Unlock the real power of 5G
Problem

It's impossible to operate a 5G network without automation.

[Diagram showing different types of slices: Mobile broadband slice, Ultra low latency slice, Low power IoT slice, Other slices]
3GPP standardized NWDAF

Skyline.

More than a NWDAF.
Solution

NWDAF for multi-vendor VNF events
+ LOGS, RAN KPI, Orchestration metrics, etc.

Collect network data

Analyze all data

Generate automation events

Zero-touch operation

Standard NWDAF use cases
+ Enable anyone to build user & network use cases
NWDAF is necessary, but not enough.

Skyline is an NWDAF and more.
Demo goals

- Showcase Skyline NWDAF monitoring a 5G network with traffic
- Generate anomalies
- Anomaly detection
- Root cause using ML/AI (on roadmap)
- Closing loop to generate Automation
Demo architecture
Scalable discovery & data collection

Production deployment ready
Understand multi-vendor logs

* NLP stands for Natural Language Processing
**Product Roadmap**

**NWDAF R15/R16 Compliant**
- Discovery and Selection (NRF) ✅
- Data Collection ✅
- Exposing data using APIs ✅
- ML Pipeline
- Analytics Exposure
- Use case: Positioning and user profiling to better select slices

**NWDAF with sub-Network Functions (Going to R17)**
- Discovery and Selection (NRF/UDM)
- DCCF-NF improves scalability by coordinating data collection and distribution
  - Data Delivery
  - Data Formatting and processing
- ADRF-NF: Improves scalability by cherry picking data for historical analysis
- Use case
- Expose Network utilization & user experience analytics
- Load balancing of network functions and slices to prevent congestion and assure user experience

**NWDAF Distributed architecture (Edge NWDAF) for ultra low latency use cases**
- Edge NWDAF: implementation for ultra low latency use cases
- Transfer analytics context (in a multiple NWDAF architecture)
- Analytics subscription
- MFAF impl. For data delivery
- Multi-replica VNF support

**Roadmap Timeline**
- Q4 '22
- Q2 '23
- Q4 '23
Be part of this Project
Thanks

It’s ….. Beer **Time!!!**