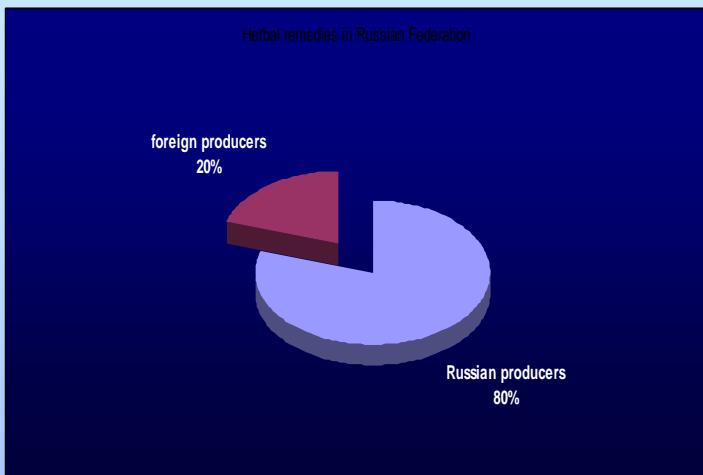


# **PRODUCTION AND MARKET OF MEDICINAL PLANTS IN RUSSIAN FEDERATION**

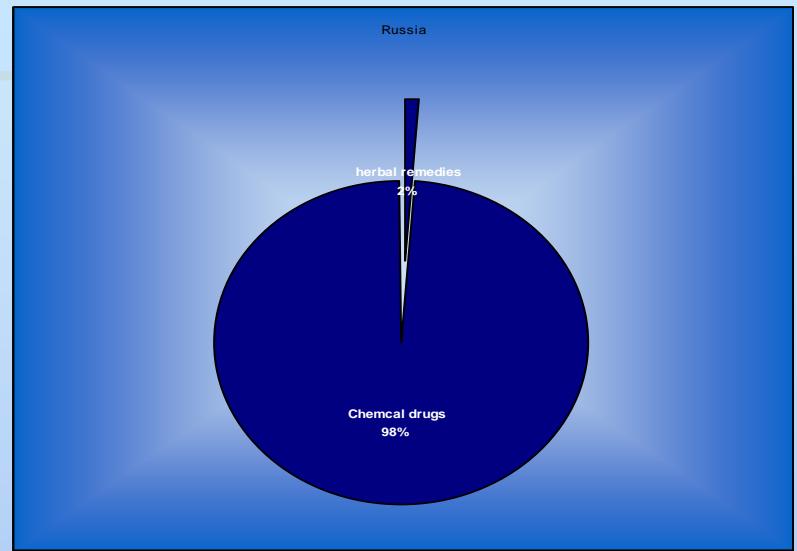
Malankina Elena, Markevitch Alexandr

Russian State Agrarian University –  
Moscow Agricultural Academy named  
Timirjazev

# Part and significance of herbal remedies on the Russian market



Imports share



Share of phytomedicines on the Russian market %

<http://www.remedium.ru/business/analytics/market/rmarket/detail.php?ID=349>.

<http://www.marketcenter.ru/content/doc-2-10792>

The market volume of herbal remedies is about 160 mill. \$

Expensive foreign medicines are  $\frac{3}{4}$  of Herbal remedies market.

<http://gmpnews.ru/2013/08/dsm-group-analiticheskij-obzor-farmacevticheskogo-rynska>

# Why are herbal remedies so popular in Russia?



historical tradition



large population



relatively low price



diversity of plant resources



growth of the living standard

# Dosage forms of herbal remedies on the Russian market



crushed plant  
parts (briquettes,  
powders, tea,  
mixes)



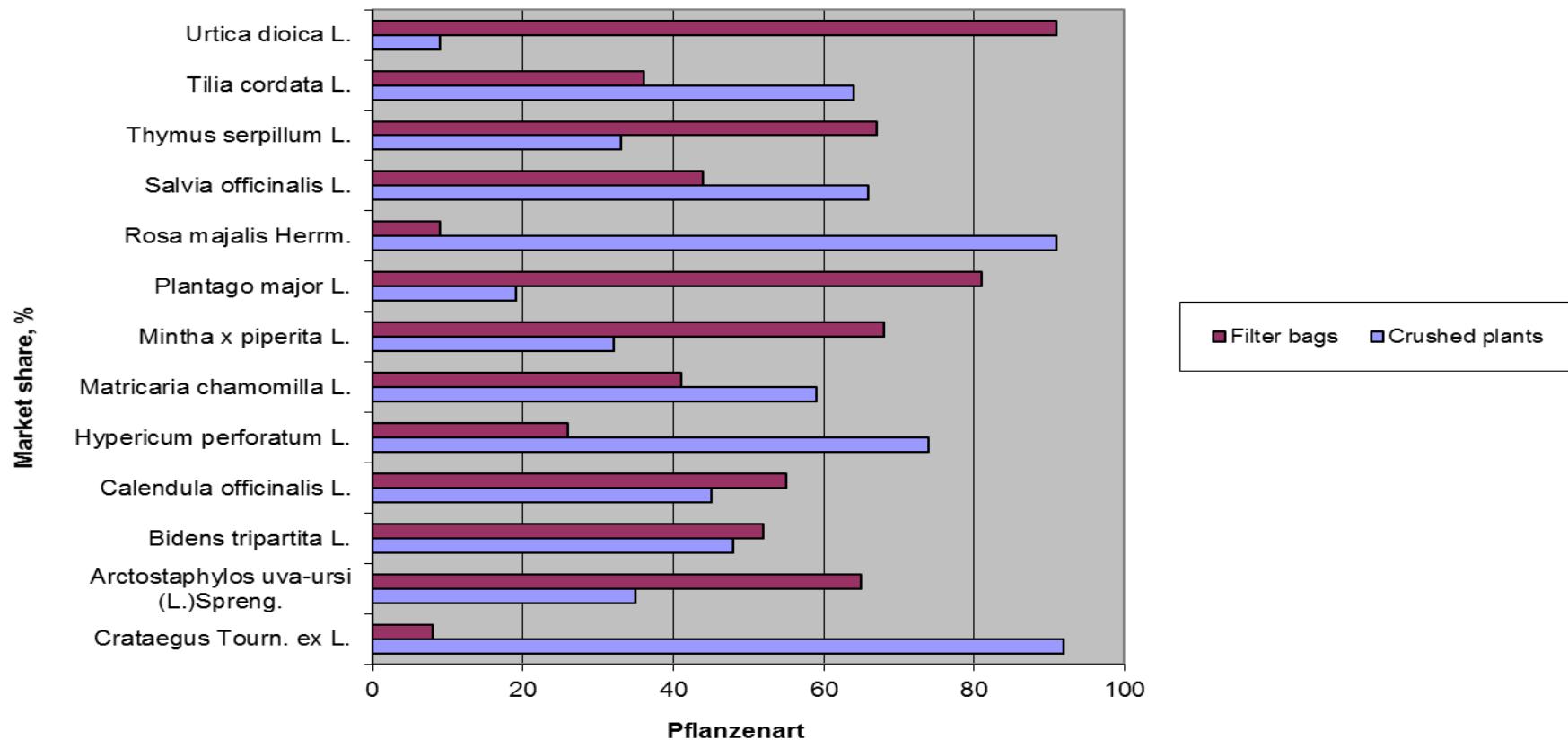
medicines with separate plant  
substances (essential oil,  
alkaloids, glycosides.)

extracts, tinctures, balms

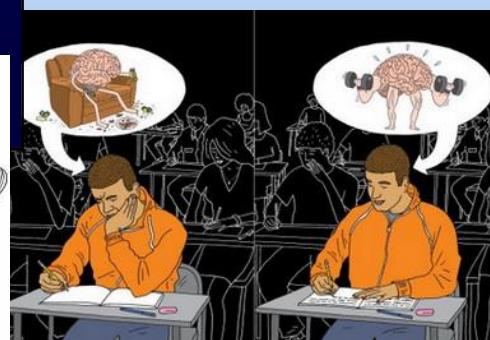
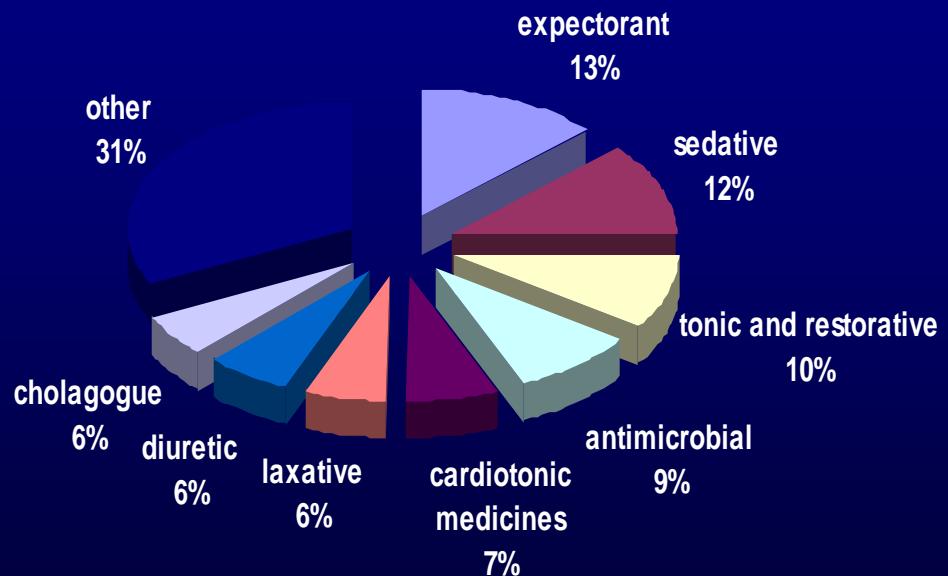


plant substance combined  
with synthetic substances

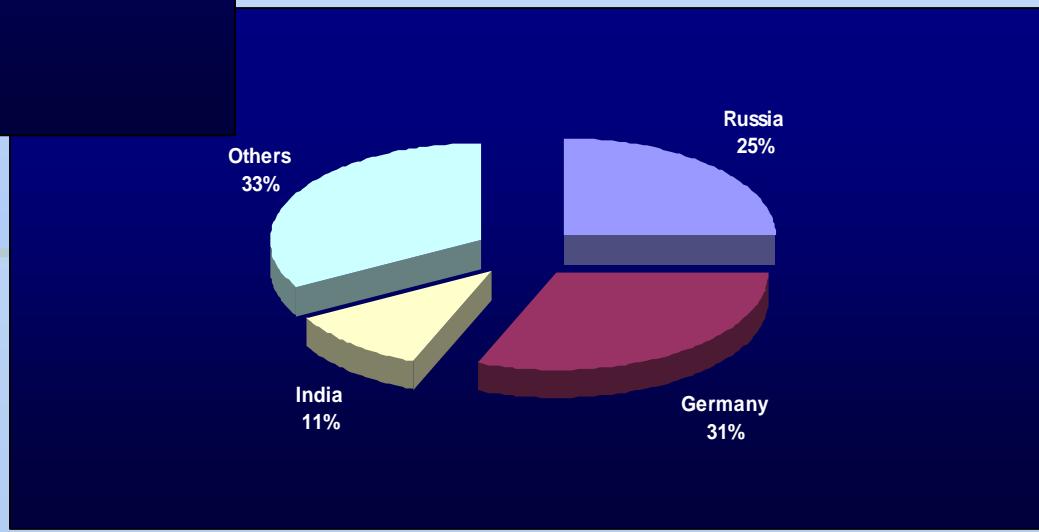
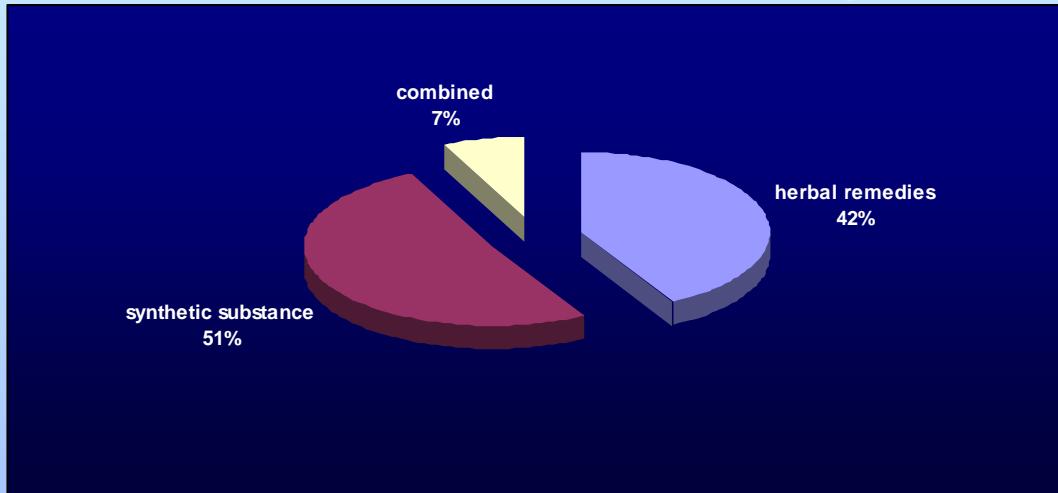
# Preferences of buyers in pharmacies



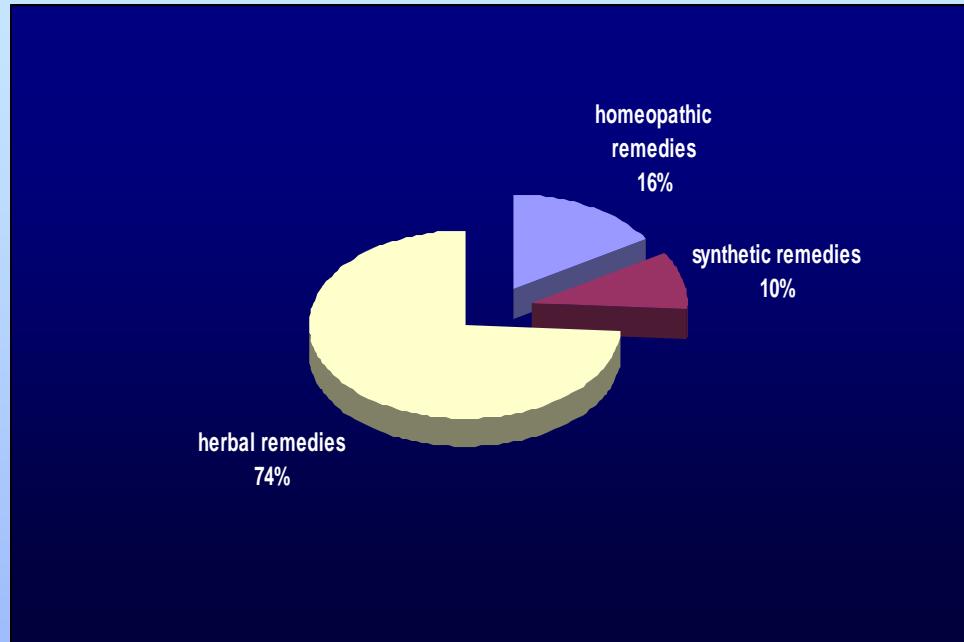
# The most widespread herbal remedies on the Russian market



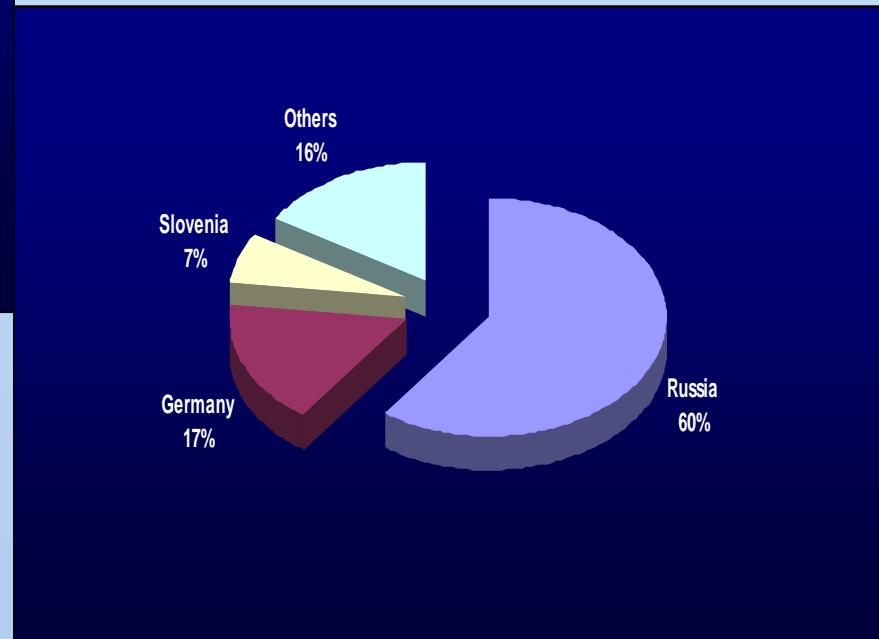
# **Assortment of expectorants and antitussive herbal remedies on the Russian market ,%**



# Assortment of sedatives in pharmacies



Valerian is presented in 30% of herbal remedies



Low prices on the domestic herbal remedy:  
Valerian tablets and Tinctura Paeoniae anomalaе  
-23-30 RUB/ 0,5 EUR and  
*Tinctura Leonuri* (11-15 RUB / 0,25 EUR).

# The plants, common ingredients of herbal remedies

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- *Valeriana officinalis*
- *Crataegus* sp.
- *Rosa* sp.
- *Mentha x piperita*
- *Eucalyptus globulus*
- *Eucalyptus viminalis*
- *Matricaria chamomilla*, \_\_\_\_\_
- *Glycyrrhiza glabra* and *Glycyrrhiza uralensis*
- *Silybum marianum*
- *Allium sativum* L.

# Markt of homeopathic remedies

Firm	Net yield (2012), US \$
Materia Medica holding	36,333 Mio \$
Homeofarma	726 600 \$
«Homeopatische Pharmazie» Sankt-Petersburg	188200 \$

The foreign firms: Bionorika, DHU, Dr. P. Theiss, Heel

<http://grls.rosminzdrav.ru/grls.aspx>

# **The largest companies on the market**

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- About 150 firms are engaged in the processing
- 80% are of regional importance
- The largest firms
- „Krasnogorsklesredstva“ (Martin Bauer Group)
- „Zdorovye“
- „EVALAR“
- „ST-Mediafarm“

# **Regional companies**

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- Biolit (Tomsk)
- Biokor (mit Biokor-C) (Pensa)
- Ginseng (Brjansk)
- „Syrjewaja kompanija Sibiri,, (Altaj)
- Phytofarm (Anapa)
- Kamelia-LT (Pensa)

# **Why develops production and processing in Russia**

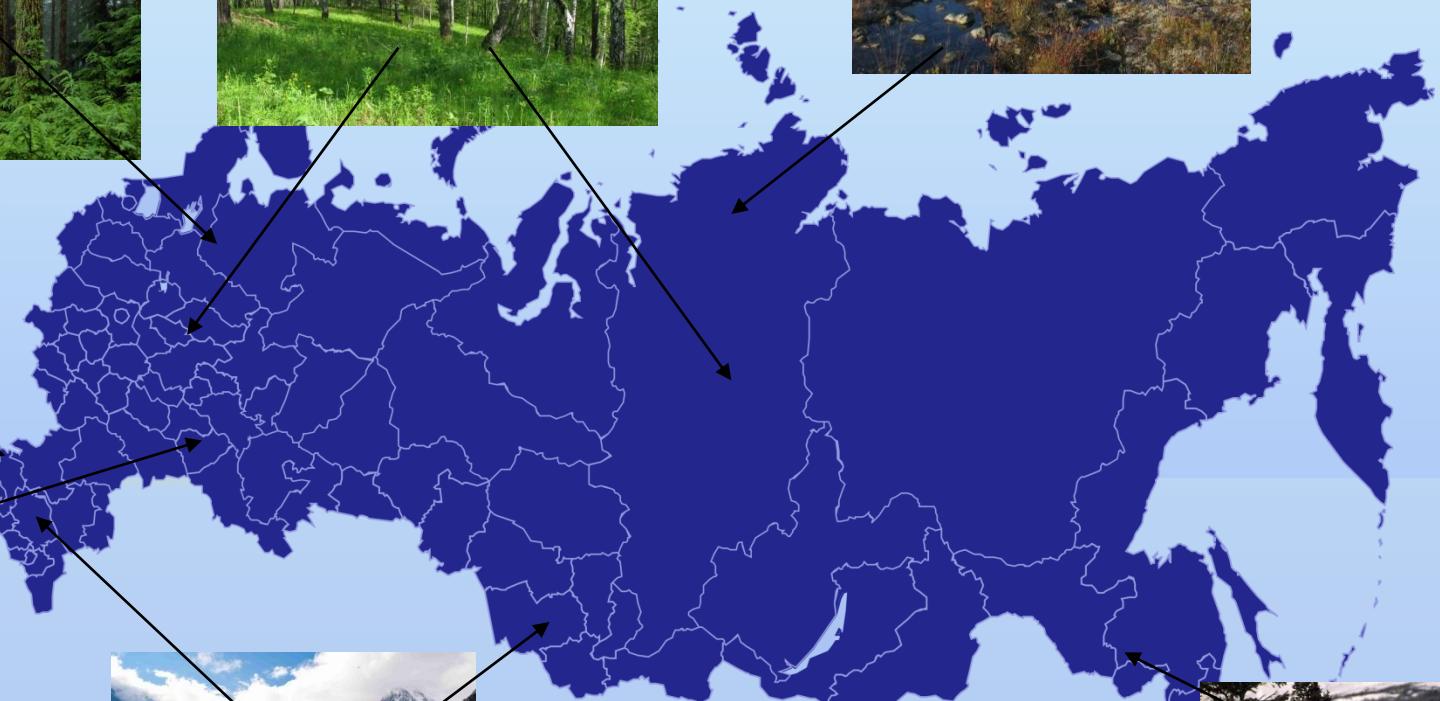
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- Domestic herbal remedy is cheaper than the foreign
- Processing of MAP raw materials is technologically simple
- Low VAT

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[http://www.businesspress.ru/newspaper/article\\_mld\\_39\\_ald\\_59293.html](http://www.businesspress.ru/newspaper/article_mld_39_ald_59293.html)).

# Resources of medicinal plants in Russia



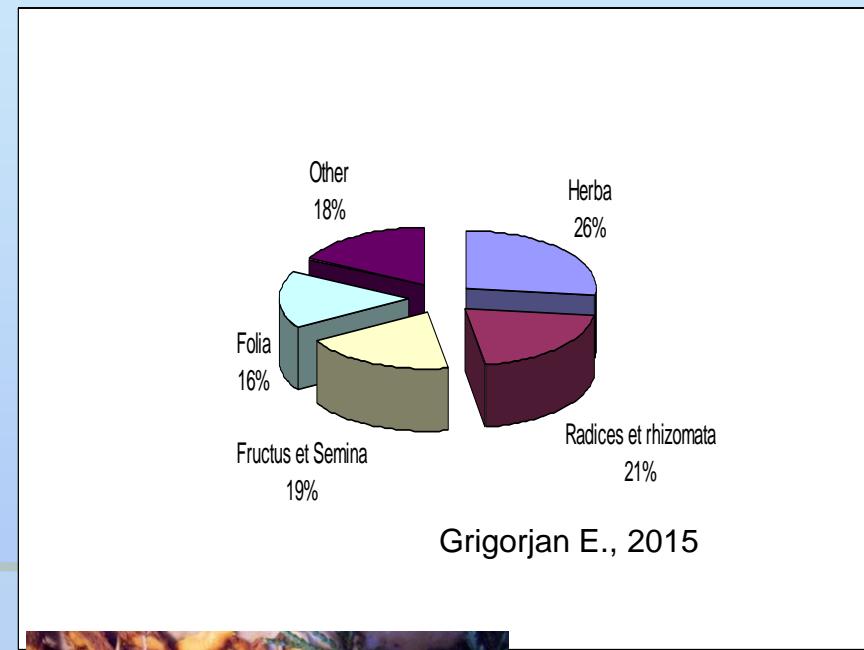
Area of Russia 17 Mln km<sup>2</sup>  
from North to South about 4 000 km  
from West to East about 10 000 km

# Total cost of MAP in Russia

Total harvest, kg	17000000
Cost, US \$	48 Mio
Collection of MAP, kg	8500000
Cost, US \$	19,8Mio
Import of MAP, kg	6400000
Cost US \$	19 Mio
Total cost, US \$	86,8 Mio

# Price for 1 kg of MAP raw materials, Euro

	Min	Max
<i>Matricaria chamomilla</i>	2,5	5,0
<i>Arctostaphylos uva-ursi</i>	2,5	4,0
<i>Quercus robur</i>	1,0	1,5
<i>Tilia cordata</i>	4,5	6,5
<i>Valeriana officinalis</i>	4,0	6,5
<i>Salvia officinalis</i>	1,5	2,5
<i>Calendula officinalis</i>	2,5	6,0
<i>Bidens tripartita</i>	1,5	2,5



# **Forecast of MAP market growth in 2016-2020**

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- Currently be cultivated about 60 MAP species.
- 20 species occupy areas of more than 1000 hectares each.
- Experts predict the annualy growth of the market by 18 %.

# Conclusion

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- Russian herbal market was growing very actively last years.
- Production and processing of medicinal plants increased in our country and at the same time grows exports, especially to China.
- Russia has a great potential for growing and wild collection of medicinal plants.

# My co-author



Dipl. Ing.  
Alexander  
Markevich

Thank you for your attention !

