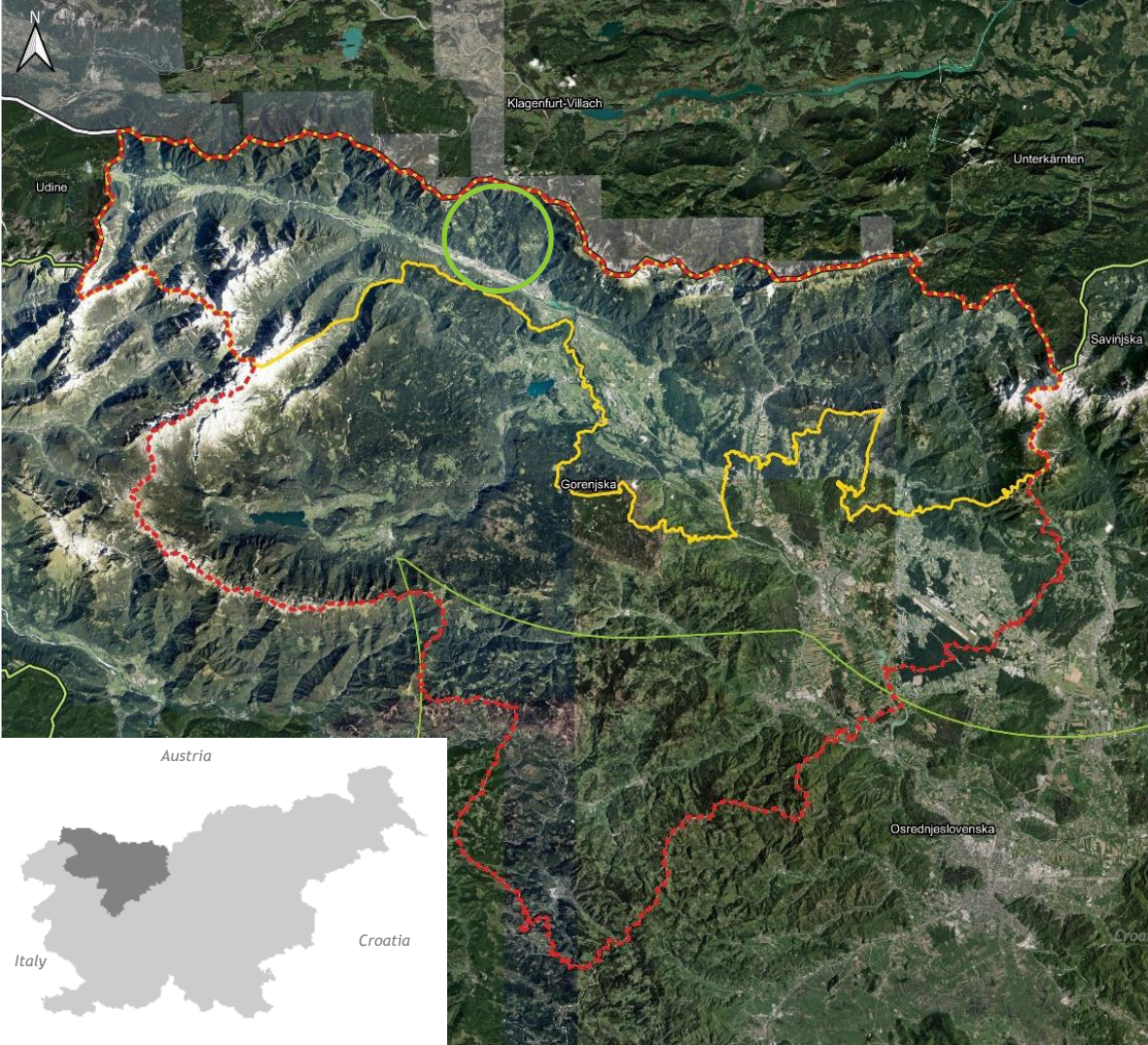


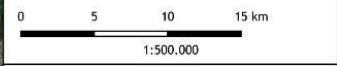
Reviving alpine meadowland in Gorenjska: sustaining vibrant blooms and safeguarding endangered species



Pilot Region 4:
Gorenjska Region
 Slovenia



- Pilot Region**
- Core Areas
 - Extended Pilot Regions
- Green Belt**
- European Green Belt
 - GB Buffer (25km)
- Administrative borders**
 NUTS Regions (Level 3)
- European countries



Sources: Esri, DigitalGlobe, GeoEye, i-cubed, USDA FSA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community



Sustaining vibrant blooms and safeguarding endangered species



What is the problem?

Decreasing of rich alpine meadows in Nature 2000 sites

Changes in agriculture practices

Accelerated forest management

Climate change (drought, floods, storms, mudslides...)



What is our goal?

Encourage the use of conservation measures for certain species

Raising awareness among the population and visitors about the importance of natural values and biodiversity conservation

In the long term, to establish and improve the management of smaller nature protected areas

Integration of the work of the various sectoral professional services and local authorities



What is our pilot action?

1. Upgrading the Daffodil Conservation Programme in Jesenice area
2. Providing integrated VR+AR experience on web app and VR glasses



DAFFODIL CONSERVATION PROGRAMME IN JESENICE - since 2017

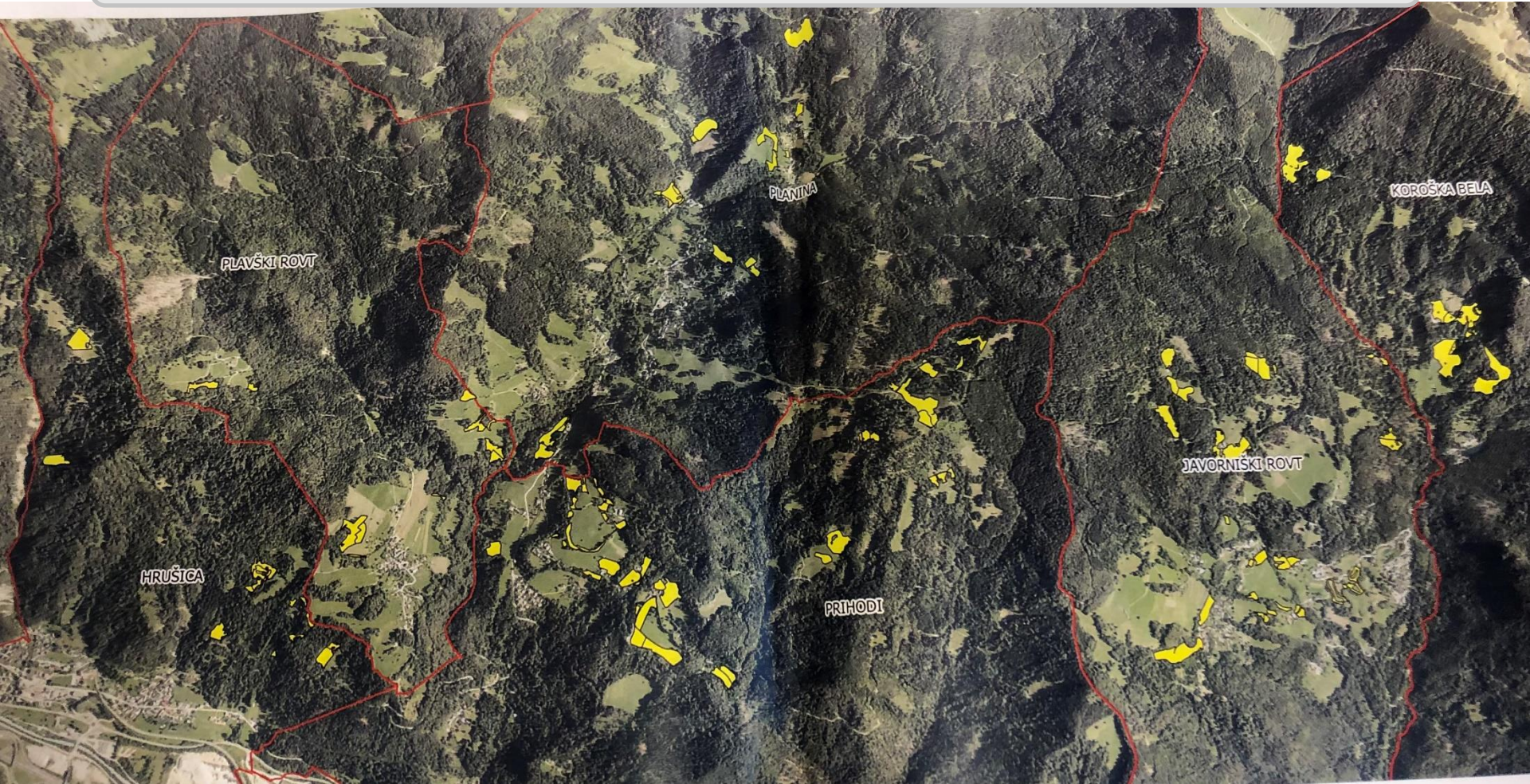
- ❖ Guidelines for appropriate agricultural management
- ❖ Contracts with the landowners
- ❖ Conditions for maintaining the land: mowing, grazing...

UPGRADE OF DAFFODIL CONSERVATION PROGRAMME



1. Monitoring of landowners included in Daffodil Conservation Programme
2. Monitoring of daffodil plots
3. Daffodil seed collection and sowing project
4. Pilot mowing of steep meadows
5. Empowerment of biodiversity among residents and visitors
6. Involvement of new landowners/areas
7. VR based communication tool - web app and VR glasses

2024: 36 contracts with landowners/farmers, 40,52 ha included





1./2. MONITORING OF FARMERS LAND AND DAFFODIL PLOTS

Inspection of the farmers

Evaluation of the agricultural areas:

- ❖ Checking cultivation units by altitude at least once a year
- ❖ Size of the mowed area
- ❖ Time of the mowing (premature mowing)
- ❖ A different processing method from the one declared in the contract
- ❖ Ineligible area included in the scheme



A report of farmers land monitoring in 2024

- ❖ 49 discrepancies were found for 18 owners
- ❖ the cultivated area or part of it has not been mown (182.0 a),
- ❖ premature mowing (47.4 a),
- ❖ less demanding cultivation method than declared (20,6 a),
- ❖ ineligible area - overgrown/no daffodils (15,5 a)
- ❖ incomplete cultivation - grass cuttings not harvested (6,8 a)



Monitoring of daffodil plots

- ❖ Counting number of daffodil flowers - early June
- ❖ 10 plots of land (with and without cultivation), circle of 2m diameter, + climatological data (average temperature and rainfall)
- ❖ % of daffodils in flower / % of daffodils have already flowered
- ❖ 2024: 40% daffodils less than last year
- ❖ Possible reasons: snow and frost conditions in late spring





3. DAFFODIL SEED COLLECTION AND SOWING PROJECT

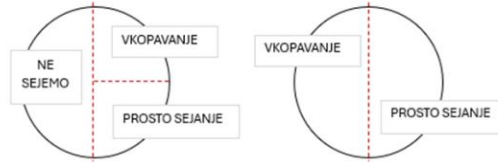
Collecting seeds of daffodil

- ❖ Guidelines on seed collections prepared by Institute of RS for Nature Conservation (IRSNC) - May 2024
- ❖ Collecting the seeds in June 2024
- ❖ 0,5 l of seeds collected on 7 meadows
- ❖ Drying the seeds in the dark and airy space - 3 weeks
- ❖ Agreement with IRSNC about the sustainability of the measure until 2029



Sowing the collected seeds

- ❖ Three fields established to test the success of daffodil planting (also in the future)
- ❖ Division of test field
- ❖ Sowing implementation
- ❖ Instructions for monitoring the condition of test plots
- ❖ Monitoring of the growth performance until 2029 - sustainability





4. PILOT MOWING OF STEEP MEADOWS

Mowing of steep meadows

- ❖ Mowing presentation of steep meadow to farmers - 7 July 2024
- ❖ 4 farmers selected for mowing of their steep meadows
- ❖ Farmer's experience
- ❖ Solutions for the future implementation





Mi varujemo to cvetje,
v naši vasi je doma,
kar narava nam je dala,
roka naj ne pokonča!

5. EMPOWERMENT EVENTS OF BIODIVERSITY AMONG RESIDENTS/VISITORS

Event for visitors at the time of daffodil flowering

- ❖ Organization of a hiking trip among daffodils, Saturday, 11 May 2024, 30 participants
- ❖ Shared information about the area, people, history,
- ❖ Raising awareness about biodiversity of the meadows and proper behaviour in the nature - presented by botanist from The Slovenian Museum of Natural History



Brezplačen voden izlet **POT MED NARCISAMI**

sobota, 11. maj 2024

Zbor: ob 9. uri, parkirišče SKB banke Jesenice

Organizator: Razvojnna agencija Zgornje Gorenjske

Strokovno vodenje: Maja Simeonov Nedeljkov (turistična vodnica) in

Špela Pungaršek (Prirodoslovni muzej Slovenije)

Kontakt in prijava: Jelka Popović Gužvič,

jelka.popovic@ragor.si, 04 581 34 03

OPOMBE:

- Če se ne udeležite, vas prosimo, da nam sporočite, da ne boste prišli, najkasneje 7 dni pred izletom, da lahko pripravimo ustrezno opremo.
- Če izlet ne bo mogoč, vas bomo obvestili s 24 urami pred izletom.
- Izlet je namenjen vsem, ki so zainteresirani za naravo in zgodovino kraja.
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Workshop for landowners

- ❖ Sunday, 7 July 2024, 50 people (10 farmers)
- ❖ Programme:
 - workshop about the richness of biodiversity in meadows of Karavanke prepared by IRSNC
 - demonstration of mowing with a remote- controlled mower, lecture on the richness of biodiversity



Presentation of VR+AR experience about daffodils

- ❖ Promotional event for local stakeholders, residents, landowners and other interested general public
- ❖ Presentation of the VR web app and test of the VR glasses
- ❖ Exchange of views on the virtual glasses experience
- ❖ Implemented on 19 February 2025

Cvetoče narcise kadarkoli?

SREDA,
19. 2. 2025,
ob 17. uri

- predstavitev aplikacije
- preizkus virtualnih očal
- druženje + pogostitev

Dvorana KS,
Planina pod
Golico 31



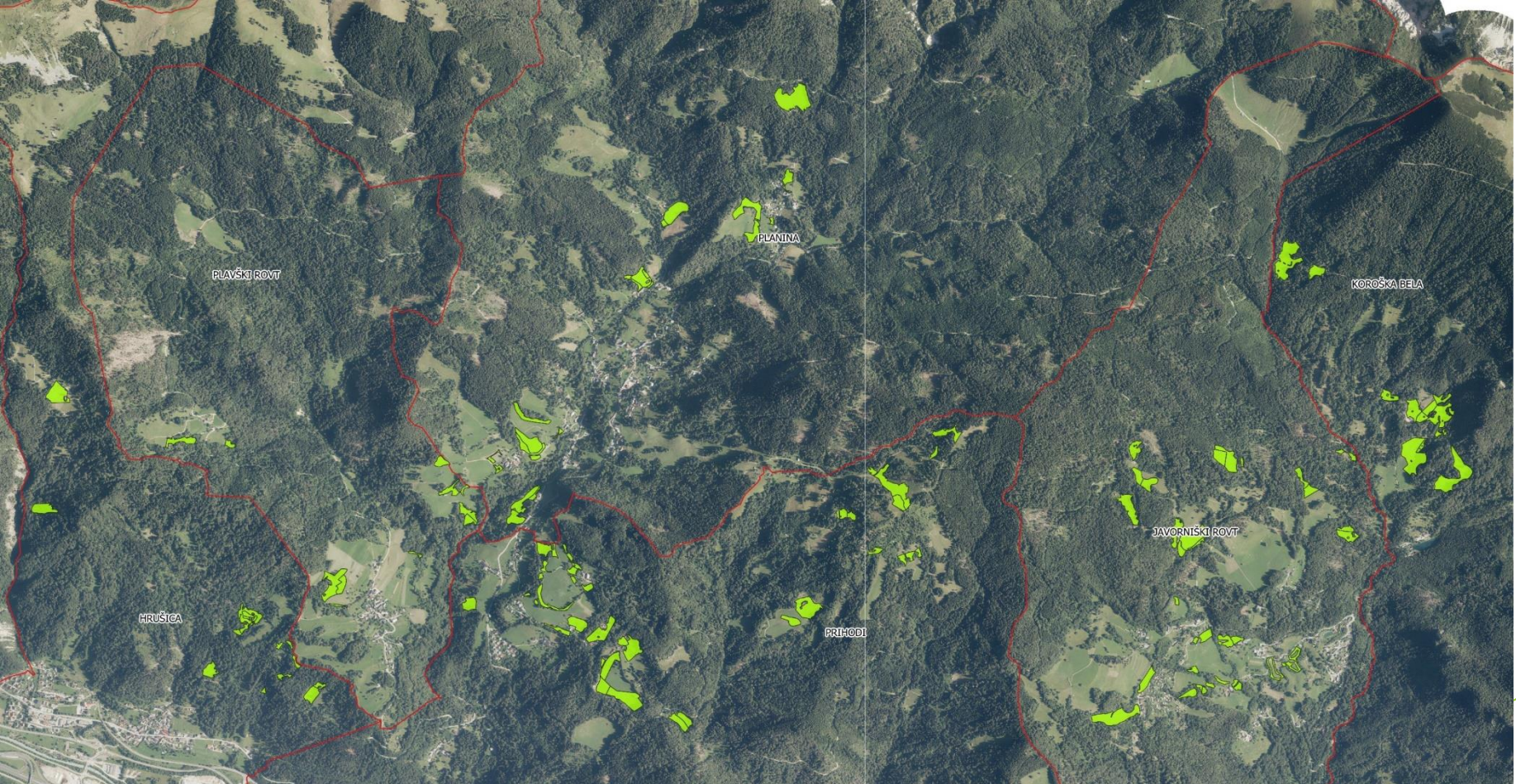
VEČ INFORMACIJ IN PRIJAVA:

Veronika Perko, RAGOR
04 58 13 417
veronika.perko@ragor.si



6. INVOLVEMENT OF NEW LANDOWNERS

2025: 38 Contracts with landowners/farmers; 42,63 ha included



VIRTUAL REALITY

Presentation

24Slides



7. VR+AR EXPERIENCE ABOUT DAFFODILS

The main purpose

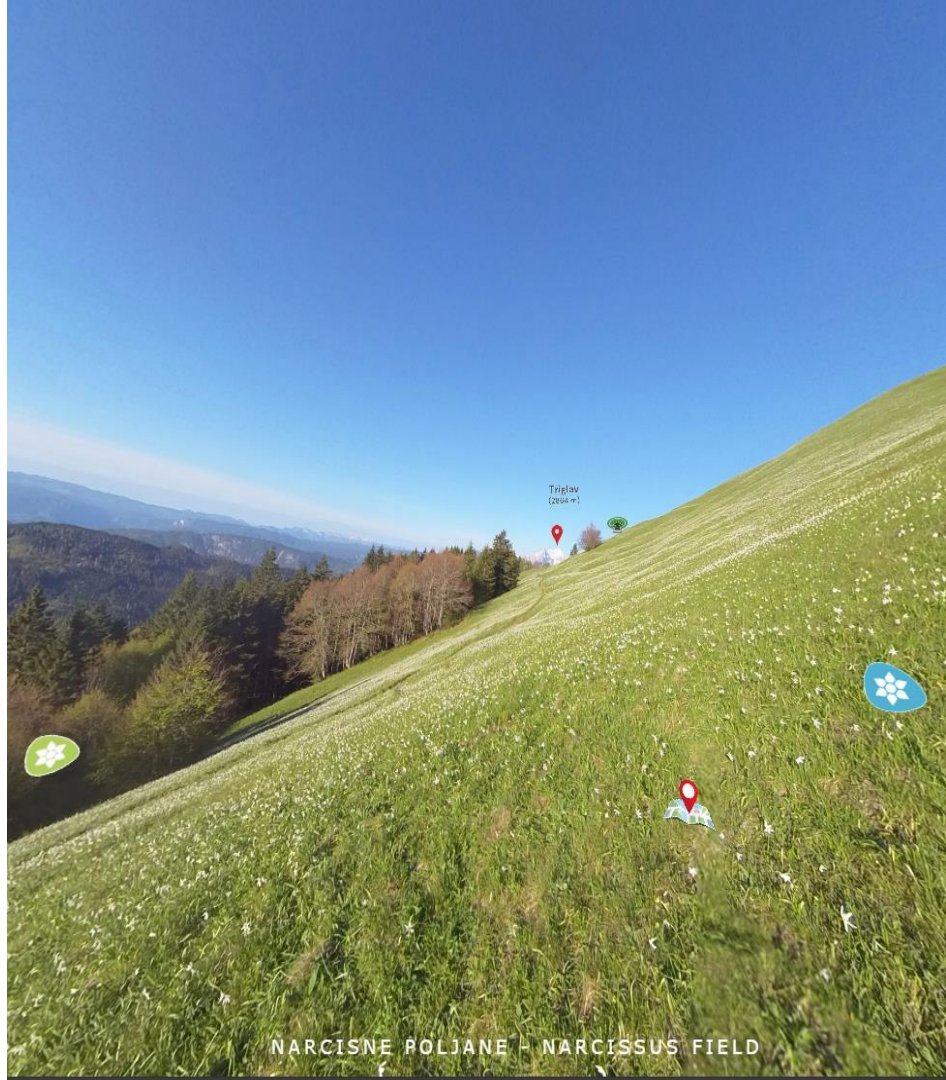
- ❖ Increase accessibility - visible all year long
- ❖ Raise visitor awareness: The natural habitat of the daffodil and people's efforts to preserve it
- ❖ Present other rich biodiversity of the area
- ❖ Inform the visitors how to behave in nature



VR+AR concept

- ❖ Based on 360-degree images of the meadows and daffodils flowering
- ❖ Information points: photos, texts, maps
- ❖ Access: via web app, QR codes on the spot by visitors' devices. VR glasses in TIC Jesenice for more immersive experience: a story that guides the visitor through different locations

<https://bsc-narcise.dev.izstop.si/>



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Thank you for your attention



BSC Kranj, Mateja Korošec



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