



AUTO ELECTRONICS MANUFACTURING

PROJECT

There is provided a project on **launching production of auto electronics** (dashboard camera, on-board computer, gps-navigator, etc.).

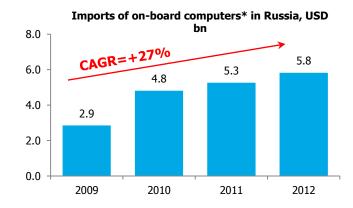
The project is promising due to the following reasons:

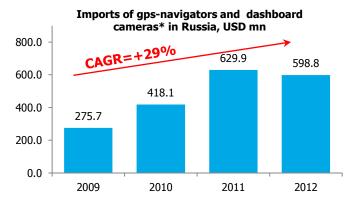
- The segment is expected to be top leading by profitability in the near 10 years.
- Imports of parts and components for motor vehicles in Russia in 2012 totaled more than **USD 10,8 bn** and grew by **57%** on average annually over 2009-2012.
- World auto electronics market is projected to reach **USD 18,5 bn** with annual average growth rate of about **3,1%**.
- Global auto parts market is projected to reach USD 900 bn by 2020 (in 2008 app. USD 675 bn).
- Capital expenditures for the project are estimated at **USD 70-100 mn**, payback period is about **6-7 years**.

MARKETS

Customs Union market:

- In 2012 Russia imported parts and components for motor vehicles to the value of more than **USD 10,8 bn**, annual average growth rate of the imports over 2009-2012 totaled **57%**.
- Imports of on-board computers in Russia grew by 27% a year on average over 2009-2012, and in 2012 the imports totaled USD 5,3 bn.
- Imports of gps-navigators in Russia grew by **47%** a year on average over 2009-2012, and in 2012 the imports totaled **USD 392,8 mn.**
- Imports of dashboard cameras in Russia grew by 11% a year on average over 2009-2012, and in 2012 the imports totaled USD 206 mn.
- Russian car industry is characterized by developed car assembling, auto parts manufacturing (electronics in particular), in its turn, is still poorly developed segment of car industry in Russia.





^{*} Import according to a wide commodity item, comprising indicated devices (customs tariff code 8471 – for on-board computers, 852691 – for gps-navigators, 852190 – for dashboard cameras).



MARKET OPPORTUNITIES

Global opportunities:

- According to Roland Berger, world auto parts market is projected to reach **USD 900 bn** by 2020 (in 2008 – USD 675 bn).
- Annual average growth rate of car manufacturing over 2011-2018 **5,3%**, projected output in 2018 is **USD 106 mn**.
- Global auto electronics market is projected to reach USD 18,5 bn with annual average growth rate by 1% exceeding the one of world's GDP.
- App. 30% of an automobile cost is formed by electronic components, and the figure is expected to further grow in the future.

Local opportunities:

- In 2012 auto parts market in Russia reached **USD 41,8 bn**, annual average growth rate over 2009-2012 was **28%**. There has been a significant change in the market structure in 2009 primary market accounted for 22%, in 2012 **49%**.
- More than 2,8 mn cars, out of which 73% foreign brands assembled in Russia, are projected to be manufactured in 2016 in Russia.
- In spite of continuing growth, Russian car industry is underdeveloped, which is caused by the following factors:
 - Low competition and low product quality;
 - Underinvestment in advanced technologies;
 - Decrease in import duties and possibility to import auto parts at low tariff.

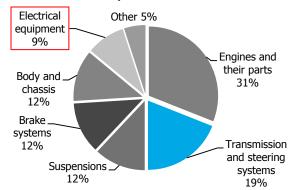
INVESTMENT OPPORTUNITIES

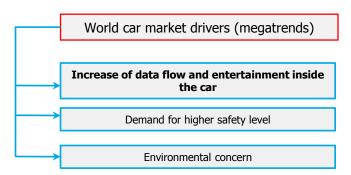
- Capex for the project may total USD 70-100 mn.
- Payback period is about 6-7 years.
- IRR varies between13-15%.

POTENTIAL INVESTORS

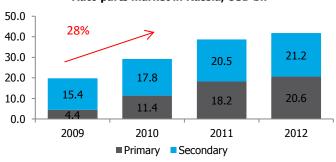
- Strategic investors companies with appropriate technologies and experience in electronics manufacturing in general or auto electronics in particular.
- Forward integration companies engaged in the industries – key auto parts and electronics consumers (automobile industry, auto parts distributors, retail, etc.).

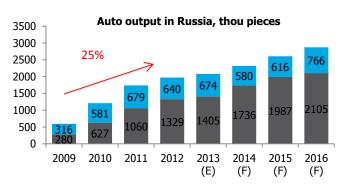
Global auto parts market structure





Auto parts market in Russia, USD bn





■ Foreign ■ Russian