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Live ANDES
(Advanced Network for the Distribution of Endangered Species)

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www.liveandes.org

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Overview

1. Who are we?
2. Why we need LiveANDES?
3. LiveANDES description
4. Mobile/Web application
5. Work done and current progress
6. Study case
7. Next Steps / Challenges
Our aim is to study wildlife species to suggest conservation actions.

We use all sorts of techniques in the field and monitoring wildlife need new technologies and ICT.
Observing endangered species is not always possible:

One single sighting may provide key information

Citizens learn about wildlife and gather data for research and management

Scientists access to more data for analyses and can share results with policy makers

Officials and policy makers can manage their data, share it among them and have feedbacks with the scientific community & citizens
Live ANDES (Advanced Network for Distributions of Endangered Species)

The aim of Live ANDES is to develop a software platform to:

- Detecting, uploading and sharing photos from endangered species into LiveANDES is an innovative way to contribute to biodiversity conservation by promoting citizen science.

- The value of data sharing for wildlife locations mainly refers to the need of mapping the presence and distribution of endangered species to assess their conservation status according to international standards (IUCN Red list).
Multi-language web platform to upload, share and visualize data from more than 820 living species of chilean terrestrial wildlife (by common name, english and scientific name)

- Search, visualize and download records from database
- Mobile/Web application
- Extensive data uploading from remote areas during fieldwork
Live ANDES (Advanced Network for Distributions of Endangered Species)

Mobile Application

Mobile application to explore/upload data from the camera, gallery and GPS

- Online/Offline mode
- Images of species and locations can be uploaded using the camera and GPS
- The closest sightings can be explored by GPS locations
- Our application is developed using C# Visual Studio 2010

UPLOAD – EXPLORE SIGHTINGS
Live ANDES (Advanced Network for Distributions of Endangered Species)

Testing in the field

January/February 2012
Live ANDES (Advanced Network for Distributions of Endangered Species)
Work done and current progress

Semester II, 2011

- Software design development.
- Mobile application design development.
- Meetings with governmental institutions.
- Two new LACCIR proposals.
The web solution of the platform is based on Microsoft .NET technologies and it includes features such as ...

- ASP.NET MVC
- Bing Map Services
- Silverlight Pivot Viewer
- WCF Services
- SQL Server 2008
- Entity Framework
- LINQ
Live ANDES: Future Direction ...

**Mobile Cloud Shared Space (MCSS)**
Study Case: Huemul (Hippocamelus bisulcus)
Currently, Live Andes is available with all terrestrial vertebrates of Chile and a searchable database by ecological, administrative and protected areas can be displayed for the whole country.

Future steps includes to add Bolivian and North American libraries and regions for data sharing and mapping.
Future Steps

- Partnership with Chilean Ministry of Environment
- National portals in other Latin America countries and a network with conservation programs
- Institutional portals: group statistics, data sharing controls, access to additional data
- Testing mobile application and testing loading data in partner countries.
- Citizen science: Wildlife conservation conferences, workshops in partners countries.
Citizen Science
Live ANDES Team

**Principal investigator**
Dr. Cristian Bonacic

**Co-investigators**
Rurik List (Mexico)
Luis Pacheco (Bolivia)
Andrés Neyem (Chile)
Renzo Angles (Chile)

**Project Coordinator**
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**Software Development Coach**
Ignacio Bastías

**Current Developers**
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LiveANDES

video