

Shaping the Future with Green Roads

Animal Vehicles collision (AVC) Hotspots determination



Open event (December 7, 2023): Shaping the Future with Green Roads



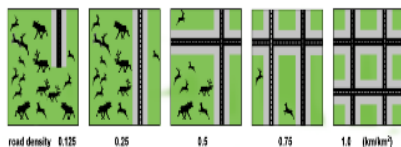
/ 01 Major impacts on biodiversity and ecosystems services

Road Mortality
(Animal vehicle
collision)



- / Leading Cause of Wildlife Deaths
- / Loss of Biodiversity - increase species extinction risk
- / Risk to Road Safety

Habitat
Fragmentation



- / One of the main causes of Biodiversity loss
- / Impairment of ecosystem services
- / Wildlife Populations decline and habitat destruction


Invasive species
Dispersion
Vector



- / Roads and roadsides act as pathways to dispersion
- / One of the greatest threats to Biodiversity Loss


Shaping the Future with Green Roads

Information Gathering, Systematic Monitoring




AVC monitoring

Data Analysis Statistics inference and geographic modeling



Mortality hotspots

Biodiversity conservation



Mitigation measures



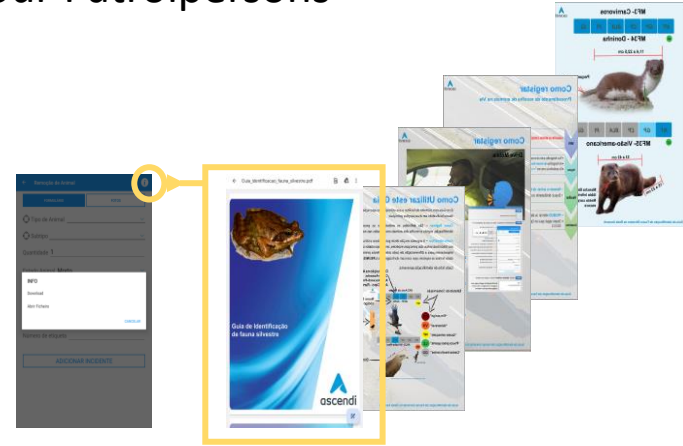
Shaping the Future with Green Roads

/ 03 INFORMATION GATHERING, SYSTEMATIC MONITORING



← **Continuous Training** of our Patrolpersons

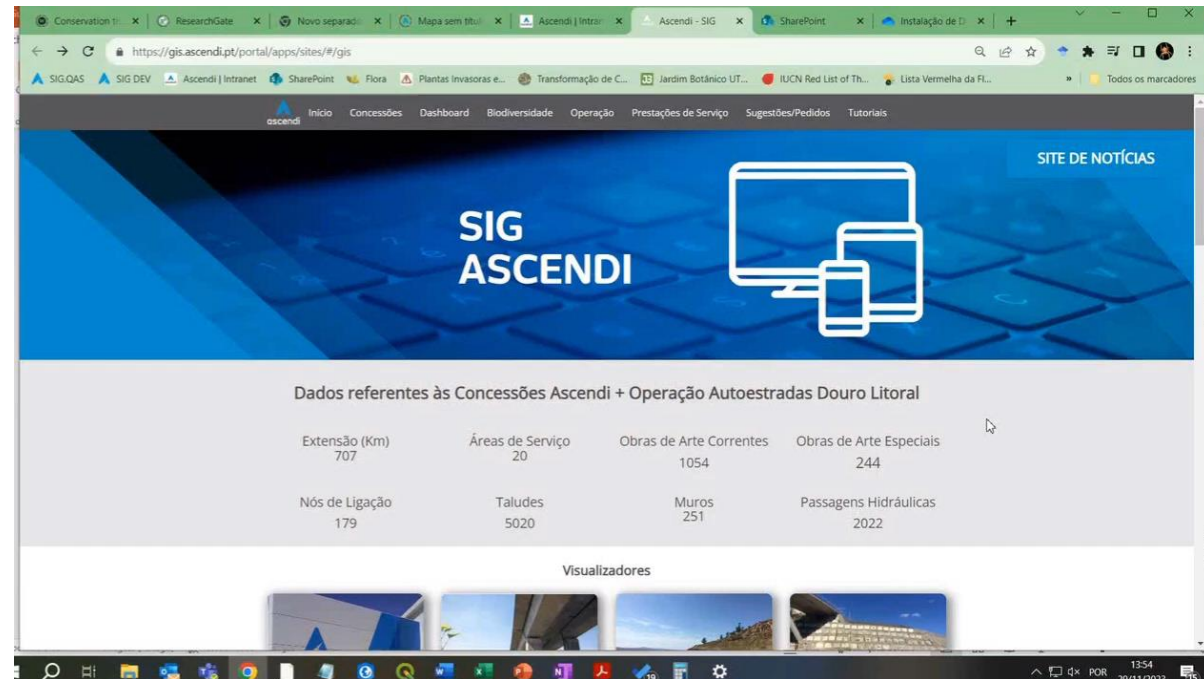
Tools for the Job- Mobile app and Identification Guide →



- ✓ Data collection in the field
- ✓ Carcase removal
- ✓ Upload to the Ascendi Server and Data Base

Shaping the Future with Green Roads

- ✓ Centralized Data Based (Ascendi SIG);
- ✓ Real Time access to the AVC record, (Selection by animal type, Concession, Date, etc)
- ✓ AVC Hotspots determine using KDE+ method, according with (Bíl et al. (2013))



Shaping the Future with Green Roads

1. Stork nests translocations;
2. Light deflectors for “OWLS”
3. Awareness campaigns against domestic animals' abandonment
4. Reinforced fencing for deer's and wildboar, with escape ramps

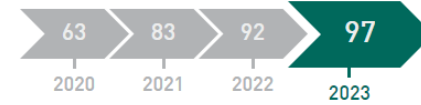


1. Environmental, social and governance factors are at the centre of our strategy and our commitment with biodiversity is well showed in GRESB assessment.

For managers - GRESB



Participation & Score



Performance Score
1st out of 683

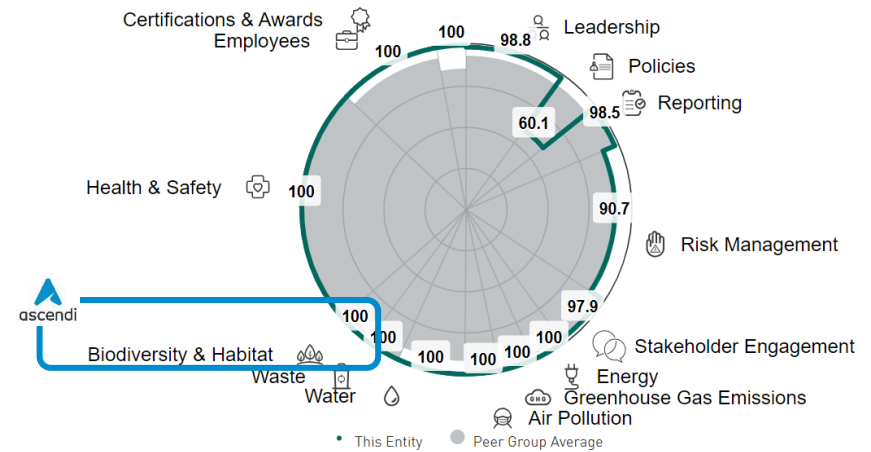
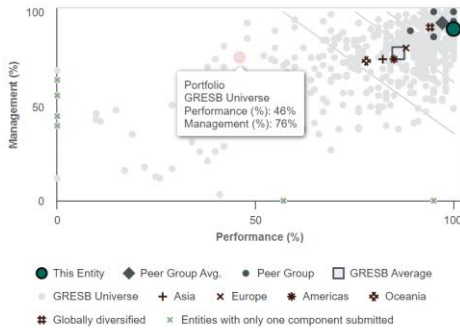


GRESB Score within Private
61st Out of 530



Performance Score within Transport: Road Companies
1st Out of 64

GRESB Model



Shaping the Future with Green Roads

Thank you

For more information, contact Pedro Moreira at pmoreira@ascendi.pt

