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MAY 2016

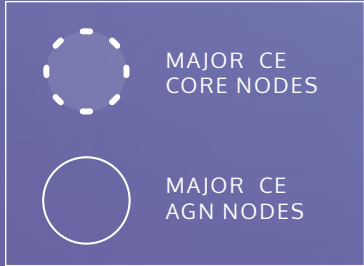
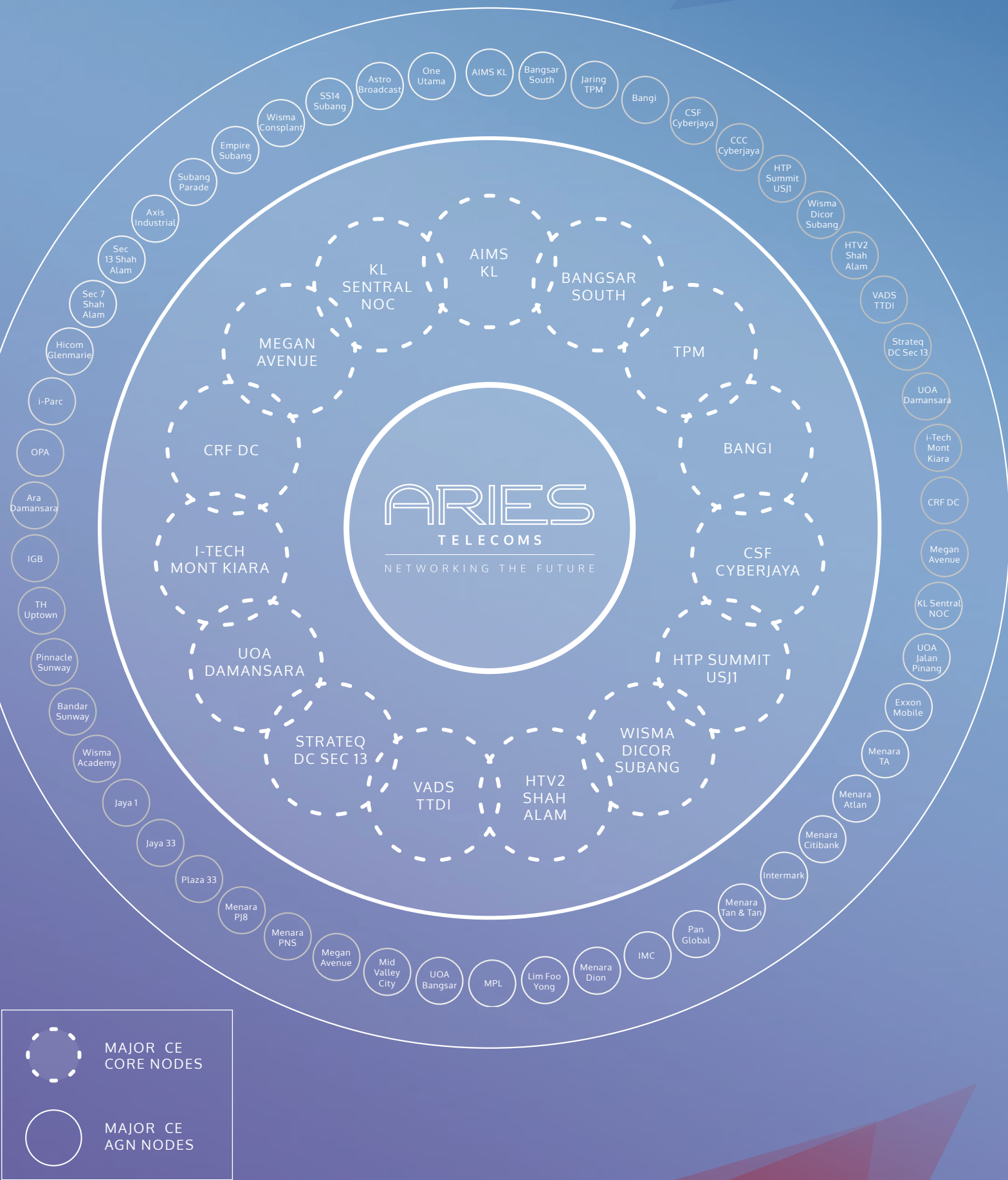
KLANG VALLEY METRO DWDM CARRIER -ETHERNET NETWORK

Aries Telecoms has its core DWDM ultra high speed and low latency network established in Klang Valley. The network is designed using the latest Carrier Ethernet over DWDM Technology with 320Gbps DWDM backbone capacity and is upgradable to 1.2Tbps as demand increases, to cater for bandwidth demand in the future.

Our network boasts the lowest latencies between any two points in Klang Valley (less than 2ms) and has multiple protection fibre links to avoid service disruption. In the event of a primary path break, our system requires less than 50ms to perform a traffic switchover using the latest ERPS (G.8032) technology.

Along with our state-of-the-art technology, this network provides Auto Provisioning of services to enable ultra fast service delivery for customers that is bolstered with full service performance visibility.

The following diagram describes Aries' Klangvalley Carrier-Ethernet Core/Aggregation Network with its Major Point of presence (PoP) covering KL City Centre, KL Sentral, Bangsar, PJ, Damansara, Shah Alam etc.



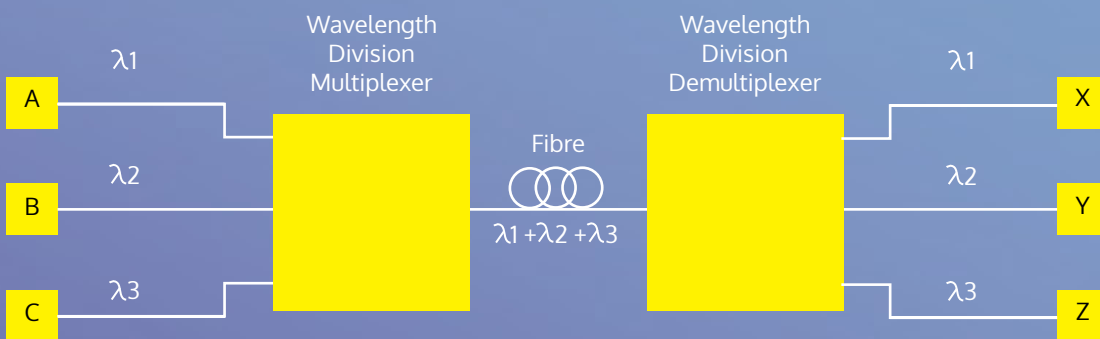
DWDM Offering Unlimited Scalability for Fiber-Optic Networks

Dense wavelength division multiplexing (**DWDM**) is a technology that puts data from different sources together on an optical fiber, with each signal carried at the same time on its own separate light wavelength.

The optical multiplexing technology is being used to increase bandwidth over existing fiber networks. DWDM works by combining and transmitting multiple signals simultaneously at different wavelengths on the same fiber. The technology creates multiple virtual fibers, thus multiplying the capacity of the physical medium.

Driving down the Cost per GbE Kilometer

WDM has revolutionized the cost per bit of transport. Thanks to DWDM, fiber networks can carry multiple Terabits of data per second over thousands of kilometers - at cost points unimaginable less than a decade ago. State-of-the-art DWDM systems support up to 192 wavelengths on a single pair of fiber, with each wavelength transporting up to 100Gbit/s capacity - 400Gbit/s and one Terabit/s on the horizon.



- > Multiple channels of information carried over the same fibre, each using an individual wavelength
- > Dense WDM is WDM utilizing close spaced channels
- > Channel spacing reduced to 1.6 nm and less
- > Cost effective way of increasing capacity without replacing fibre
- > Commercial systems available with minimum capacities of 32 channels and up to 192 wavelengths with 100 Gb/s per channel