



1.

We call for a concentrated effort to hack solutions to improve bison rewilding and evolve wildlife monitoring tools, focusing on human wildlife conflict mitigation as key lever for improved connectivity of wild areas.

2.

Join the Bison Hillock team and bison rewilding work in the Southern Carpathians in an interactive workshop to scale innovation in nature conservation at grassroots level, in a unique wilderness area - the largest in Europe.

3.

Create a network of experts in multiple disciplines to work for nature. Creative approaches, linkaging scientific research, community development, education, designerly practices and digital technologies can be the positive disruption to help people and nature thrive.

Where do we start?

At the heart of an abitious wilderness conservation initiative:

in the Bison Hillock, where European bison are roaming freely once again after 200 years of absence; The hillock is located in a priority conservation area where WWF is working for wildlife comeback to fuel a new development model; it's the place where many tribes, communities, domains start working together to achieve a greater impact for people and nature.



THE BISON HILLOCK

Located in the Țarcu Mountains, this is the second bison rewilding site in Romania, building on pioneer work done by Vanatori Neaamt Natural Park in the North-Eastern Carpathians.

WWF and Rewilding Europe are working together to create a stable free-roaming population in the Southern Carpathians.

Currently the European bison is a vulnerable species, counting a total of 5.000 individuals, of which 1.600 are living in the wild. Bison bonasus Lowland-Caucasian line is classified as endangered on the IUCN Red List.

The Bison Hillock sits within a valley of outstanding natural beauty located in a spectacular 59,000 hectare Natura 2000 area.



The Tarcu Mountains are located in The Southern Carpathians, a mountain chain covering over 1.4 million ha, one of Europe's most valuable areas for maintaining and extending wilderness. It is almost entirely covered by an extensive network of protected areas of different IUCN categories and Natura 2000 sites, having large areas of relatively intact landscapes.

The Tarcu Mountains are interconnected with 5 national and natural parks, together forming one of Europe's last wilderness strongholds. There are few truly wild areas remaining in our highly developed continent, yet they represent an invaluable part of Europe's natural heritage. Covering a large variety of landscapes and habitats, these areas are sometimes the last refuge for some of Europe's flagship species and most representative landscapes.

In addition to their intrinsic spiritual and landscape qualities, and their important contribution to biodiversity conservation, such areas can offer significant economic, social, cultural and environmental benefits to local communities, landholders and society in general.

Our vision

Digital technologies and the Internet of things have fundamentally changed the ways in which knowledge is aquired and reconstituited the relationship between information and action. Working in and for nature requires adaptation to this new status quo and for naturalists to extend their activities into spacial, infrastructural, social and political aspects as well as technological innovation. The growing complexities of working to address nature conservation challenges creates the need to come together in new ways and get new tribes to work for nature.



Themes to hack

We seek your wisdom and new perspectives to design and develop technology enabled solutions to some of the most pressing wilderness conservation challenges

- determinating favourability of habitat, seasonal
 migrations of bison, feeding and rest areas and
 design strategies to engage locals to mitigate HWC –
 deploying best practice (trained dogs including further
 training, support in cleaning and managing orchards).
- correlating earth observations data with field monitoring data including direct observation, drone, camera trap and sensorial data to better understand vulnerabilities that favour Human Wildlife Conflict.
- innovating with monitoring technologies and methodologies, seeking the most innovative sensor or GPS tracking systems and adapt these new technologies to conservation challenges.

The agenda

1-3 Dec Armeniș Explore the wild

Bison Hillock field recce - optional, by appointment

7-10 Dec Bucharest Understanding the challenge, team formation - day 1 (pm)

Ideation - day 2

Prototyping - day 3

Validation and next steps - day 4 (am)

@ Modulab / Future Gardens

16-18 Dec Armeniș Explore the wild

Bison Hillock field recce - optional, by appointment

Jan 2018

Community consultations

Field testing and upgrades

Prototypes iterations

Field testing and scaling plan

Join a filed recce





We invite you to choose one of two trips into the wild, exploring the bison rewilding area and nature conservation at its grassroots. You will be guided by naturalists, facilitated by locals.

a. 1-3 December

b. 16-18 December

Wildlife tracking, wilderness guided walks, time spent in a rural community are the ingredients which will help us reconnect with nature and dive into our mission.

Please get in touch (<u>click to email</u>), if you are available.



Innovative steps around the world









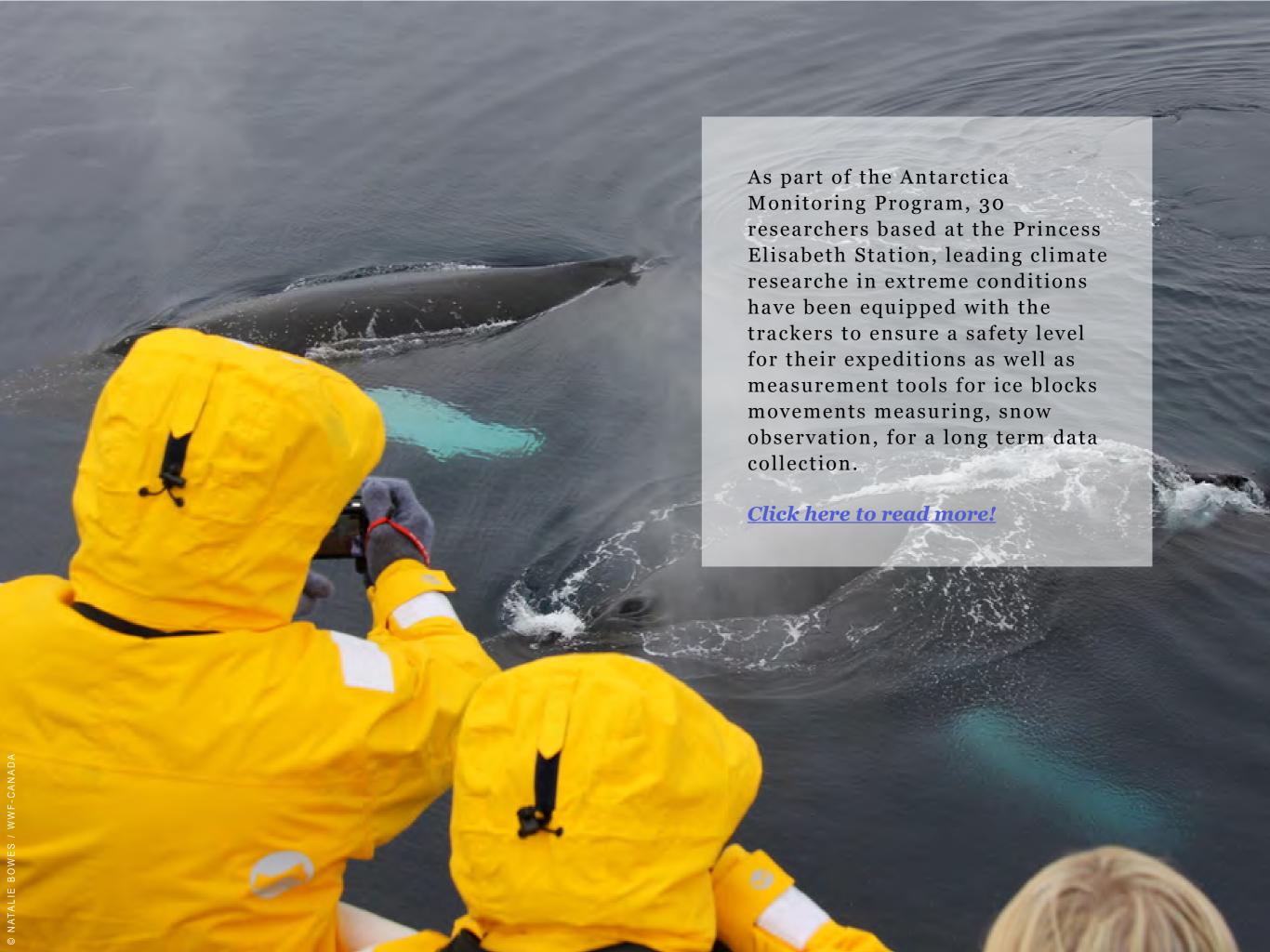














Bison rewilding challenges

Sustainable development of wild natural areas are threatned by human wildlife conflict, so it is imperative that conflict is dealt with swiftly and that locals feel that they are involved in the process and are not being ignored.

We strive to resolve their pressure points and conflict areas with wildlife now, in the same pace as we evolve this pioneering bison rewilding approach and ecotourism developments.

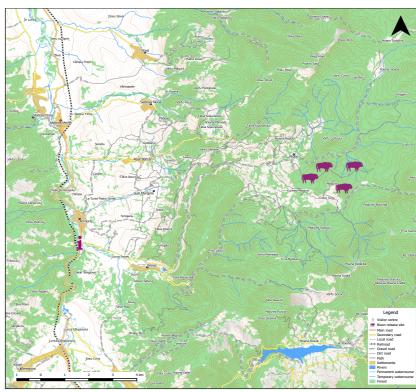
In the case of bison the cold season is the most problematic, some of our bison are lurking around quite close to the local villages and feeding on haystacks and the bark of fruit trees in traditional orchards located on farms or pastures. In the past two winters we have had a few bison coming down for the entire season to the main villages. This is explained by the cold temperatures, rain, snow, food availability and also the personal history of the bison. We have been building solar powered electric fences around those properties up in the mountains. Villagers still work the land of their summer huts.

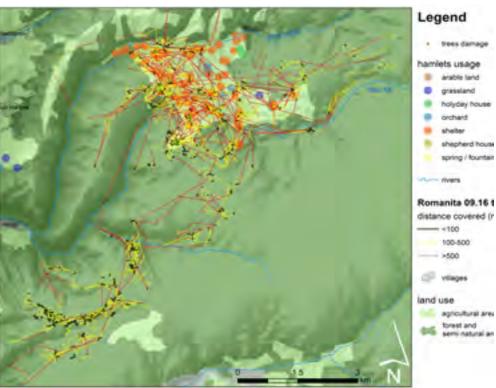
Tools and insights in our hacking lab

People: biologists, ecologists, locals, rangers, protected area managers, engineers, programmers, GIS experts, makers, thinkers, doers

Data: bison habitat use, climate, GPS collar and wildlife presence data

Gadgets: computers, micro electronics, sensors, cables, tools to put them together, 3D printers, laser cutters, paper, pens and more.







An innovative interchange between contemporary ingenuity, technology and basic conservation challenges, involving local people will provide a transferable model to positively impact many other conservation will continue on species such as the wolf, bear or lynx and share results across the WWF network in over 100 countries.

We develop evidence-based, practical solutions that benefit both nature and society. We test and refine the proposed prototypes. We invest in scaling the ideas, with a potential €30,000 seed funding available for hotspots nationally. Our work the next stage of our hacks and give birth to new naturetech startups.

3.

Slow down the divide between people and wildlife by helping its gatekeepers overcome short-term conflicts. The communities neighbouring or living in protected areas or rewilding areas such as the Bison Hillock will choose to maintain and evolve good practices benefiting wild nature.

