


Media Briefing

Selection of Next Generation NBN OpCo

3 April 2009



Programme

- 
- A. 5:00 pm – 5:10 pm** **Opening Remarks by Ms Yong Ying-I,
Chairman
Infocomm Development Authority of Singapore**
- B. 5:10 pm – 5:30 pm** **Presentation by Mr Khoong Hock Yun,
Assistant Chief Executive
(Infrastructure & Services Group)
Infocomm Development Authority of Singapore**
- C. 5:30 pm – 6:00 pm** **Question & Answer Session**

A

Opening Remarks by

Ms Yong Ying-I

Chairman

Infocomm Development Authority of Singapore

B

Presentation by

Mr Khoong Hock Yun

Assistant Chief Executive

(Infrastructure & Services Group)

Infocomm Development Authority of Singapore

Outline of Presentation

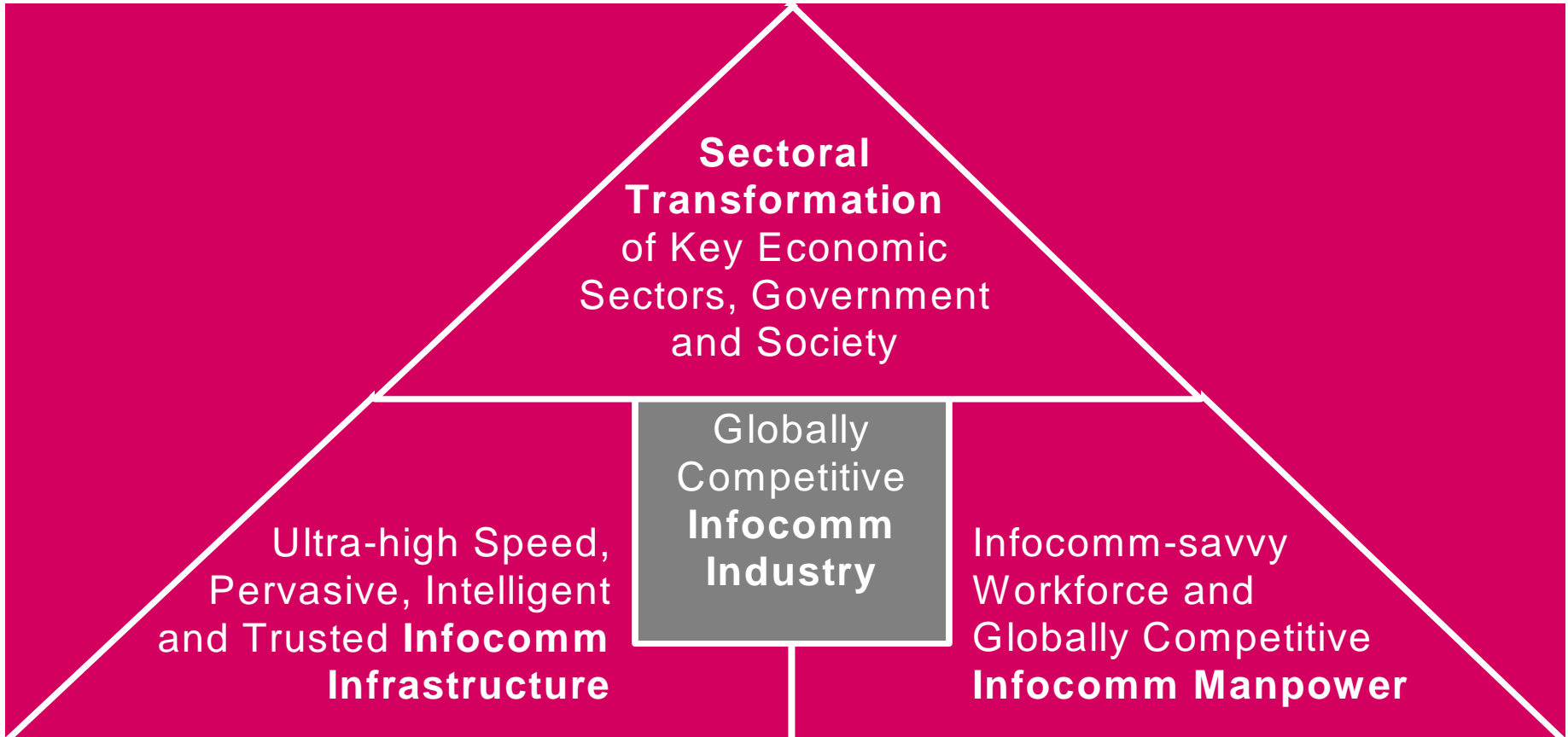
- 1. Recap of Next Gen NBN Project**
- 2. Operating Company Request for Proposal (OpCo RFP)**
- 3. Highlights of Selected Proposal**
- 4. Summary**

1

Recap of Next Gen NBN Project

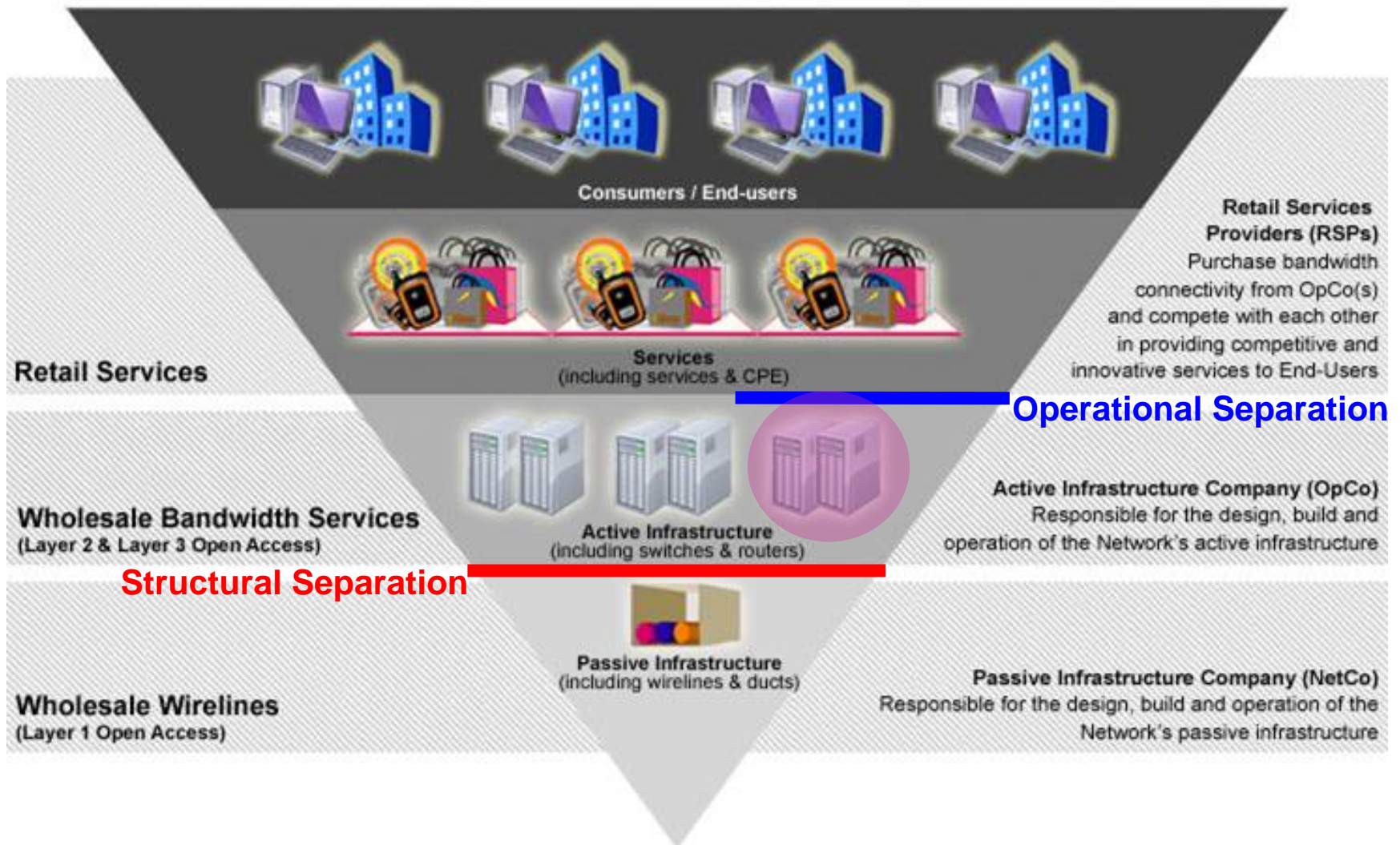
Recap of Next Gen NBN Project

iN2015 Masterplan

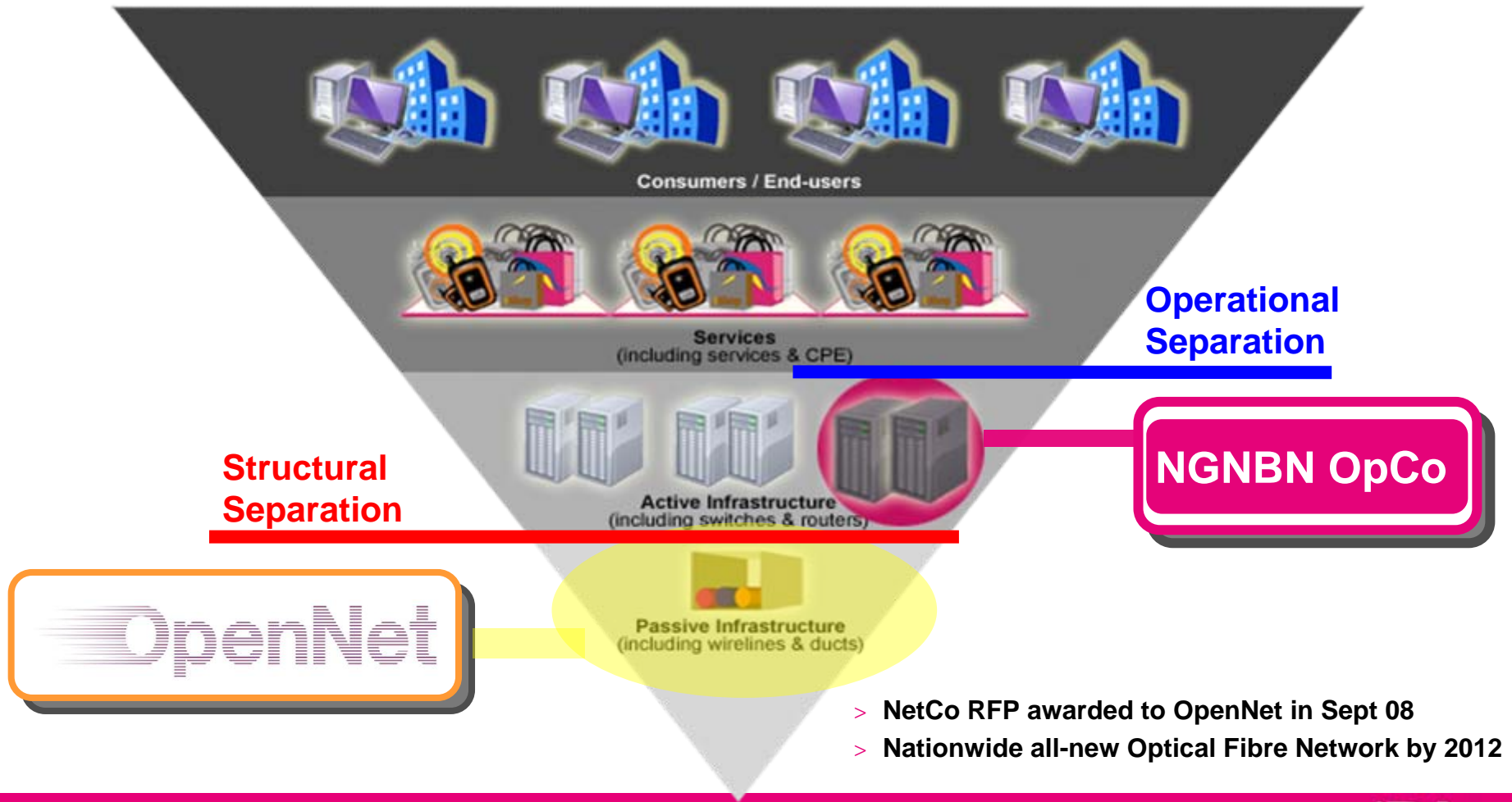


Recap of Next Gen NBN Project

Next Gen NBN Industry Structure

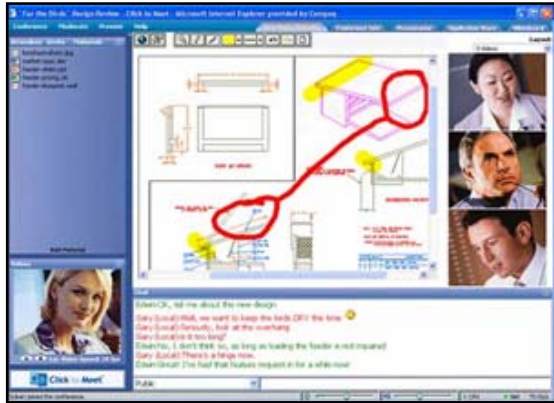


OpCo Services over OpenNet's Fibre Network



Recap of Next Gen NBN Project

Open Access Fosters Vibrant Broadband Market



Multiple video streams used in multi-party collaboration



Examples

- > **Multiplay services - combining Voice, Video and Data**
- > **High bandwidth:**
 - enhances Cloud Computing capabilities; and
 - lowers barrier for adoption of Software-as-a-Service (SaaS)
- > **Enables collaboration through high quality video conferencing (2D and 3D)**
- > **Greater choice of bandwidth services to meet the needs of business users**

Source: Gartner

Open Access Fosters Vibrant Broadband Market



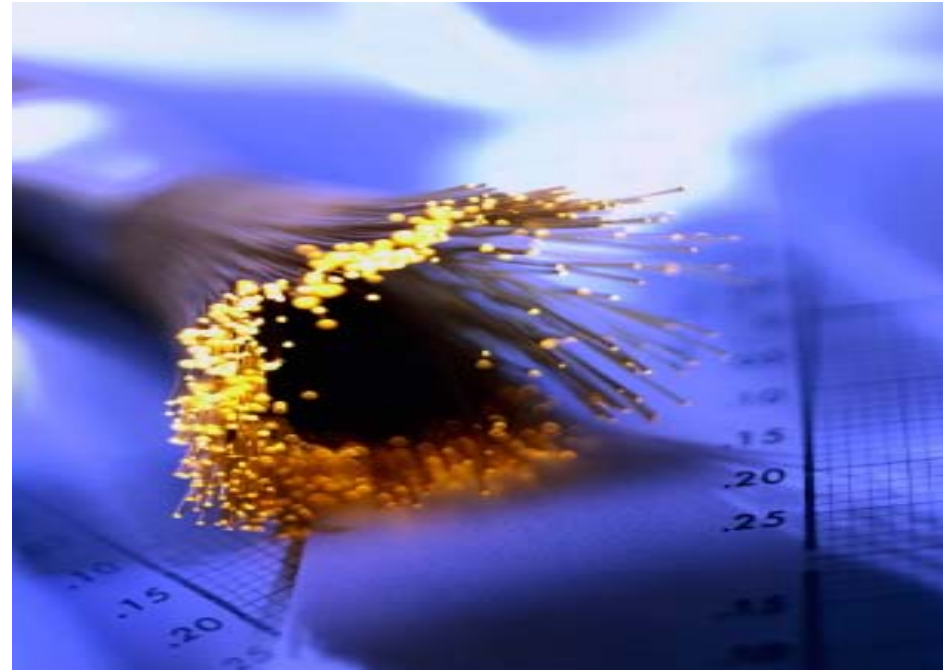
- > **High-speed symmetric broadband at affordable rates enables new teaching and learning paradigms**
 - Learning and sharing across borders
 - Immersive Learning



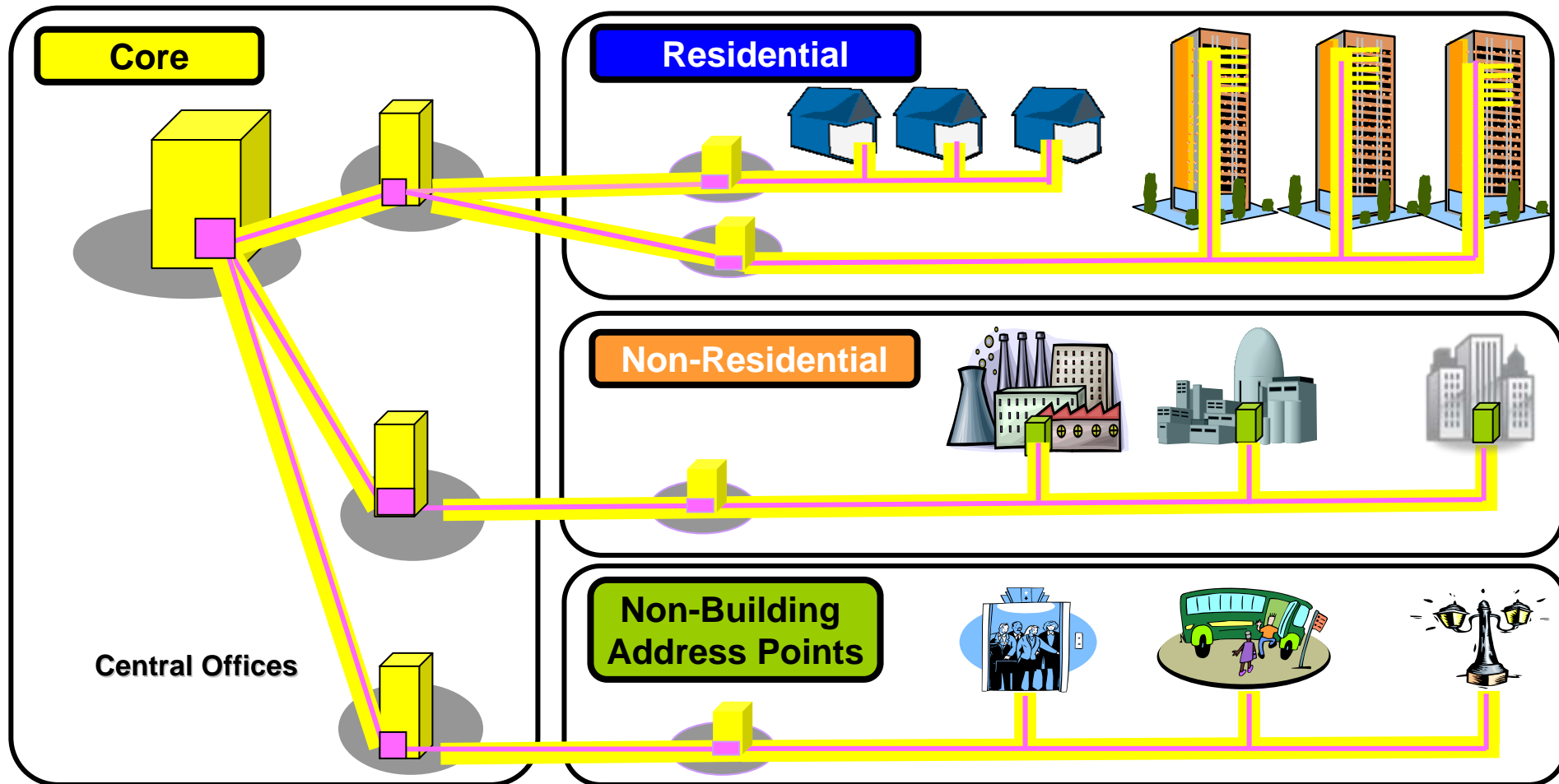
- > **New capabilities and services through interactive IPTV**
 - Multi-play
 - On-demand TV
 - Audience voting
 - Multiple camera views
 - New advertising models

Highlights of OpenNet's Proposal

- > **New, all-fibre network to the homes and businesses**
- > **Future-proof, capable of supporting more than 1 Gbps**
- > **Leverage existing underlying passive infrastructure assets, such as ducts, manholes and exchanges**



Highlights of OpenNet's Fibre Deployment



Recap of Next Gen NBN Project

Next Gen NBN Project Timeline

Budget 2006 Speech
17 Feb 2006



Committee of Supply
3 Mar 2006



Request for Concept (RFC)
Mar 2006

Phase 1 - Competitive Dialogue (CD)

**CD
Stage**

Competitive Dialogue with Pre-Qualified Bidders
Dec 06 – Nov 07

Phase 2 - Request for Proposals (RFP)

Next Gen NBN RFP

**NetCo
RFP**

11 Dec 07 – 26 Sep 08

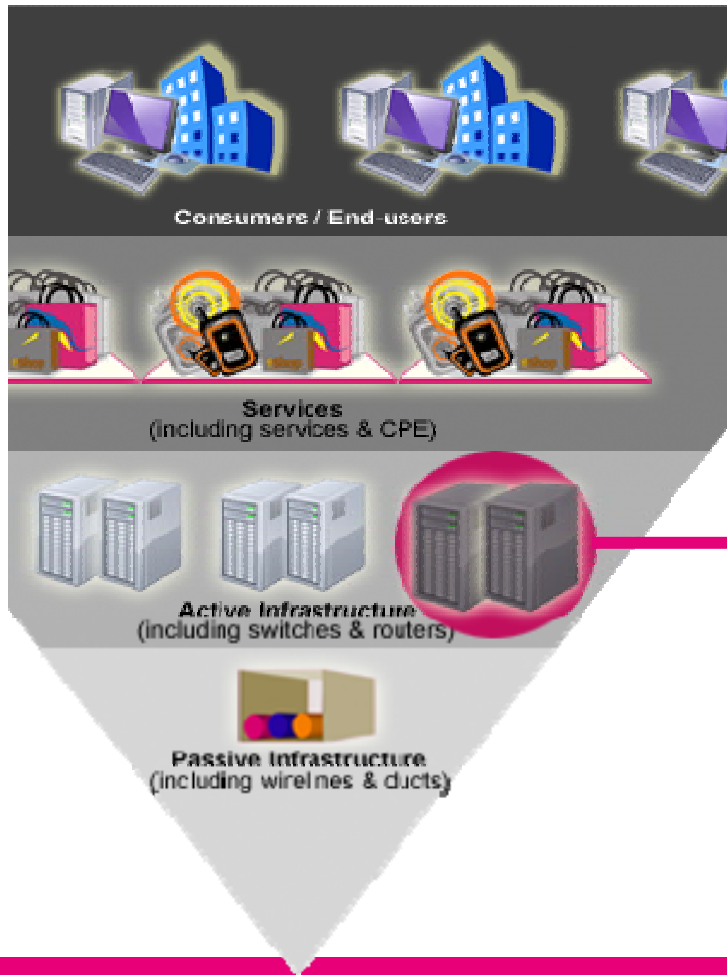
**OpCo
RFP**

7 Apr 08 – 3 Apr 09

2

Operating Company Request for Proposal (OpCo RFP)

Key Licence Obligations & Targets of Next Gen NBN OpCo



Key OpCo Obligations

- Operational Separation
- Interconnection Offer (ICO)
- Universal Service Obligation (USO)
- 25 year Licence period

Key OpCo Targets

- Adoption targets by Year 2015
 - 330,000 Residential subscribers
 - 80,000 Non-Residential subscribers

Government Support

- Up to \$250m Grant to catalyse further private sector investments

Operating Company Request for Proposal (OpCo RFP)

OpCo Proposals Received

> 4 proposals received on 5 Dec 2008:



Operating Company Request for Proposal (OpCo RFP)

OpCo Evaluation Criteria

Selection of OpCo Proposal to Generate Long Term, Sustainable, Competitive & Vibrant Broadband Market

1. Attractiveness of Wholesale ICO Price Terms to Industry (45%)

1.1 Competitiveness of Wholesale ICO Prices (40%)

1.1.1 Residential

1.1.2 Non-Residential

1.1.3 Non-Bldg Addresses

1.2 Competitiveness of ICO Price Controls (5%)

2. Attractiveness of Non-price ICO Terms to Industry (25%)

2.1 Attractiveness of ICO Terms & Conditions to RSPs (13%)

2.1.1 Ordering, Provisioning & De-activation

2.1.2 Planning & Forecast

2.1.3 Billing

2.1.4 Service Level Guarantees

2.2 Comprehensive -ness & Relevance of ICO Offerings (9%)

2.2.1 Basic Mandated Services

2.2.2 Ancillary & Basic Non-Mandated Services

3. Quality of Network Infrastructure (15%)

2.3 Other Business Plan Benefits (3%)

3.1 Capability of Network (11%)

3.1.1 Access Technology

3.1.2 Network Enhancements

3.1.3 Network Security & Management

4. Level of Government Support (15%)

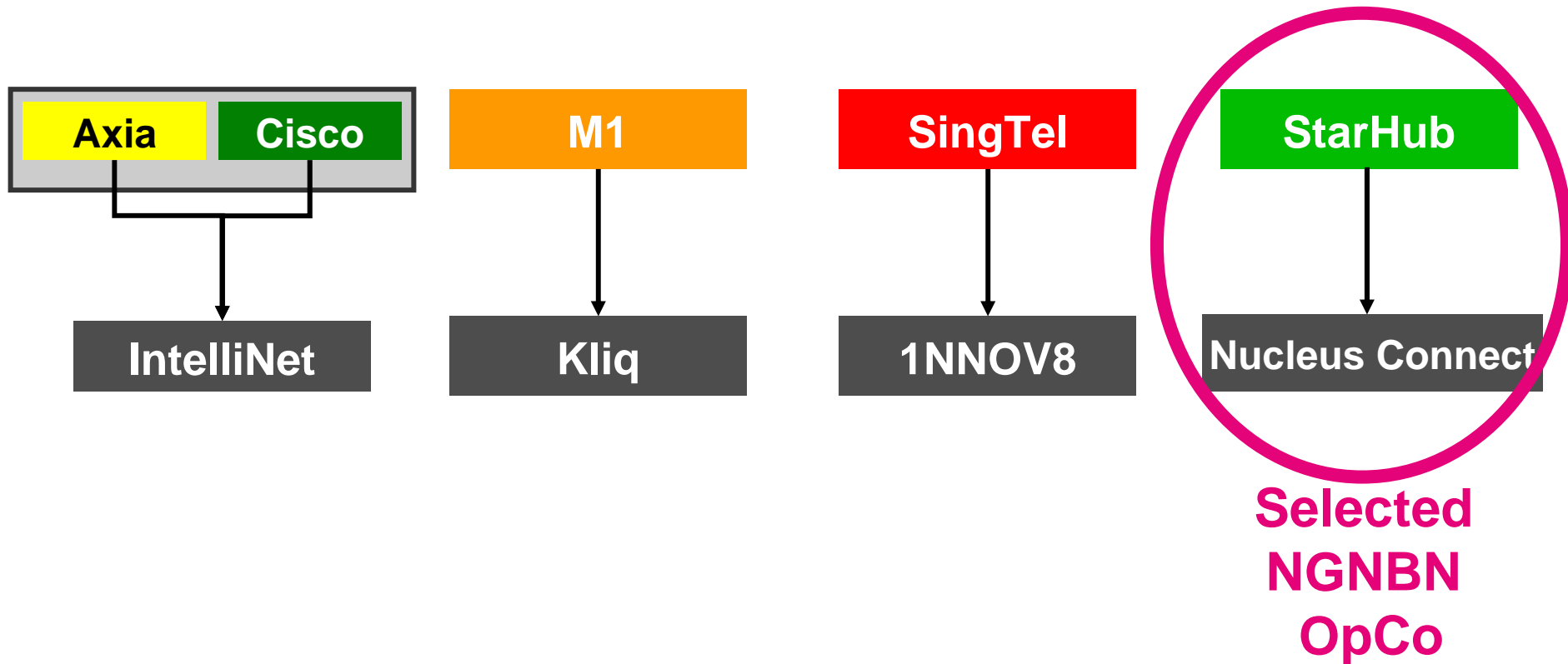
3.2 Scalability & Upgradeability of Network (4%)

3.2.1 Scalability

3.2.2 Upgradeability

OpCo Proposals Received

> 4 proposals received on 5 Dec 2008:



3

Highlights of Selected Proposal

Highlights of StarHub's Proposal

Operational Separation Requirements

StarHub



Nucleus Connect

- > Separate legal entity
- > Distinct & separate brand
- > Non-discriminatory treatment of all QPs

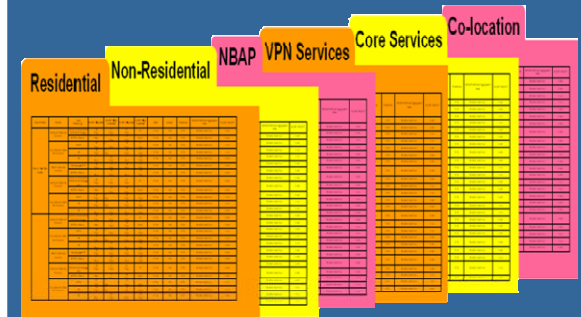
Financial Support

Up to S\$250 million

Grant Amount

S\$250M

Wholesale Service Offerings



Operational Separation Requirements

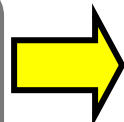
> StarHub's proposal meets the Operational Separation Requirements:

Equivalence of Input (EOI)



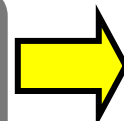
- > Treat all RSPs, including Affiliated Operators the same:
 - Provision of the same services and information

Independence of OpCo from its Affiliates



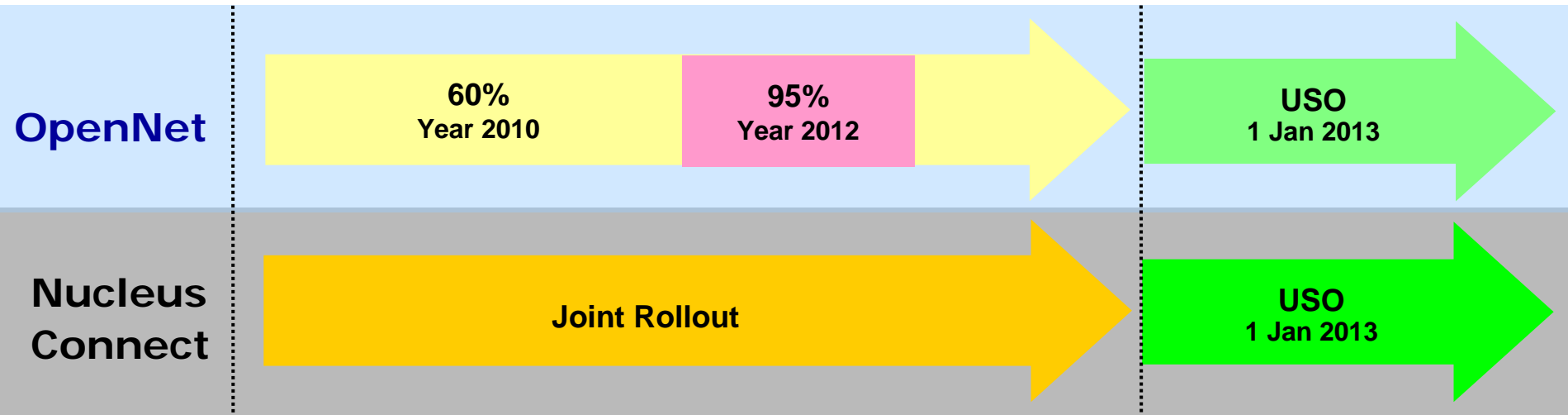
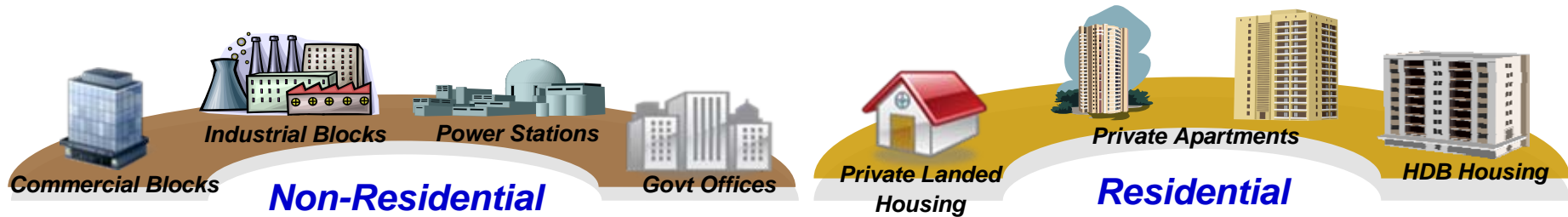
- > Separate Legal Entity
- > Separate Premises
- > Separate Branding from Affiliated Operators.

Monitoring Compliance



- > Indicators to monitor OpCo's compliance to the Operational Separation Requirements

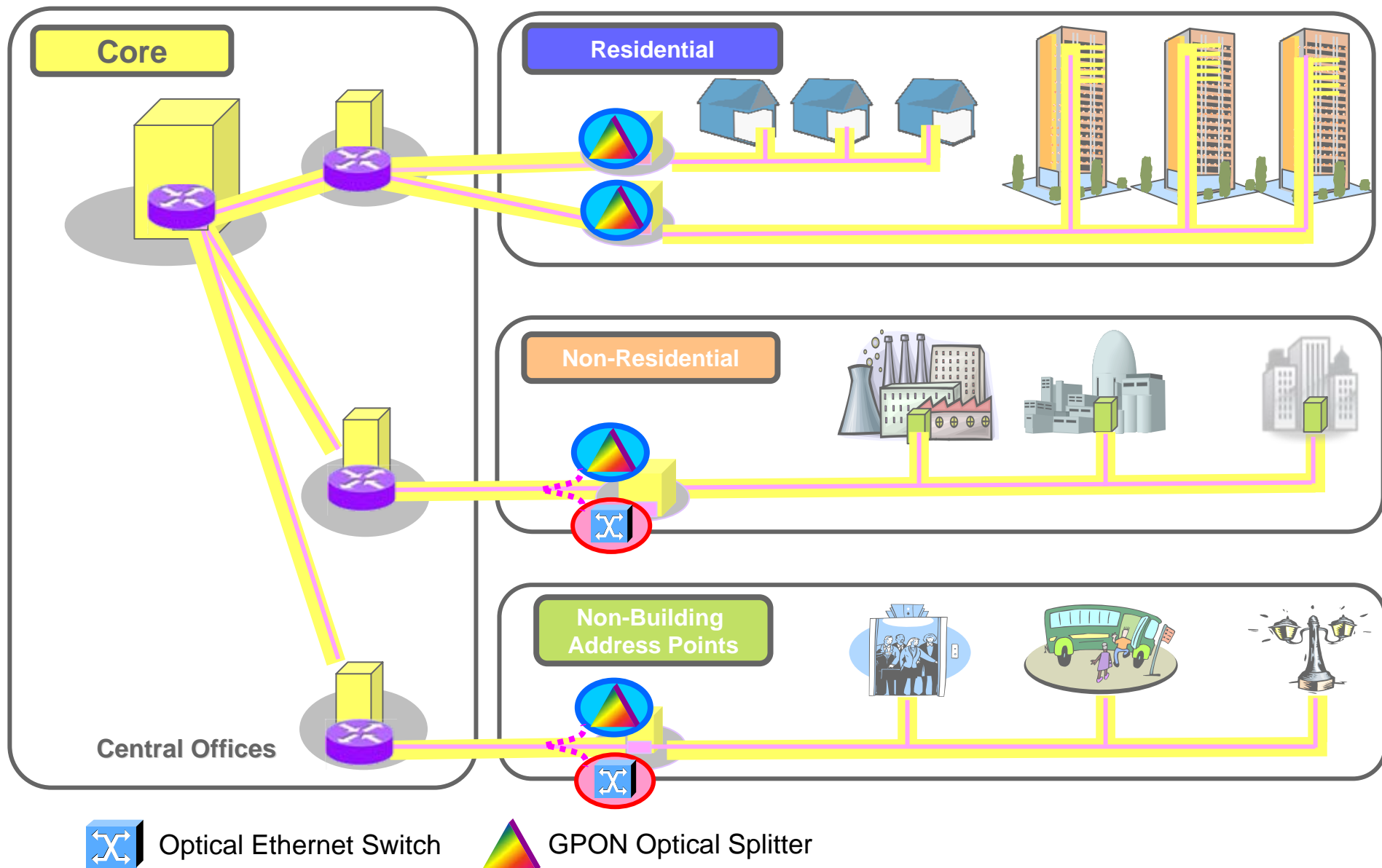
Nucleus Connect's Rollout Commitments



- > Nucleus Connect's services made available soon after OpenNet has declared coverage of a building;
- > Universal Service Obligation (USO) from 1 Jan 2013.

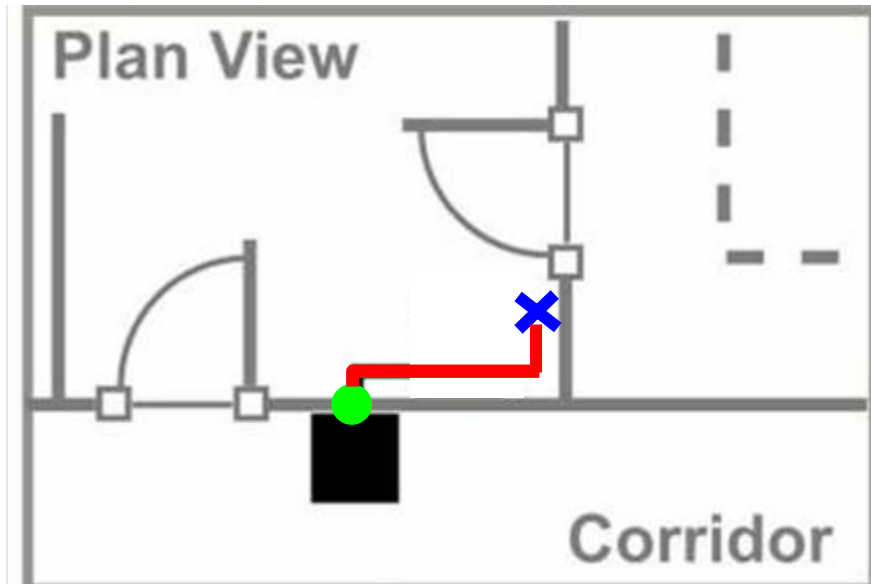
Highlights of StarHub's Proposal

Technology to be Deployed by OpCo

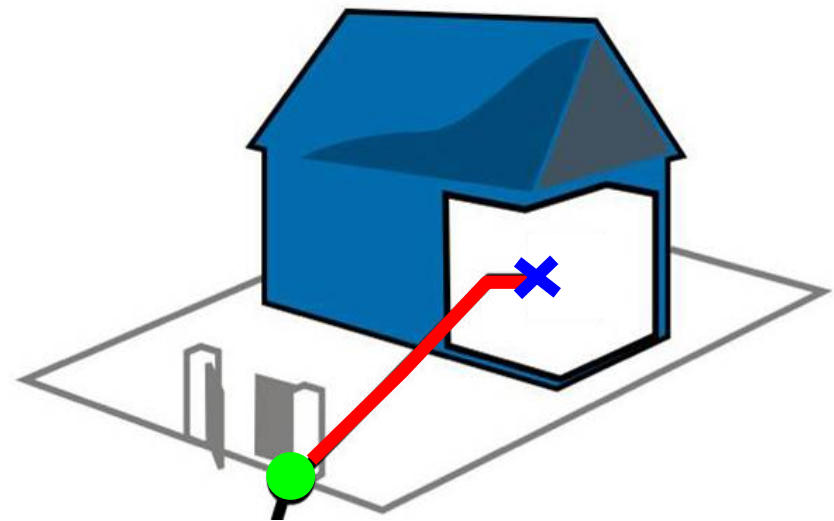


First Termination Point to Residential Premises

HDB Flat / Apartment



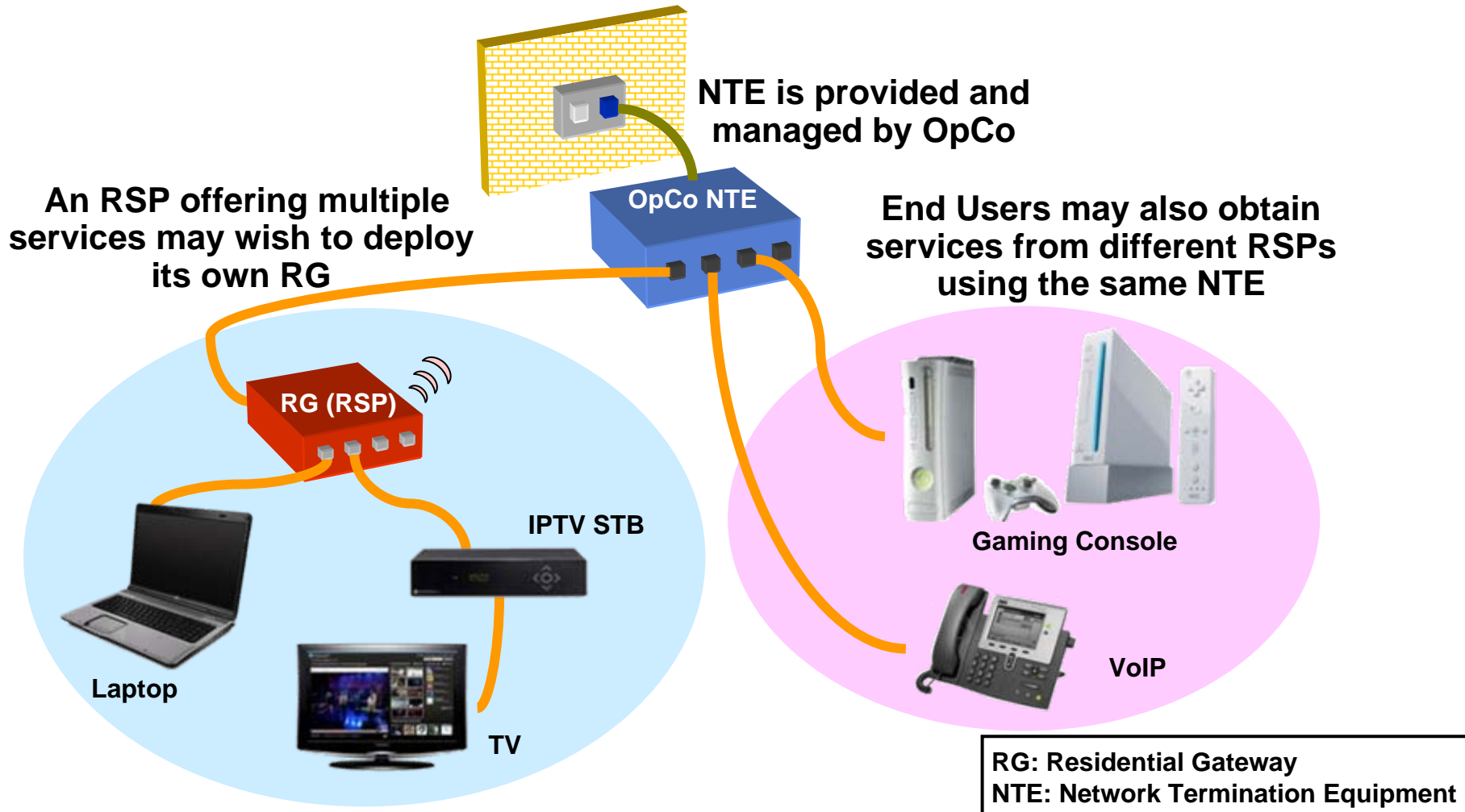
Landed Property



- Point of entry
- ≤ 15 metres
- × First termination point

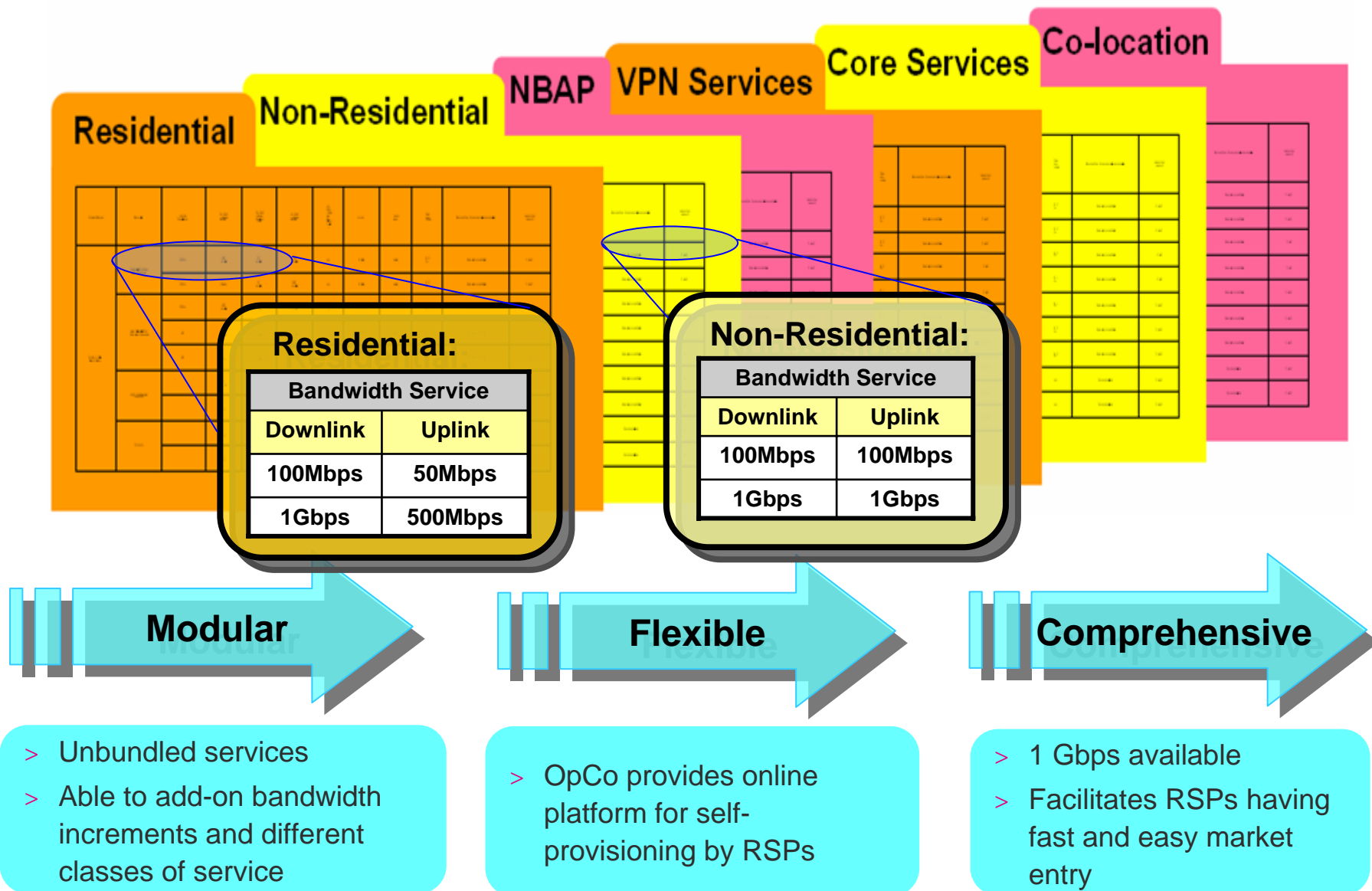
Highlights of StarHub's Proposal

OpCo Service Provisioning



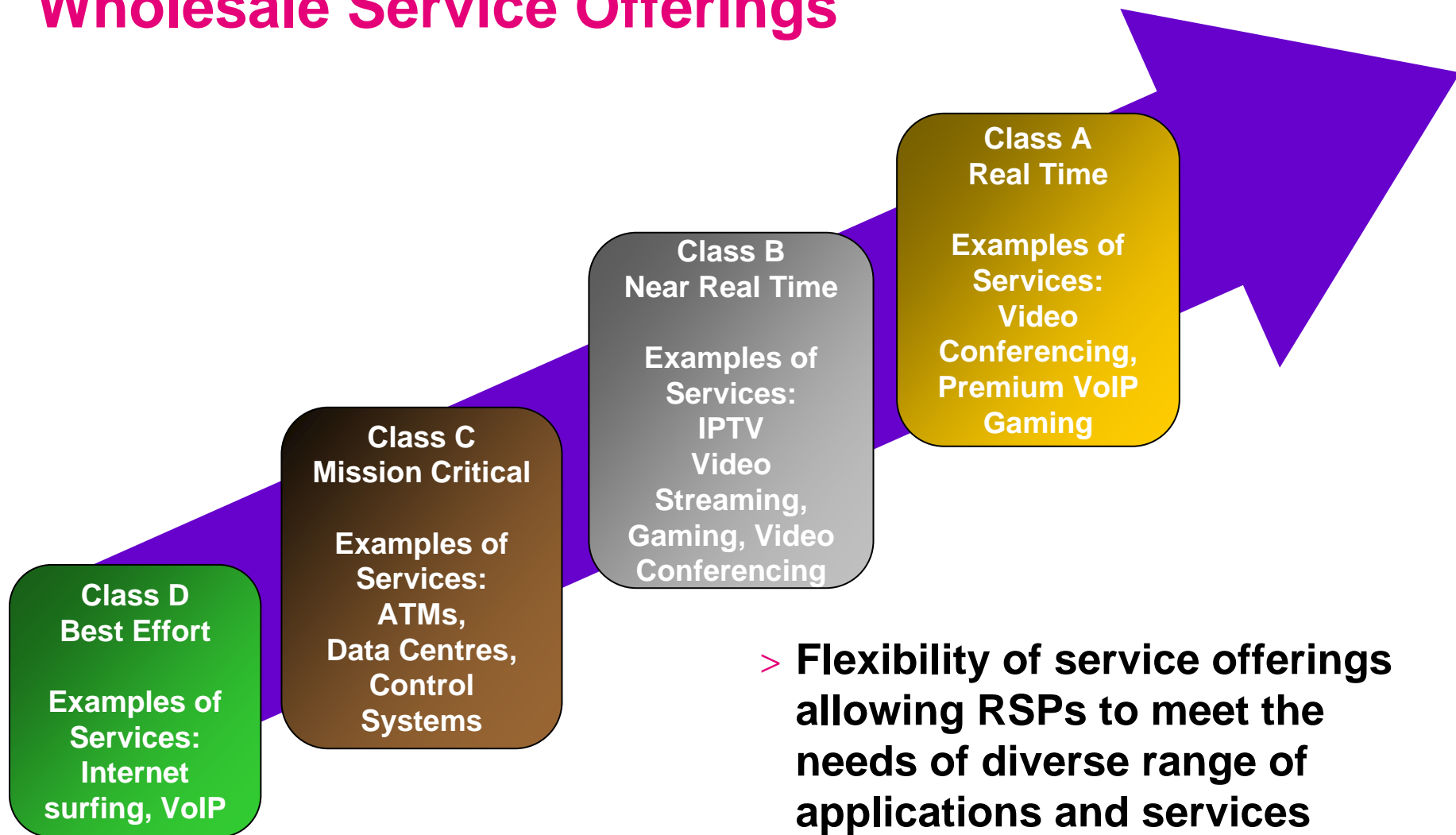
Highlights of StarHub's Proposal

Wholesale Service Offerings

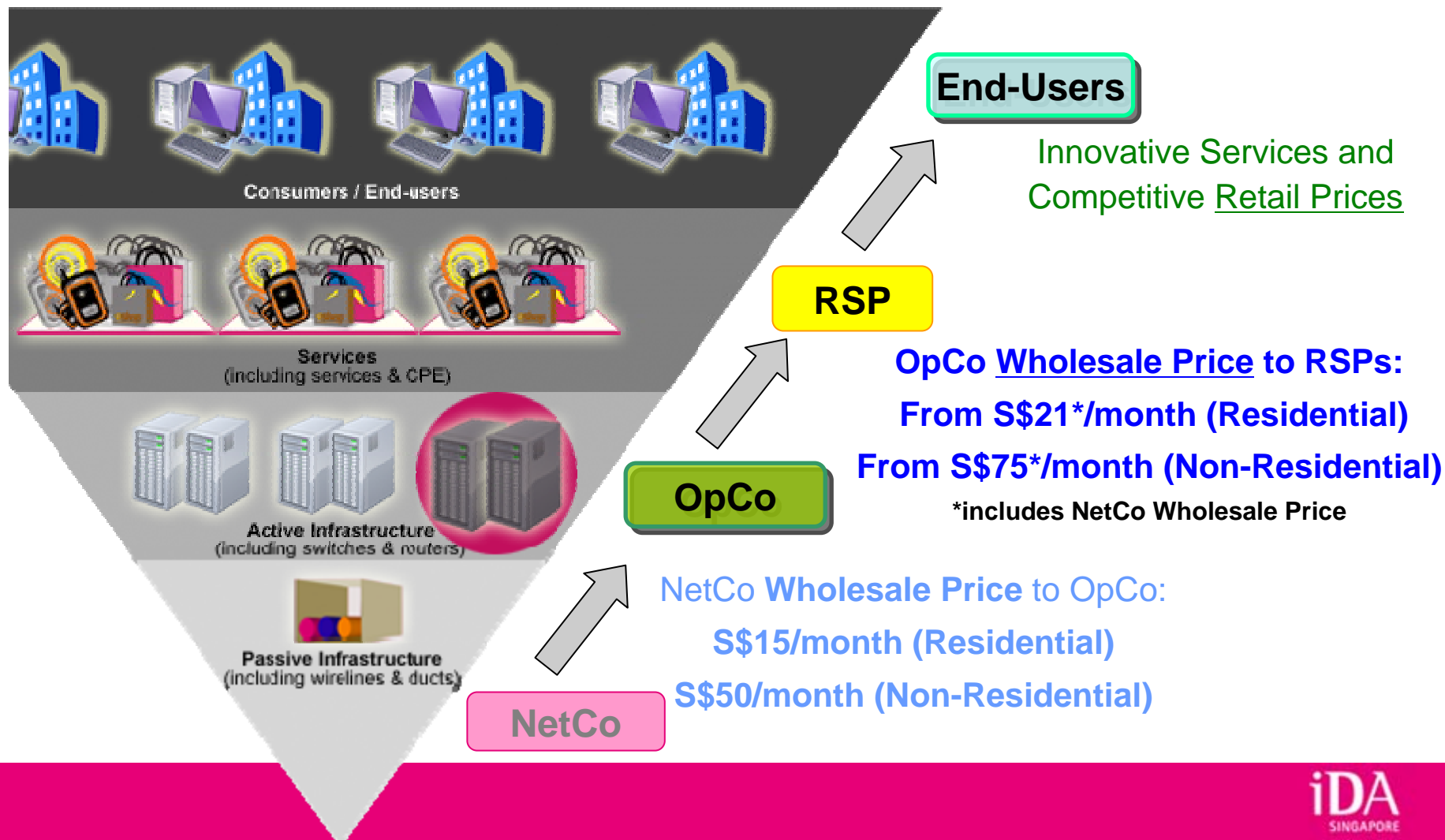


Highlights of StarHub's Proposal

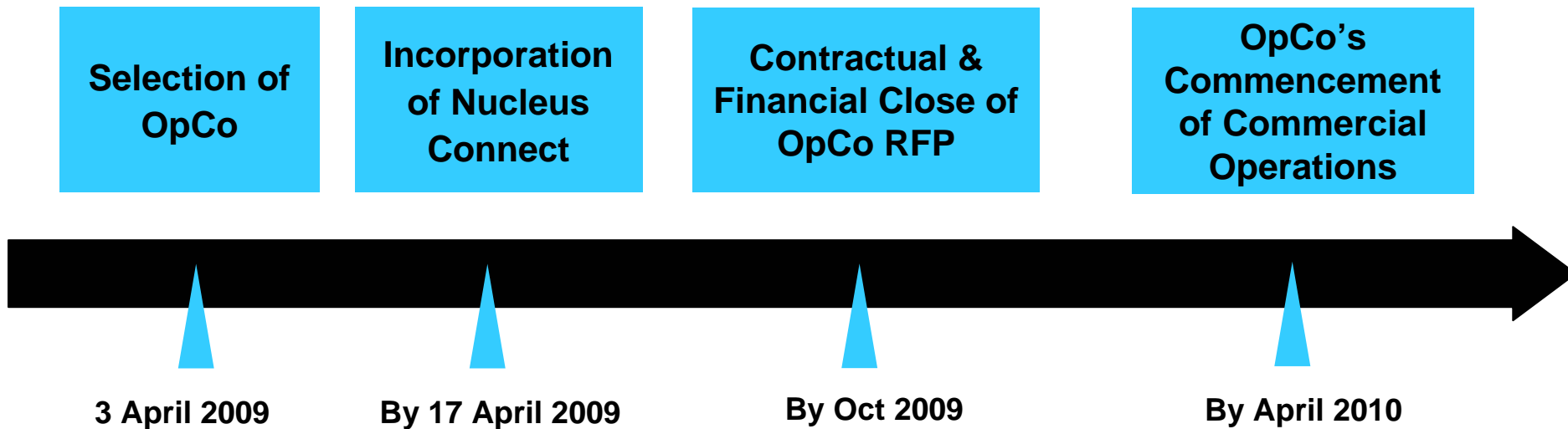
Wholesale Service Offerings



Overview of Next Gen NBN Wholesale Prices



Next Steps



Summary

- > **StarHub's proposal selected for the Next Gen NBN OpCo RFP, bringing Singapore closer to achieving iN2015 goals**
- > **Effective Open Access to Next Gen NBN is key enabler for new ways of working, living, learning and interacting**
- > **Competitive wholesale service offerings will foster vibrant RSP community:**
 - **Modular**
 - **Flexible**
 - **Comprehensive**
- > **Full optical fibre-based bandwidth services of up to 1Gbps available by April 2010**
- > **Nationwide availability to all homes and businesses by 2012**

C

Q & A Session

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www.ida.gov.sg

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