



NATIONAL AGRICULTURAL
AND FOOD CENTRE

SOIL SCIENCE AND CONSERVATION
RESEARCH INSTITUTE

European Soil Partnership and Soil Policy in Slovakia

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Giving soils a voice! ENSA Bratislava 2017

Soil resources of Slovakia

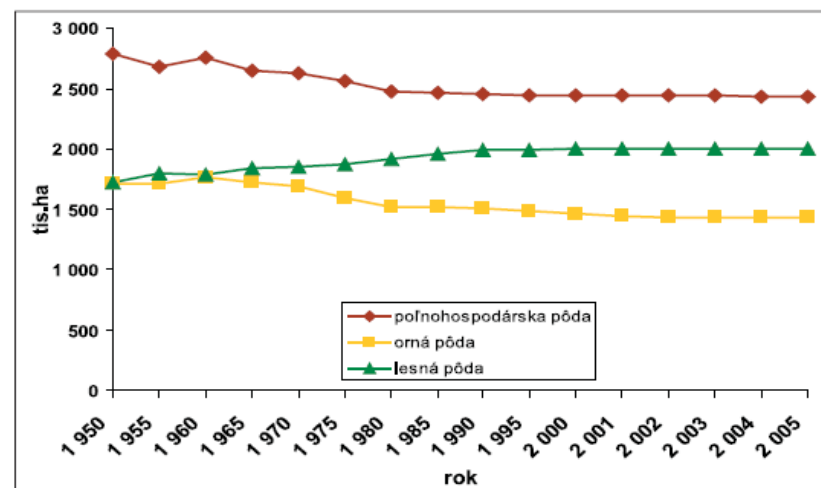
Area of agricultural land **2 401 693 ha**:

- Arable land 1 413 129 ha
- Hop garden 513 ha
- Vineyards 26 750 ha
- Gardens 76 447 ha
- Orchards 16 793 ha
- Permanent grassland 868 061 ha

Area of forest land **2 015 368 ha**

Area per capita:

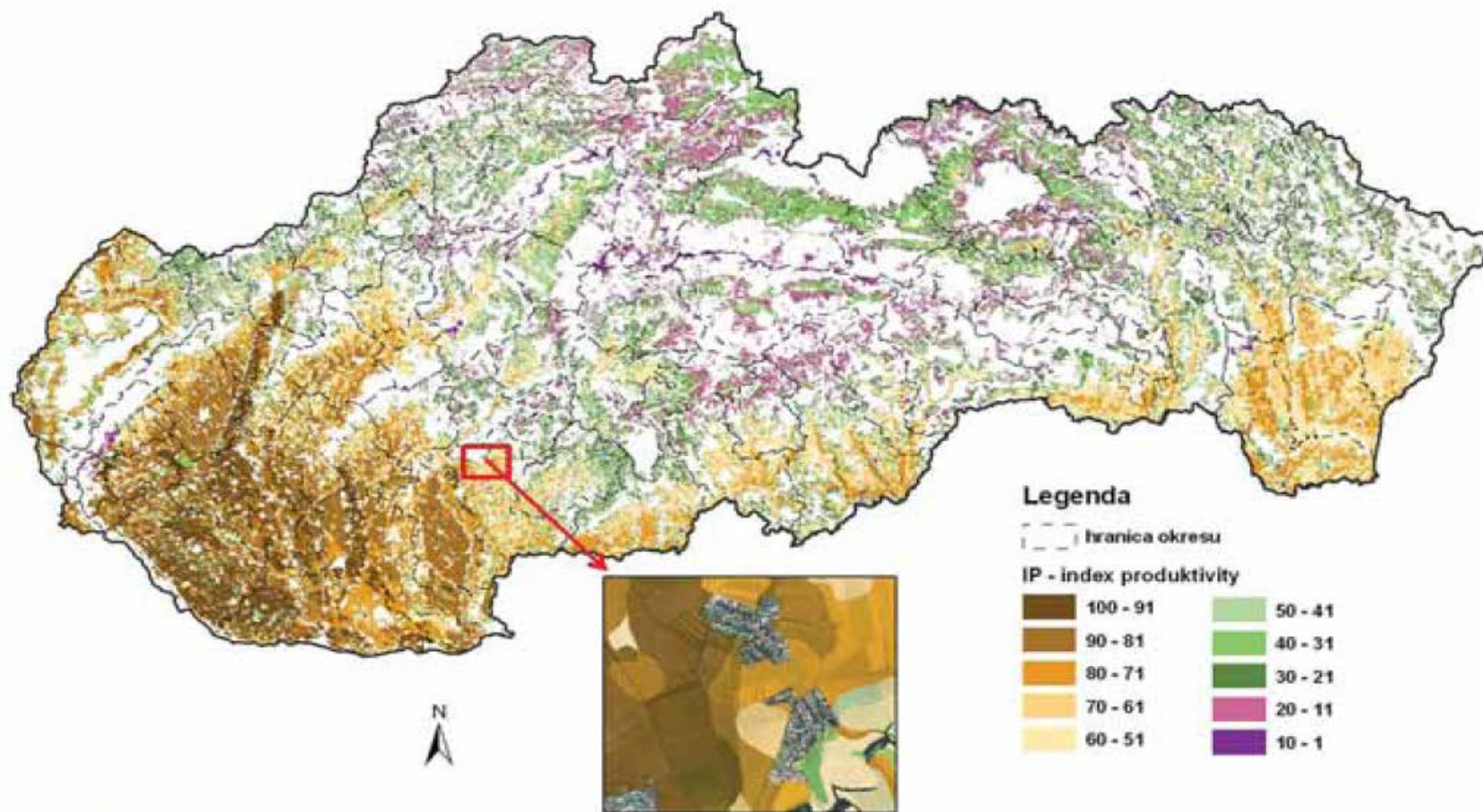
- 0.4434 ha of agricultural land
- 0.2609 ha of arable land



Graf 1 Vývoj výmery pôdy v SR (tis. ha)

Zdroj: Štatistická ročenka o pôdnom fonde, 2007

Mapa 16 Produkčný potenciál poľnohospodárskych pôd SR (bodové hodnoty)



topografický podklad © 2002 ÚGNK SR, ArcInfo s. r. o.
tematický obsah © 2007 VÚPOF Bratislava

Soil degradation in Slovakia

Soil degradation	Area of agricultural land	Relevance
Water erosion (potential threat)	39%	Very relevant
Wind erosion (potential threat)	6,5 %	Less relevant
Soil organic matter decrease (potential threat)	More than 25%	Very relevant
Compaction (potential threat)	Cca 40%	Very relevant
Landslides	Negligible area	
Contamination	Less than 1,5 %	Less relevant
Acidification	17,5 %	Relevant
Salinization	0,2 %	Non-relevant
Land take	About 3 ha per day	Less relevant



Legislation of Soil protection in SR

SK – Soil Protection Act

- Act No. 220/2004 Z. z. on protection and use of agricultural land

SK – Water Act

- Act No. 364/2004 Code Water law

SK – Act on Fertilizers

- Act No. 136/2000 Z.z on fertilizers and its amendment No. 394/2015 Code

SK – Act Concerning the Application of Sewage Sludge and Ground Sediments into the Soil

- Act No. 188/2003 Code



SK – Act Concerning Flood Protection

- Act No. 7/2010 Z. z o ochrane pred povodňami

SK – Act on Environmental Impacts Assessment

- Act No. 24/2006 Code

SK – Act Concerning Prevention and Rectification of Environmental Damage

- Act No. 359/2007 Code

SK – Land Consolidation Act

- Act No. 330/1991 Code

SK – Nature Protection Act

- Act No. 543/2002 Code



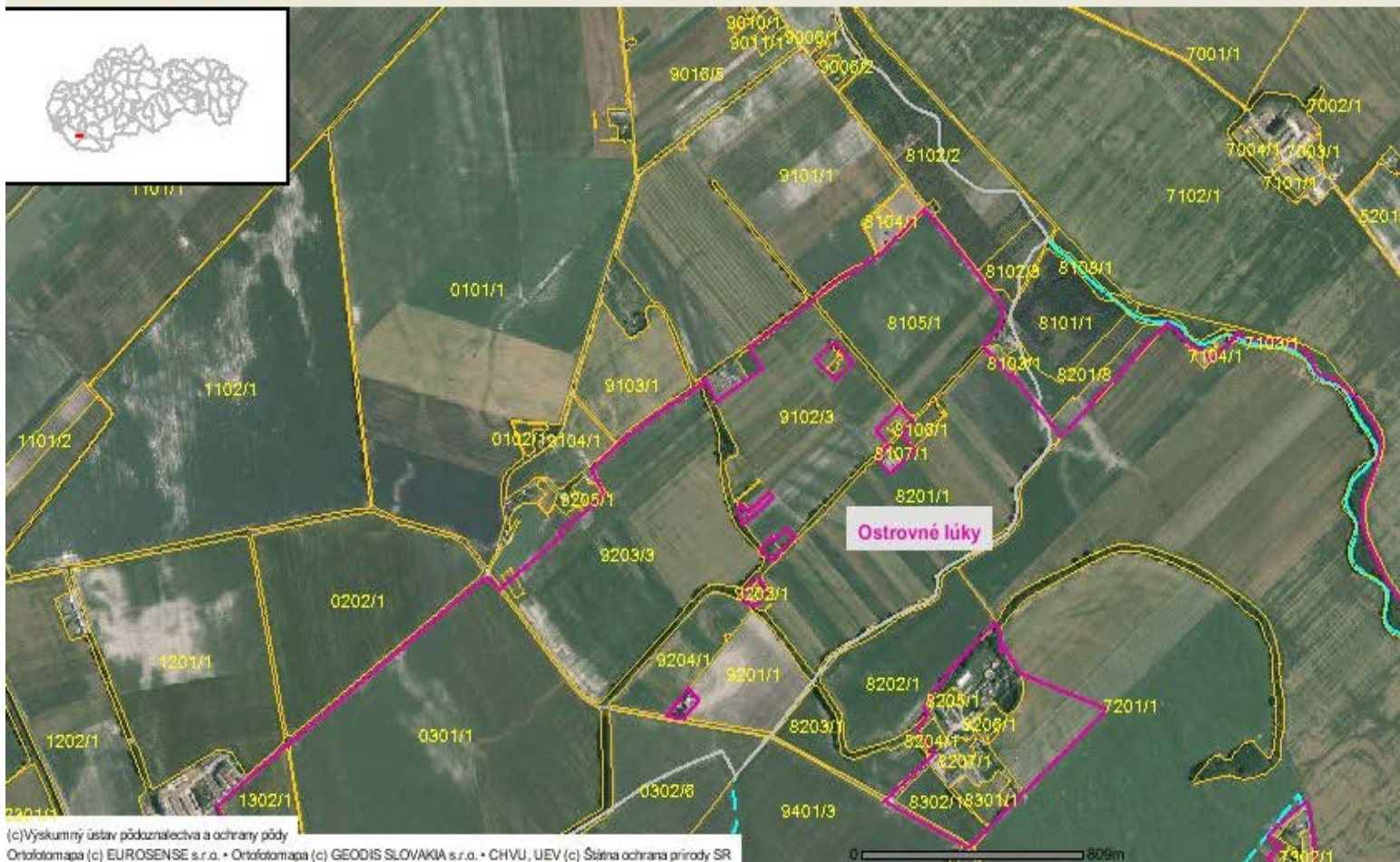
SK – CAP Rural Development Programme 2014-20

- SPP – Program of Rural development 2014-2020

SK – CAP Greening Payment Requirements

- The list of EFA elements that Slovak farmers can choose includes five of the seven elements that protect soil and carbon in the soil: **fallow, terraces, buffer strips, inter-crops / green cover and crop rotation.**
- Slovakia labeled 149,651 hectares of environmentally sensitive areas (ESPG) within the Natura 2000 area. Farmers can not plow or change this territory.





- Vrstvy**
- | Viditeľne | Aktívne | |
|-------------------------------------|----------------------------------|----------------|
| <input type="checkbox"/> | <input type="radio"/> | Lokality |
| <input type="checkbox"/> | <input type="radio"/> | NDIR |
| <input type="checkbox"/> | <input type="radio"/> | UEV |
| <input type="checkbox"/> | <input type="radio"/> | BPEJ 6-9 |
| <input checked="" type="checkbox"/> | <input type="radio"/> | CHVU |
| <input checked="" type="checkbox"/> | <input type="radio"/> | Okresy |
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| <input checked="" type="checkbox"/> | <input type="radio"/> | Katastre |
| <input checked="" type="checkbox"/> | | Ortofoto_06 |
| <input checked="" type="checkbox"/> | | Ortofoto_02 |

Aktualizovať mapu

[Návod](#)

(c) Výskumný ústav pôdozvedectva a ochrany pôdy
Ortofoto (c) EUROSENSE s.r.o. • Ortofoto (c) GEODIS SLOVAKIA s.r.o. • CHVU, UEV (c) Štátna ochrana prírody SR

Kultúrne diely

Rec	Lokalita	ZKODKD	Výmera	KODKD
1	Bodzianske Lúky	9203/3	50,54	519131203/3

Constitutional soil protection in SR (on 16.05.2017 approved)

Amendment of Article 20 and Article 44 of the Constitution of the Slovak Republic.

The result is anchoring the definition that land is a *"non-renewable natural resource that enjoys special protection from the state and society"* directly in Article 44 of the Constitution of the SR

After a change in the constitution, laws should be adopted to clarify the soil management procedure, whether by commercial companies or farm-keepers.



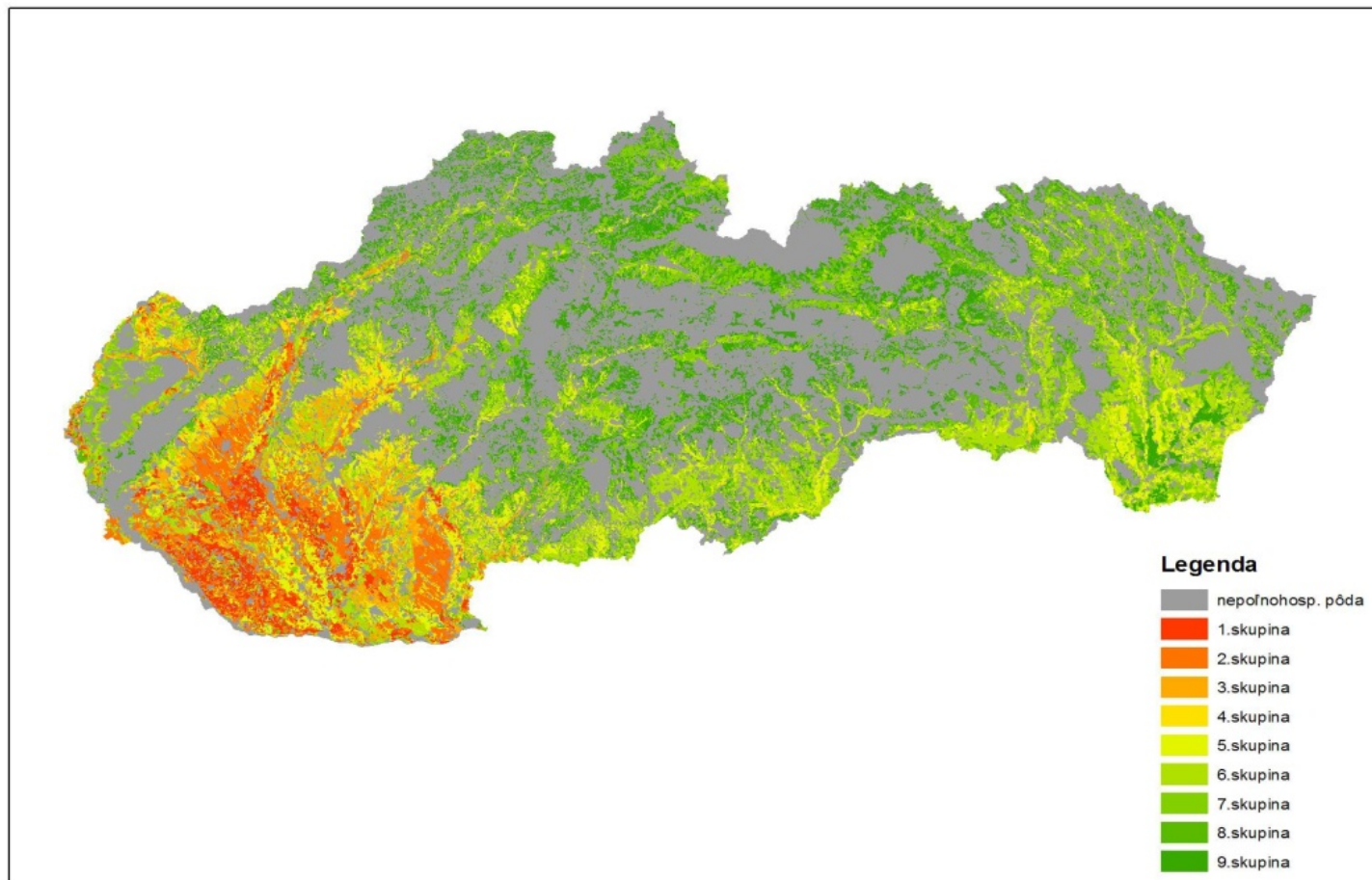
Soil protection Act No. 220/2013

The principles of sustainable agricultural land use, management and protect it from degradation defines several paragraphs

- § 5 protect agricultural land from **erosion**
- § 6 protection of agricultural land against **compaction**
- § 7 of the principle balance of **soil organic matter**
- § 8 protection of agricultural land against **risk substances**



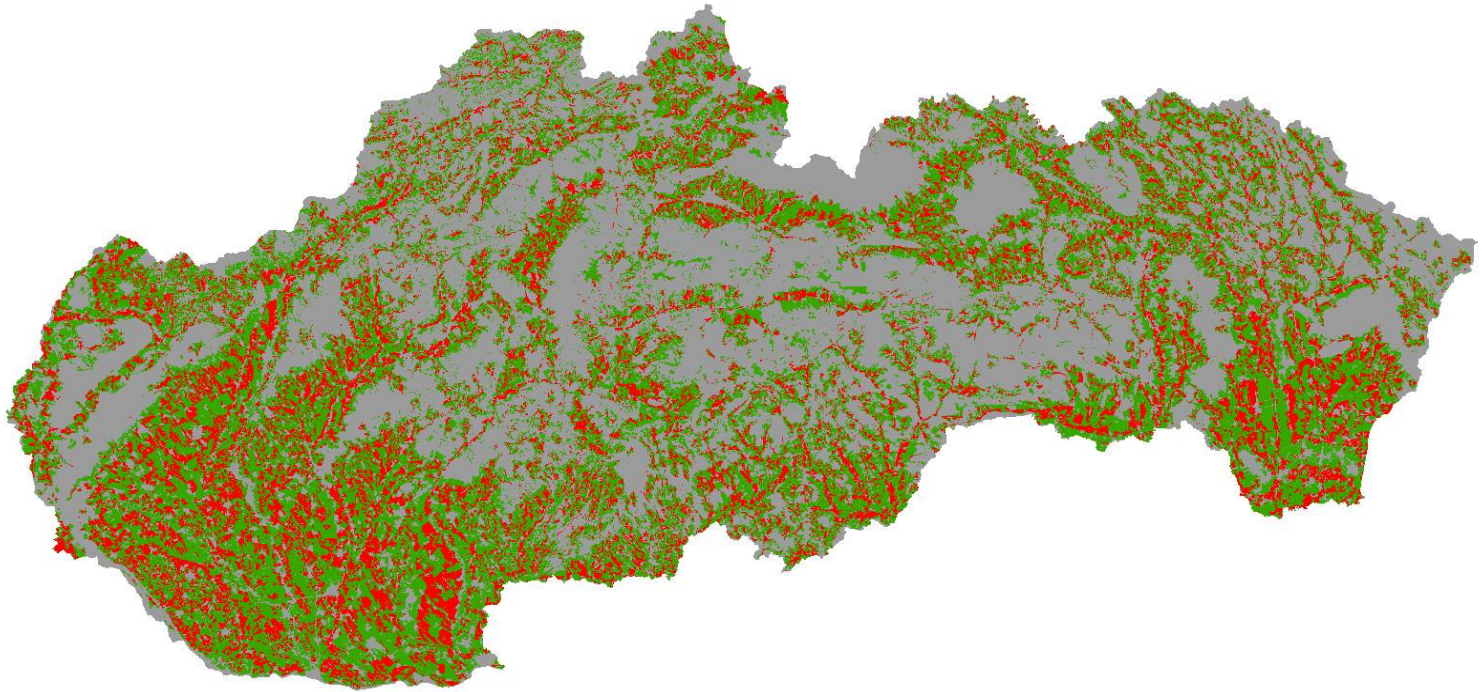
Act No. 219/2008 and Government regulation No. 58/2013 ref. land take



Previous concept (2008) protecting soil of the first 4 soil quality group - **21 %** protected agricultural land



Government regulation No. 58/2013 ref. land take



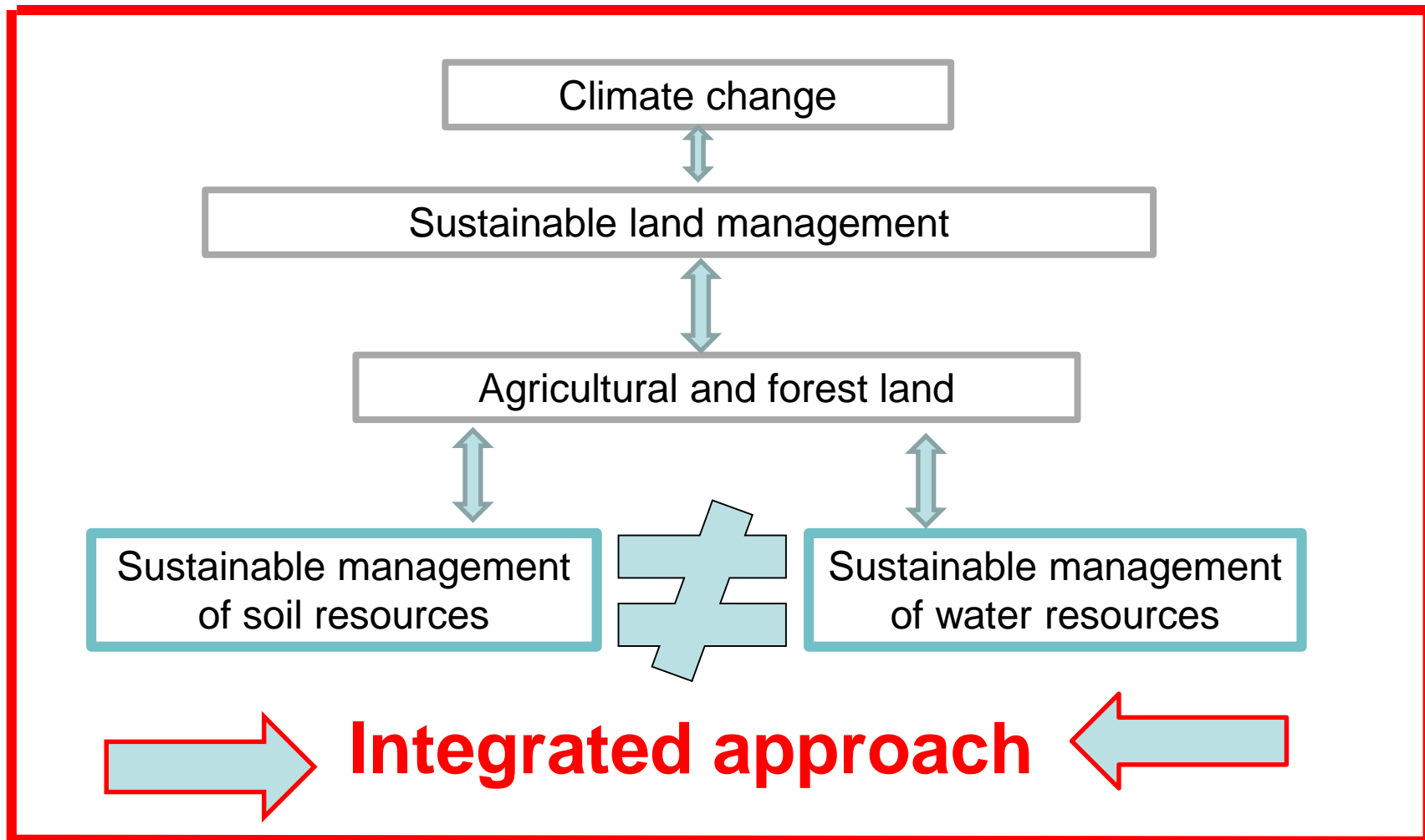
The payment for take of protected agricultural land is ranking from 0.50 to 20 EUR per 1 m sq.

Legenda

- nepoľnohospodárska pôda
- chránená pôda
- nechránená pôda

Actual concept (2013) protecting soil of the first soil quality groups in each cadastre - **37 %** protected agricultural land





Integrated approach in sustainable management is needed for each component of the land



Soil awareness in Slovakia



**GLOBAL SOIL
PARTNERSHIP**

Slovakia is involved in the European Soil partnership:

- NPPC – Soil Science and Conservation Research Institute
- Slovak Pedological Society (Societas pedologica slovac, c.o.)

National contact points are:

Vlasta Jánová (Ministry of Environment of the SR)

Jaroslava Sobocká (NPPC-VUPOP)

Beata Houšková (NPPC-VUPOP)



ESP Pillar Working Groups in Slovakia

Inviting experts for pillars ESP and other working groups:

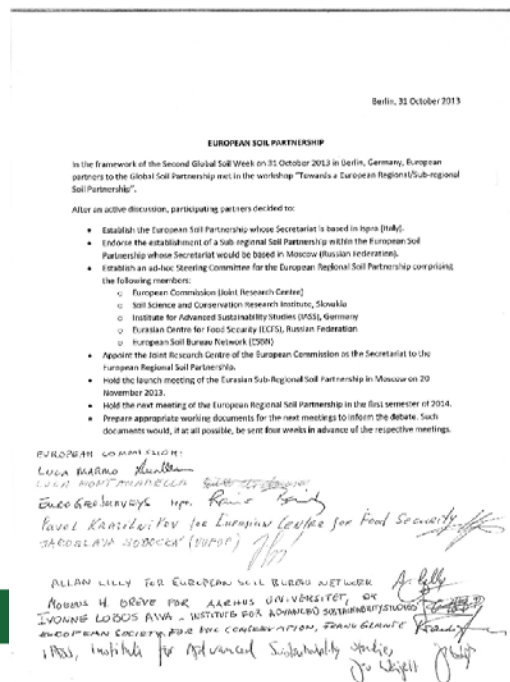
P1 – Jaroslava Sobocká

P2 – Beata Houšková (member of the ESNB-WG4, ENSA)

P3 – Peter Hanajík

P4 – Rastislav Skalský

P5 – Jozef Kobza





Jaroslava Sobocka worked in the
Intergovernmental technical panel on soils
GSP in years 2013-2015 (Rome, Italy)

itps

INTERGOVERNMENTAL TECHNICAL
PANEL ON SOILS

Recent activities

- Global Symposium on Soil Organic Carbon (21-23 March 2017)
- Global Organic Carbon Map (we deliver a vector database)
- Plenary assembly of GSP and ESP – participation
- Activities celebrating World Soil Day 5th of December – annual meeting of the SPS and Slovak Academy of Agricultural Sciences
- Soil presentation in print media, schools (quizzes), public addressing
- Painting by soil colours (Agrokomplex, Day of Constitution of SR, Pedological days conference)
- Contacts with farmers using sustainable soil management – Malé Ripňany, Stará Lehota and other ecological farmers, , NGO Rural platform, etc.

P4: Third workshop of the International Network of Soil Information Institutions (INSII): (31.10./01.11.2017) Rastislav Skalský,

P5: Launch of the Global Soil Laboratory Network (GLOSOLAN):
01.11./02.11.2017) Josef Kobza

No money for travel trips, i.e. all works are voluntary and in-kind – how to manage it?



**Let's give our
voice for
SOILS!**

