

Reducing costs and customer churn-rate through converged Service Quality Management



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Area **17 125 187 km²**
(the biggest in the world)

85 subjects (states)

Population **146 100 000**
(9th place in the world)

Active internet and telecom
services users **59%**
(68.7 mil. People 18-55 years old)

Found in 2010 (first project)

Russian Software Developer

- The most successful SLA monitoring solution, №1 in Russia
(*>23K monitoring end-points*)
- Team of more than 100 employees
(*developers, testing crew, engineers, sales and analysts*)
- Over 100 man/years of development service assurance solutions
- Headquarters in Moscow, R&D in Novosibirsk

Main projects:

Rostelecom (>10K), MTS (>1k), Russian Pension Fund (>2K),
Ministry of Law (near 2K), FSO (KGB) (>300) etc.)



IP services monitoring and management customers:

Telecom operators and
service providers

Cloud service providers
(Data Centers)

Government
Institutes, Dept's.

SME/SOHO

Large Corporate
Enterprise (banks, retail,
energy holdings)



Russian SLM market assessment in 3-5 years

Market segment	Service Access Points (mil.)	Service Cost per end-point (USD)	Size of the market,
IP VPN services	1	300	300
Corporate IT services and	5	150	750
Cloud Services	10	35	350
Internet Access (Broadband, 3G,	50	15	750
M2M services (e-government, etc.)	100	10	1'000
Overall size of Russian SLA management market			3'150

Basic trends:

- Increasing service value for B2B, B2C
- Telecom and IT services demands to be monitored
- Monitoring per service cost value must be decreasing to cover more services and area

Poor quality services became a stereotype of the business on the telecom market

Most customers noted high operator response time on service problems

Over **50%** of customers are not satisfied with service level provided

Over **60%** of customers do not use helpdesk call-center services



Ростелеком

Rostelecom

Is Russia's largest national telecommunications operator with presence in all Russian regions.

Over 500 000 B2G and B2B customers

10.6 million fixed-line broadband subscribers

Has the largest backbone network in the country with a total length of about 500,000 km.



Service Level Management

- Year **2013-2015**
- B2B, B2G oriented
- L3/L2 Virtual Private Network services

SLA management, proactive service monitoring, responsibility demarcation, conflict management

Customer Experience Management

- Year **2016-2017**
- B2C oriented
- Broadband Internet Access, 3G/4G services

CEM Assessment, Internet, IPTV and VoIP SQM

- **Network Complexity**

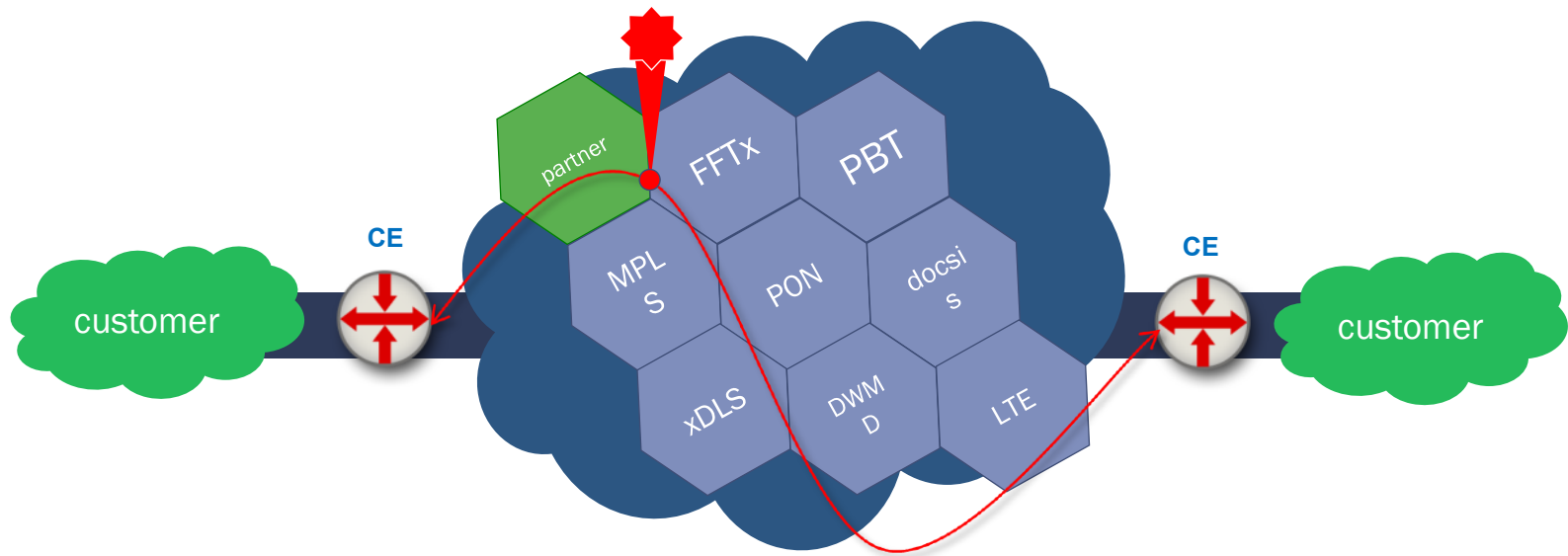
- Multi-vendor, multi-technology network

- **Third parties involved**

- a complex structure of partnerships, it is difficult to determine where is the problem and who is responsible

- **No standards**

- Absence of unified standards and methods for quality control of packet network



SLA implementation can fix the situation

AS-IS

- No customer experience view, no tools to measure and monitor customer service quality
- A lot of monopoly regional operators, partner service level is poor, no tools to demark responsibilities with partner
- Large regional department branch, no transparency across end-to-end regional customer services

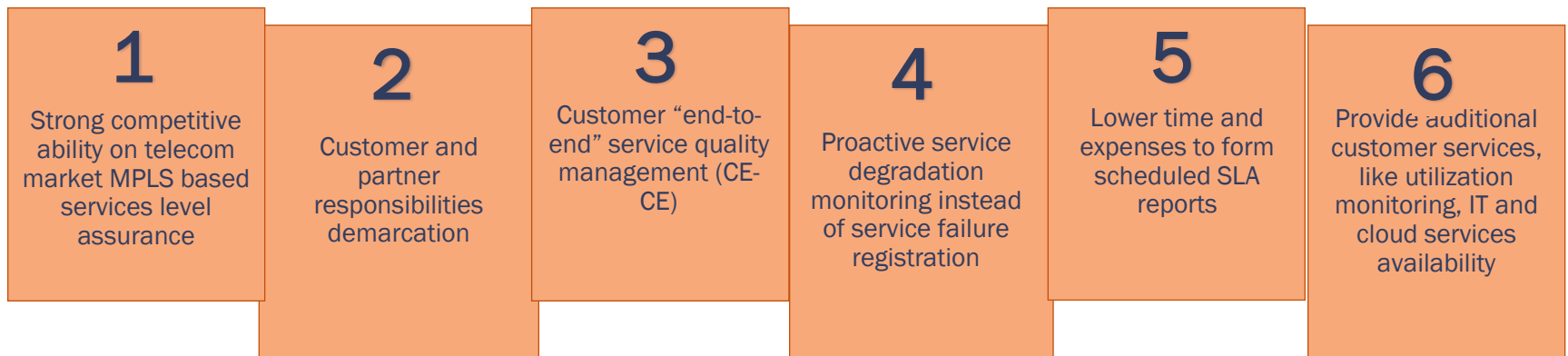
TO-BE

- Customer experience based on service quality is being measured and proactively monitored
- Partner responsibility boundaries are defined and UC agreements are signed
- Transport network are monitored and demarcated, department OLA`s are implemented

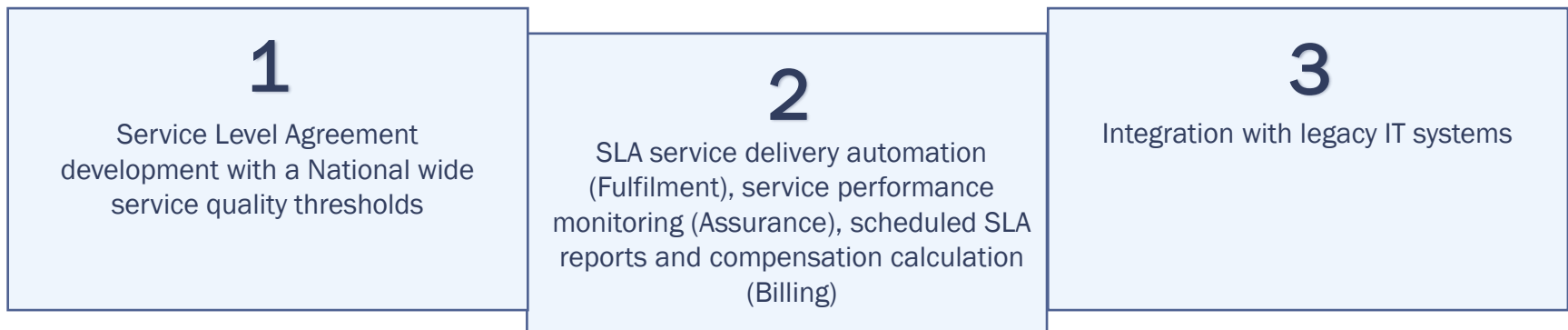
Decision:
To deploy an SLA management solution

Increase key customers loyalty and B2B/B2G services differentiation by providing a guaranteed service level

External goals:



Internal goals:



1

Service quality management and Assurance SLA process automation platform – an innovative solution for telecom, IT and cloud services

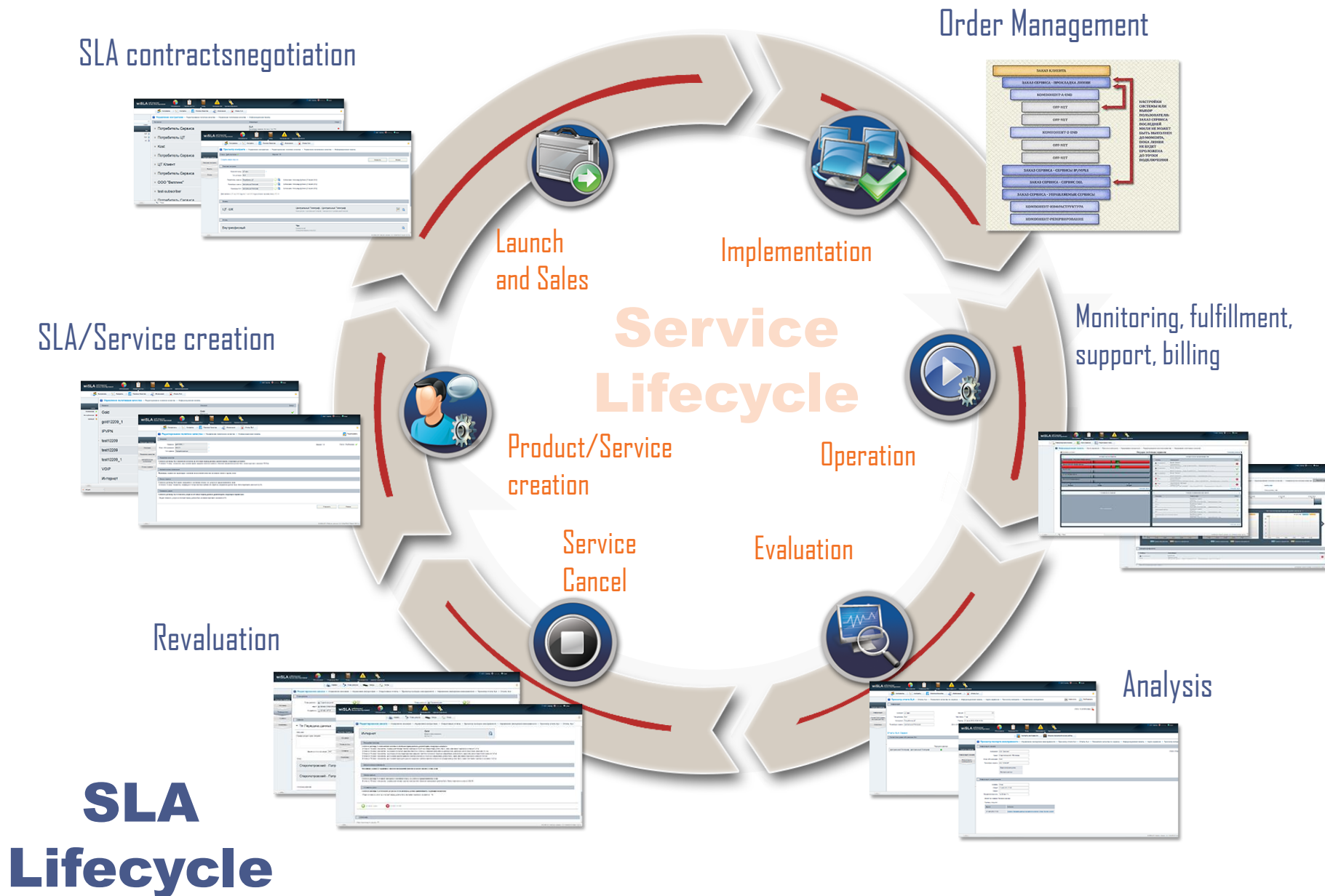
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A comprehensive customer service quality vision. A tool to project it onto company business-processes

3

Efficient conflict management solution based on responsibility demarcation and real-time monitoring

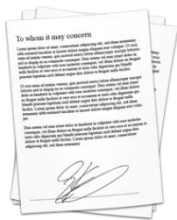
- **Multiportal architecture** – customer and partner self-care access
- **Big Data inside** - handle a huge amount of probe data (>1M)
- **Process-oriented architecture and SOA principles**
 - easy operation and integration
- **Business Process Engine Inside** – easy manage and customize SLA management processes



- Increase revenue pre customer due to value added SLA services
- Lowers churn-ratio due to increasing customer loyalty



Customer SLA (Service Level Agreement - SLA)



Internal SLA

(Operational Level Agreement – OLA)

- Customer SLA service internal assurance
- Increasing corporate business process efficiency



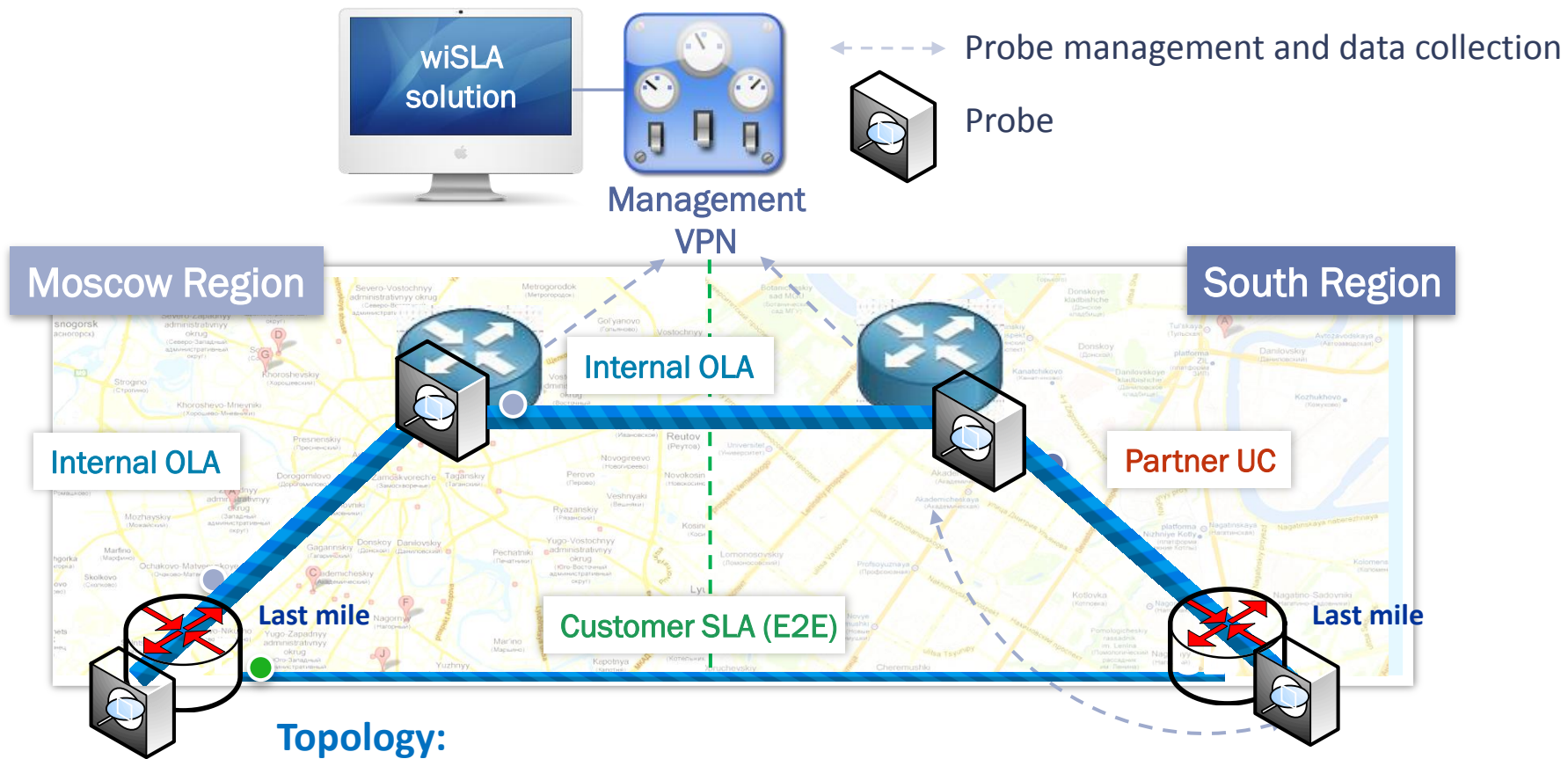
- Lower the risks of customer SLA violation



Partner SLA

(Underpinning Contract - UC)

VPN service SLA proactive monitoring



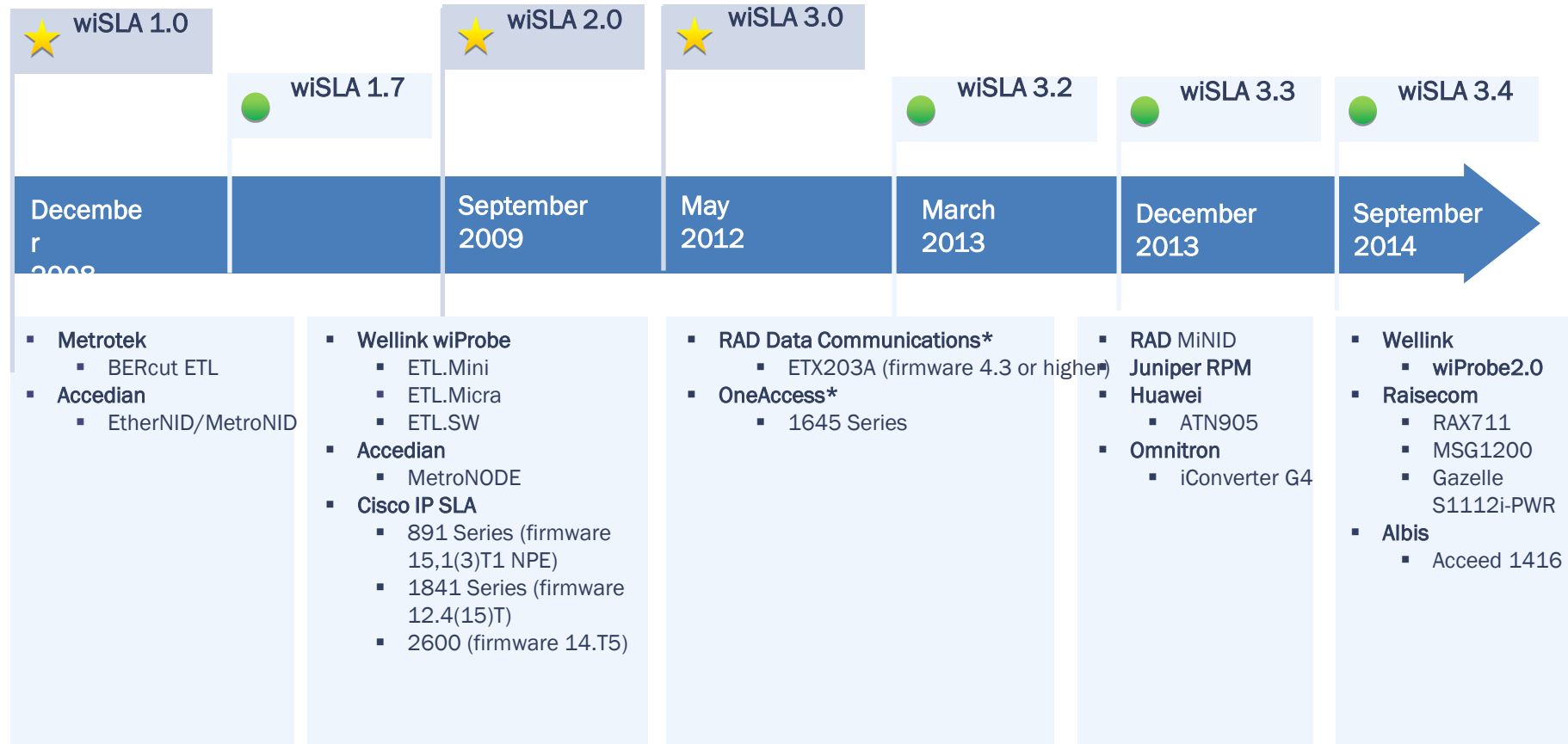
Topology:

- «Star» with no access points limit
- «Star-in-Star»
- «Full-mesh»

wiSLA supported devices

★ - Major Release

● - Minor Release



Metrotek

JUNIPER
NETWORKS

ACCEDIAN
NETWORKS
HIGH PERFORMANCE SERVICE ASSURANCE™

HUAWEI

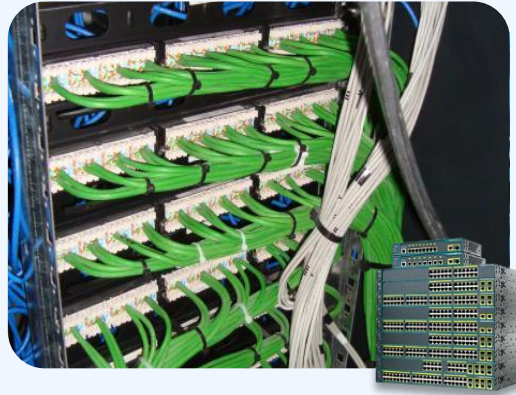
CISCO

RAISECOM

RAD

ФАКТОР

ONEACCESS
NETWORKS



Customer SLA

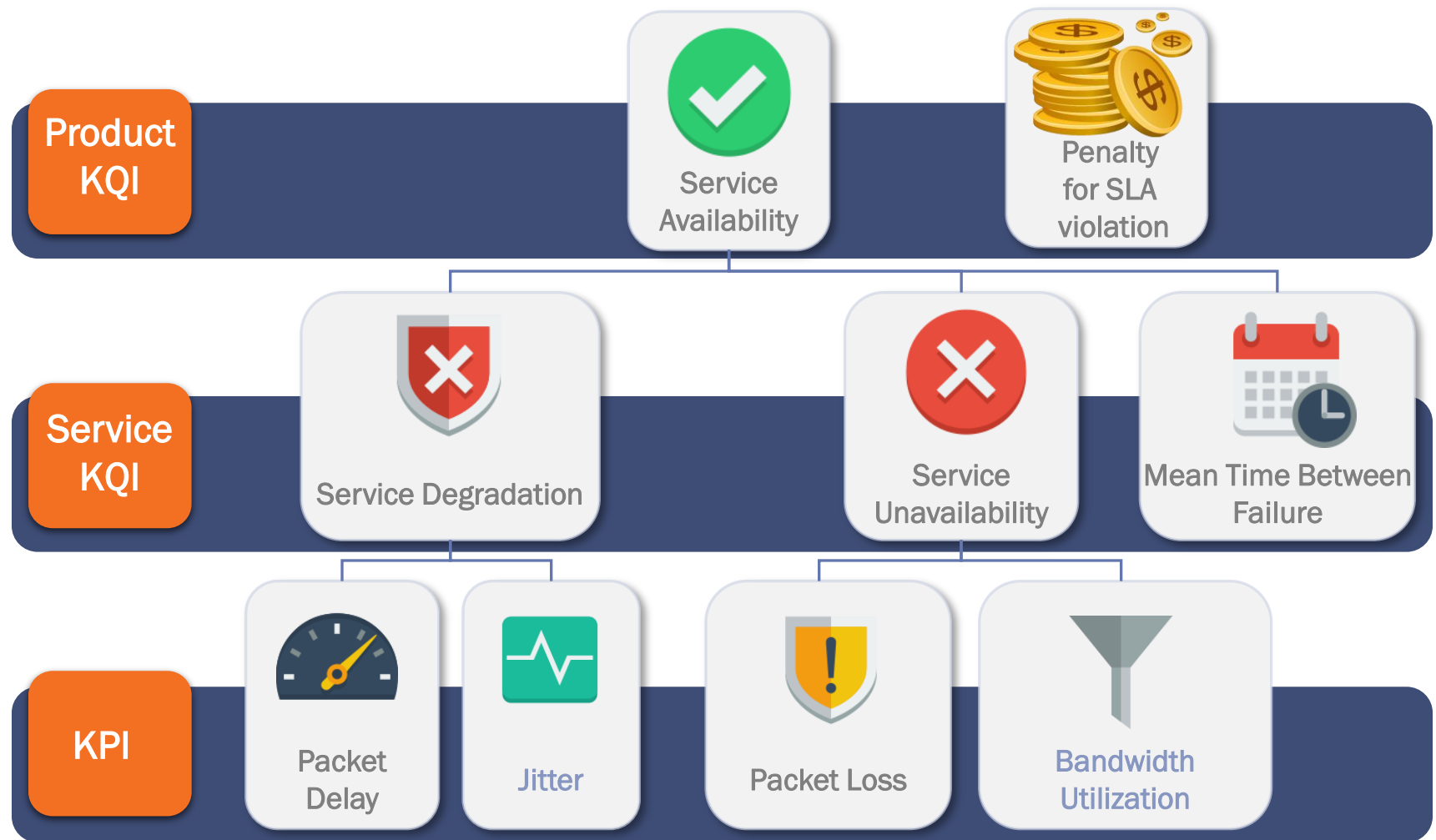
- Wellink wiProbe family devices with L2-L7 service quality measurement
- Cross-IP address network solution
- self-management & configuration

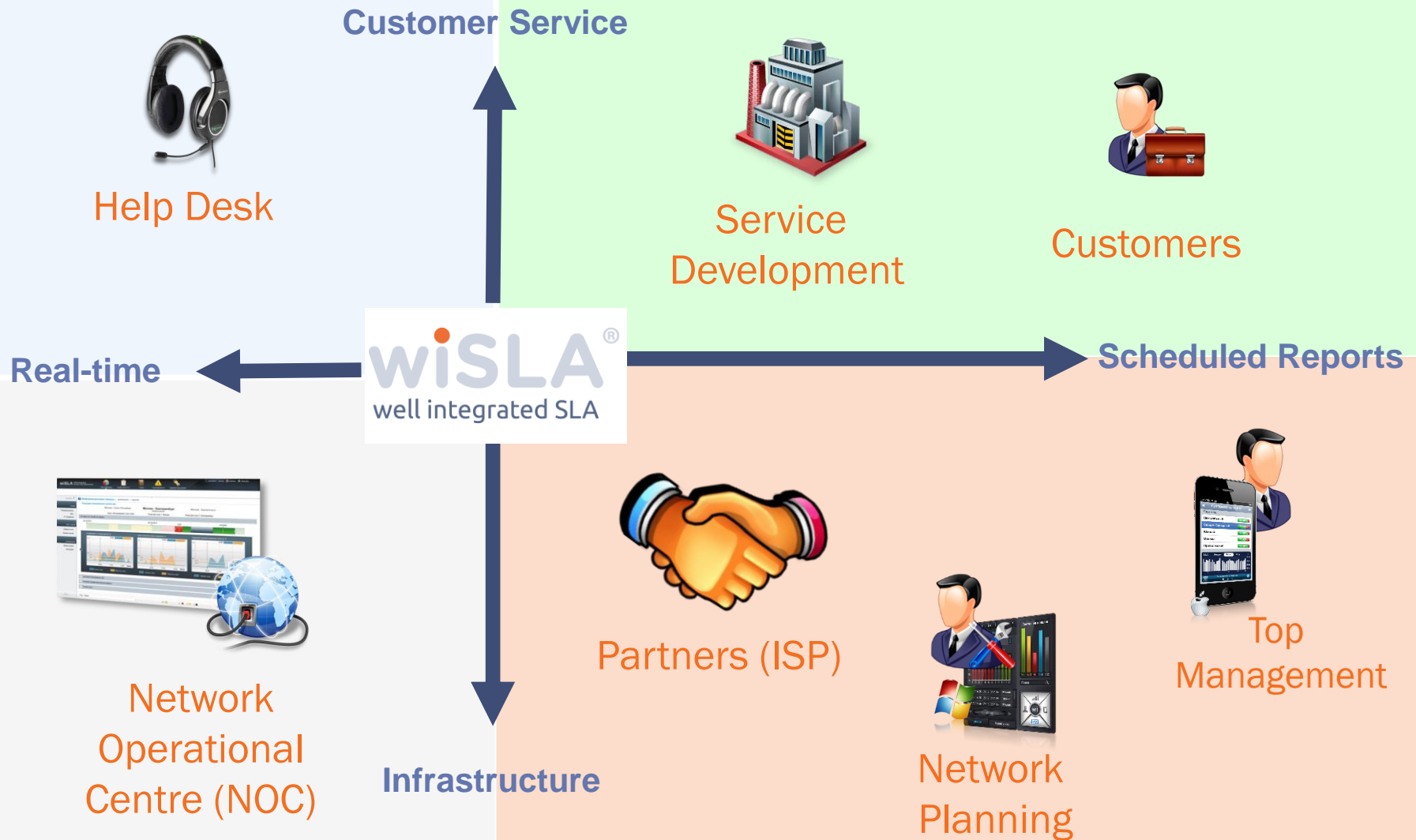
Core Network Monitoring (OLA)

- Network equipment embedded measurement technologies (OAM, Cisco IP SLA, Juniper RPM)
- null-cost solution
- Fast coverage spread across the network

Partner SLA (UC)

- Accedian EtherNID/MetroNID family demarcation devices with 100 Mbit/s – 10 Gbit/s interface support
- high performance and measurement precision





Service Oriented WEB Interface



Mobile access to service quality info

WELLINK
well integrated



iOS

Windows Gadget

Android



1

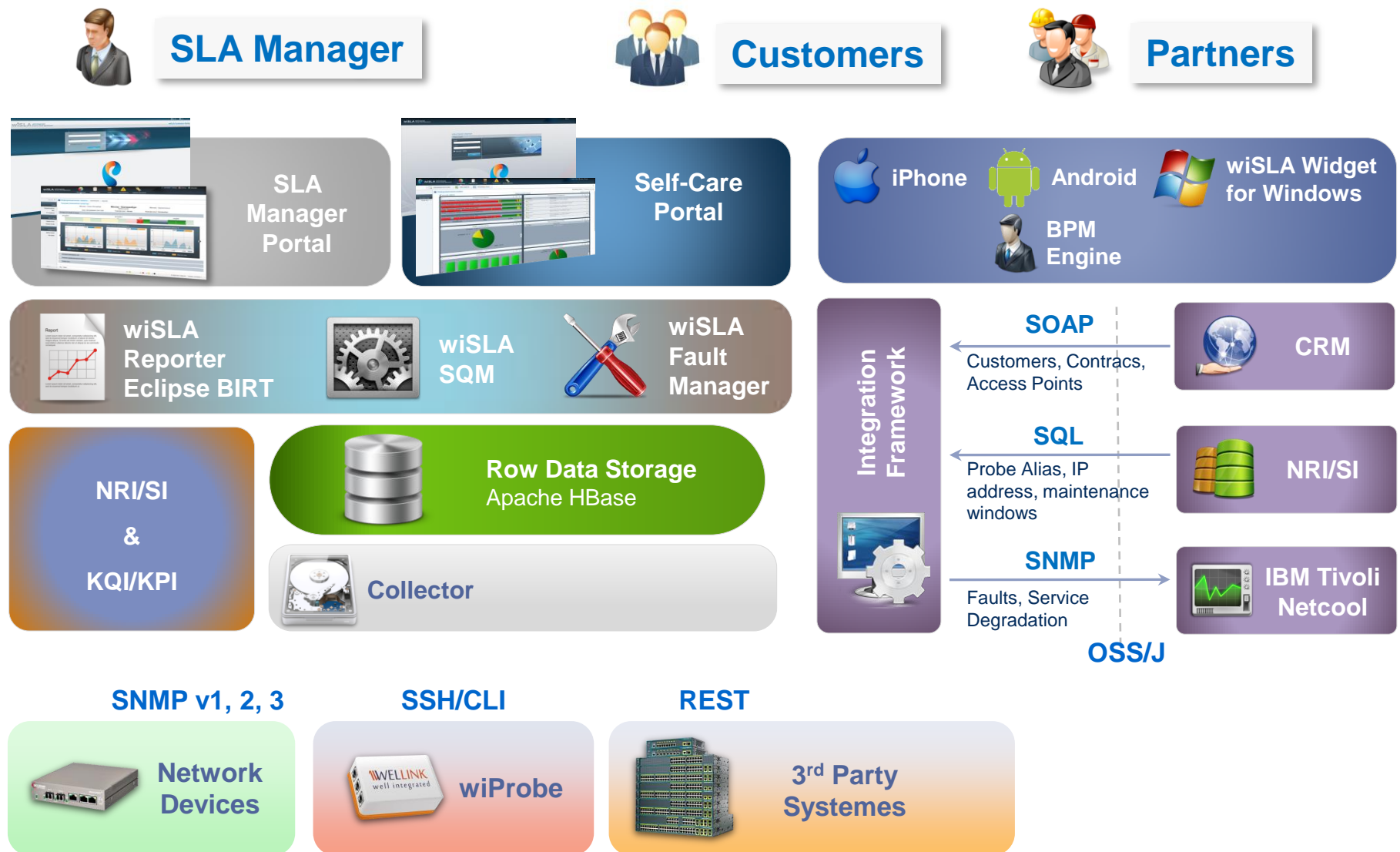
SLA management methodology is complied to TM Forum GB917 SLA Management Handbook

2

System integration framework is based on TM Forum NGOSS and OSS/J SOA Enablement APIs

3

Customer SLA concept is based on ITU-T E.860 Framework of Service Level Agreement SLA



Thank you!

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Russia Today
www.youtube.com/user/RussiaToday

