



Embamunaygas JSC
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**SAP
Innovation
Awards 2019**

SAP Innovation Awards 2019 Entry Pitch Deck

Efficiency of management of the special vehicles

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<https://youtu.be/ohXGxpkLw9Y>



Efficiency of management of the special vehicles

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“Quote”

The project is aimed at achieving specific and measurable economic goals, and the dynamics of obtaining the results of the project, which we see, we are completely satisfied.

Challenge

Develop a system that is a centralized data warehouse that allows you to consolidate in one place all the necessary information about vehicles, invoices, applications for transport. Which will improve and facilitate decision-making processes and minimize the human factor on the input data.

Solution

The receipt of applications for vehicles in a single center and their distribution among transport, on the basis of a technical time sheet in real time (implemented in the SAP Cloud Platform). Obtaining data on fuel consumption and mileage from sensors (IoT). Analysis of the effective use of special vehicles based on data from the SAP Analytics Cloud. Everything was implemented in the environment Cloud Foundry.

Outcome

The work of the transport service was maximally automated, the fuel consumption in the pilot zone was reduced by 40%, the facts of inefficient use of special equipment and the reasons for transferring some type of transport to the contractor were revealed.

Actual fuel consumption
reduced 40%

Work is automated on 80%

Irrational use of internal
resources was revealed



Partner Information

ERP-Service LLP

Developer and consultant



ERP-Service is a partner that is our Supplier in the field of automation of business processes and accounting system. ERP-Service is a system integrator of SAP products and a recognized leader in the implementation of modern business solutions and information technologies to improve business efficiency!



Business Challenge & Objectives

High unplanned deferments because of unreasonable awaiting time for special equipment and vehicle for production operations.

Vehicles and equipment are not assigning to the locations where they are the most needed, but to the locations where the management is “shouting louder”.

The company does not know where the special vehicles and equipment are located at the moment.

High and unpredictable costs of fuel and consumables (tires, batteries, etc.).

- Reduction of waiting time for special vehicles;
- Efficient distribution of transport;
- Obtaining the cost price for each type/brand of machinery;
- Implement a single, transparent system of accounting for transport support;
- Development of analysis and visualization tools.



Project / Use Case Details

The object of automation is transport processes of Embamunaigas JSC, which participates in the main business processes for oil and gas production, as ancillary equipment, for example, in current repairs of wells, in overhauls, transportation at fields associated with production technologies.

The main tools for implementing the model are SAP ERP business applications, SAP Cloud Platform development tools, analytical tools and SAP Analytics Cloud system visualization tools. Integration of third-party software systems, such as Wialon, 1C with the SAP ERP system and SAP Cloud Platform. It is supposed to use the above data to analyze the quality of the execution of business processes in the production part and to analyze the efficiency of the company's transport provision.



Benefits and Outcomes

Business / Social

The work of the transport service was maximally automated, the fuel consumption in the pilot zone was reduced by 40%, the facts of inefficient use of special equipment and the reasons for transferring some type of transport to the contractor were revealed.

IT

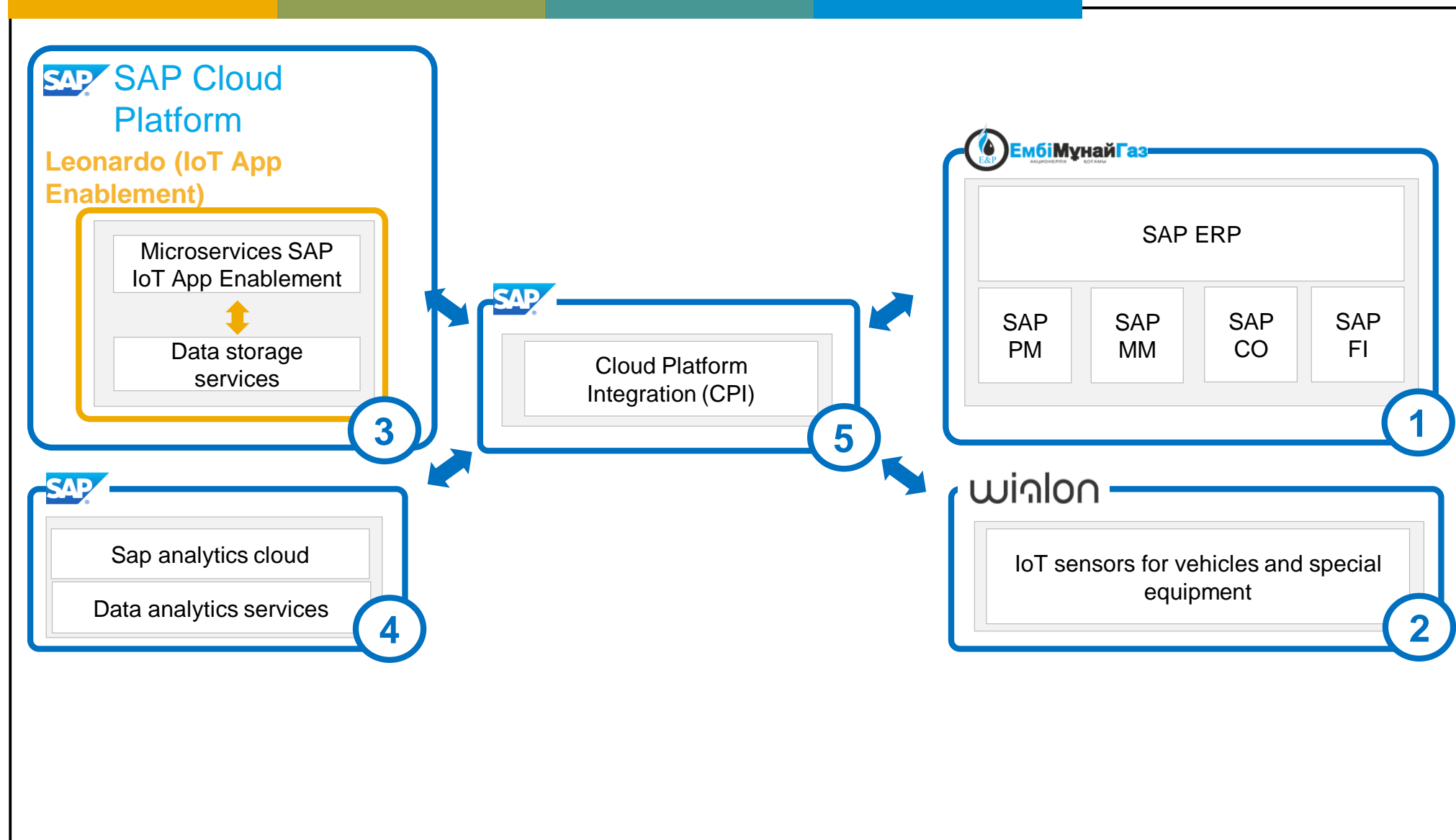
The use of the tools IoT, enabled to control the fuel consumption and the movement of vehicles. SCP development tools made it possible to implement the project in a short time. Various systems were integrated. Everything was implemented in the environment Cloud Foundry.

Human Empowerment

Monotonous work was automated on 80%.



Architecture





Deployment

Date of Deployment or POC: 03.01.2019

Number of live users: 100

SAP Technologies Used:

IoT -	fuel consumption and traffic vehicles
SAP Cloud Platform -	application development tool
SAP Analytics Cloud -	development of analytical reports and visualization tool

Server Processor:

Linux Distribution:



Emerging Technologies and Use Cases

The following Emerging Technologies and use-cases are part of the project and describe the contribution

	Technology or Use Case	Yes/No	Contribution to Project
1.	Machine Learning / Artificial Intelligence		
2.	IoT	Yes	fuel consumption and traffic vehicles
3.	3D printing		
4.	Blockchain		
5.	API Economy / Integrate the Intelligent Enterprise		
6.	Cloud Native / Event Based Architectures		
7.	Extending the digital core with SAP CP / ABAP in SAP CP		
8.	SAP Leonardo Application (extending SAP application, using Industry Innovation Kits or result of Design Thinking workshop)	Yes	application development tool