

ERFP General Assembly, Lyon, France, 26-27.08.2023.



## Animal Genetic Resources in Serbia – current status and perspective –

Srdjan Stojanović

Ministry of Agriculture, Forestry and Water Management

1

ERFP General Assembly, Lyon, France, 26-27.08.2023.

The Republic of Serbia is situated in South-East Europe, on the Balkan Peninsula. It covers a territory of **88.361 sq. km.**



2

*ERFP General Assembly, Lyon, France, 26-27.08.2023.*

- **Organized work on the management of AnGR started at the 1994 years, with the identification of all breeds;**
- **Data was sent to DAD-IS;**
- **At the moment, Serbia does not use the FAO breed classification system (we use national class. sys.);**




3

*ERFP General Assembly, Lyon, France, 26-27.08.2023.*

**Institutions responsible for the management of AnGR**

- ❖ **Ministry of Agriculture, Forestry and Water Management**
- ❖ **PUBLIC SERVICE / Herdbook and breeding programme: Livestock Institute Belgrade, Agriculture Faculty Belgrade, Agriculture Faculty Novi Sad**
- ❖ **Veterinary Directorate / Local Veterinary Stations / Animal Health**
- ❖ **PUBLIC SERVICE – Advisory services / Collecting data for PEDs**
- ❖ **Local Municipalities / Local programme for support**

4

*ERFP General Assembly, Lyon, France, 26-27.08.2023.*

---

**Legal frameworks for the management of AnGR**

- Law on Animal Husbandry („Off. Gaz.“, 09, corr. 12, 16)
- Law on Agriculture and Rural Development („Off. Gaz.“, 09, corr. 16, 21)
- Law on Incentives in Agriculture and Rural Development („Off. Gaz.“, 13, corr. 14, 15, 16, 23)
- The Strategy for the Agriculture and Rural Development 2014-2024 (WG formed to develop a new strategy)
- Nat. Rural Dev. Program 2015-2020 exp.
- National Program for the Management of AnGR (not vet)
- CBD (ratified)
- Nagoya Protocol (ratified)
- EUGENA MoU (signed, 2018)




5

*ERFP General Assembly, Lyon, France, 26-27.08.2023.*

---

**Very important changes made 2023**

- Law on Incentives in Agriculture and Rural Development („Off. Gaz.“, 13, corr. 14, 15, 16, 23);
- Applications for incentives go online (eAgrar) and this has made the procedure much easier for farmers and prevented some illegal activities;



6

*ERFP General Assembly, Lyon, France, 26-27.08.2023.*

**EUGENA (MoU with ERFP signed 2018)**

**-Until now four institutions signed agreement with MAFWM to join EUGENA:**

- 1. Center for reproduction and artificial insemination, Velika Plana;**
- 2. Faculty of Agriculture Novi Sad (Campus-Institute Temerin)**
- 3. Institute for Molecular Genetics and Genetic Engineering, Belgrade**
- 4. Institute for Animal Husbandry, Belgrade**



7

*ERFP General Assembly, Lyon, France, 26-27.08.2023.*

**Production Environment Descriptors (PEDs)**

**-Thru the Advisory services from 2020 year MAFWM start to collect data for PEDs, based on GPS coordinate of the farms;**

**-We are many thanks to the FAO team who prepared earlier these descriptors;**

**-What data we collect:**

- 1. Natural Environment**
  - Climate
  - Terrain features
  - Disease, parasites and other threats to animal health
- 2. Management Environment**
  - Management Intervention
  - Socio-economic characteristics
- 3. In annex: Describing breed`s special qualities**
- 4. Breed data: morphological, performance and milk production**

8

*ERFP General Assembly, Lyon, France, 26-27.08.2023.*

**The population trend of Locally Adapted Breeds in Serbia (2000-2022) registered animals in herdbook**

<b>Breed</b>	<b>No of farmers</b>	<b>No of animals</b>			
		<b>2022</b>	<b>2015</b>	<b>2010</b>	<b>2005</b>
<b>Podolian cattle</b>	<b>19</b>	<b>384</b>	<b>240</b>	<b>350</b>	<b>137</b>
<b>Busha cattle</b>	<b>98</b>	<b>2199</b>	<b>669</b>	<b>550</b>	<b>65</b>
<b>Domestic buffalo</b>	<b>314</b>	<b>1617</b>	<b>423</b>	<b>250</b>	<b>139</b>
<b>Domestic-mountain pony</b>	<b>731</b>	<b>3124</b>	<b>110</b>	<b>80</b>	<b>17</b>
<b>Nonius</b>	<b>41</b>	<b>143</b>	<b>74</b>	<b>85</b>	<b>34</b>
<b>Balkan donkey</b>	<b>104</b>	<b>830</b>	<b>281</b>	<b>250</b>	<b>22</b>
<b>Mangalitsa pig</b>	<b>69</b>	<b>2460</b>	<b>780</b>	<b>400</b>	<b>262</b>
<b>Moravka pig</b>	<b>356</b>	<b>4061</b>	<b>103</b>	<b>100</b>	<b>33</b>
<b>Resavka pig</b>	<b>18</b>	<b>224</b>	<b>16</b>	<b>40</b>	<b>8</b>

9

*ERFP General Assembly, Lyon, France, 26-27.08.2023.*

**The population trend of Locally Adapted Breeds in Serbia (2000-2022) registered animals in herdbook**

<b>Breed</b>	<b>No farm.</b>	<b>No of animals</b>			
		<b>2022</b>	<b>2015</b>	<b>2010</b>	<b>2005</b>
<b>Lipska sheep</b>	<b>75</b>	<b>2601</b>	<b>687</b>	<b>300</b>	<b>110</b>
<b>Krivovirska sheep</b>	<b>83</b>	<b>2221</b>	<b>532</b>	<b>350</b>	<b>273</b>
<b>Bardoka sheep</b>	<b>19</b>	<b>298</b>	<b>81</b>	<b>60</b>	<b>31</b>
<b>Vlashko-vitoroga sheep</b>	<b>17</b>	<b>1138</b>	<b>468</b>	<b>350</b>	<b>70</b>
<b>Pirotska sheep</b>	<b>11</b>	<b>393</b>	<b>101</b>	<b>50</b>	<b>20</b>
<b>Karakachanska sheep</b>	<b>13</b>	<b>416</b>	<b>165</b>	<b>130</b>	<b>40</b>
<b>Chokan Tsigai sheep</b>	<b>15</b>	<b>2453</b>	<b>650</b>	<b>550</b>	<b>288</b>
<b>Balkan goat</b>	<b>29</b>	<b>1358</b>	<b>521</b>	<b>250</b>	<b>203</b>
<b>Domestic white goat</b>	<b>16</b>	<b>198</b>	<b>N/I</b>	<b>N/I</b>	<b>N/I</b>
<b>Somborska hen</b>	<b>4</b>	<b>324</b>	<b>260</b>	<b>200</b>	<b>159</b>
<b>Banat Naked Neck</b>	<b>13</b>	<b>1248</b>	<b>560</b>	<b>450</b>	<b>207</b>

10



*ERFP General Assembly, Lyon, France, 26-27.08.2023.*

### TYPICAL PRODUCTS FROM LOCALLY ADAPTED BREEDS

*Milk products are divided in three groups: cheese, kaymak and low-fat cheese.*

1. *Krivovirski kachkaval (hard cheese)*
2. *Svrljig cheese (white cheese)*
3. *Pirot kachkaval (hard cheese)*
4. *Buffalo butter*
5. *Donkey milk cheese (the most expensive in the World, 1000 Euro/kg)*
6. *Soap, liqueur and face cream from Donkey milk*



11

*ERFP General Assembly, Lyon, France, 26-27.08.2023.*

### TYPICAL PRODUCTS FROM LOCALLY ADAPTED BREEDS

*Meat and other products:*

1. *Podolian ham*
2. *Mangalitsa sausage*
3. *Mangalitsa ham*
4. *Mangalitsa fat*
5. *Mangalitsa bacon*
6. *Donkey sausage*
7. *Pirot's rug*



12

*ERFP General Assembly, Lyon, France, 26-27.08.2023.*

### **Main tasks for future work**

- 1. Continue financial support for implementation of GPA;***
- 2. Increasing of support scientific research (DNK research...);***
- 3. Increasing of promotion AnGR,***
- 4. Continue of support popularization of AnGR (animals exhibition, shows...);***
- 5. Improving the quality of local products (PDO, PGO, organic);***

13

*ERFP General Assembly, Lyon, France, 26-27.08.2023.*

### **Main tasks for future work**

- 6. Developing sustainable use of AnGR and valorisation true agro-turism;***
- 7. Continue of cooperation on global, regional and national level related to AnGR;***
- 8. Increasing of support EUGENA network and National Gene Banks;***
- 9. Continue of cooperation with Advisory Services on PED`s data collection and improving of quality of these data;***

14