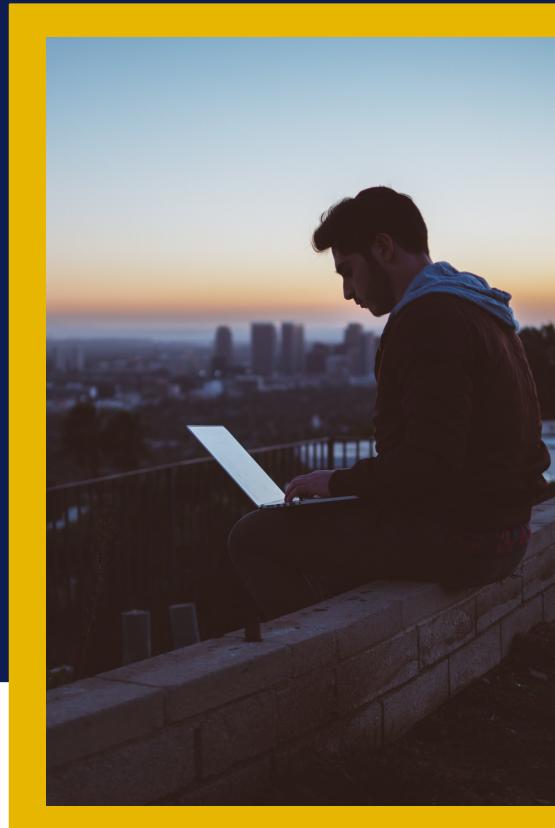




# Turn your operations knowledge into service automation

Over **70% of the total cost of ownership** (TCO) of an enterprise application is spent on operations and maintenance. Also the services and support processes bear **many inefficiencies** like missing information, re-investigation of recurring incidents, repeated manual implementation of solutions, and in general a lack of documented and well structured knowledge. Based on our Smart Ops implementations at leading European Auto OEMs, IT organisations can **reduce service cost** and **improve service quality** by addressing these areas.



## What is Smart Ops?

Most of the data collected during service operations is of **unstructured form**: tickets raised by end users, error messages generated by monitoring systems, or solutions documented by ops agents. Smart Ops leverages the **power of natural language processing** (NLP) in combination with

**automated knowledge management** to provide self-service capabilities through real-time interfaces like **chat-bots or web portals**. Smart Ops can also interact with users using the **existing ticketing tool**, so that Smart Ops can also be introduced without affecting the existing service processes.

## Benefits

**78%**

*of tickets could be reduced by applying Smart Ops tools at an automotive OEMs global service desk for car diagnosis devices.*

- Fast start into the Smart Ops journey with the first tangible results delivered after 2-3 days.
- Step-by-step implementation with strong focus on cost-benefit ratio.
- Operational insights are harvested in knowledge trees and drive KPIs like first-call-fixed, call-prevention and automation rate over time.
- Pre-tuned machine learning (ML) models reduces data science efforts.
- User interaction supports traditional ticket-based workflow and modern real-time channels like portals and chat-bots.
- Cloud native architecture of Smart Ops with state-of-the-art serverless components reduces runtime cost.
- No vendor lock-in with support for all leading hyper scalers.

# Delivered Value

**“** The introduction of Smart Ops allowed us to quickly start the transition periods with focus on areas with high efforts and low service quality.  
**Dr. Peter Brössler** | VP DevOps Transformation



The service operation knowledge is often buried in the heads of the ops agents as daily business does not allow the maintenance of a knowledge base with capabilities beyond simple run-books. With Smart Ops, the **operations insights are drawn out of the existing ticket data** and new insights are

harvested in a knowledge base. The **knowledge base is at the core** of Smart Ops and determines the capabilities of various Smart Ops components like **self-learning chat-bots** which no longer are hardwired to isolated use cases.



## Smart Ops Components

The Smart Ops framework is based on a set of loosely coupled services that can be implemented in a step-by-step approach.

- **Smart Analyser:** Clusters tickets based on ticket text and other ticket data. Guide the Smart Ops journey to good cost-benefit ratios.
- **Smart Dispatcher:** Automatically categorises and routes tickets to support groups based on ticket text, also recommends solutions to users or agents.
- **Smart Knowledge Tree:** Automatically arranges knowledge articles in decision

trees which can be used other Smart Ops components and ops agents.

- **Smart Agent:** Provides solutions or requests missing information in chat conversations or tickets
- **Smart Automation:** Based on NTT DATA's own RPA technology WinActor™ and allows the automation of operational tasks where no APIs for programmatic access are available.

## The Power of Knowledge

Smart Ops does not solely rely on ML models and transfers the data-driven insights automatically in an ever growing knowledge tree.

The knowledge tree can then be used by the Smart Ops components to lead chat conversations, match solutions to incidents or identify missing information in ticket data.



## Start Your Journey Now!

Book a **free discovery workshop** with our SmartOps team today and gain new data driven insights at:  
[smartops@nttdata.com](mailto:smartops@nttdata.com)