Right data, right time, in context



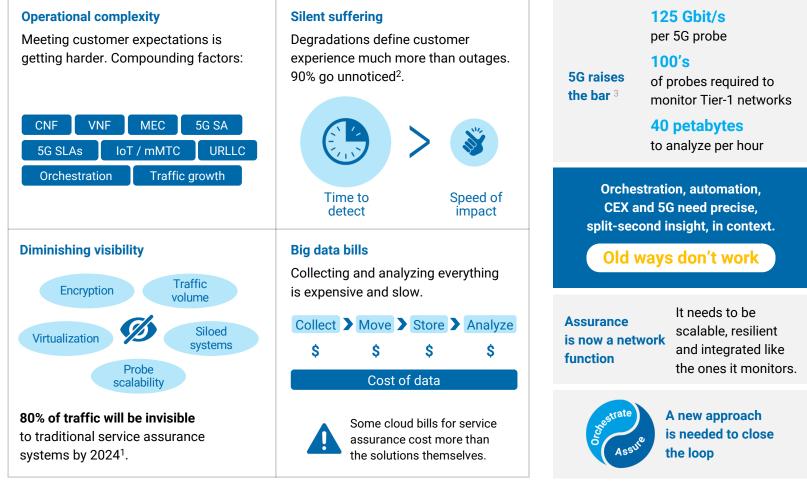
### Table of contents



01	02	03	04	05
Service assurance needs to adapt	Adaptive service assurance	NOVA adaptive service assurance platform	NOVA adaptive service assurance	Glossary
Page 3	Pages 4-5	Page 6	Pages 7-11	Page 12
Existing tools struggle to keep up	CSPs need intelligent, adaptive insight to transform	Platform components	Progressively unlock the value of automation For orchestrated, automated networks Platform coverage Solution coverage Unique viewpoint	Glossary

### Service assurance needs to adapt

Existing tools struggle to keep up in a world of:



1. EXFO sales engagements with Tier-1 U.S. operators, 2020

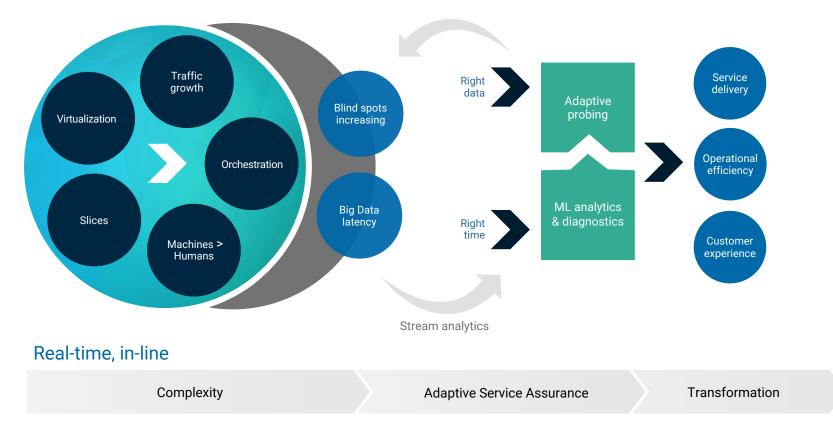
2. Heavy Reading customer survey 2019, EXFO customer data and EXFO advisory board input

3. Estimates provided are based on 5G network probing requirements provided by leading Tier-1 North American operators

02

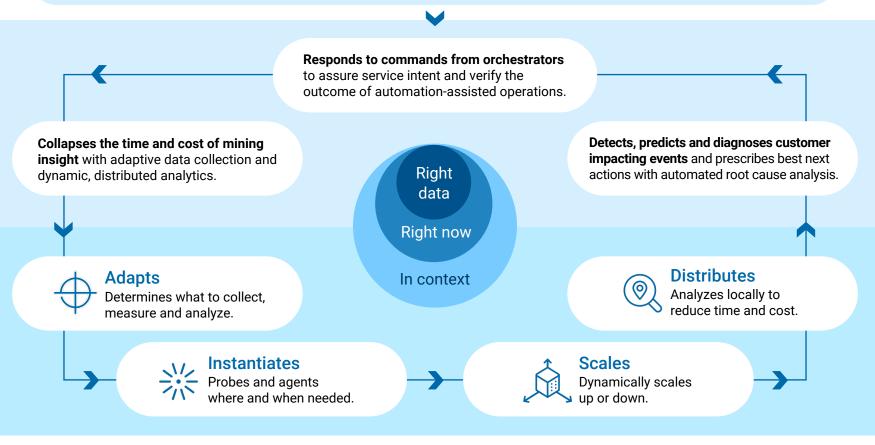
### Adaptive service assurance

#### CSPs need intelligent, adaptive insight to transform



Operators are drowning in big data while losing access to insight at a time when they need to simplify operations and accelerate business outcomes.

Adaptive service assurance uses Al-driven automation and analytics to shatter big-data overhead and **reveal the small data that matters in the moment** to enable real-time operations and network automation.

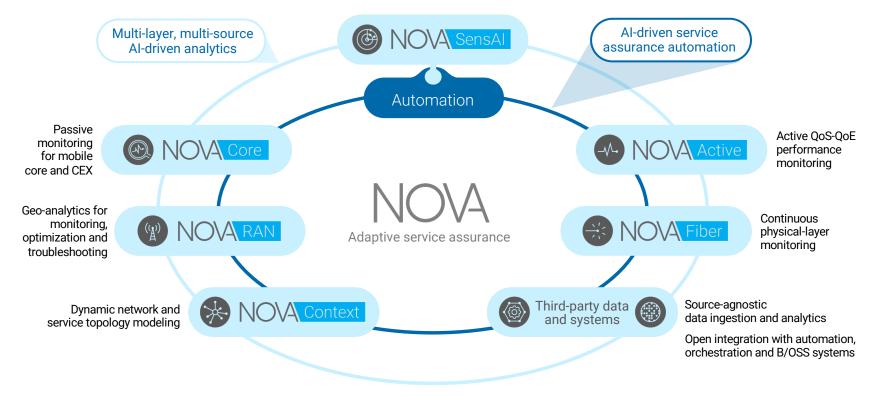


**Extracts context, insight and value from existing systems** by openly ingesting data from service assurance, B/OSS, network functions and more.

### NOVA adaptive service assurance platform

Nova adaptive service assurance uniquely delivers contextual insights that relate service quality and customer experience to infrastructure performance across all layers and domains-fiber, core, cloud, RAN and transport networks. Nova SensAl's modular analytics and automation platform integrates feeds from one or more monitoring domains. Nova platform components and third-party systems integrate to assure multi-vendor networks, services, applications and infrastructure.

#### Platform components

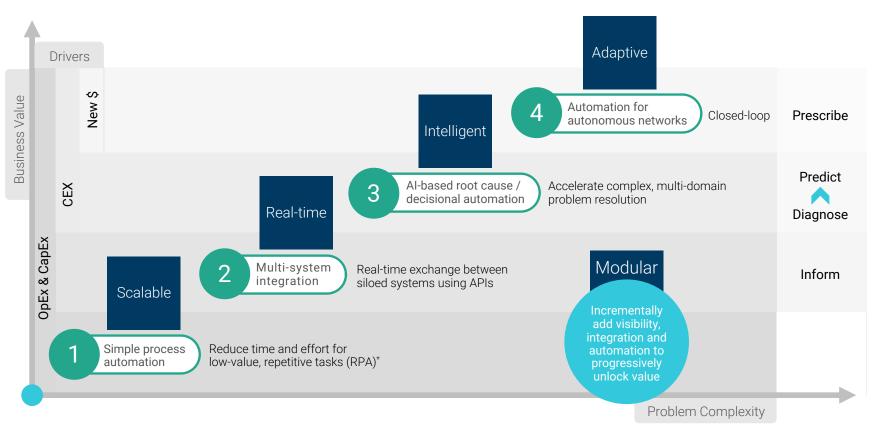


03



# Progressively unlock the value of automation

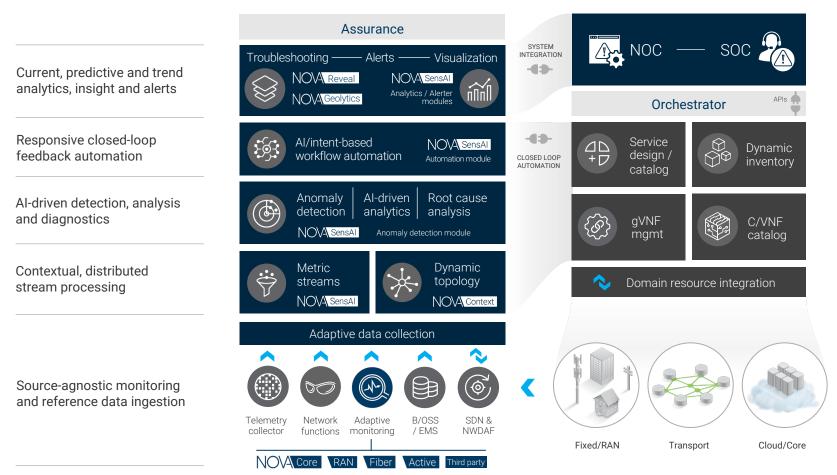
Automation is a journey. Each step adds incremental value. Delivering a new level of customer experience and generating new revenue requires intelligent automation that learns and adapts to current conditions. All is required to move from simple scripted automation to predictive insight and autonomous action. Effective automation simplifies and accelerates operations.





### NOVA adaptive service assurance for orchestrated, automated networks

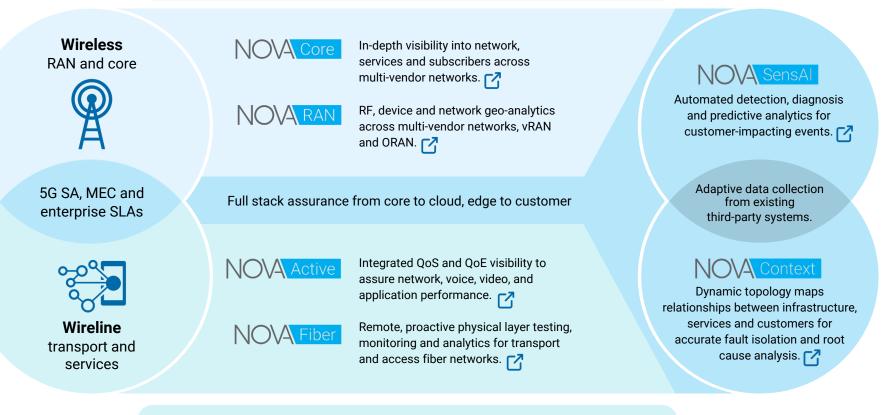
Cloud-native networks require close collaboration between man and machine. Because every automation journey is unique, the Nova platform is modular. Add components selectively to build an open, multi-vendor orchestrated network, incrementally.



#### Platform coverage

Cloud-native 3G-4G-5G passive monitoring and troubleshooting from core-to-RAN

04



xHaul, slices, MEC • Business services • DCI/Cloud • FTTx/Triple-play • IP transport

#### Solution coverage

Service providers use the Nova platform to overcome operational challenges, advance automated cloud-native networks, accelerate new revenue and deliver a differentiated customer experience.

NOVA platform	m Solutions and components*	SensAl	Core	(A) RAN	Active	Fiber	Context
Network performance	Assure and optimize networks to enhance customer experience with an integrated view of network and service performance.						
Service quality	Ensure every user and device gets the experience they need with an integrated view of application, network and infrastructure performance.	•	•	•	•		•
5G and mobile	Accelerate the deployment of 5G. Monitor and optimize 3G/4G/5G networks and services from core to RAN to customer.	•	•	•			
Automated assurance	Adaptive, automated insight for orchestrated networks with fast Al-driven problem detection and diagnostics for closed-loop control.	•	•	•	•	•	•
Fiber monitoring	Deploy, optimize, maintain fiber networks for 5G, enterprise and residential services with continuous physical layer monitoring and analytics.	•				•	
OTT QoE	Deliver exceptional quality of experience to differentiate and drive loyalty with network-aware OTT video and application monitoring.	•	•		•		

04

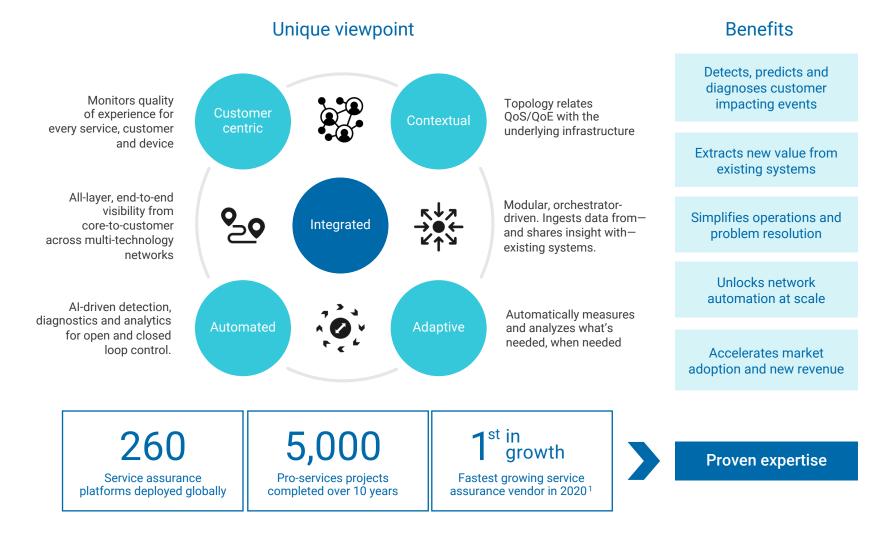
to get things done-simply and efficiently.

Modular solution components integrate with existing systems

to provide real-time, prescriptive insight that breaks down siloes

The Nova platform also assures the adoption of MEC, slices, private networks, and O-RAN.





### Glossary

- AI artificial intelligence AMPU average margin per user
- API application programming interface
- CNF containerized network function
- CSP communications service providers
- eMBB enhanced mobile broadband communications
- IoT Internet of Things
- LLC low latency communications
- LTE long term evolution (4G)
- M2M machine to machine
- MEC mobile edge compute
- ML machine learning
- mMTC massive machine type communications

- NFV network function virtualization
- NFVI network function virtualization infrastructure
- NPS net promoter score
- OTT over the top
- PNF physical network function
- QoE quality of experience
- QoS quality of service
- SLA service level agreement
- SP service provider
- UR ultra reliable
- VNF virtualized network function
- VoIP Voice over IP
- VoLTE Voice or LTE



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