research, including but not limited to its officers, directors, employees or persons involved in the issuance of this report, may have provided advice or investment services to such companies and investments or related investments, as may be mentioned in this report.

Phillip Securities Research or persons associated with or connected to Phillip Securities Research, including but not limited to its officers, directors, employees or persons involved in the issuance of this report may, from time to time maintain a long or short position in securities referred to herein, or in related futures or options, purchase or sell, make a market in, or engage in any other transaction involving such securities, and earn brokerage or other compensation in respect of the foregoing. Investments will be denominated in various currencies including US dollars and Euro and thus will be subject to any fluctuation in exchange rates between US dollars and Euro or foreign currencies and the currency of your own jurisdiction. Such fluctuations may have an adverse effect on the value, price or income return of the investment.

To the extent permitted by law, Phillip Securities Research, or persons associated with or connected to Phillip Securities Research, including but not limited to its officers, directors, employees or persons involved in the issuance of this report, may at any time engage in any of the above activities as set out above or otherwise hold an interest, whether material or not, in respect of companies and investments or related investments, which may be mentioned in this report. Accordingly, information may be available to Phillip Securities Research, or persons associated with or connected to Phillip Securities Research, including but not limited to its officers, directors, employees or persons involved in the issuance of this report, which is not reflected in this report, and Phillip Securities Research, or persons associated with or connected to Phillip Securities Research, including but not limited to its officers, directors, employees or persons involved in the issuance of this report, which is not reflected in this report, and Phillip Securities Research, or persons associated with or connected to Phillip Securities Research, including but not limited to its officers, directors, employees or persons involved in the issuance of this report, may, to the extent permitted by law, have acted upon or used the information prior to or immediately following its publication. Phillip Securities Research, or persons associated with or connected to Phillip Securities Research, including but not limited its officers, directors, employees or persons involved in the issuance of this report, may have issued other material that is inconsistent with, or reach different conclusions from, the contents of this report.

The information, tools and material presented herein are not directed, intended for distribution to or use by, any person or entity in any jurisdiction or country where such distribution, publication, availability or use would be contrary to the applicable law or regulation or which would subject Phillip Securities Research to any registration or licensing or other requirement, or penalty for contravention of such requirements within such jurisdiction.

This report is intended for general circulation only and does not take into account the specific investment objectives, financial situation or particular needs of any particular person. The products mentioned in this report may not be suitable for all investors and a person receiving or reading this report should seek advice from a professional and financial adviser regarding the legal, business, financial, tax and other aspects including the suitability of such products, taking into account the specific investment objectives, financial situation or particular needs of that person, before making a commitment to invest in any of such products.

This report is not intended for distribution, publication to or use by any person in any jurisdiction outside of Singapore or any other jurisdiction as Phillip Securities Research may determine in its absolute discretion.

IMPORTANT DISCLOSURES FOR INCLUDED RESEARCH ANALYSES OR REPORTS OF FOREIGN RESEARCH HOUSES

Where the report contains research analyses or reports from a foreign research house, please note:

- (i) recipients of the analyses or reports are to contact Phillip Securities Research (and not the relevant foreign research house) in Singapore at 250 North Bridge Road, #06-00 Raffles City Tower, Singapore 179101, telephone number +65 6533 6001, in respect of any matters arising from, or in connection with, the analyses or reports; and
- (ii) to the extent that the analyses or reports are delivered to and intended to be received by any person in Singapore who is not an accredited investor, expert investor or institutional investor, Phillip Securities Research accepts legal responsibility for the contents of the analyses or reports.

Netlink NBN Trust Initiation

Research Admin

Telco | Technology

syazwina@phillip.com.sg

Alvin Chia - alvinchiawy@phillip.com.sg

Tara Wong - tarawongsj@phillip.com.sg

REITs (Commercial, Retail, Healthcare) | Property

P PhillipCapital

Head of Research

Paul Chew - paulchewkl@phillip.com.sg

Banking and Finance Tin Min Ying – <u>tinmy@phillip.com.sg</u>

REITs Natalie Ong – <u>Natalieongpf@phillip.com.sg</u>

US Equity Edmund Xue – <u>edmundxuejj@phillip.com.sg</u>

SINGAPORE

Phillip Securities Pte Ltd Raffles City Tower 250, North Bridge Road #06-00 Singapore 179101 Tel +65 6533 6001 Fax +65 6535 6631 Website: www.poems.com.sg

JAPAN

Phillip Securities Japan, Ltd. 4-2 Nihonbashi Kabuto-cho Chuo-ku, Tokyo 103-0026 Tel +81-3 3666 2101 Fax +81-3 3666 6090 Website: www.phillip.co.jp

THAILAND

Phillip Securities (Thailand) Public Co. Ltd 15th Floor, Vorawat Building, 849 Silom Road, Silom, Bangrak, Bangkok 10500 Thailand Tel +66-2 6351700 / 22680999 Fax +66-2 22680921 Website www.phillip.co.th

UNITED STATES Phillip Capital Inc

141 W Jackson Blvd Ste 3050 The Chicago Board of Trade Building Chicago, IL 60604 USA Tel +1-312 356 9000 Fax +1-312 356 9005 Website: www.phillipusa.com

INDIA

PhillipCapital (India) Private Limited No.1, 18th Floor, Urmi Estate 95, Ganpatrao Kadam Marg Lower Parel West, Mumbai 400-013 Maharashtra, India Tel: +91-22-2300 2999 / Fax: +91-22-2300 2969 Website: www.phillipcapital.in

CAMBODIA Phillip Bank Plc

Ground Floor of B-Office Centre,#61-64, Norodom Blvd Corner Street 306,Sangkat Boeung Keng Kang 1, Khan Chamkamorn, Phnom Penh, Cambodia Tel: 855 (0) 7796 6151/855 (0) 1620 0769 Website: www.phillipbank.com.kh Contact Information (Singapore Research Team)

Oil & Gas | Energy Chen Guangzhi - <u>chengz@phillip.com.sg</u>

China/HK Equity Zheng Jieyuan – <u>zhengjy@phillip.com.sg</u>

Contact Information (Regional Member Companies) MALAYSIA Phillip Capital Management Sdn Bhd

B-3-6 Block B Level 3 Megan Avenue II, No. 12, Jalan Yap Kwan Seng, 50450 Kuala Lumpur Tel +603 2162 8841 Fax +603 2166 5099 Website: <u>www.poems.com.my</u>

> INDONESIA PT Phillip Securities Indonesia ANZ Tower Level 23B, JI Jend Sudirman Kav 33A Jakarta 10220 – Indonesia Tel +62-21 5790 0800 Fax +62-21 5790 0809 Website: www.phillip.co.id

FRANCE

King & Shaxson Capital Limited 3rd Floor, 35 Rue de la Bienfaisance 75008 Paris France Tel +33-1 45633100 Fax +33-1 45636017 Website: www.kingandshaxson.com

AUSTRALIA

Phillip Capital Limited Level 10, 330 Collins Street Melbourne, Victoria 3000, Australia Tel +61-03 8633 9803 Fax +61-03 8633 9899 Website: www.phillipcapital.com.au

TURKEY

PhillipCapital Menkul Degerler Dr. Cemil Bengü Cad. Hak Is Merkezi No. 2 Kat. 6A Caglayan 34403 Istanbul, Turkey Tel: 0212 296 84 84 Fax: 0212 233 69 29 Website: www.phillipcapital.com.tr HONG KONG Phillip Securities (HK) Ltd 11/F United Centre 95 Queensway Hong Kong Tel +852 2277 6600 Fax +852 2868 5307

Websites: www.phillip.com.hk

CHINA

Phillip Financial Advisory (Shanghai) Co Ltd No 550 Yan An East Road, Ocean Tower Unit 2318, Postal code 200001 Tel +86-21 5169 9200 Fax +86-21 6351 2940 Website: www.phillip.com.cn

UNITED KINGDOM King & Shaxson Capital Limited 6th Floor, Candlewick House, 120 Cannon Street, London, EC4N 6AS Tel +44-20 7426 5950 Fax +44-20 7626 1757 Website: www.kingandshaxson.com

SRI LANKA

Asha Phillip Securities Limited No. 60, 5th Lane, Colombo 3, Sri Lanka Tel: (94) 11 2429 100 Fax: (94) 11 2429 199 Website: www.ashaphillip.net

DUBAI

Phillip Futures DMCC Member of the Dubai Gold and Commodities Exchange (DGCX) Unit No 601, Plot No 58, White Crown Bldg, Sheikh Zayed Road, P.O.Box 212291 Dubai-UAE Tel: +971-4-3325052 / Fax: + 971-4-3328895