

Industry Briefing to FBOs

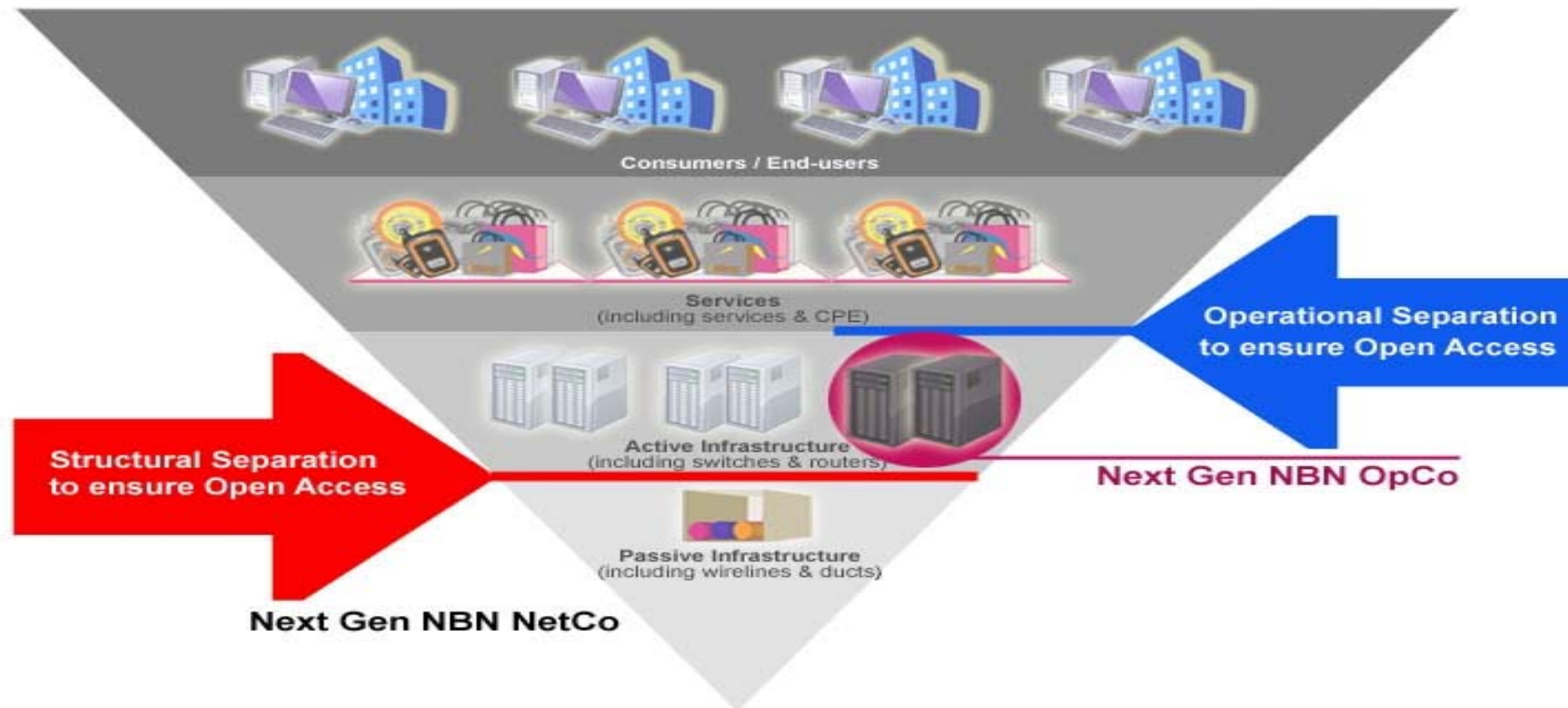
25 February 2009



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Next Gen NBN Project Overview

Enabling a Competitive and Vibrant Infocomm Industry through Effective Open Access with Next Gen NBN Separation Requirements



Regulatory Framework for Next Gen NBN Operators

Next Gen NBN NetCo/OpCo will be

- > **Licensed as Facilities-Based Operations Licensees (FBOs)**
 - Subject to standard FBO Licence obligations

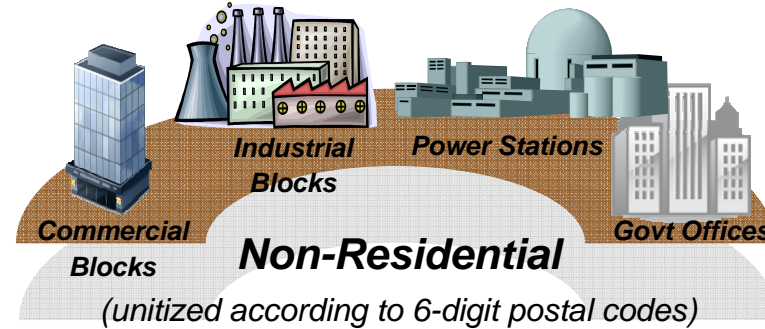
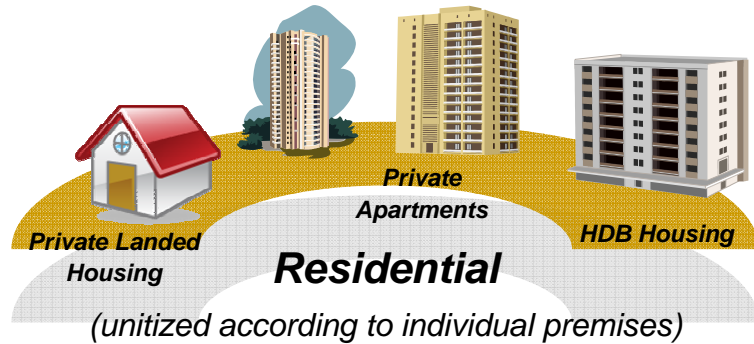
- > **Subject to NetCo/OpCo- specific Licence Conditions, i.e.,**
 - Universal Service Obligations
 - Separation requirements to ensure no discriminatory conduct
 - Provision of Mandated Services subject to requirements in Interconnection Code

- > **Subject to obligations under**
 - Telecommunications Act
 - Telecom Competition Code
 - Any other relevant Acts, Guidelines and Codes applicable to FBOs

Regulatory Framework for Next Gen NBN NetCo

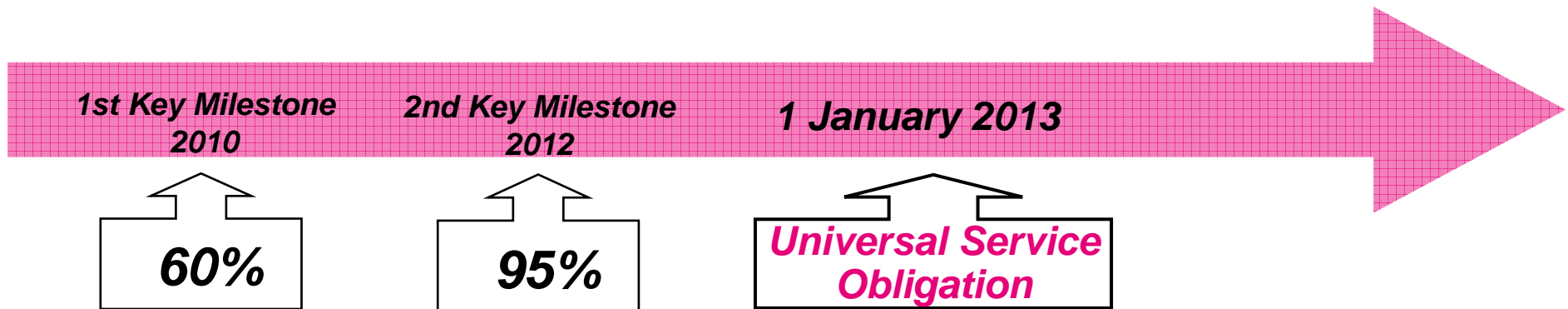
- > **Next Gen NBN NetCo will be classified as**
 - **A Public Telecom Licensee**
 - **Subject to standard PTL Licence obligations as well as access to privileges under the Telecommunications Act**
 - **A Dominant Licensee**
 - **Subject to Telecom Competition Code, i.e.,**
 - **Dominant Licensee obligations**
 - **Anti-competitive prohibitions**

OpenNet's Network Coverage and USO



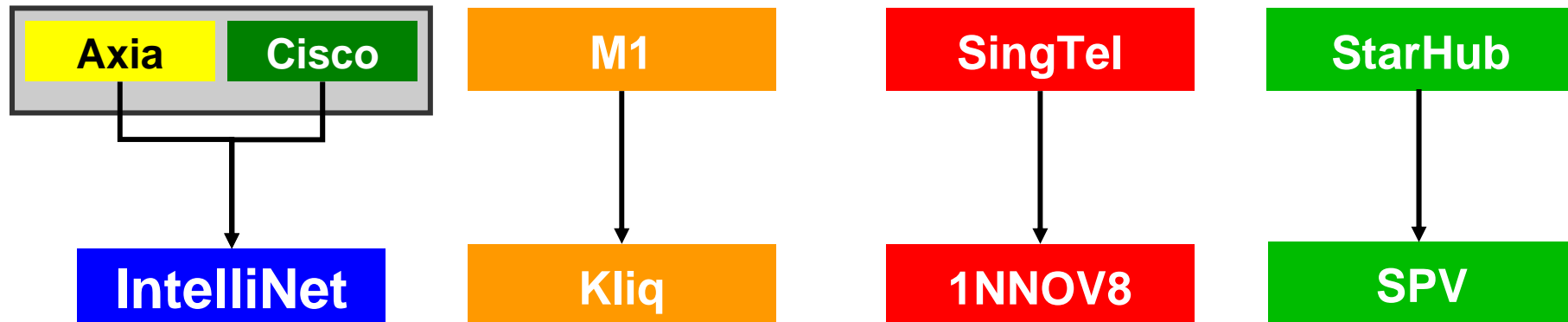
Universal Service Obligation:

- > **NetCo is required to provide Mandated Services to any Qualifying Person to any of the following locations in mainland Singapore and connected islands:**
 - All Physical Addresses; and
 - All other locations as may be reasonably requested.



OpCo RFP Bidders

> As of 5 Dec 2008, IDA received four bids from qualified NGNBN OpCo RFP consortium leads



> RFP targeted to be awarded by Q1 2009

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OpenNet's Network and Services

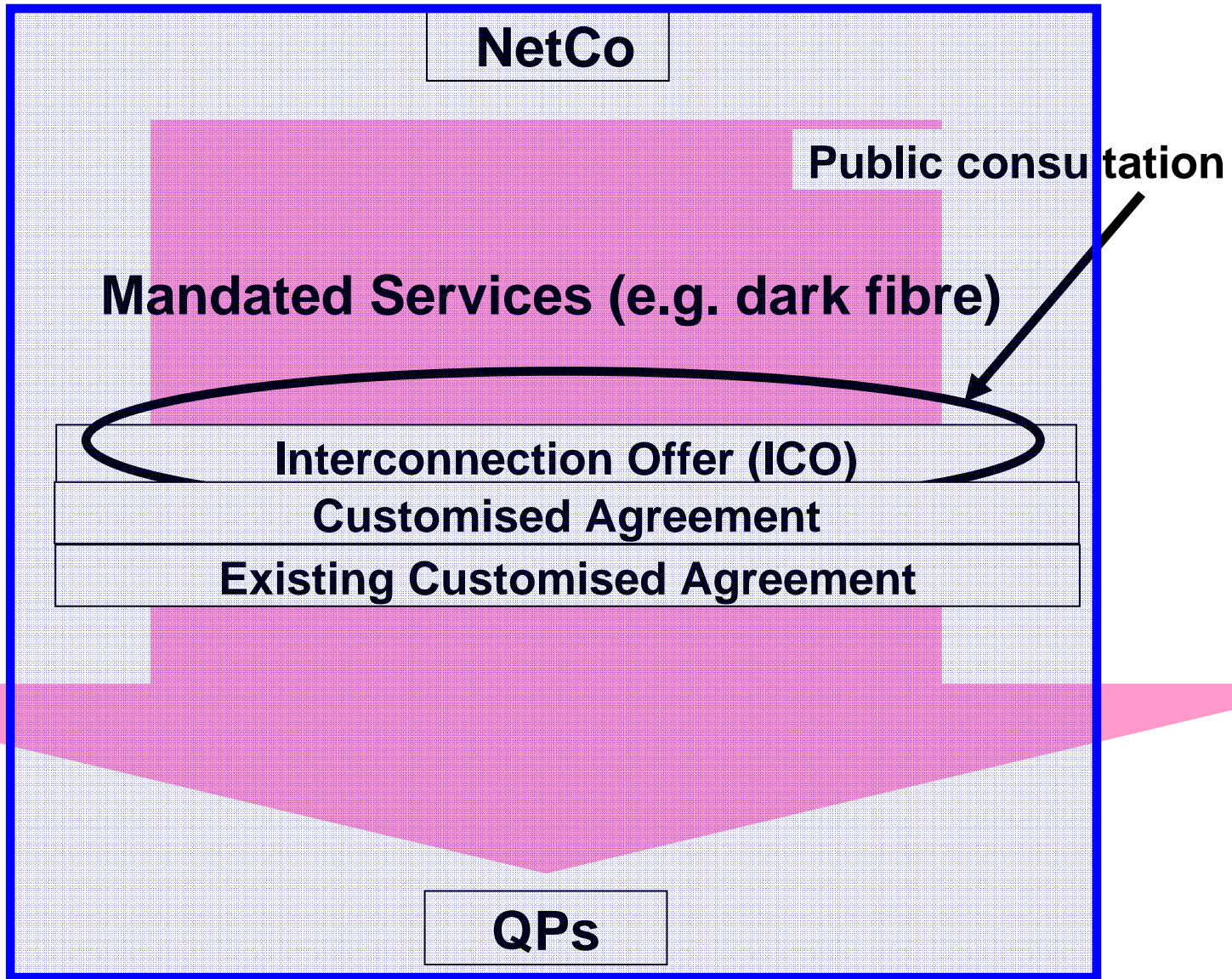
- **Network Architecture and Specifications**
- **Service Offerings**

Tea Break

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NetCo ICO Review and Timelines

- **NetCo Interconnection Code;**
- **Public Consultation of NetCo ICO**



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NetCo ICO Review and Timelines

- **NetCo Interconnection Code;**
- 1st Public Consultation of NetCo ICO

The NetCo Interconnection Code

The NetCo Interconnection Code:

- > **Specifies the pricing, terms and conditions of NetCo services:**
 - **Basic and Ancillary Mandated Services;**
- > **Outlines the obligations and responsibilities of NetCo and QPs;**
- > **Specifies the enforcement measures for breach of Code obligations.**

Provision of Mandated Services

- > **Services offered via:**
 - Standard Interconnection Offer (ICO);
 - Individually negotiated Customised Agreement (approved by IDA);
 - Existing Customised Agreements;
- > **Information on Mandated Services:**
 - Understand process for provisioning and use;
 - Make informed decision of service to order and related options available;
- > **No restriction on the resale;**
- > **No unreasonable restriction in usage;**
- > **6-month period to utilise service, else lose it.**

NetCo Interconnection Code

Other Requirements of Provision of Mandated Services

- > **Pricing of mandated service:**
 - Same charges for same type of premises;

- > **Duration of ICO:**
 - Valid until directed otherwise by IDA;

- > **Model Confidential Agreement (MCA);**

- > **NetCo to also provide:**
 - Website;
 - On-line provisioning platform:
 - Access via website and through direct connection via open standard interface;
 - Ordering and provisioning manual;

- > **Conciliation and determination.**

Minimum Requirements for the ICO

ICO must be:

- **Comprehensive and complete;**
- **Clearly written and organised logically and consistently;**
- **Modular;**
- **Sufficient detailed;**
- **Available in electronic format.**

ICO to offer:

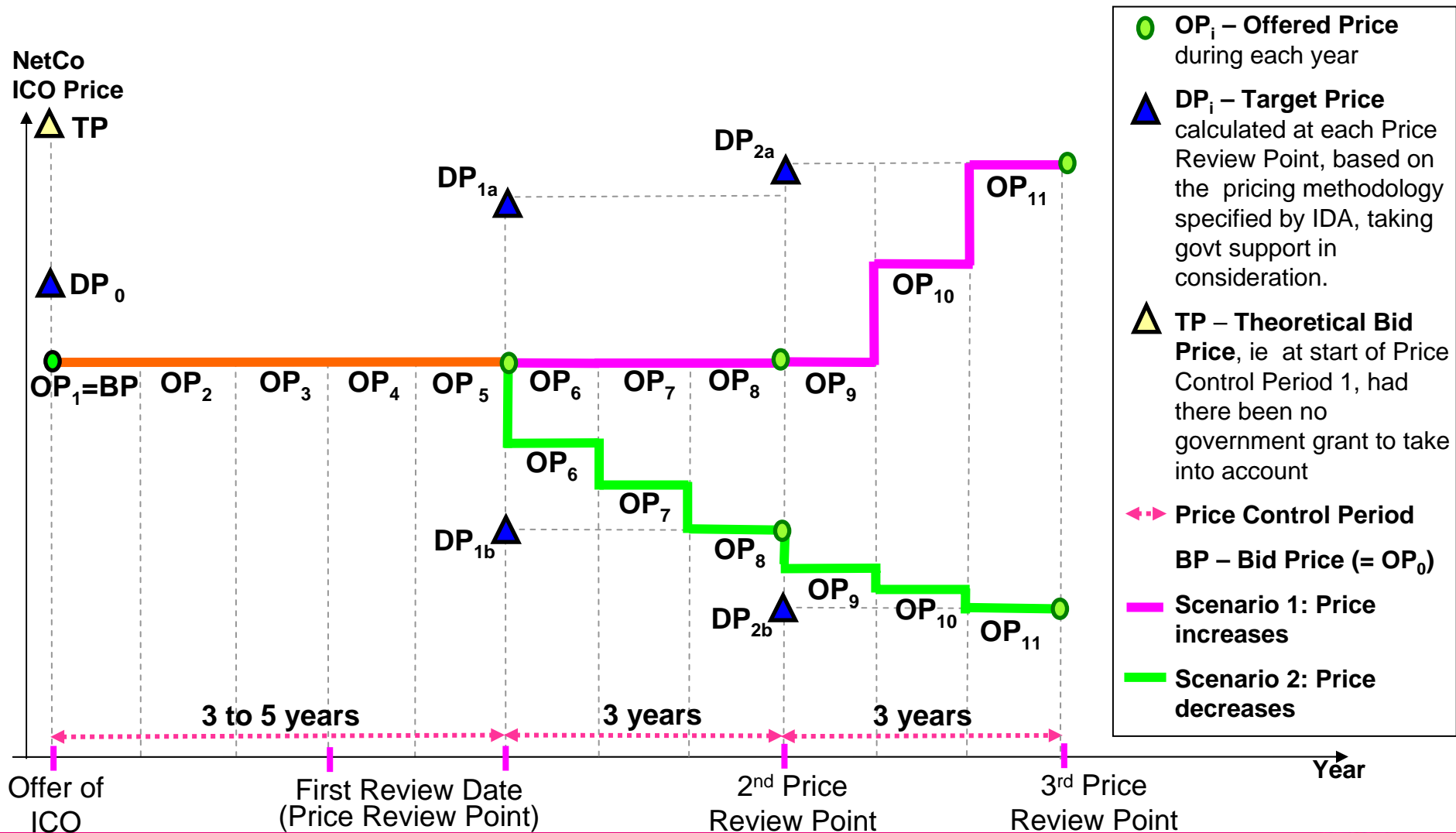
BASIC MANDATED SERVICES:

- **Provision of dark fibre to Residential and Non-Residential premises;**
- **At any technical feasible Connectivity Point;**

ANCILLARY MANDATED SERVICES:

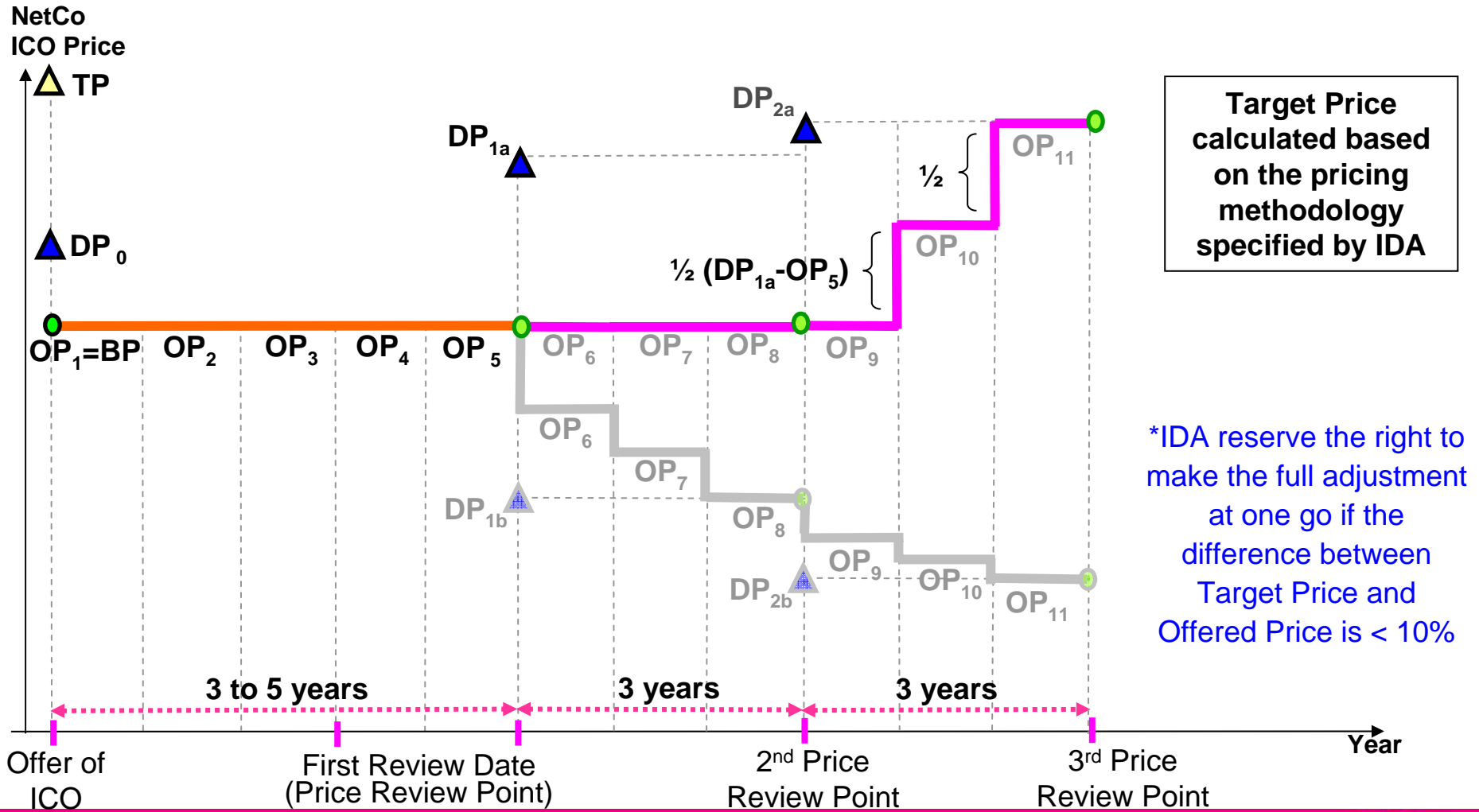
- **OSS/BSS connection service;**
- **Patching service;**
- **Co-location in the CO;**
- **Redundancy service.**

Review & Modification of Prices Under ICO



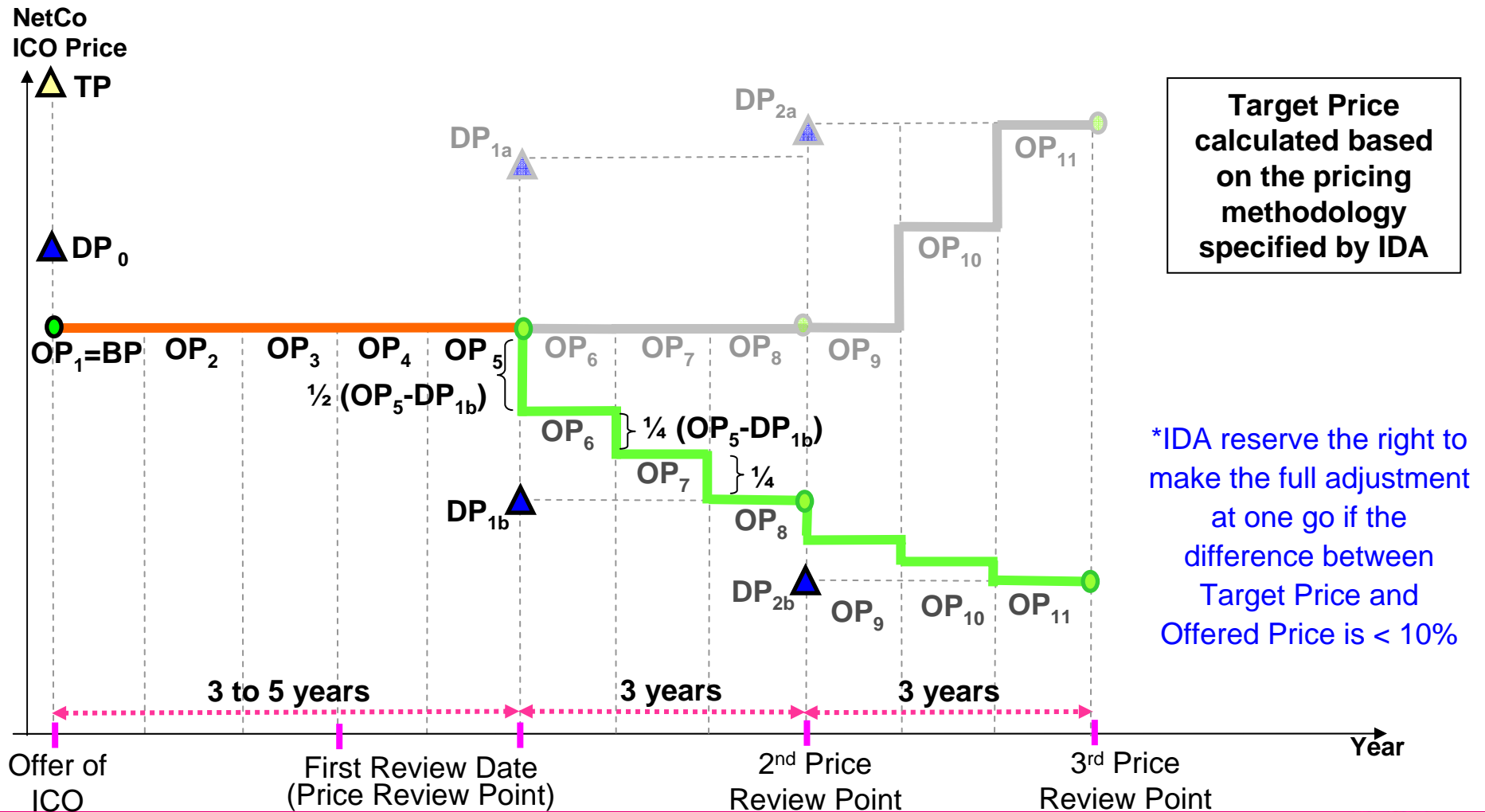
NetCo Interconnection Code

Scenario 1: Target Price > Offered Price



NetCo Interconnection Code

Scenario 2: Target Price < Offered Price



Customised Agreement

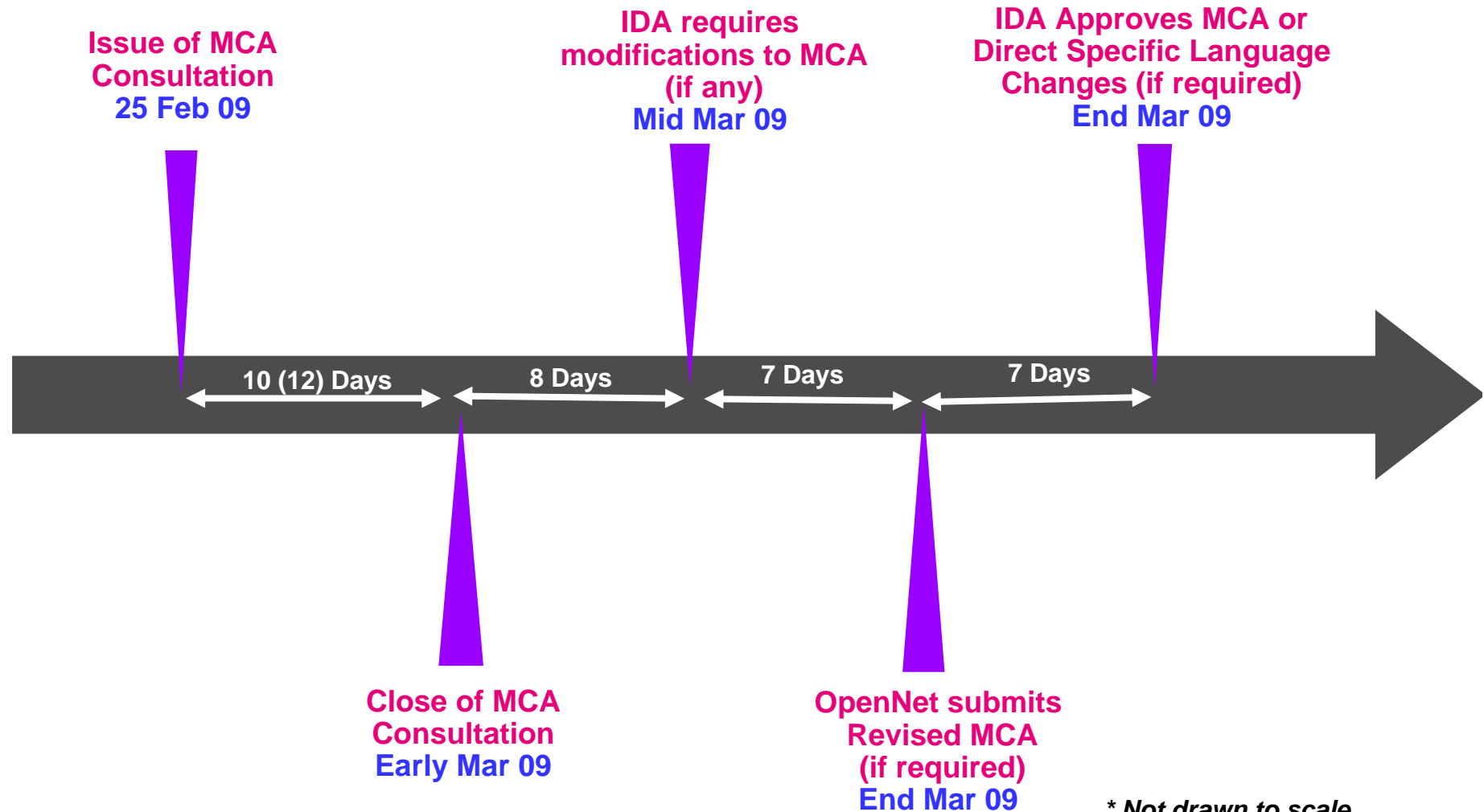
- > **Provision of mandated services on prices, terms and conditions that differ from ICO;**
- > **Must be approved by IDA and may request IDA to resolve dispute**
- > **Do not unreasonably discriminate others;**
- > **Fulfil minimum duties:**
 - **Establish compensation agreement;**
 - **Provide non-discriminatory quality;**
 - **Prevent technical harm;**
 - **Provide billing information;**
 - **Preserve confidential information;**
 - **Obtain IDA's approval for unilateral suspension or termination;**
 - **Incorporate additional or modified minimum duties.**

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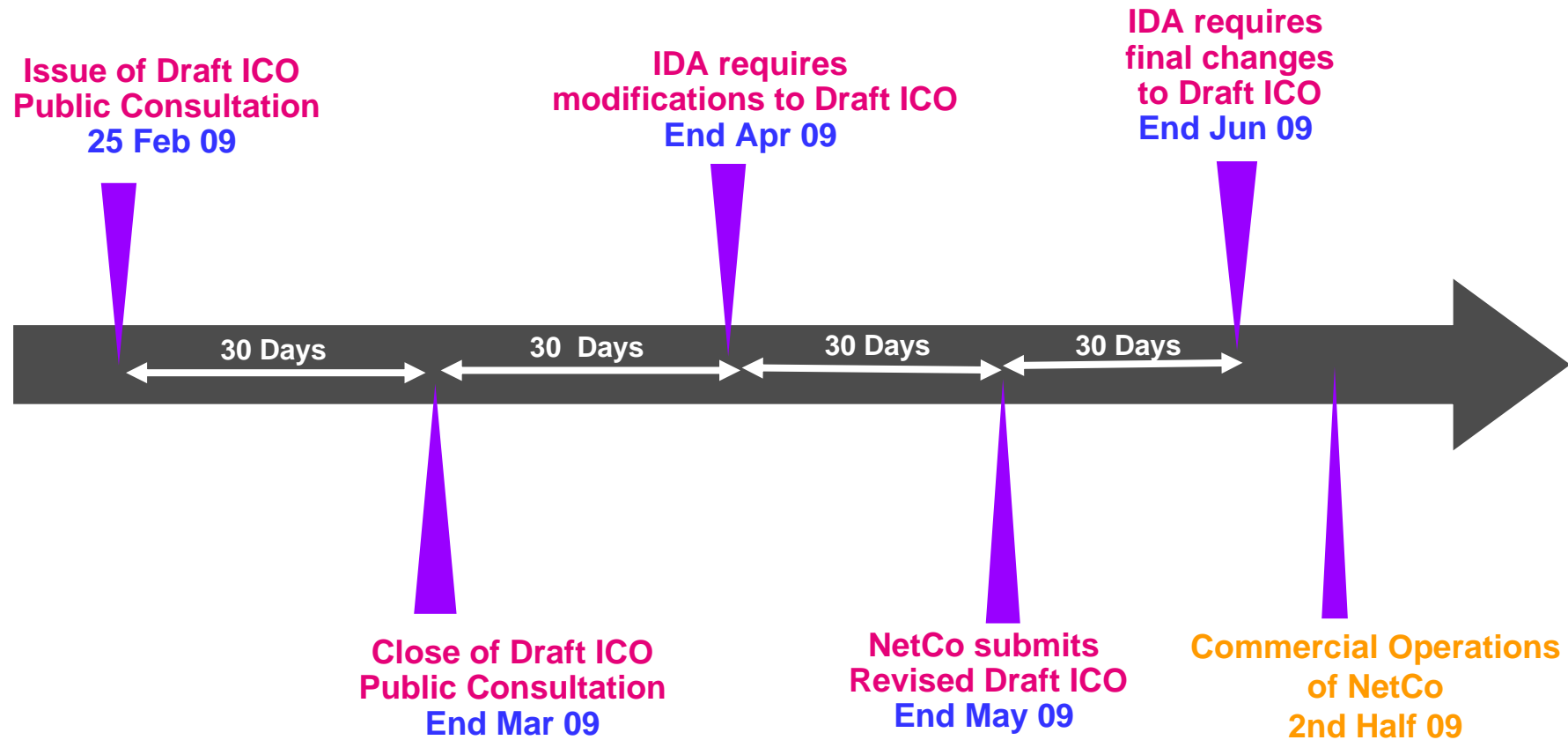
NetCo ICO Review and Timelines

- NetCo Interconnection Code;
- **Public Consultation of NetCo ICO and MCA**

Model Confidentiality Agreement (MCA) Consultation Timeline



NetCo ICO Public Consultation Process & Timeline



Questions & Answers

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