

# How to sharpen the Russian Automotive Industry through 2017/2018

Speech at the Moscow International Automobile Salon

Moscow/Russia, August 29th, 2012



# CONTENT

**AUTOMOTIVE INDUSTRY** 

STATUS RUSSIAN



Russian automotive market is set to become the largest market in Europe - but some critical key issues have to be solved

**RE-SHAPING REQUIRE-MENTS & CHALLENGES** 



Modernization of the Russian automotive players & further localization of international OEMs and suppliers is key for success

STRATEGIC DIRECTIONS & IMPLICATIONS

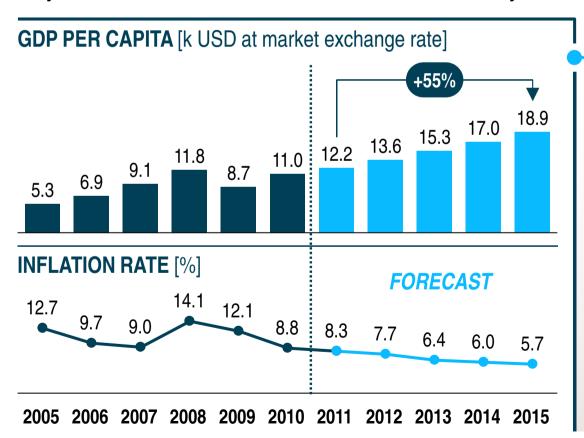


Successful development of automotive industry will act as a lighthouse project for overall development of the Russian industry



# Key economic indicators of growing Russian economy show promising basis for development of a competitive automotive market

Key economic indicators of the Russian economy, 2005-2015



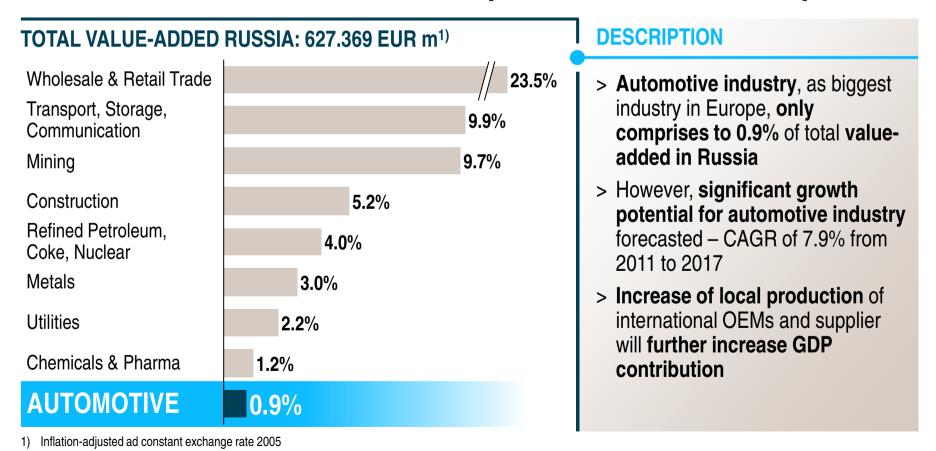
#### **DESCRIPTION**

- > Forecast shows a large economic growth potential combined with stabilizing market conditions
- > Significant increase of GDP per capita from 2011-2015 by about 55%
- > Reduction of inflation rate of 2.6% points from 2011 until 2015
- > Parliamentary election in Dec. 2011 & Presidential election in Mar. 2012 hence, the government has 6 years time until next election



# Automotive industry comprises to 0.9% of total GDP – Increase of local production of intl. players will increase GDP contribution

Value-added for selected industries in Russia [% of total Value-added Russia], 2011

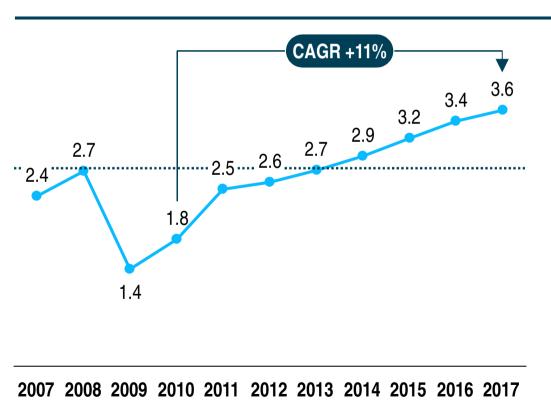


Source: IHS Global Insights, Roland Berger Strategy Consultants



# Following the economy, Russian car market took a dive in 2009, but is expected to rebound by 2013/14 – Foreign OEMs as major winners

## Passenger car sales in Russia [m units]



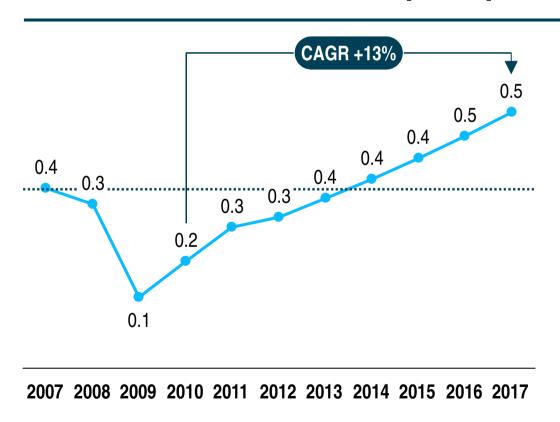
#### **PASSENGER CAR SALES SPLIT** [%]



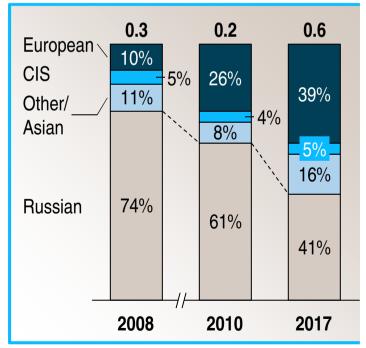


# Commercial vehicle market is also expected to reach pre-crisis levels by around 2013/14 with European OEMs as major winners

## Commercial vehicle<sup>1)</sup> sales in Russia [m units]



# COMMERCIAL VEHICLE SALES SPLIT BY BRAND TYPE [%]

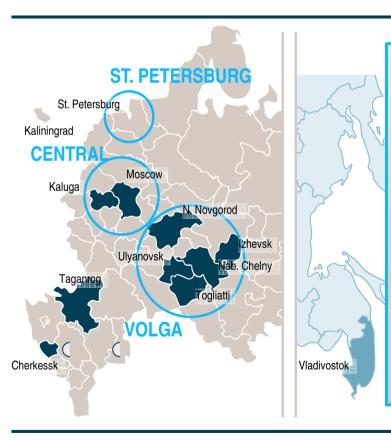


<sup>1)</sup> including light commercial vehicles



# Automotive clusters with the highest potential production volume are St. Petersburg, Central and Volga regions

## Geographical focus of Russian automotive industry





- > Automotive clusters with the highest potential production volume are St. Petersburg, Central and Volga regions
- > Most international OEMs present with production facilities in Russia
- > Only a **few number** of **international suppliers** present
- > Focus areas are located in areas with high education level compared to other regions in Russia
- > Highest employment rate in focus areas, e.g. Moscow with 98%, St. Petersburg with 97% and Volga region with 92%
- > Employment rate in other Russian regions varies between of 50% and 95%
- > Focus of educational programs in the area of universities underrepresentation of handcraft education

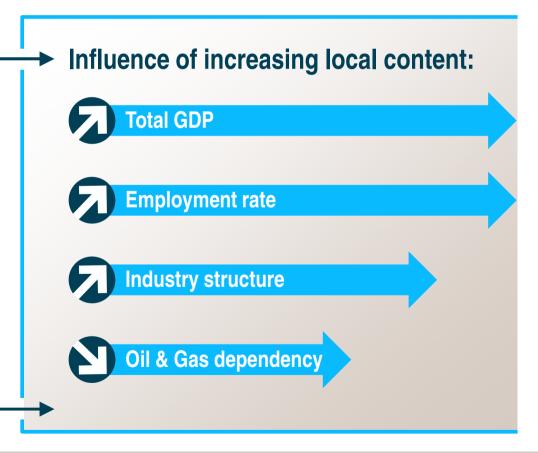


# Higher localization of intl. OEMs and suppliers will lead to higher GDP growth and supports the development of a profound industry

Value-added depth & benefits

#### **FACTS 2011**

- > **GDP contribution** of automotive industry accounts to 0.94%
- > Contribution equals an **absolute GDP** of EUR 5.7 bn in 2011
- > Corresponds to approx. 30% of local value-add in 2011
- > Target of local value-add for 2017 is 48%
- > Approx. **600,000 employees** in the Russian automotive industry – after crisis level





# CONTENT

#### STATUS RUSSIAN **AUTOMOTIVE INDUSTRY**



Russian automotive market is set to become the largest market in Europe – but some critical key issues have to be solved

#### **RE-SHAPING REQUIRE-MENTS & CHALLENGES**



Modernization of the Russian automotive players & further localization of international OEMs and suppliers is key for success

#### STRATEGIC DIRECTIONS & IMPLICATIONS

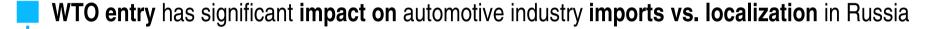


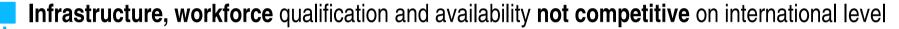
Successful development of automotive industry will act as a lighthouse project for overall development of the Russian industry



# Seven critical issues have to be addressed to improve the Russian automotive industry until 2017/18

Critical issues for the Russian automotive industry





In main automotive regions the former cost advantages in labor & energy are marginal today

Very **limited regulations/ programs to support** domestic & international **supplier industry** 

Low productivity and efficiency of domestic OEMs due to fully integrated business models

Fragmented domestic OEMs with low production volumes are not profitable and competitive

Nearly **no export business** established **to provide enough production volume** for all players

Outdated quality standards of domestic suppliers and low value added components localized

No automotive industry vision 2018 and no responsible administrative department



# Six requirements need to be fulfilled to successfully achieve further localization of production in Russian automotive industry

## Automotive localization requirements Russia





Strong production growth case



**Supporting** regulations for supplier industry



Competitive economic environment





**Upgraded** technology & quality



High value components prioritized



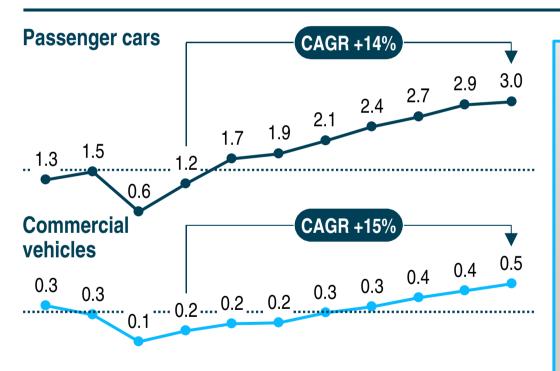




# Production is expected to grow at 14% for passenger cars and 15% for Commercial vehicles – Counter impact of WTO entry?



Vehicle production [m units]



#### 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017

#### **DISCUSSION**

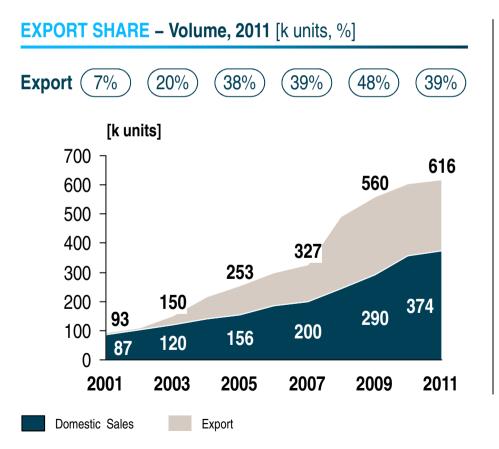
- > Production of passenger cars and commercial vehicles will re-bound to precrisis conditions in 2012/13
- Total production of passenger car and commercial vehicles of 3.5 m units expected in 2017
- After entering WTO import duties will decrease from 30% to 15%
- > Decreasing import duties with potential counter impact on local production
- > Production per domestic OEM still low compared to intl. OEMs – Export crucial for healthy growth

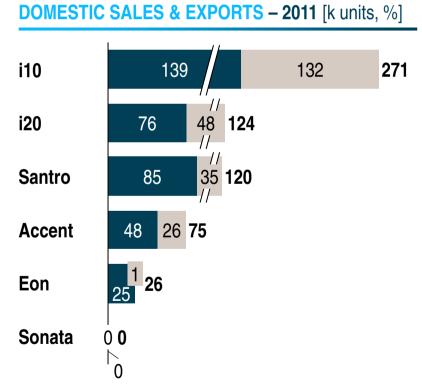


# Success story for growth case of an Asian player due to increasing focus on export – Hyundai is using India as global hub for small cars



Best practice example – Hyundai India



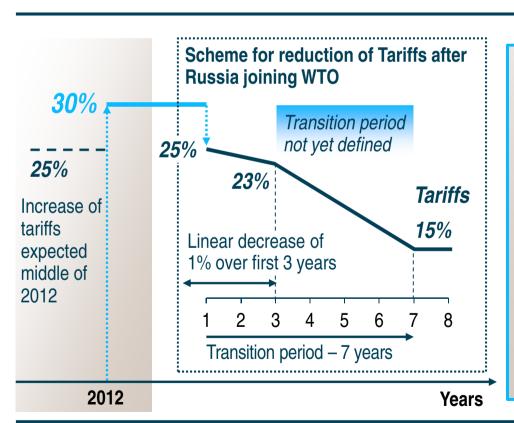




# After joining WTO, tariffs will decrease from currently 30% to 15% resulting in a stronger stimulation of imports into Russia



Improvement of market attractiveness: Impact on tariffs after Russia joining WTO



#### IMPACT

- > WTO entry increases attractiveness of Russian market for intl. companies do to stable and internationally comparable tariffs
- > Decrease of tariffs from currently 30% to 15% in the next 7 years – **Import duties** for components could be reduced from currently 1-2% to 0%
- > Significant increase of imports expected
- > However, reducing attractiveness for international suppliers and OEMs to increase their local content
- > **Transition period** from 3rd to 7th year needs to be defined



# WTO entry strengthened China's domestic automotive industry – Increasing domestic production and exports within 5 years



Impact of China's WTO entry on domestic automotive industry

## DEVELOPMENT OF THE CHINESE AUTOMOTIVE INDUSTRY AFTER WTO ENTRY<sup>1)</sup>

FROM 2001 TO 2006



- > Production & sales development
- > Development of exports<sup>2)</sup>
- > Development of **imports**
- > Share of imports in total domestic sales
- > Cooperation with international players
- > Development of technical standards

7
<b>→</b>
7
7

- 1) WTO entry in Dec. 2001
- 2) Export in 2005 equaled USD 2.5 bn



# After WTO entry tariffs for components might disappear – Hence, regulations required as counter measures to increase local content

Comparison of regulations for intl. OEMs and suppliers

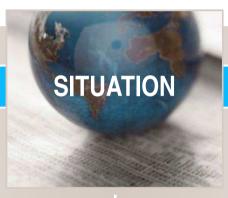


#### **International OEMs**

- > Introduction of **Decree 166 favoring OEMs** manufacturing cars in Russia – Forcing localization of automotive assembly in Russia
- > OEMs signing investment agreement under Decree 166 achieve significant cost savings on component imports of up to 1/3 of a car value



> Significant reduction of tariffs and import duties for components after entering WTO



#### **International SUPPLIERS**

- > Currently, only limited local content contribution by international suppliers
- > After joining WTO, no tariffs for components and hence no stimulation for international suppliers to increase local content
- > **Sufficient regulations** for suppliers as counter measures required
- > "Protected" domestic **OEMs** have to be openedup for intl. suppliers





# Competitive advantage in energy costs and raw material access – Infrastructure improvement & skilled workforce availability required





**Energy costs** 

Russia with very low energy cost due to local power production







Access to raw materials

High domestic raw material resources - Good material supply for production



Infrastructure/ logistic costs

Developed infrastructure only in metropolitan areas -High logistic costs

#### **CATEGORIES**



Labor costs

Low labor costs compared to international standards – Low productivities



Workforce availability/ qualification

Shortage of qualified work-forces in current auto- motive clusters



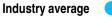


**Automotive industry** • Very good • Average • Problematic









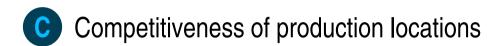


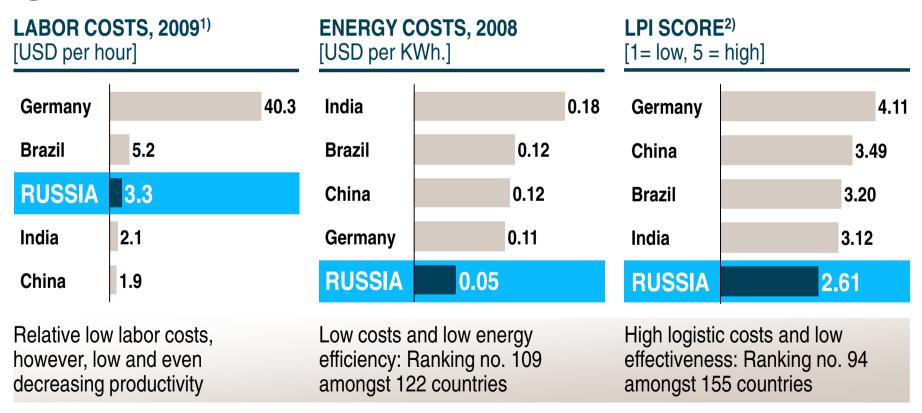


Problematic



# Russia lags in production costs behind other BRIC countries – Situation in automotive industry significantly more tense





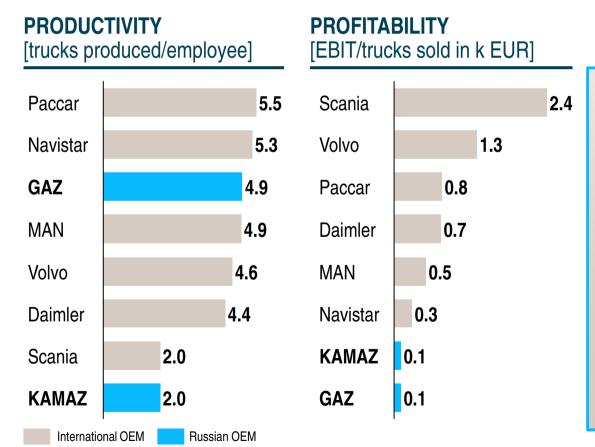
<sup>1)</sup> Industry average

<sup>2)</sup> International Logistics Performance Index, determined by World Bank - based on evaluation of international logistic companies following 6 criteria (z.B. tariffs, infrastructure, logistic competence)



# Significant gap in productivity and profitability between Russian and international OEMs - Focus on core competencies required

Modernization of local OEMs - Comparison of Productivities and Profitabilities



#### **COMMENTS**

- > Benchmark shows a gap in productivity and profitability of Russian OEMs compared to international OFMs
- > Russian OEMs need to modernize their business to stay competitive
- > Domestic players are highly vertically integrated - at the same time hindering access to intl. suppliers
- > Focus on core competencies required - Carve-out of component business for JVs/partnerships



# Domestic integrated suppliers with inefficiencies & outdated processes - Parts production not competitive with intl. quality standards

Technology and quality standards of domestic players – Example



**Production** facility

- > Equipment in reasonable condition
- > Modernization required



#### Machine park

> Low degree of automation

Office

buildings

> Mostly very old machine park

#### **COMMENTS**

- > Domestic suppliers with high inefficiencies and out-of-date processes
- > Parts production **not** competitive with international quality standards
- > Efficiency programs and modernization are required to ensure profitable production

## **DOMESTIC PLAYERS**



**Production** process

- > Many employees work in high risk areas
- > Modernization required

- - > Average condition of buildings
  - > Renovation appropriate (



Very good



Average



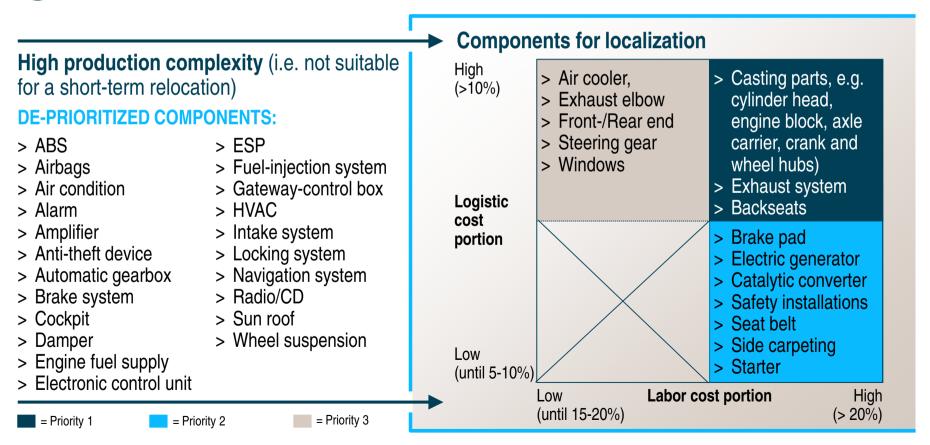
Problematic



# Parts with low investment requirement, low production complexity & high labor costs, such as casting parts, are suitable for localization



### Prioritization for localization of components





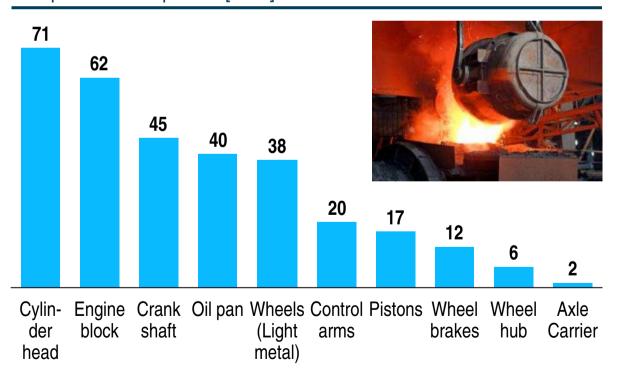
# High component value per car for casting components – Upgrade of domestic technology by cooperation or JVs with intl. suppliers



Localization example – Casting components

#### **TOP 10 CASTING COMPONENTS**

Component value per car [EUR]



#### **COMMENTS**

- > High component value per car for casting components
- Casting process as energyand work-intensive procedure – Russia offers ideal preconditions
- > Russian suppliers with low quality standards, as shown in example
- > Upgrade of domestic technology & ensure knowhow transfer by cooperation or JVs with intl. suppliers



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# Seven key strategic directions have to be addressed to establish a competitive automotive industry through 2017/18

Strategic directions for the development of the Russian automotive industry

- Setup financial development program for localization as counter measure for import increase due to decreasing import duties from WTO entry – Cross financing by vehicle usage taxes
- **Introduction of structural programs** to support industrialization of structurally weaker regions, including transport infrastructure, and to ensure workforce qualification & availability
- Introduction of regulations and guidelines especially for international suppliers to increase local content as counter measures for decreasing tariffs after WTO entry
- Modernization of domestic OEMs to stay competitive, in particularly against Asian players Focus on OEM core competencies allows access to international supplier
- Upgrade supplier landscape Carve-out of component business of domestic OEMs and creation of partnership & JVs with international supplier to increase quality standards and local content
- Strengthening process technologies Russian advantage of low labor and energy costs plus raw material availability, e.g. casting parts with high value added per car
- Introduction of a "Russian Automotive Principal" Introduction of a department/key person in charge in the government for the realization of the strategic automotive vision





# Increasing local content to targeted 48% leads to a GDP increase of EUR 10.4 bn and around 360,000 more employees until 2017/18

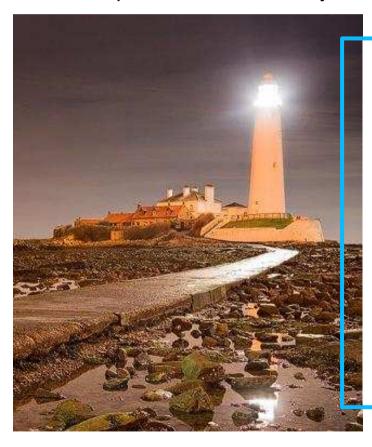
Effect of increase of local content on GPD and employment rate

#### **EFFECTS** INCREASING LOCAL PRODUCTION RATE **Increasing local content** > Higher production level due to market growth and by 18% to target of 48% modernization of production facilities LEADS TO TECHNOLOGY AND QUALITY UPGRADE **GDP** increase of > Increase of production efficiency due to technology **EUR 10.4 bn** upgrade by cooperation or JVs with intl. players and increase of INCREASE OF LOCAL CONTENT employment by > Higher local content supported by regulations and 360,000 people financial support for foreign suppliers



# Successful development of automotive industry will act as a lighthouse project for overall development of the Russian industry

Impact of success story automotive industry



- Success story automotive industry will act as lighthouse project for overall manufacturing industry development
- Strengthening of automotive industry will further stabilize overall situation and create jobs in Russia
- Strong automotive industry with higher impact on GDP will reduce Oil & Gas dependency
- Successful implemented of automotive vision 2017/18 with positive signal for WTO accession



# It's character that creates impact!

