



How to Collect Tolls While Keeping Drivers Happy

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Who Are We

and what do we do?

- ► Splunk's First Premier Partner CZ/SK
- Main Fields
 - Cybersecurity solutions (ISO 27000)
 - ITOps optimization (ITIL®, ISO 20000)
- ► Complex Integration Projects
 - Utilities, Transportation, Healthcare
- System Integration Awards

Splunk enthusiasts ©





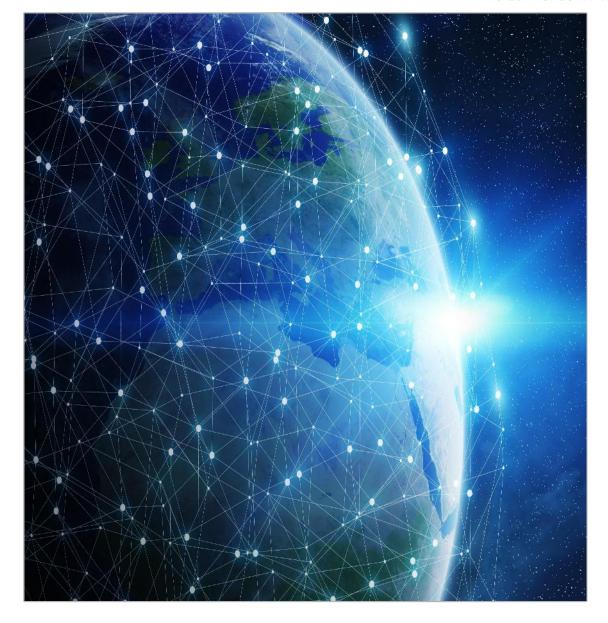


SkyToll

Traffic Intelligence

- Road Tolling
- ▶ Traffic Management Solutions
- Intelligent Railway Protection
- ► Intelligent City Traffic Management

SkyToll = progressive solutions and services for Intelligent Traffic Management with benefits for both government and users.





MYTO = Toll System in Slovakia

State of the Art Satellite Toll/e-Vignette System



Real EU
concept of
"toll system of
the future"

Months

Built and fully operated

%

Efficiency of toll collection after 1st year

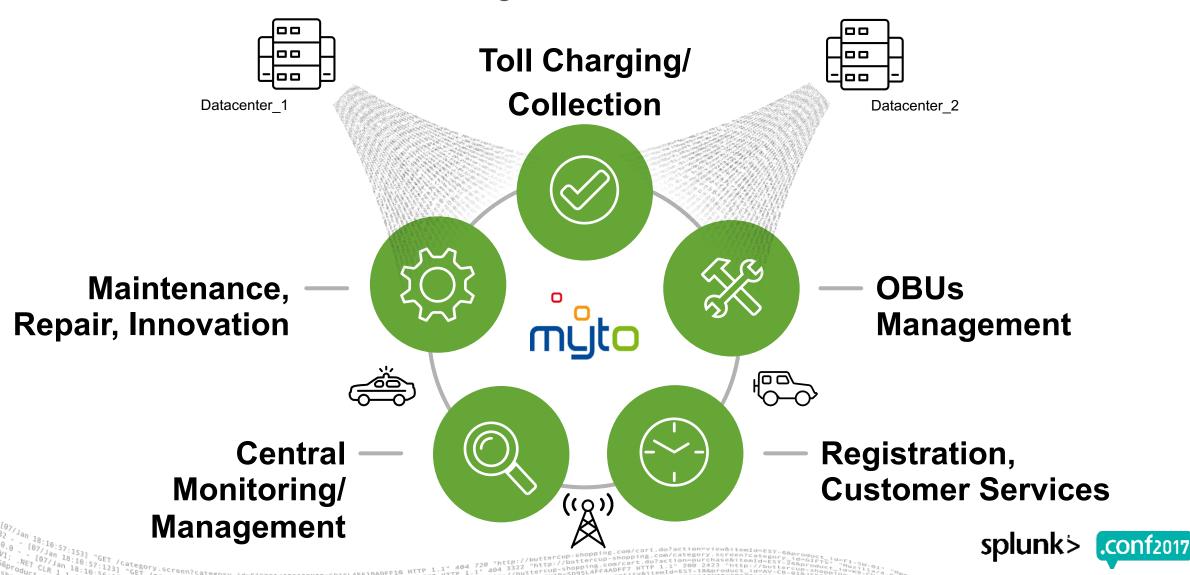
Km

Network of tolled roads, Largest in EU



Data Everywhere

How to gain benefits from...



About the Project

Ideas & Motivations



Easy Ride

Who do we need to keep happy?

- Drivers
 - PoS (OBUs, tollpoint machines)
 - On-line portals (<u>eMyto.sk</u>, <u>eZnamka.sk</u>)
- ► Toll System Provider (SkyToll)
 - SLAs Fulfilment
 - Efficient Operations

A Challenge We Accepted





The Right Time to Collaborate

Top line management expect it





How the Project Was Born

From the business users groups view



"Nice tool... and analytics too?"

Infrastructure Team





"We have cross-dept issues... Can you solve them?"

Service Operations Team





"I need to see my 10 SLA parameters clearly."

Top Line Management







Project Design

Complex and functional













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External Lookups

Asset Employee & CMDB Info

Threat Intelligence

Applications

Data Stores



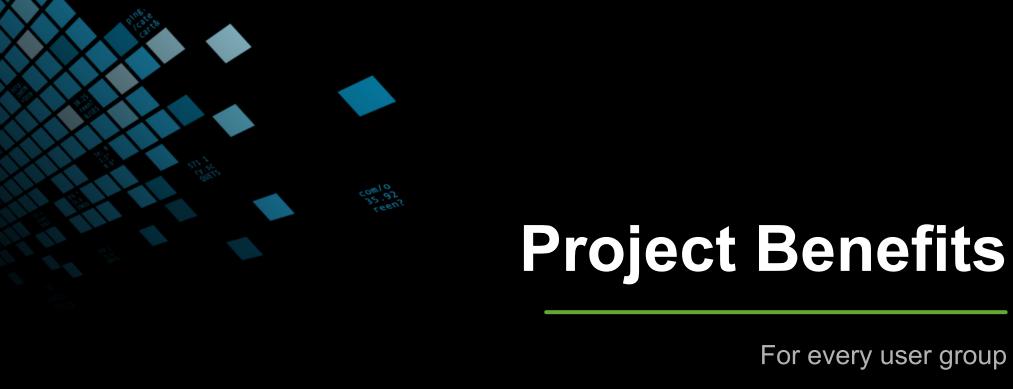














Infrastructure Team



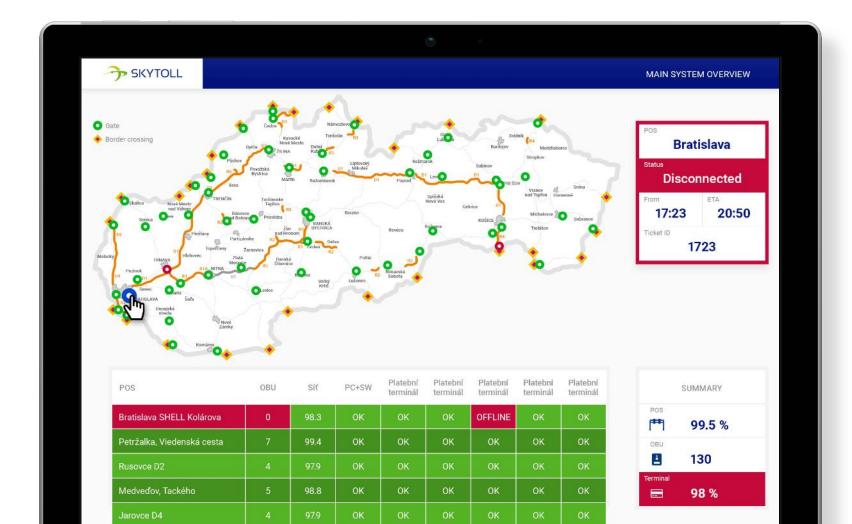
They got what they didn't have



- ▶ IT Operations
 - Systems vs. Services
 - Real Cause Analysis
 - Anomaly Indication
- ▶ IT Security
 - Security Islands Integration
 - Relevant Alerting



Operations Manager Appreciating business insights



- Business Metrics
 - Good KPIs
- Incident Consolidation
 - Related to Services
- Credible Reporting
 - No do-it-yourself .xlsx
- Capacity Planning
 - Relevant budgets



The CTO

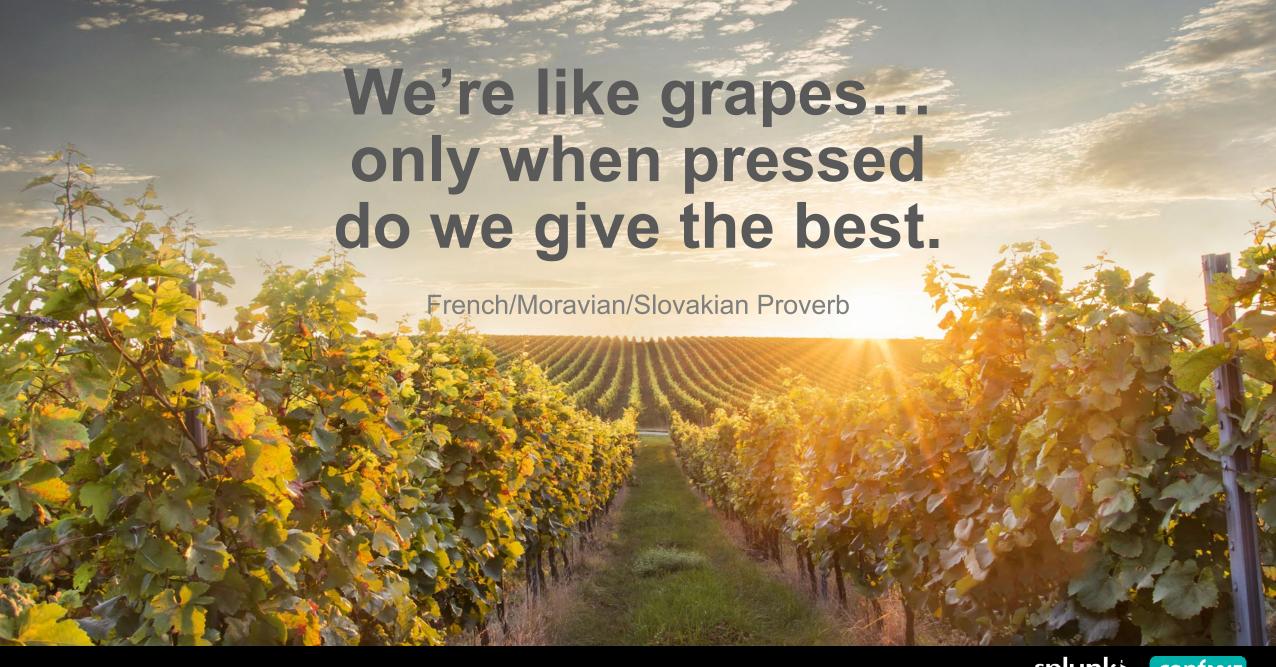






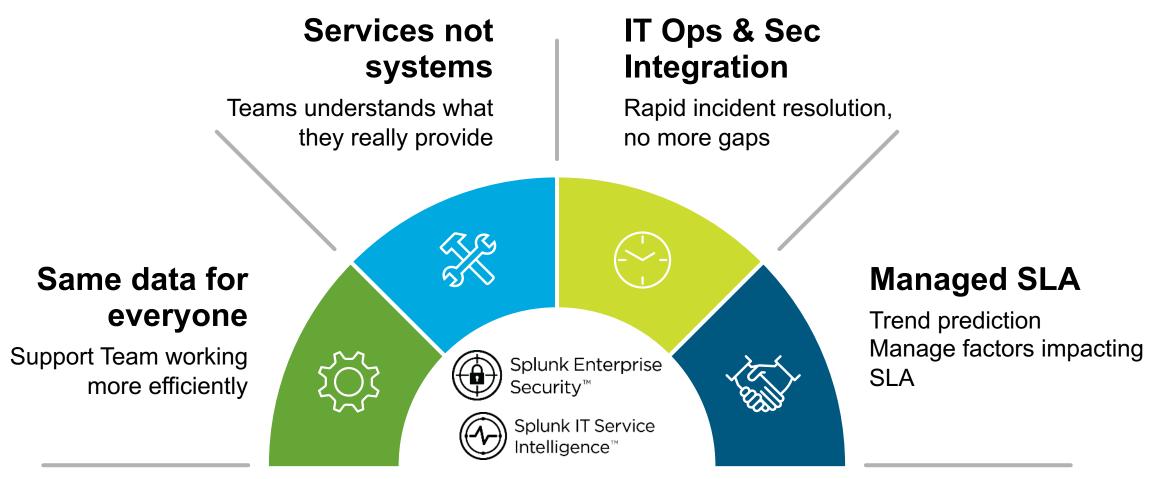
- Customer Views
 - Predictive SLA Score
 - "My Ten…" Dashboard
- "Discarded Tracks"
 - Win-Win
- No gaps between departments
 - Same data/dashboards for everyone





What Benefits Skytoll Received

And users appreciates





Future Plans

What's left on our wish list?

- ▶ For IT Operations
 - Improve Anomaly Detection (toll gates, ...)
 - New scenarios (combining Ops & Sec views)
- ► For IT Security
 - Higher Level of Risk Management
 - Preparation for new legislation (Cybersecurity Act, GDPR)
- ► For Business
 - "Discarded tracks" fine tuning (revenue generation for NDS & SkyToll)
 - Toll Service Car monitoring
- ...always considering new ideas ©



Without Our Team

Nothing would be possible





Thank You

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