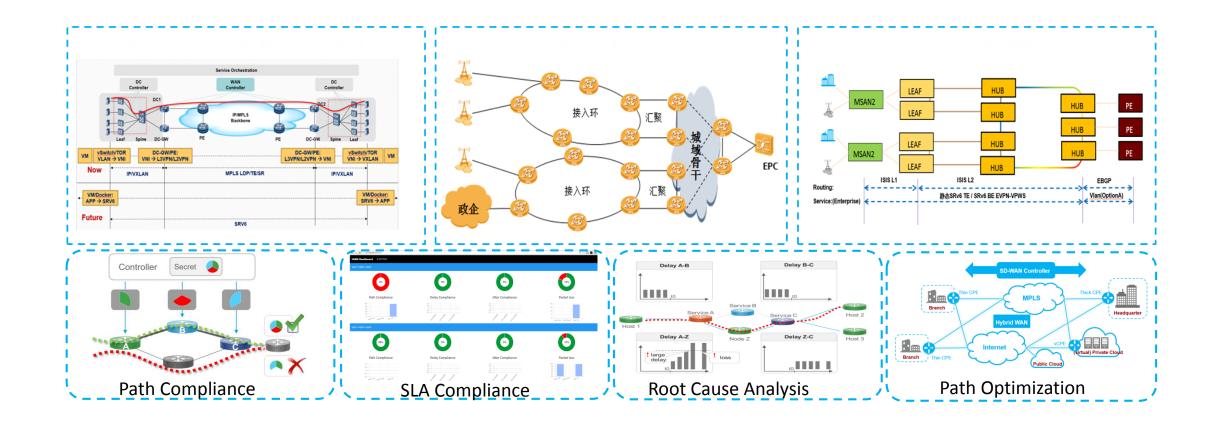
In-situ Flow Information Telemetry (iFIT) Framework

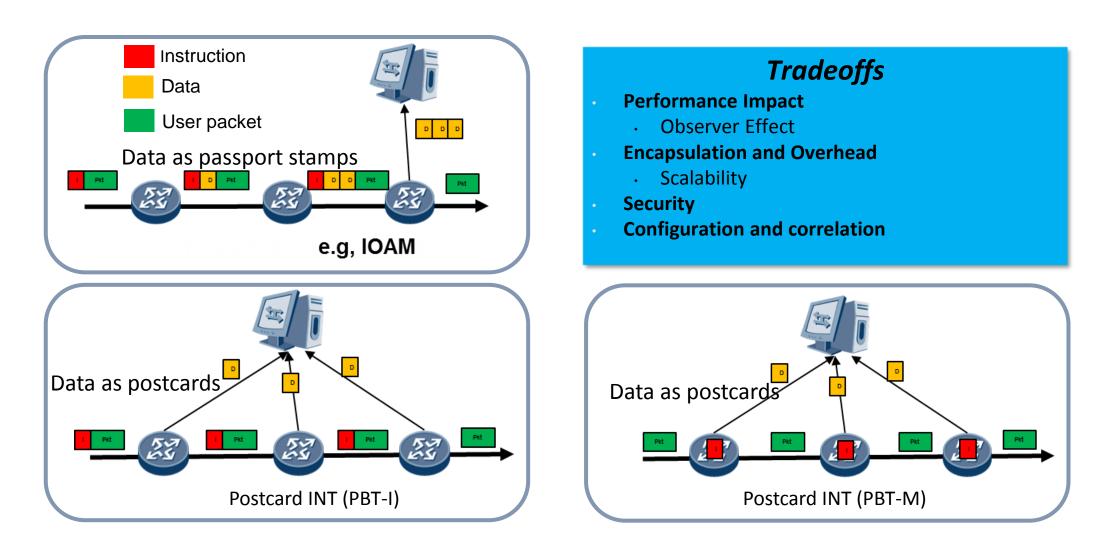
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Data Plane Telemetry Requirements



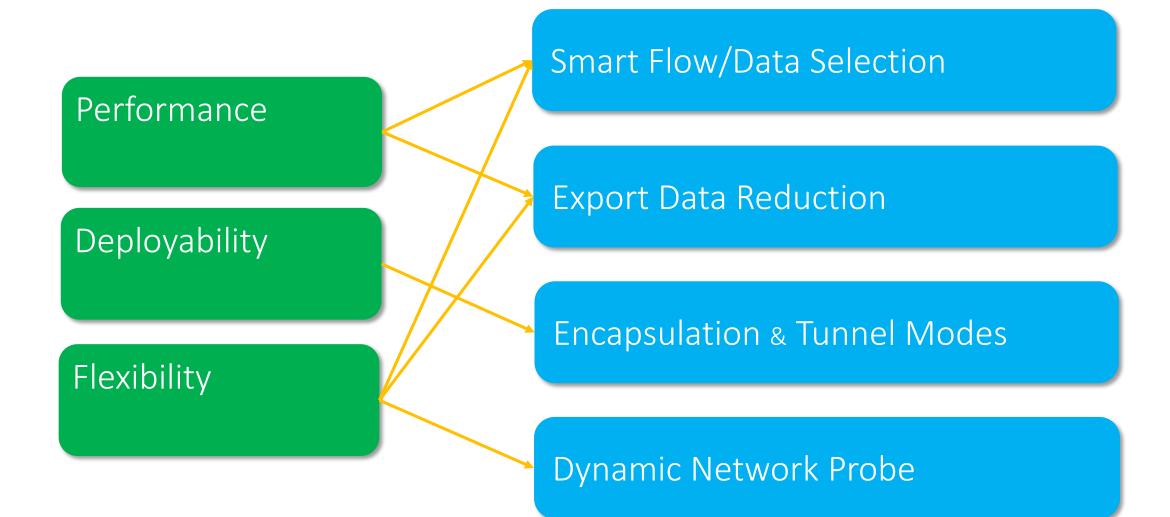
Data Plane Telemetry Techniques



Challenges for Deployment in Carrier Networks

- Performance
 - Forwarding impact due to packet processing
 - Bandwidth and server overload due to exported data
- Limited data flexibility and extensibility
- Deployment issues
 - Encapsulation
 - Tunnel

iFIT Solution Framework



Discussion & Next Steps

- Collect feedbacks
 - What other challenges for carrier network data plane telemetry?
 - What other suggestions to make the framework more complete?
- Demonstrate prototype in carrier networks based on the framework
- Future work
 - Data consumption
 - Cross domain operation