

# Cross-Layer Planning for Multi-Service Networks

NEC

Low cost

Flexible capacity  
over 40G/100G

Green/Eco

Legacy migration

Network convergence

High availability

Low latency

## Network Planning

- Designs cost-effective/energy-efficient single-/multi-layer networks
- Validates network availability
- Provides resolutions for network bottlenecks
- Develops network migration scenarios

## Service Planning

- Finds possible service plans satisfying required QoS
- Designs P2P/P2MP/MP2MP VPNs
- Validates lambda paths

## System Integration & Interworking

- Incorporate with NMS/OSS as a function module
- Provides PCE capability, especially for WSON

## Cloud Network Driver

- Coordinates ICT resources inside carrier-cloud systems
- Designs virtual networks for distributed applications