



**Russia, Lomonosov Moscow State University**

# **Ecological assessment and registration of pesticides in the Russian Federation**

**Faculty of Soil Science**

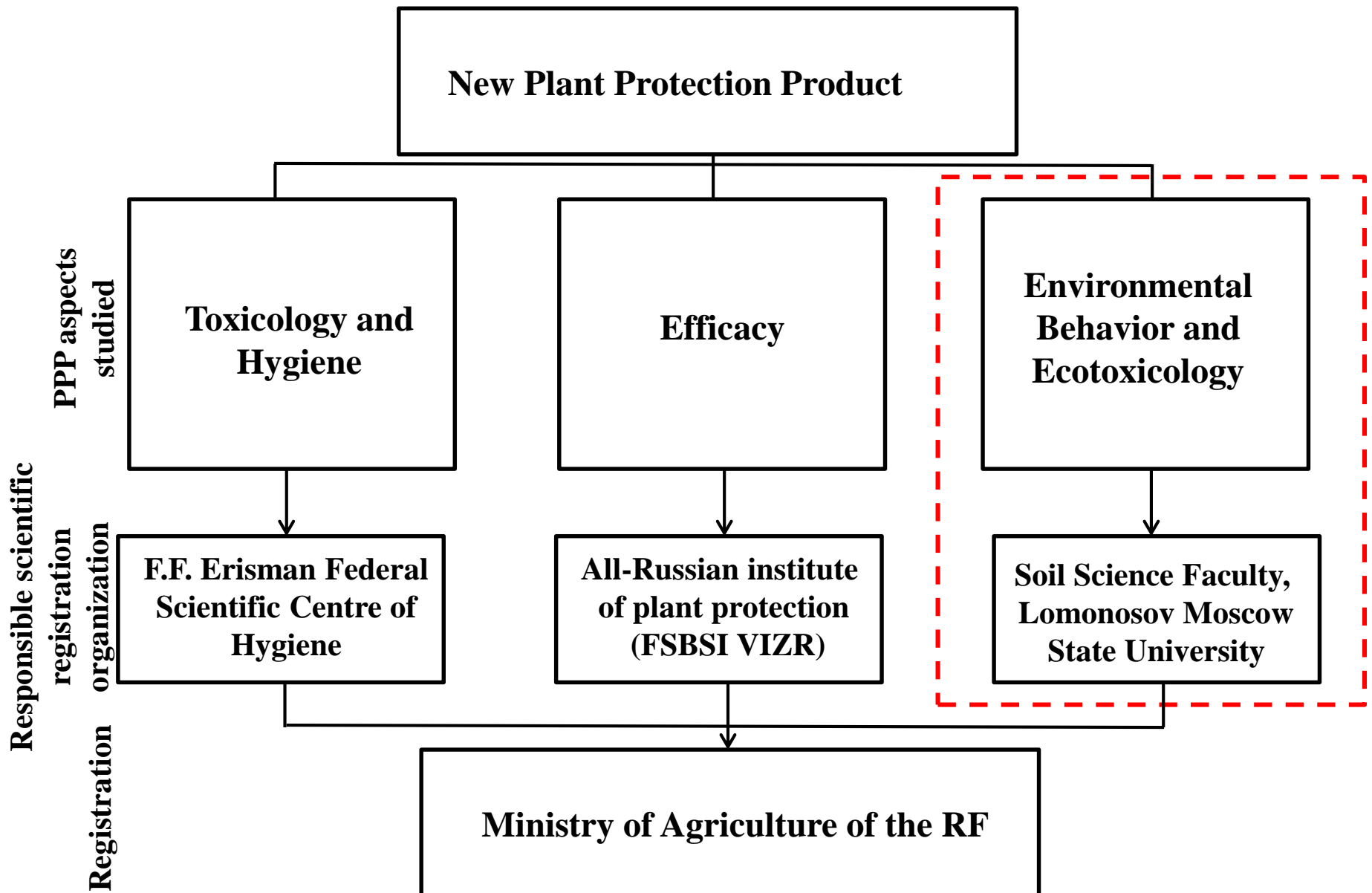
**Expert Group on Ecological Assessment of Pesticides**

**Vladimir Tikhonov**

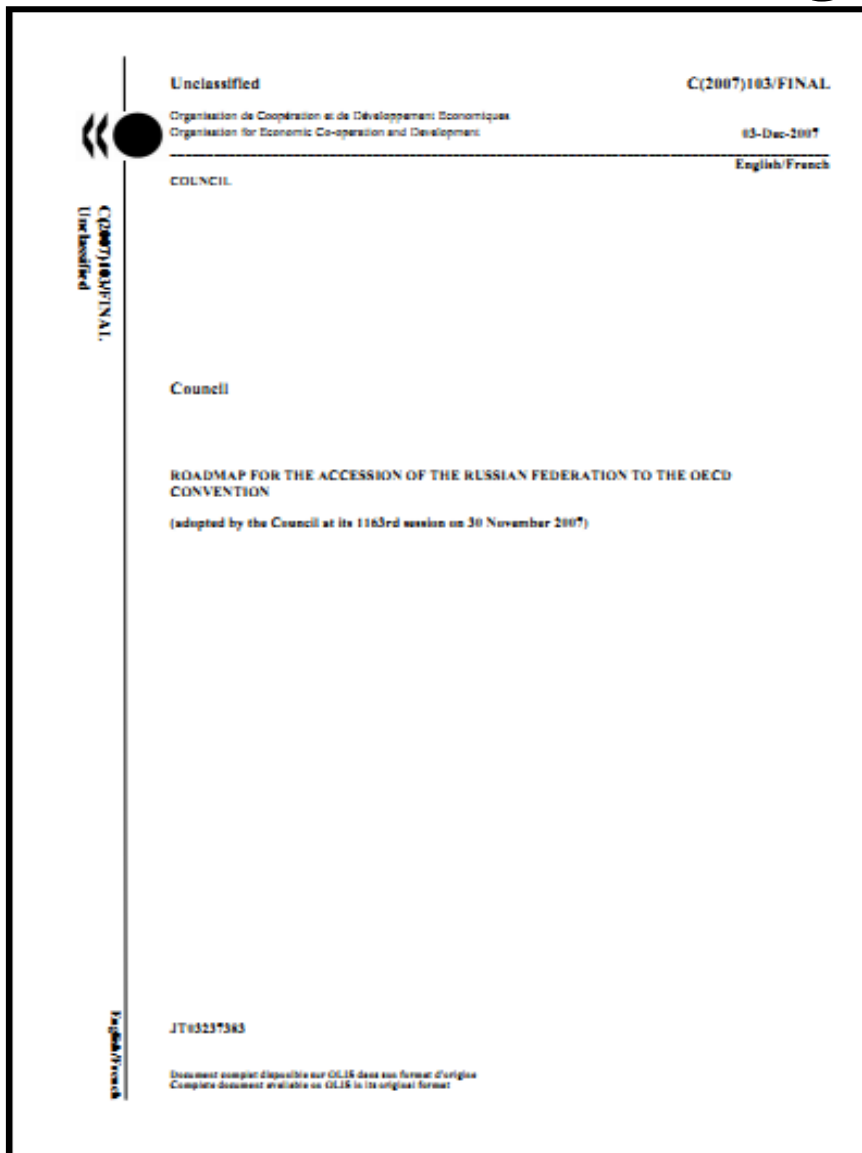
**Mikhail Maslov**

**Vienna, 2018**

# Registration of pesticides in the Russian Federation



# Accession of Russia to the OECD and chemicals regulation

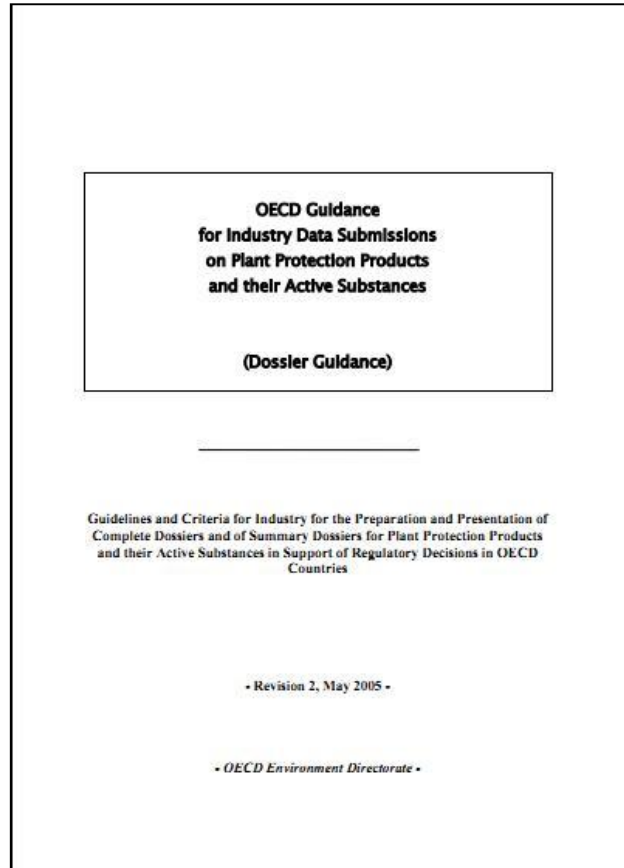


## Main principles of regulation:

- **Comparability of applied legal framework in protection of human health and environment**
- **Mutual recognition of data for evaluation of chemicals**
- **promotion used in the OECD system of chemicals management to create equal “rules of the game”**

# Pesticide registration requirements for ecological data are corresponded OECD format dossier

## OECD



## Russia

Зарегистрировано в Минюсте России 2 августа  
2007 г. N 9942

**МИНИСТЕРСТВО СЕЛЬСКОГО  
ХОЗЯЙСТВА РОССИЙСКОЙ  
ФЕДЕРАЦИИ**

**ПРИКАЗ  
от 10 июля 2007 г. N 357**

**ОБ УТВЕРЖДЕНИИ ПОРЯДКА  
ГОСУДАРСТВЕННОЙ РЕГИСТРАЦИИ  
ПЕСТИЦИДОВ И АГРОХИМИКАТОВ**  
Список изменяющих документов  
(в ред. Приказов Минсельхоза России от  
17.06.2009 N 231,  
от 24.08.2009 N 386, от 01.02.2011 N 26,  
от 25.06.2015 N 268)

**1. Section 5. Fate and behavior  
in the environment**  
**2. Section 6. Ecotoxicology**

**1. Annex 1 Sections E 1.1, E 2.1**  
**2. Annex 1 Sections E 1.2, E 2.2**

# **Mutual recognition of the results of pesticide laboratory studies obtained in Russian and foreign laboratories which corresponded the principles of good laboratory practice**



**Article 9 of № 109 Federal Law dated 19.04.1997 «About the safe handling of pesticides and agrochemicals» amendment dated 17.04.17**

**(Mutual recognition will come into force after Russia's accession to OECD)**

# **Russian National Plan of the Chemical Tests Standardization**

**(Euro-Asian Interstate Standards = OECD Test Guidelines)**

## **Section of OECD Tests**

**Ecotoxicology**

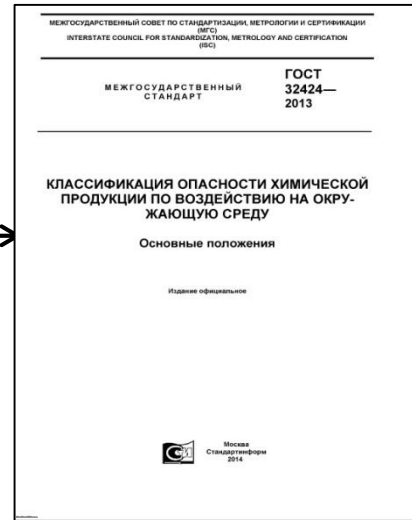
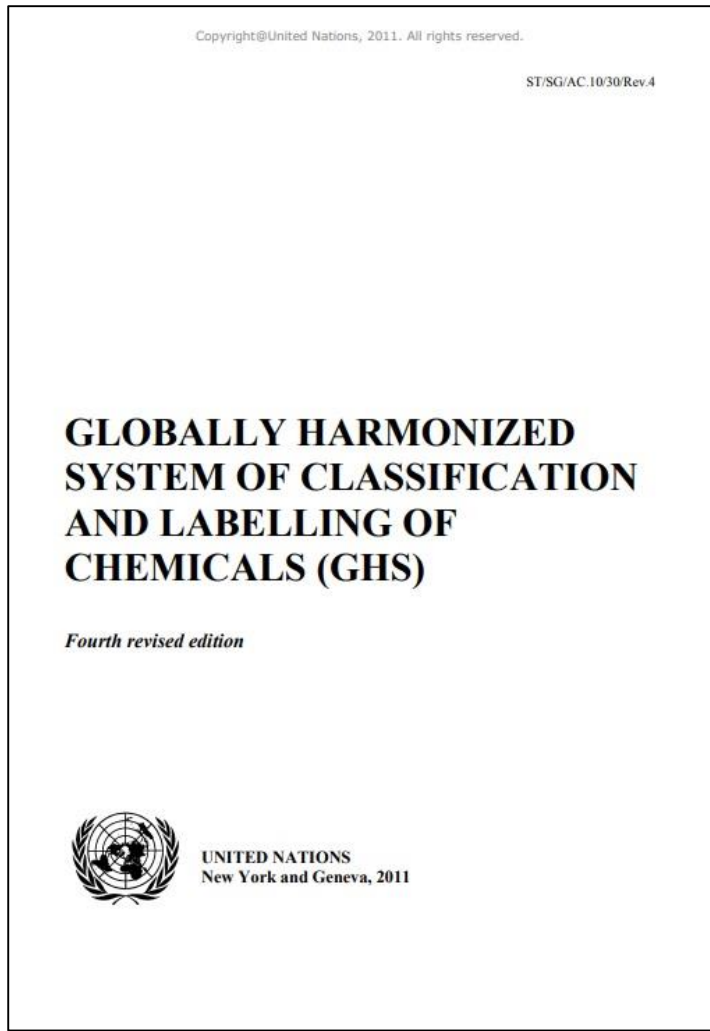
**Fate and behavior in the environment**

## **EAI Standards**

**23**

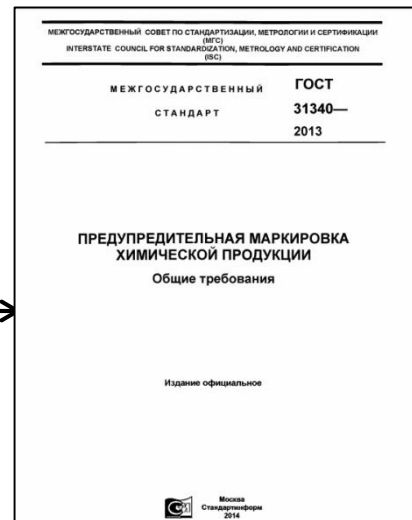
**8**

# Hazard assessment of pesticides and its labelling in the RF



## GOST 32424-2013

«Classification of chemicals for environmental hazards. General principles»  
(Based on the classification MSDS is created)



## GOST 31340-2013

«Labelling of chemicals. General requirements»  
(Based on the classification a pesticide label is created)

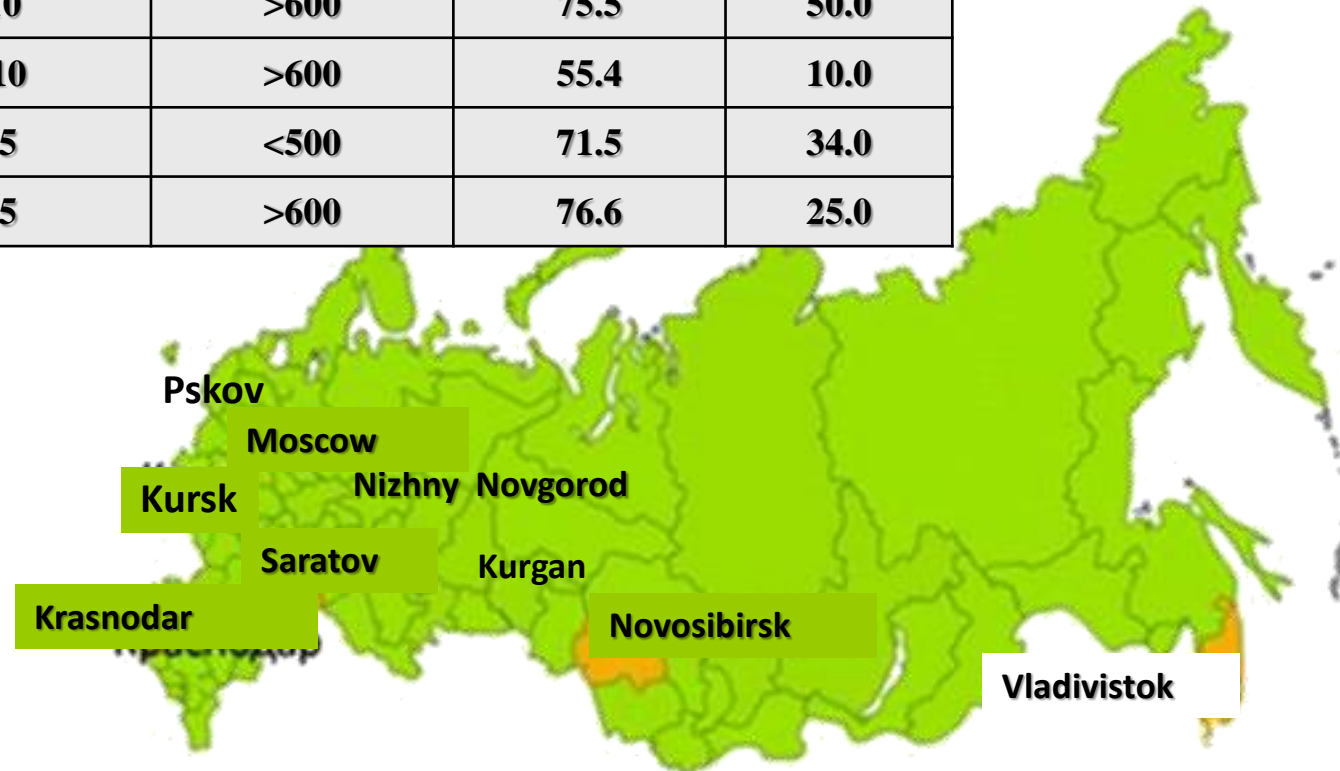
# **Pesticide ecological risk assessment in Russia**

- 1. Russian approaches are close to EU risk assessment**
- 2. Risk = Toxicity/PEC**
- 3. PEARL, MACRO and SWASH models with Russian standard scenarios are the main tools for prediction of pesticide concentrations in soil and water**



# Russian standard soil-climatic scenarios for models

Region	Mean annual temperature, °C	Annual precipitations, mm	Square, thousand km <sup>2</sup>	Arable lands, %
Novosibirsk	1-5	<500	177.8	21.0
Moscow	5-10	>600	45.8	22.0
Vladivostok	5-10	>600	164.7	4.0
Saratov	5-10	500-600	101.1	58.0
Kursk	5-10	>600	30.0	64.0
Krasnodar	>10	>600	75.5	50.0
Pskov	5-10	>600	55.4	10.0
Kurgan	1-5	<500	71.5	34.0
Nizhny Novgorod	1-5	>600	76.6	25.0



# Comparison of EU and Russia standard scenarios

## Soil organic matter, %

EU	1,3-7,0
RF	0,4-7,7



## Annual precipitations, mm

EU	493-1150
RF	400-829



## Mean annual temperature, °C

EU	4,1-17,9
RF	1,5-11,4



**Thank you for your attention!**