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International Conference on Agriculture and Life Sciences (ICOALS V)
3 – 5 November 2025 – Tiranë, Albania

Round Table Discussion on Mountain Pastures and Shepherds in Albania: Challenges and Prospects

by

The Grassroots Institute | Canada / Western Balkans

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&

Rural Association Support Programme

https://rasp.org.al/en/



The Grassroots Institute Horizon30











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www.tgi.org.ua www.minoritymap.org



TGI - OUR STRENGTHS TO CONTRIBUTE TO WESTERN BALKANS

THEMATIC/TECHNICAL STRENGTHS

- Participatory Rangelands (Grasslands, Meadows, Pastures) Conservation & Management
- Transhumance, Pastoralism, and Shepherds-Owned Self-Governance
- Sustainable/Organic Agriculture Development; Climate Smart Agriculture
- Micro Watershed Management (Integrated) and Ecological Restoration
- Conservation of Biocultural Heritage, Biodiversity Heritage, CCA (community served area)
- Land Rights, Resource Rights and Multi-Stakeholder Advocacy

METHDOLOGICAL STRENGTHS

- Project Planning, Writing, Execution, Management & Monitoring (Organizing the Local People as Primary Stakeholders [project oriented]
- Capacity Building and Training of Project Stakeholders [multiple skills & disciplines]
- Process Writing, Documentation and Communication
- Advocacy, Media Advocacy, Skill Training
- Participatory and Action Research
- Curriculum Design and Mainstreaming in School & Higher Education Institutions

TGI Western Balkans | Rangelands and Pastoralism in the Region

WESTERN BALKAN REGIONAL GATHERING OF PASTORALISTS

To observe IYRP 2026, The Grassroots Institute felicitates the Regional Gathering and calls for Partners and Collaborators in all 6 countries of the Western Balkans region. We are in the process of constituting Organizing Committees at the national, zonal, local levels. Interested stakeholders, including shepherd groups/ associations, national or local NGOs, municipalities, government departments, regional authorities, academic institutions, animal products business federations, farmers' cooperatives, youth groups, colleges/schools, and others, are invited to contact us.





25-26 APRIL 2026





DR. HASRAT ARJJUMEND

Postdoc, PhD, MPhil, MSc, MA, PGDip Env Law, LLB, MBA

Emails: harjjumend@gmail.com; president@grassrootsinstitute.net editor@grassrootsjournals.org

Web: www.tgi.org.ua/governances/hasrat-arjjumend www.grassrootsinstitute.net/hasrat_arjjumend.html

Lead Website: www.grassrootsinstitute.net

WhatsApp/Viber/Telegram: +91 9868993710

Phones: +380 955 843073 | +1 437 5355084

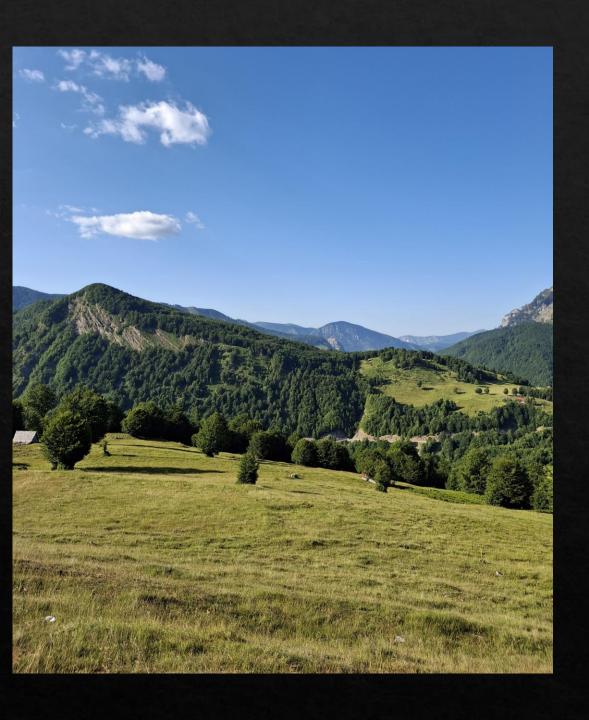
Facebook: www.facebook.com/harjjumend LinkedIn: www.linkedin.com/in/harjjumend

ORCID: 0000-0002-4419-2791

Google Scholar ID: 6D-2gdUAAAAJ

- Global Coordinator, Grassroots Global Network
 www.grassrootsglobal.net | ggn@grassrootsglobal.net
- President, The Grassroots Institute Canada
 www.grassrootsinstitute.ca | lead@grassrootsinstitute.ca
- President, The Grassroots Institute Ukraine www.tgi.org.ua | mail@tgi.org.ua
- President, The Grassroots Institute Western Balkans www.tgi-wb.eu | contact@tgi-wb.eu
- Chief (Executive) Editor, Grassroots Journals
 www.grassrootsjournals.org | info@grassrootsjournals.org
- Founder, TGI Versity, Hungary/India www.tgiversity.org | mail@tgiversity.org
- Co-Chair, RISG-Central Asia Mongolia, & Member, Global Coordination Group, RISG-Europe, International Year of Rangelands & Pastoralists 2026 | www.iyrp.info
- International Coordinator, Mountain Alliance for Pastoralists & Minority People (MAP), Europe & Asia www.grassrootsglobal.net/map

https://grassrootsinstitute.net/hasrat_arjjumend.html

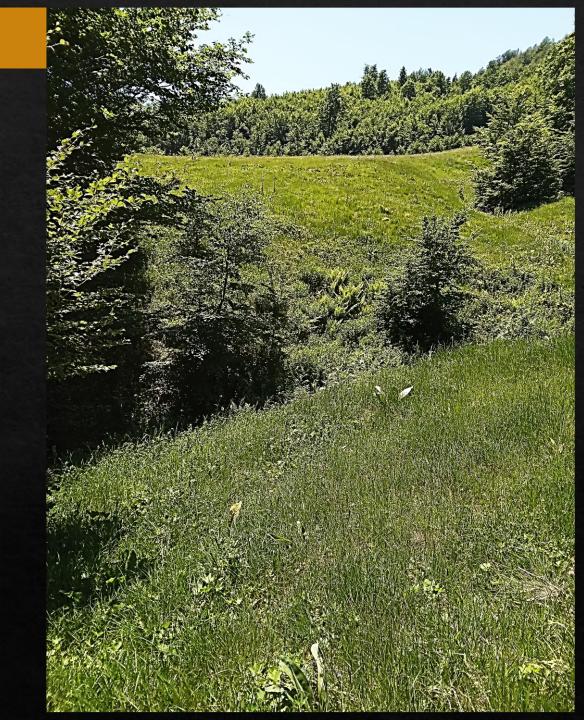


By: Hasrat Arjjumend



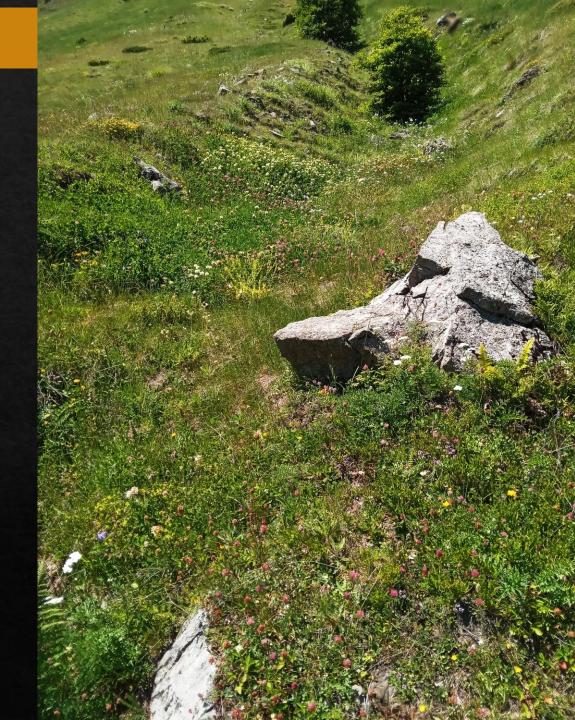


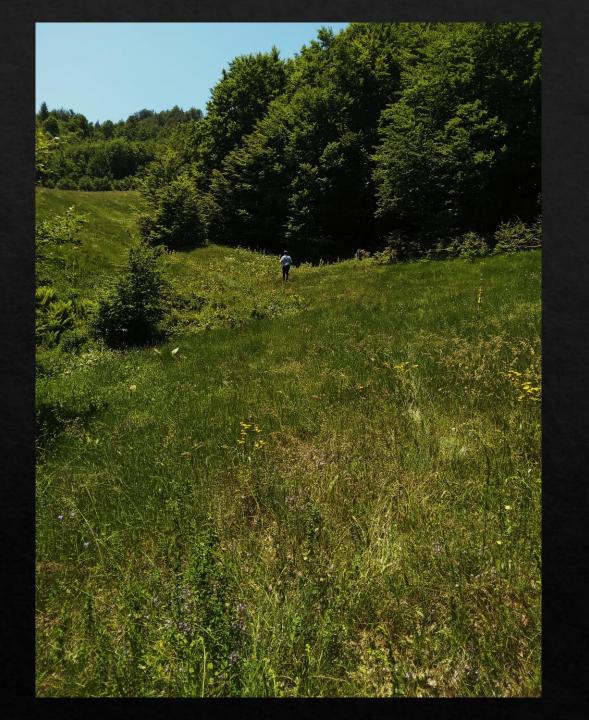
- Mountain pastures (alpine, subalpine and montane pastures and rangelands)
- Shaped by altitude, aspect and microtopography
- Not a single homogeneous habitat, but a mosaic of grasslands, meadows, shrublands, seasonal wetlands and rocky outcrops
- Vertical heterogeneity produces high local biodiversity, strong environmental gradients, and tightly coupled human—nature interactions
- Pastoralism and traditional management practices have co-evolved with these environments

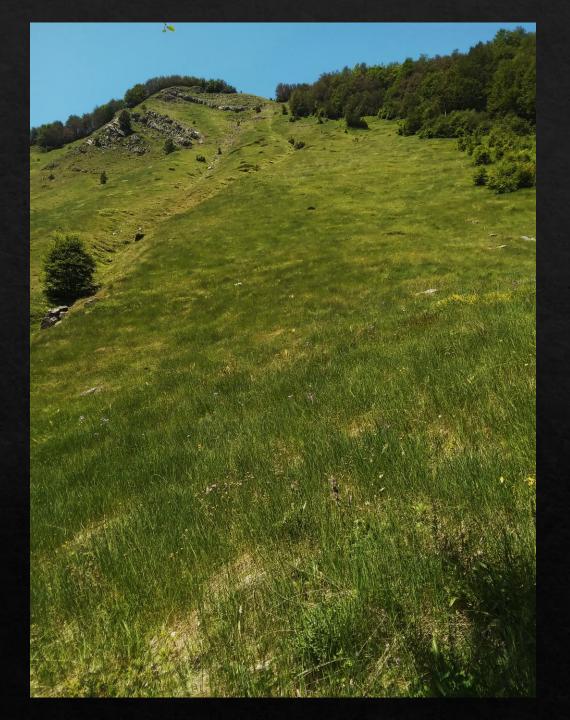


Vegetation patterns and plant functional traits

- **High beta-diversity:** With rapid change along elevation and aspect, species turnover is high; mountain pastures support rare, endemic or range-edge species adapted to cold, drought, or nutrient-poor soils.
- Plant functional mix: Grasses, sedges, herbs, low shrubs and cushion plants form the typical assemblage. Species have conservative life-history traits (e.g., slow growth, clonal spread, deep or fibrous roots) that confer resilience to grazing and episodic stress. Management (cutting, grazing intensity, timing) strongly modifies species composition.







Soil, carbon and belowground ecology

- Mountain pastures can store significant soil organic carbon (SOC) in surface horizons and peat in wet meadows; their cold soils slow decomposition and thus help retain carbon, making them relevant for climate mitigation. However, SOC stocks are highly variable and sensitive to management and erosion.
- Rocky and shallow soils often limit infiltration but maintain refuges for specialized soil fauna and mycorrhizal networks that support nutrient cycling under low-fertility conditions. Disturbance (trampling, compaction) can alter porosity and microbial functioning.



Hydrology and water regulation

 Mountain pasture mosaics, peatlands and high-altitude meadows act as natural sponges — modulating snowmelt runoff, recharging groundwater, and filtering sediments and nutrients before water flows downstream. Changes in vegetation cover or soil compaction can accelerate runoff and erosion.

Ecosystem services

- Provisioning: forage and fodder for livestock (critical for pastoral livelihoods), traditional plant resources (medicinals, hay), and genetic resources in locally adapted breeds.
- Regulating: carbon storage, water regulation, erosion control, wildfire risk modulation (depending on vegetation structure).
- Cultural & recreational: traditional pastoral cultures, transhumance routes, and high-value for tourism and landscape identity.



Disturbance ecology: grazing, fire, shrub encroachment, and mechanical impacts

- Grazing by domestic herbivores (and wild ungulates) is a primary ecological driver shaping species composition, sward structure, seed dispersal and nutrient patchiness.
- Under traditional regimes, moderate grazing often maintains open meadow habitats and high plant diversity.
- Conversely, abandonment of grazing can lead to shrub and tree encroachment, loss of open habitat specialism, and altered fire regimes.
- The net ecological effect of grazing is contextdependent — mediated by intensity, timing, herbivore type and landscape heterogeneity.



Continuing into.....

- ♦ Grazing as an Enemy of Natural Ecosystems: Dilemma of Deep Ecologists
- Modern Challenges faced by Mobile Livestock Herders in Albania

