

CLUSTER OF AUTOMOTIVE INDUSTRY OF SAMARA REGION

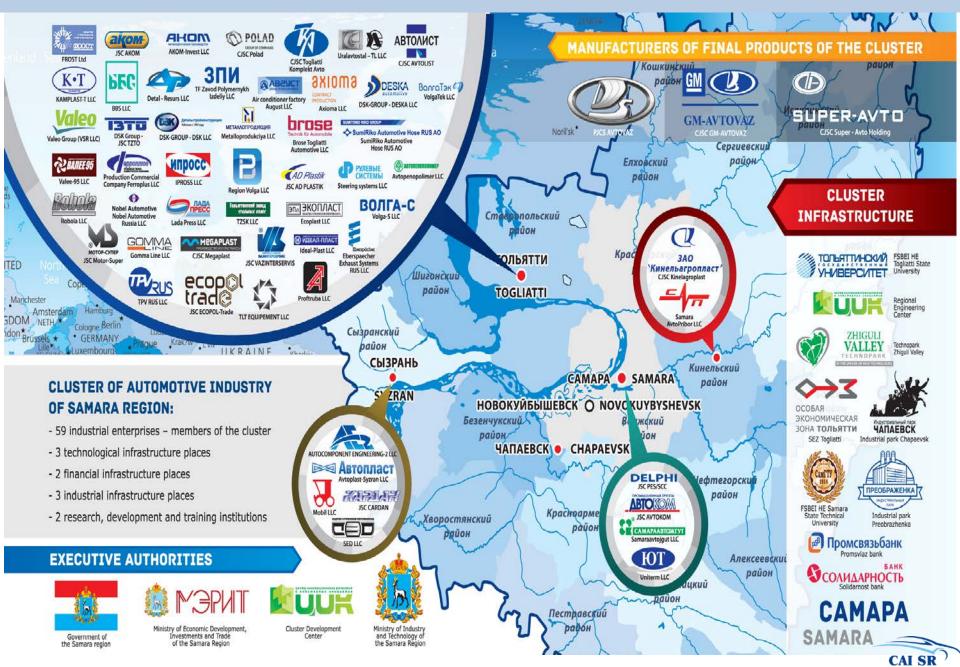


Cluster activities. Localization and suppliers development.

Cluster key indicators



Members and Cluster geography

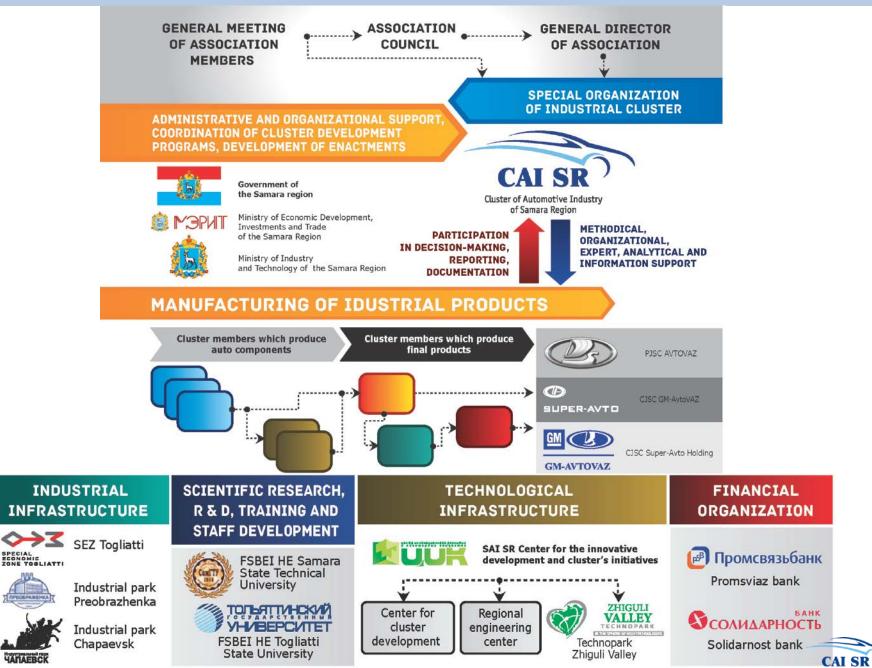


Cluster main goals





Cluster organizational map



Industrial cluster of the Russian Federation

The Cluster was included in the Federal Register of the Russian industrial clusters ' (PPRF of 31.07.2015 № 779).



The Cluster has the opportunity to participate in program of state support of joint projects for the development of production and import substitution *(PPRF of 28.01.2016 № 41).*

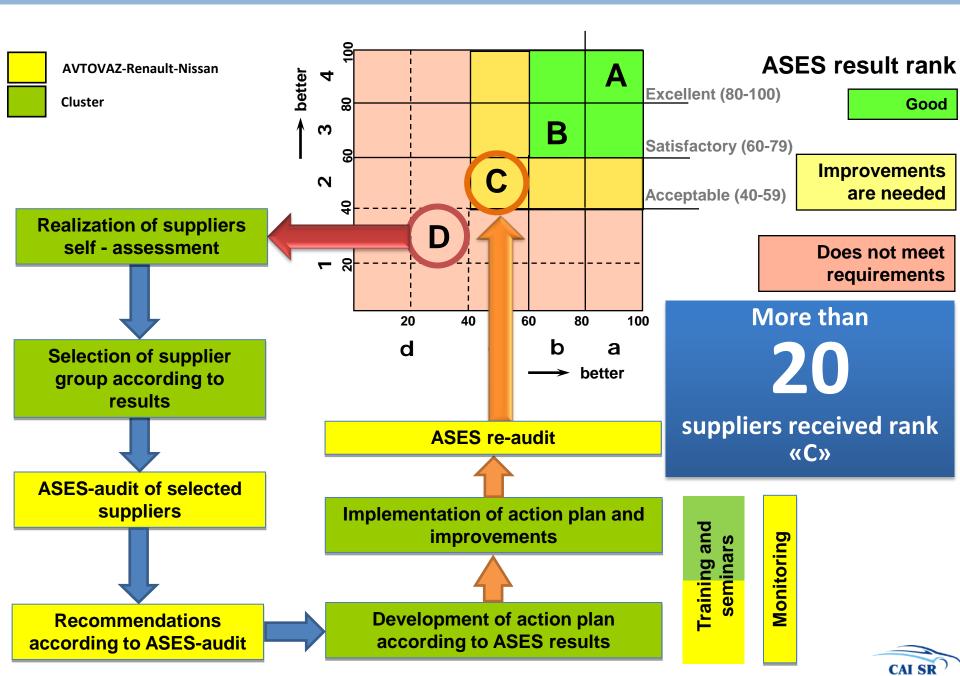




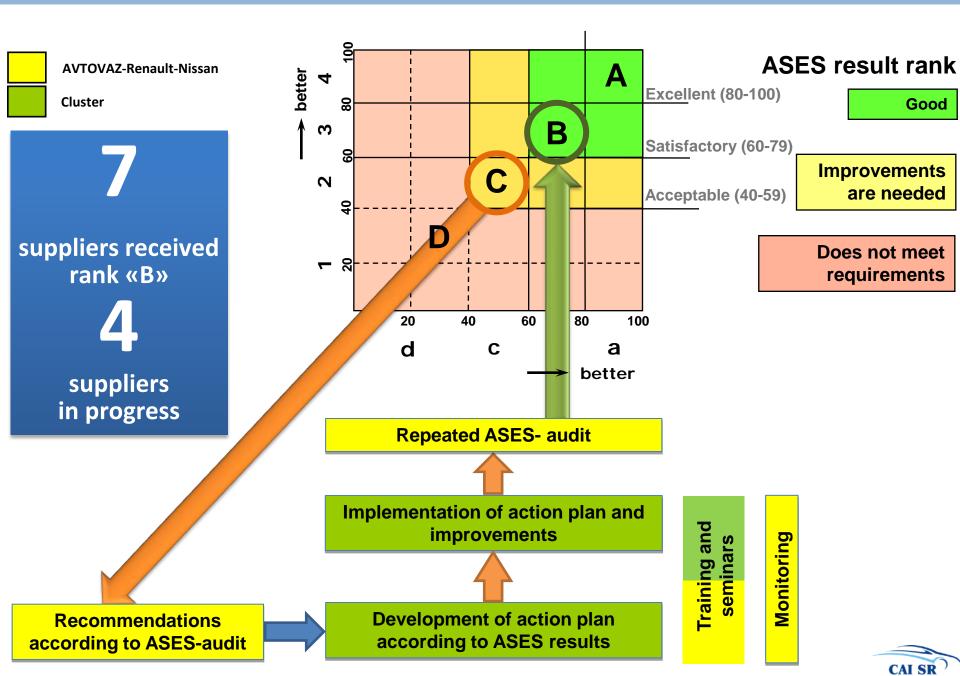
Supplier development tools

	Q	С	D	D	М
Training					
Support while integrating Renault-Nissan requirements	\bigcirc				
Engineering center – solution of engineering tasks and training					
Support for the introduction of cost-management tools, loss reduction					
Attracting new customers					
Attraction of recourses for development	\bigcirc		\bigotimes		
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Supplier development (from lowest D to acceptable C)



Supplier development ($C \rightarrow B$)



Cluster: support of supplier development



Training and professional development

Support for certification

Support for implementation of customer requirements (ASES, etc.)



Assistance in the solution of engineering tasks Development of QMS and production system Reducing losses, support while implementing lean manufacturing and Monozukuri



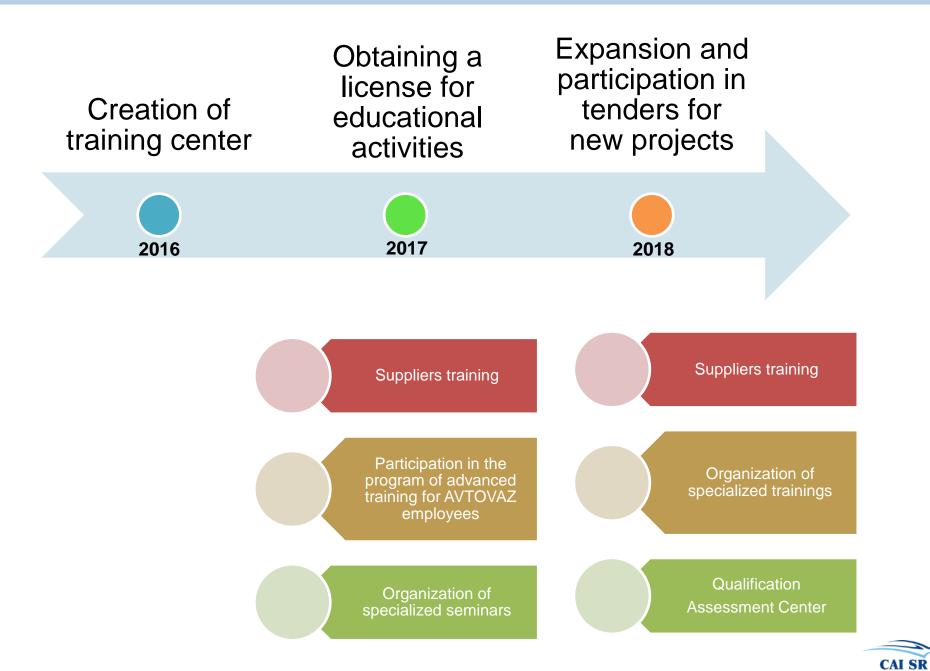
B2B, business missions

Searching the orders and attracting new customers

Assistance in obtaining state support



Cluster training center



Cluster training center: competencies

1	Changes in IATF 16949: 2016 requirements and implementation practices
2	IATF 16949: 2016 requirements and implementation practices. ISO 9001: 2015 requirements
3	1st and 2nd parties audits in accordance with IATF 16949: 2016, ISO 19011: 2011 requirements
4	IATE 16949: 2016 requirements and implementation practices. 1st and 2nd parties audits in accordance with IATE 16949: 2016, ISO 19011: 2011 requirements
4	
	Core tools in automotive industry
5	Advanced Product Quality Planning in accordance with AIAG APQP. Basics of the project approach. Production Part Approval Process (PPAP). Customer requirements to new product development management and change management
6	ANPQP procedure
7	Failure Mode and Effects Analysis (FMEA)
8	Evaluation of the technological concept of the product based on DFMA. Failure Mode and Effects Analysis (FMEA). Management of special and key characteristics.
9	Failure Mode and Effects Analysis (FMEA) Design and Process FMEA (DFMEA / PFMEA)
10	Statistical Process Control (SPC) and Measurement System Analisys (MSA)
11	Introduction in statistical quality control methods and statistical process control. How to control variability of key characteristics
12	Problem Solving Process 8D. Methods for investigating the root causes of quality problems
12	Methods for investigating the root causes of quality problems QC-story, QRQC. Analisys and managing data
14	
14	Product and process management tools Quantitative methods for improving processes. 6 Sigma.
16	Basic quality tools
17	Customer requirements analisys and Quality Function Deployment (QFD) methodology, Quality Assurance Matrix (MQA)
18	Risk management
	Management system development
19	ISO 9001: 2015. Quality management systems. Requirements. Development, implementation, maintenance and continuous improvement.
20	Retraining of quality management system internal auditors in accordance with ISO 9001: 2015, ISO 19011: 2011 requirements
21	Internal audit in accordance with ISO 9001: 2015, ISO 19011: 2011 requirements
22	ISO 9001: 2015 requirements and implementation practices. Internal audit in accordance with ISO 9001: 2015, ISO 19011: 2011 requirements
23	Project management
24	Knowledge management as a tool for problem solving and achieving organizational goals
25	From interested parties - to KPI system (Key Performance Indicators)
26	Supply Chain Management
27	Management by objectives, KPI, BSC, motivation
	Production system development. Cost management. Loss reduction. Lean Manufacturing Tools.
28	Effective production systems. Development of lean management system
29	TPM (Total Productive Maintenance). SMED system
30	Practice of 5S implementation, visualization, standardization
31	Practice of value stream mapping, analisys and improvement
32	Enterprise cost reduction using Lean, LeanLogistics, LeanCost methodology

VALEO supplier day

VALEO supplier day – 25-th of April 2018

Objectives:

- Looking for new potential local suppliers
- Presentation of VALEO and its plants
- Optimization of purchase costs
- Clarification of VALEO requirements to suppliers and principles of cooperation
- Reduction of import content



Participants: 49 suppliers from RF and Belarus, 77 people 54 B2B spent



HYUNDAI supplier days in Samara region

Hyundai supplier days – May 22-23, 2018

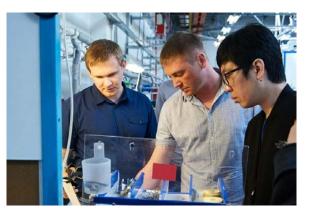
Objectives:

- Looking for new potential local suppliers
- Presentation of Hyundai and its plans for localization
- Presentation of Hyundai Tier-1 local suppliers and their plans for localization
- Clarification of requirements to suppliers and principles of cooperation
- Reduction of import content

Participants: 55 suppliers from 6 regions of RF, 99 people 81 B2B spent 30 visits to suppliers sites













HYUNDAI supplier days in Kaluga

Hyundai supplier days – September 24-25, 2018

Objectives:

- Looking for new potential local suppliers
- Presentation of Hyundai and its plans for localization
- Presentation of Hyundai Tier-1 local suppliers and their plans for localization
- Clarification of requirements to suppliers and principles of cooperation
- Reduction of import content













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KAMAZ and OAT supplier days

3-4 of October 2018, Togliatti

Participants:

216 people from 14 regions of RF 79 suppliers

Realized:

116 B2B for 55 suppliers33 visits on 31 companies



KAMAZ

Cluster organized the biggest event of auto component industry in the Samara region with the aims to - deepen the localization of

KAMAZ and OAT,

- increase the number of orders for potential suppliers

- substitute the import













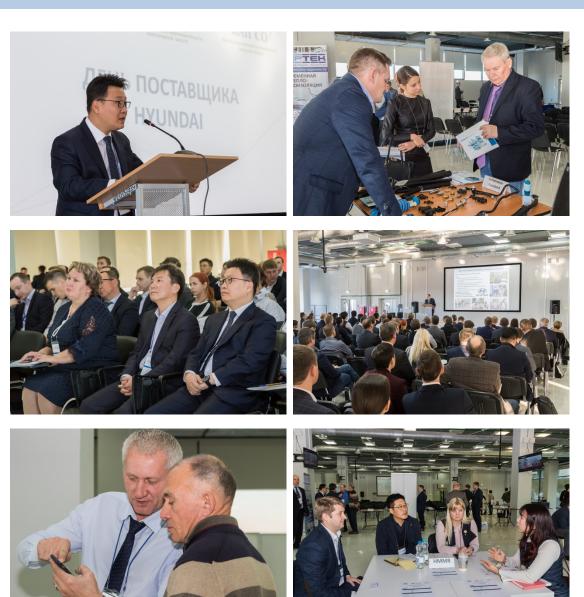
HYUNDAI supplier day in Nizhniy Novgorod

Dates: 30 of October – 1st of November 2018 Location: technopark Ankundinovka



Supplier day key indicators:

- 42 suppliers from
 12 regions of Russia
- ***** around **100** participants
- 64 B2b with 34 suppliers
- 28 visits On 18 Nizhniy Novgorod companies





Assistance in obtaining state support, development of export potential

5 companies of Cluster and Samara region participated in the state program of export support										
Subsidy for products transportation	01.10.2016- 30.06.2017, mln. rub.	01.07.2017- 30.09.2017, mln. rub.	Export volume mln. rub.	Ŧ						
	9,	235,5								
	13,9	5,1	437,9							
CONFIDENTIAL	1,9	1,6	76							
	5,	239,7								
		1,8	32,1							

| Total: >1 billion of rubles in 2017

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New customers: within and outside the Cluster

New requests with Tier 1 suppliers



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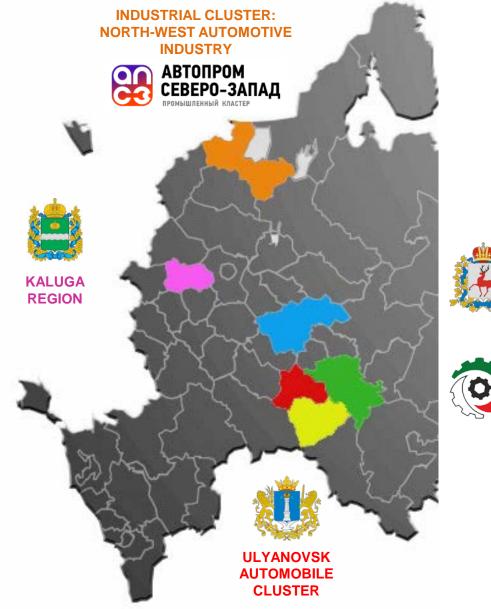


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ΜΙΤSUBΛ

Петербургский

Cooperation with automotive clusters in Russia



INDUSTRIAL CLUSTER OF NIZHNY NOVGOROD REGION



INDUSTRIAL MACHINE-BUILDING CLUSTER OF THE REPUBLIC OF TATARSTAN



Partners in the engineering field



Engineering projects





Thank you for your attention!



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