



3D PRINTERS PRODUCTION

PROJECT

For implementation there is provided a project on manufacturing of 3D printers.

- 3D printers production is promising due to the rapid growth of the demand in the market.
- Custom Union, CIS countries, BRIC countries and Eastern Europe** are the main markets for 3D printers.
- The impact of the widespread implementation of 3D-printers in manufacturing companies can have a global positive economic impact estimated at **550 billion USD by 2025**.
- 3D printers sales volume increased by 17 times** since 2010. Annual sales of 3D printers will reach **6 million units by 2018**.
- 2.4 billion USD** was sales volume of 3D printers in 2013. Experts suppose that 3d printers sales volume will increase **up to 8.41 billion USD by 2020 (CAGR=19%)**.
- Aerospace sector, education, medicine and jewelry** are the most promising segments for 3D printers implementation
- Capex** varies between **USD 20-100 mn, IRR 30-40%**.

MARKETS

- 3D-printers** are at the **growth stage** of the product life cycle. This stage is characterized by rapid growth and high profits.
- Custom Union, CIS countries, BRIC countries and Eastern Europe** are the main markets.
- Rapid growth of the demand on 3D printing will be the key driver in the market.

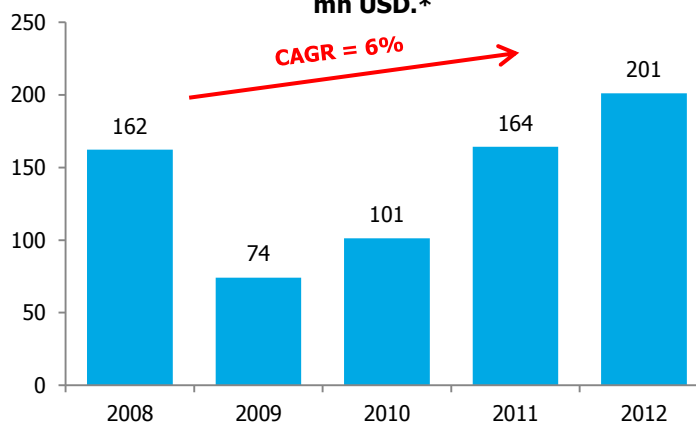
Belarusian market:

- В Беларуси в секторе машиностроения работает **350 предприятий**, большинство из которых нуждаются в современном оборудовании.
- Belarusian **machine-building sector includes 350 companies**. They need modern equipment.
- 12.7 billion USD is a total volume of machine-building sector in Belarus in 2012 (+21%in comparison with 2011).

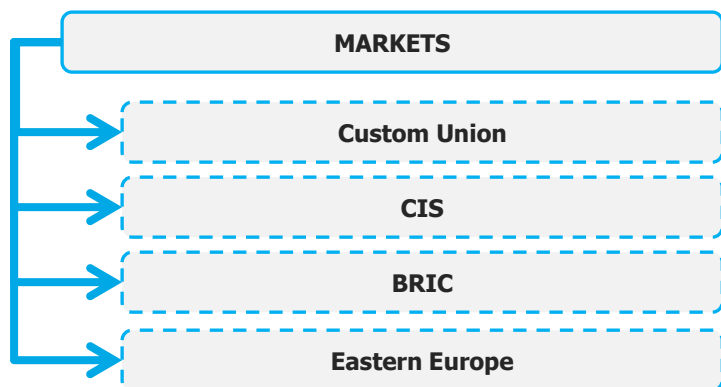
Russian market:

- 201 million USD** is an import of plastics processing equipment (which includes 3D printers) to the Russian Federation. 6% is CAGR for the last 5 years.
- Germany and China** are the largest exporters of 3D printers to Russia.

Import of plastics processing equipment to Russia, mn USD.*



* plastics processing equipment includes 3D printers



MARKET OPPORTUNITIES

Global opportunities:

- McKinsey experts believe that the impact of the widespread implementation of 3D-printers in manufacturing companies can have a global positive **economic impact estimated at 550 billion USD by 2025**.
- 100 thou. units** is the global sales volume of 3D printers in 2013.
- 3D printers sales volume increased by 17 times** since 2010. Annual sales of 3D printers will reach **6 million units by 2018**.
- 2.4 billion USD** was sales volume of 3D printers in 2013. Experts suppose that 3d printers sales volume will increase **up to 8.41 billion USD by 2020 (CAGR=19%)**.
- The price for 3D printers will significantly reduced** in the near future. 800-1500 USD will be an average price.
- At the moment 3D printers are used for the **goods production industry (29%)**, automobile industry (19%), medicine (13%), education (10%), aerospace industry (8%) and industrial engineering (7%).
- Machine building industry** will be they main consumer of 3D printers. Currently Boeing uses 3D-printing for the production of more than 200 aircraft items.

Regional opportunities:

- 11 million USD** is the Russian 3D printers market size (0.45% from the global market).
- Russian 3D printers market will reach **34 million USD in 2020 году (CAGR=17,5%)**.
- RGT (model PrintBox3D) produces 3D printers in Russia.
- Russia has a state industry development program till 2020. Total budget allocation is about 130 billion USD.

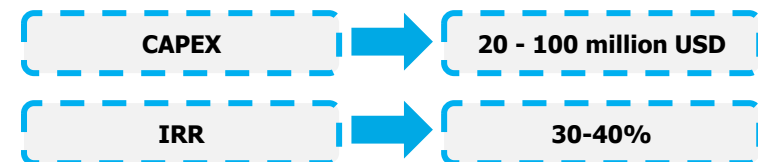
Attractive segments:

- Aerospace sector, education, medicine and jewelry** are the most promising segments for 3D printers implementation.

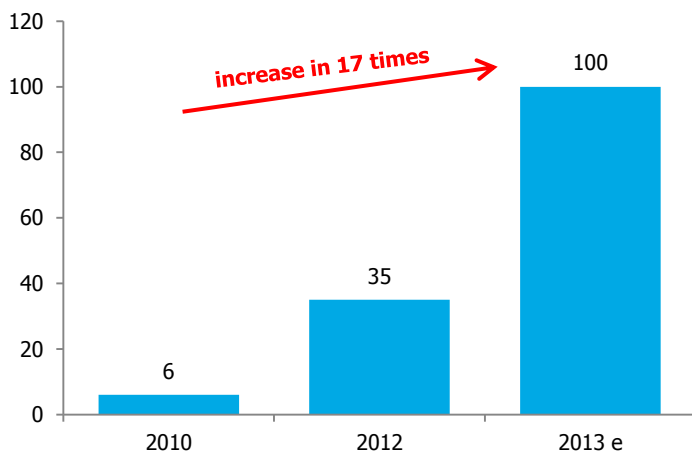
POTENTIAL INVESTORS

3D printers producers from China, Sweden and Germany.

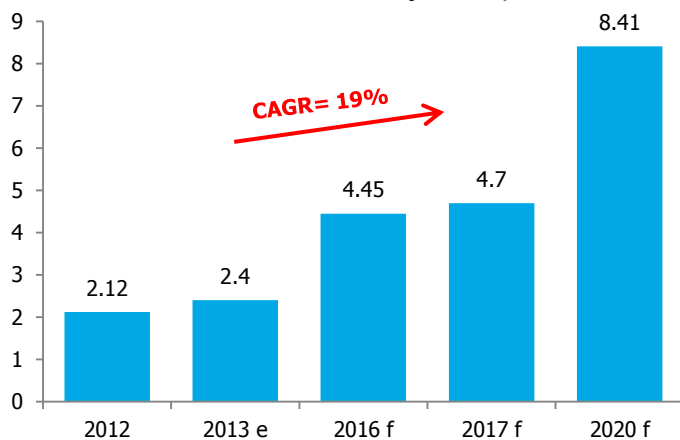
INVESTMENT OPPORTUNITIES



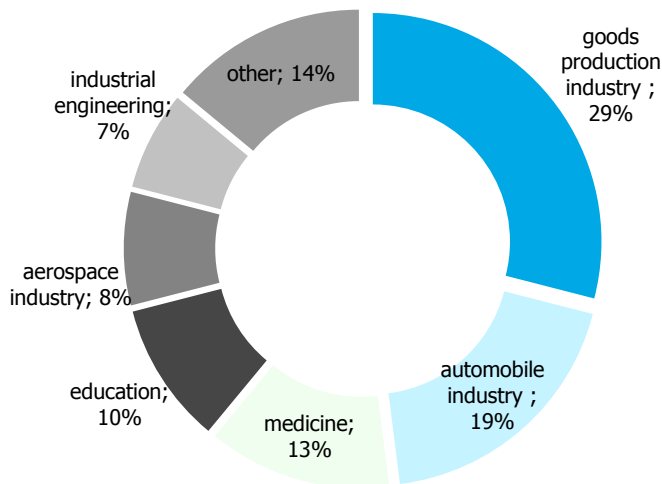
Global sales volume of 3D printers, thou units



Global sales volume of 3D printers, billion USD



3D printers consumption structure, 2013



Russian 3D printer market, million USD

