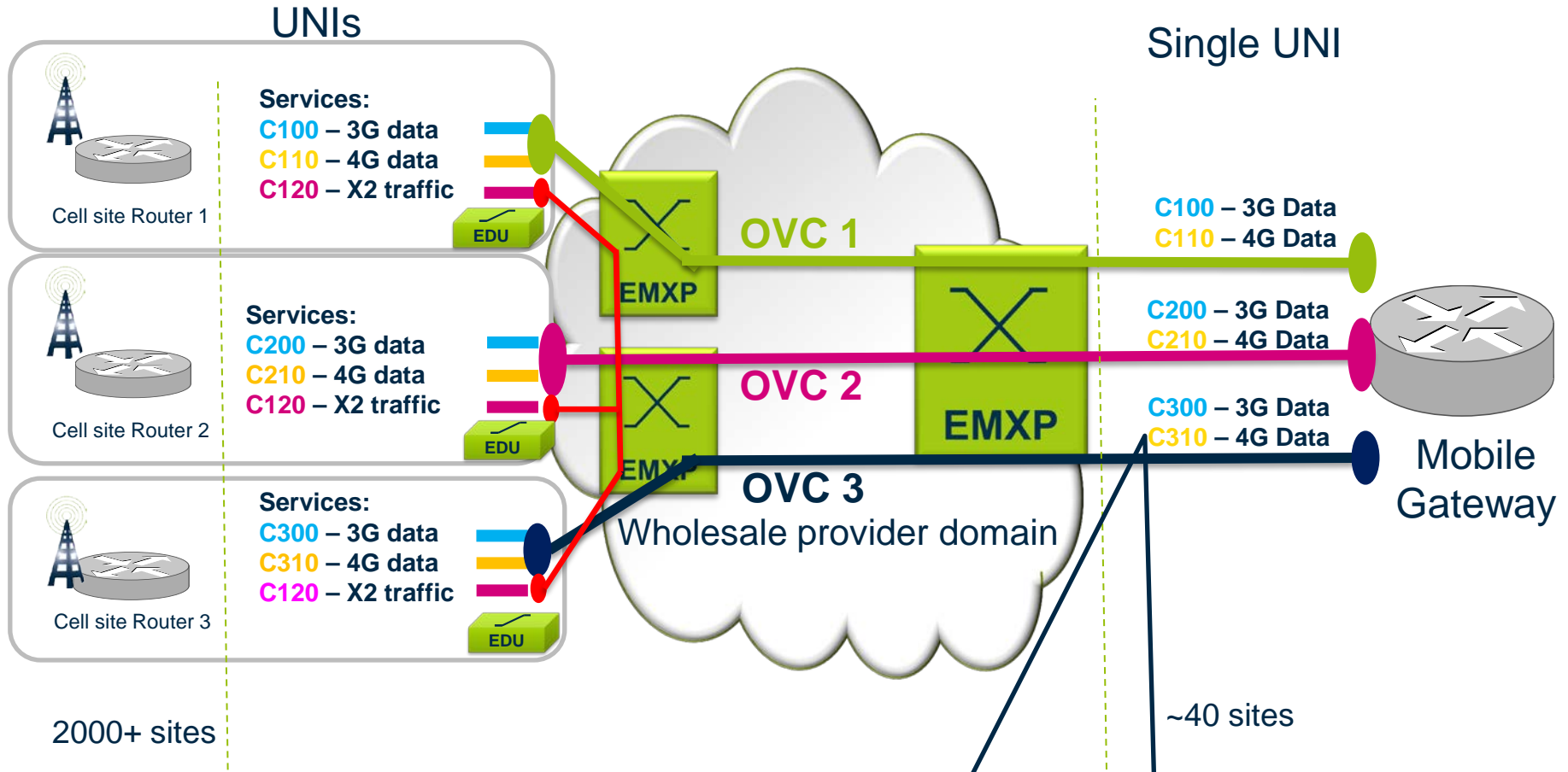# How CE 2.0 wholesale services can provide value beyond the obvious

Making light make sense
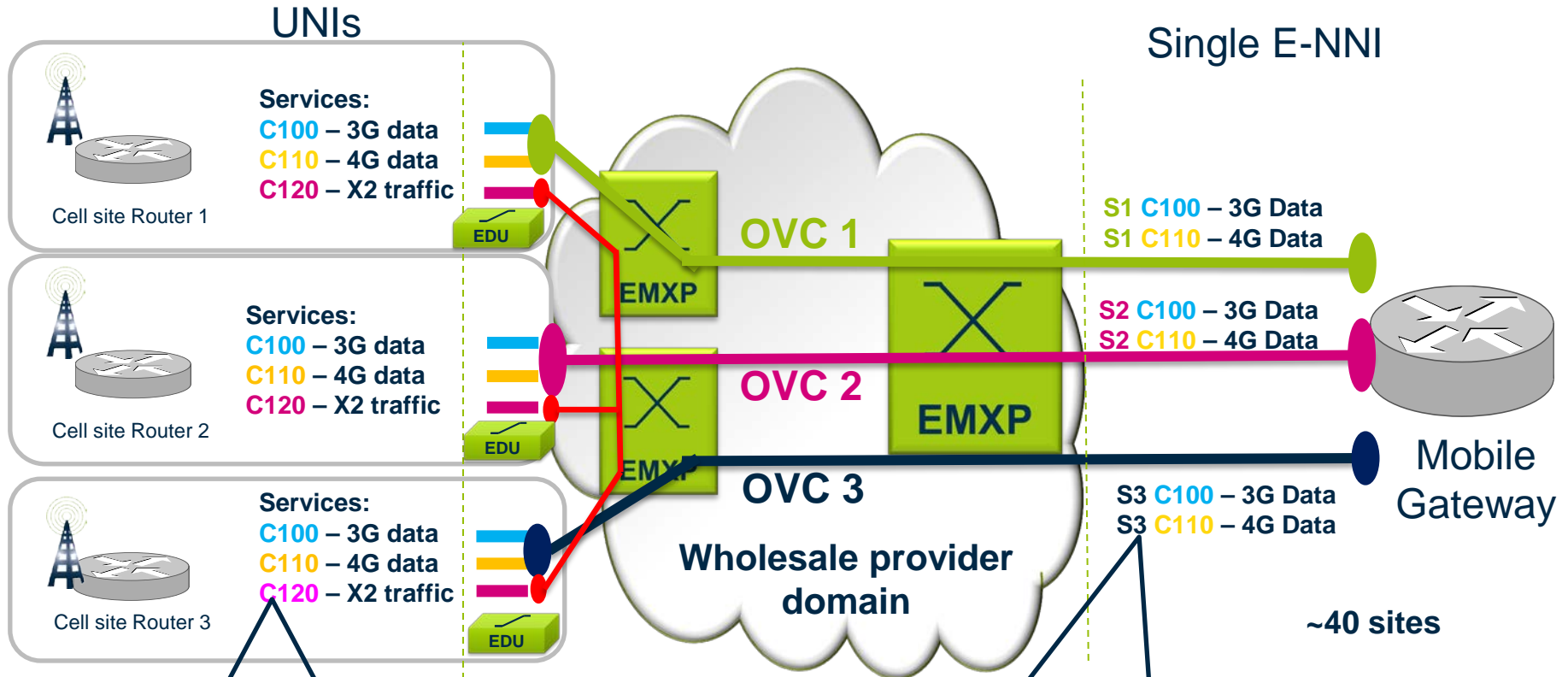
○ transmode

Mobile backhaul example realization in CE 1.0

Mobile backhaul example realization in CE 2.0

UNIs

Single E-NNI

Cell site Router 1
Services:
C100 – 3G data
C110 – 4G data
C120 – X2 traffic

EDU

Cell site Router 2
Services:
C100 – 3G data
C110 – 4G data
C120 – X2 traffic

EDU

Cell site Router 3
Services:
C100 – 3G data
C110 – 4G data
C120 – X2 traffic

EDU

EMXP

OVC 1

OVC 2

EMXP

OVC 3

EMXP

Wholesale provider domain

S1 C100 – 3G Data
S1 C110 – 4G Data

S2 C100 – 3G Data
S2 C110 – 4G Data

S3 C100 – 3G Data
S3 C110 – 4G Data

Mobile Gateway

~40 sites

4000+ sites

The E-Access services allows for generic configuration of cell site routers

Every cell site can now be defined by an unique 802.1.ad (S-tag) unique to the OVC
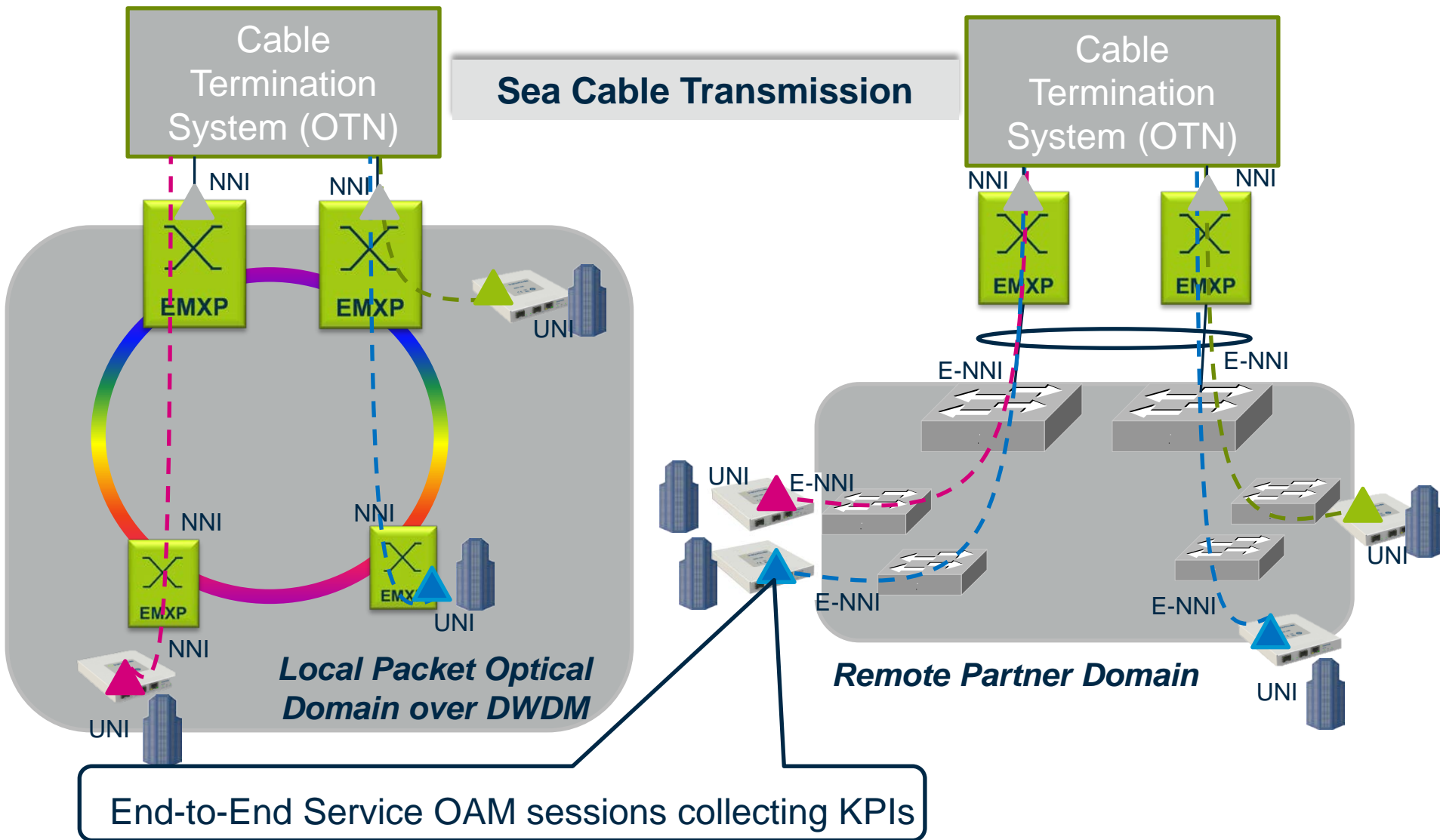
transmode

Refining and proving additional value of high performance CE 2.0 enabled services

-Example from international service provider operating submarine systems

Making light make sense

transmode

Challenges in providing international CE2.0 services over Submarine Systems

- Acquiring capacity and connectivity, and OAM capabilities
  end-to-end

- Co-location space and power/cooling may be a scarce resource

- Prove the value of the superior performance of dedicated services

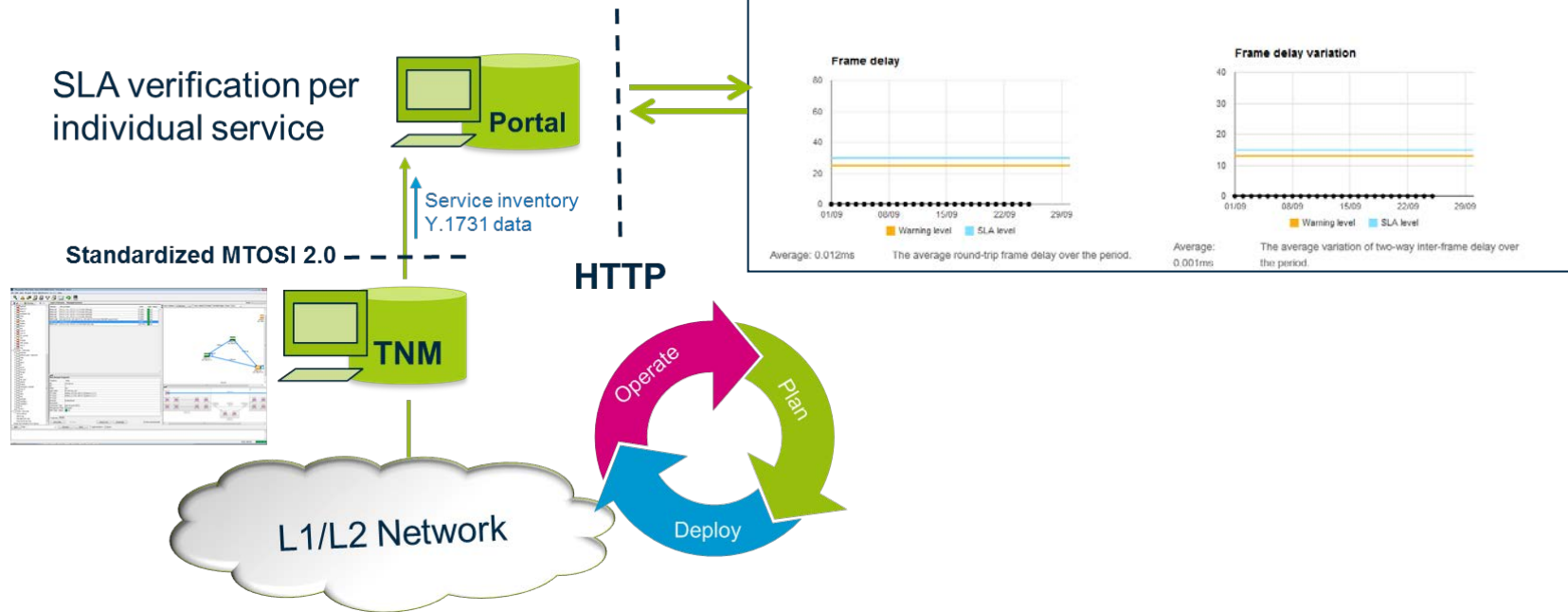- Efficient operations in an international environment

transmode

Providing International MEF CE2.0 Services

Just collecting SLA data is not enough!

Premium service quality levels must be:
- Accessible
- Transparent
- Auditable
- Representative

Restricted

transmode

Summary

- **MEF certification of E-Access**

- **How CE 2.0 wholesale services can provide value beyond the obvious**

  - E-NNIs may also be used to interconnect to non-CE2.0 domains.

  - E-Access services can be used to consolidate network complexity

- **Refining and proving additional value of high performance CE 2.0 enabled services**

  - CE2.0 enable end-to-end OAM via Y.1731

  - Many performance driven use-cases are dependent on detailed SLAs and proven with SLA monitoring capabilities.

transmode

THANK YOU!

Making light make sense