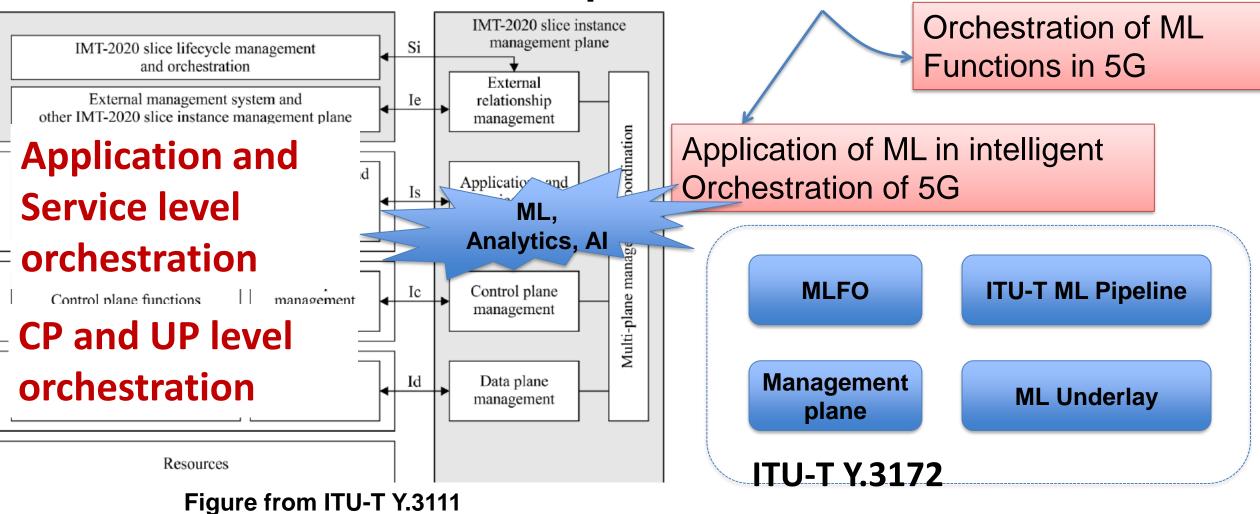
Orchestration aspects: ML for 5G

IMT-2020/5G systems - Machine learning, management and orchestration, operational issues

Vishnu Ram OV, Consultant

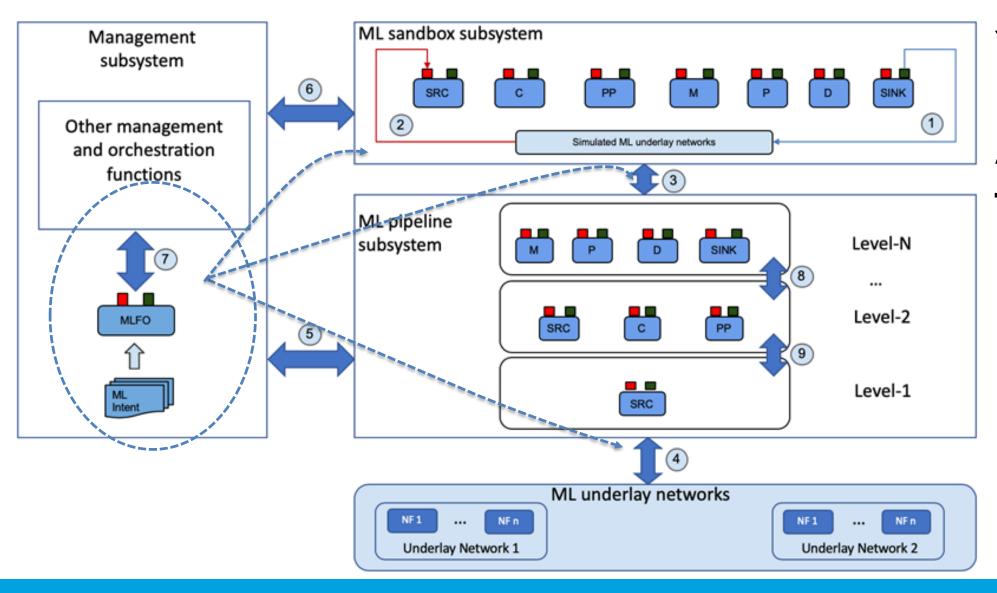


What is "orchestration aspects: ML for 5G"?





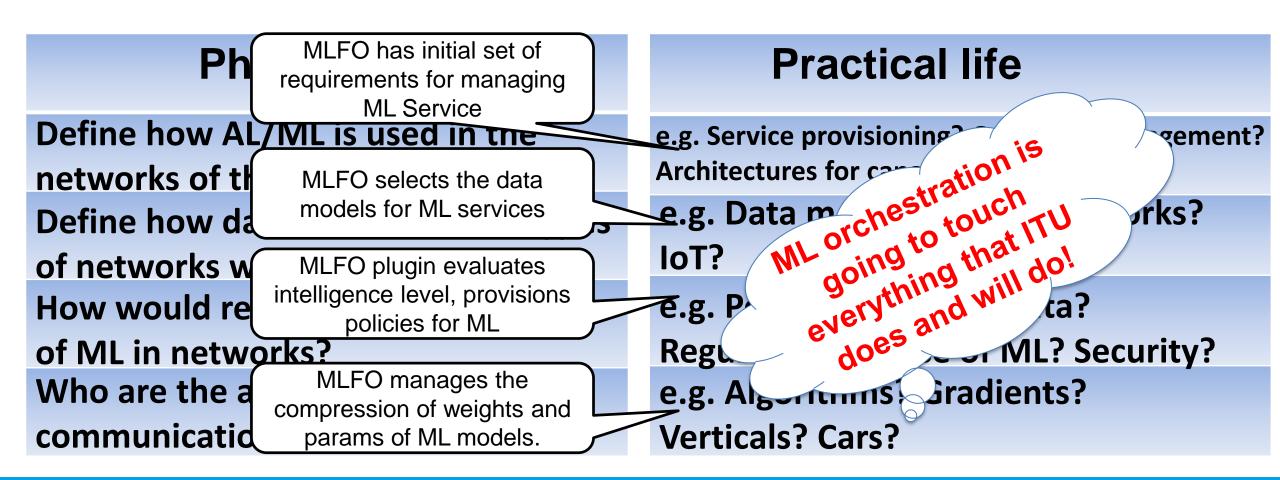
Study Group Leadership Assembly 2019



Y.3172
Basic
Architecture
figure

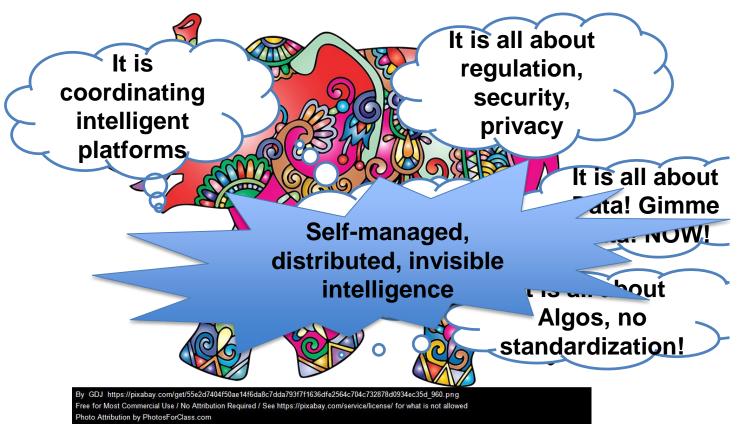


Why do we need to study orchestration of ML @ ITU?





What would we lose if we don't study it (together)?

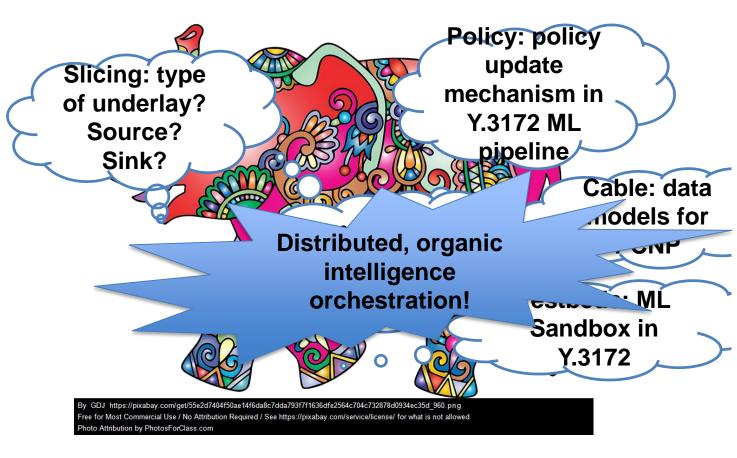


Opportunity to create **high**value, using coordinated standards for deploying and managing ML in networks in an **interoperable** way, across heterogeneous future networks, which produces massive data.

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Strategic direction to be taken by ITU-T



- •For each SG/FG, identify the use cases for ML.
- •Collaborate with FG ML5G on how best to integrate ML.
- •In the standards that we produce, have an "intelligence" handler".
- •Guide/Influence opensource to use standard interfaces for ML integration.

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PCNP: Premium Cable Network Platform [ITU-T J.pcnp-fmw]



exposed for ML

E.g. Depending on the data from edge, Questions fo decide the source and analytics which can exploit it for user experience. - For each SG/FG This will need collaboration with SG/SDO working in this area. hable?

Orchestration of Intelligence = Orchestration of interoperability!

E.g. Batch and Real time analytics from the network using corresponding models selected by MLFO.

E.g. Data abstraction from the network

This will need collaboration with SG/SDO working in this area. Destruction de cases:

for ML-aware XYZ?

is "opportunism"?

on which ML solution is

be

Disaggregated functions (e.g. Opensource) + exposure

Orchestration + Intelligence

is "match-making"?

over capabilities for ML?

Flexible standards (ITU)

based on the data models used in analytics.

Now, can we cut it granular and auto-negotiate those interfaces?

