



PLATYPUS s.r.l.
Studio Naturalistico

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PRESENTATION OF THE ACTIVITIES AND CURRICULUM VITAE OF THE COMPANY

Name: **Platypus srl**

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Web site: www.platypus.it

Type of Company: Limited Liability Company

Year of establishment: 1994

Company purposes : Service supply for Planning, Implementation and Management of infrastructures and initiatives addressed to the valorisation and protection of the Natural Resources.

Main issues proffered: **Museography and Wildlife Management**

Partners / Administrators: **Mr Oreste Sacchi** (Chief Administrator)

Laurea degree in Natural Science, expert in the field of mammology, wildlife management and museography

Mr Ugo Ziliani (President)

Laurea degree in Natural Science, expert in the field of herpetology and museography

Collaborators: **Ms Elisabetta Del Zoppo** Communicator and Graphic design

Mr Salvatore Restivo Laurea degree in Natural Science, expert in the field of Applied Ecology and museography

Museography and restoration

As today, in Italy like in many other countries, museums are oriented in promoting and supporting researches and educational activities concerning with ecological issues. The exhibition of the specimens become more detailed and efficient, being directed towards interactive relationships with the visitors.

Platypus offers innovative techniques and precision in the realisation of **displays, relief models, dioramas and 3D models**. Natural environments defined by the ecological interaction of animals, plants, rocks are reproduced in detail. The correct representation of behavioural, anatomical and physiological aspects are considered with particular care and likelihood.

Highly professional performances are focused in creating interactive structures. Our dioramas reproduce a detailed documentation of the different natural environments, allowing the visitor to appreciate the complexity of the entire ecosystem reproduced.

Platypus is also proficient in the restoration and care services for historical collections of zoological specimens.

Wildlife management and conservation

Platypus, in collaboration with public administrations, parks board, universities, is involved in several projects on wildlife management and nature conservation.

The evaluation of the environmental capabilities is an significant support in any projects oriented toward reintroduction feasibility, carrying capacity, species conservation and improvement of the habitat quality.

The quantitative and qualitative occurrence of each species, population dynamic, geographical distribution are determined with accuracy and precision. The use and application of GIS is fundamental.

In the design of Decision Support Systems the systemic approach adopted, allows the analysis of environmental ,socio-economic, and governance factors together.

The environment is studied in all its aspects (geological, botanical, zoological, anthropological). Both the biotic and a-biotic components are studied collecting data in the field and analysing them by using the Geographical Information System

Teaching Qualification at University Level

University of Pavia has signed an agreement with Platypus S.r.l. for the effecting of didactical stages and professional oriented stages addressed to the students of university degree courses, master of first and second level, specialization schools of higher degree, PhD. (Conv. Quadro n° 1982 del 23/4/04).

Project Work in Scientific Issues 2008 - “Analyses of the data on the animal components (reptiles, birds, invetebrates) and pastoral activities of Socotra Island (Yemen)”.

Master I° Level in Environmental and Wildlife Management and Conservation – 2006 - “Factors affecting the abundance of the wild boar *Sus scrofa* in ten areas of Temporary Catch and Release Zones in Cagliari Province (Sardinia, Italy).”

Master I° Level in Environmental and Wildlife Management and Conservation – 2004 - “Formulation of predictive models for the presence/absence of some species of *Strigiformes*”

Master I° Level in Environmental and Wildlife Management and Conservation – 2004 - “Definition of the habitat-population relationships of Barbary partridge, Mediterranean hare and European rabbit in order to formulate models of habitat suitability”.

Master I° Level in Environmental and Wildlife Management and Conservation – 2004 - “Habitat analyses for the definition of landscape units in relation to their naturalness value of a peri-urban area of Milan Province”

Master I° Level in Environmental and Wildlife Management and Conservation – 2003 - “Monitoring the population of Barbary partridge in two areas of Sardinia Island”

Master I° Level in Environmental and Wildlife Management and Conservation – 2003 - “Population density of Barbary partridge in relation to the habitat characteristics of Sardinia.

University of Sassari has signed an agreement with Platypus S.r.l. for the effecting of didactical stages and professional oriented stages addressed to the students of master of first and second level, PhD. (Conv. Quadro n° 30140 del 9/10/06).

PhD in Animal Biology group XIX. – 2004/2006 - “Modelling the relationship habitat population for the management of Sardinia wildlife”

PhD in Animal Biology group XIX. – 2004/2006 - “Aspects of the population dynamic of Barbary partridge”

Master I° Level in Environmental and Wildlife Management and Conservation - 2006 “Use of the habitat of Barbary partridge in a Temporary Catch and Release Zones in Nuoro Province”

CUSTOMERS AND EXPERIENCES

MUSEOGRAPHY AND RESTORATION OF COLLECTIONS

- In corso **ERSAF –Alto Garda Regional Park (BS)**. Set-up of some exhibits for the Visitor Center. Realization of 2 dioramas on the Park environments (beech forest and dolomite cliffs), a sensorial panel with "touchable" models (truncks, antlers, fur, models of traces and feaces), panel with 1: 1 scale fish models.
- In corso **Associazione Isoetes**. Supply of 1:1 scale wildlife models and taxidermised specimens.
- 2019-20 **Italian and Egyptian Cooperation, UNDP Project, Cairo**. Setting up of 2 Visitor Centers: the "Wadi el Gemal National Park" and the "Ababda nomadic tribe". Reconstruction of 3D models of Delfino, Green turtle and Ibex of Nubia. Reconstruction of a temporary Ababda hut. Model of the Wadi el Gemal Park in scale 1: 5.000..
- 2019 **Gabriel Rapetti**. Faunistic consultancy for the creation of interactive naturalistic games.
- 2019 **Adamello Lombardo Regional Park (GE)**. Remake of the didactic graphics for the Visitor Center in Vezza d'Oglio
- 2019 **Aveto Regional Park**. Realization of a squirrel nest model.
- 2019 **Natural History Museum of Pavia**. Realization of 3 dioramas on the environments: Burmese rainforest, Somali and Ethiopian desert, articulated display on the Himalayan environments. Reconstruction of 3D elements such as a termite mound, rocks and artificial plants.
- 2018-19 **Natural History Museum of Voghera**. Realization of 10 articulated displays with 3D elements (minerals, taxidermic samples and models), remaking of the wolf's diorama..
- 2018 **Natural History Museum of Trieste**. Realization of two rooms of the Museum: reconstruction of a karst cave to cover the entire room, with the creation of the different types of calcareous concretions. Insect room, reconstruction of rooms in 1:20 scale for the exposure of enlarged scale model of insects. Reconstruction of 1:20 scale flowers of Fritillaria, Crocus reticulatus and Asteraceae.
- 2018 **Natural History Museum of Pavia**. Realization of 6 didactic panels on the vertebrate integument. Reconstruction of resin models of the different types of integument (fish, amphibians and reptiles), real hair and horns, horn models.
- 2017 - 19 **IPA 2013 NATURA 2000 Project, Tirana - Albania**. Design and realization of 3 Visitor Centers (Divjaka National Park, Llogora National Park and Dajti National Park) with the construction of 4 interactive naturalized relief models, 76 educational panels, 9 mammal models in 1: 1 scale, a multimedia system for recognizing the sounds of waterfowl (game), a special outdoor exhibits (the path of the tracks, the ornithological didactic observatory with 10 models of birds on a 1: 1 scale and the educational hive).
- 2018 **Natural History Museum of Trieste**. Reconstruction of a karst cave on a scale of 1: 1, the exhibit entirely covers a room in the Museum.
- 2018 **Natural History Museum of Voghera**. Design and realization of 10 didactical panels, geological history of the OltrePo territory, le fidifferent environment.

- 2018 **Natural History Museum of Pavia, University Museal System.** Design and realization of 6 didactical panels, the skin of the Vertebrate, fish, amphibians, reptiles, birds and mammals.
- 2017 **Municipality of Castelluccio Valmaggiore (FG).** Realization of a naturalized relief models, and didactic supports for blind people.
- 2017 **University of Pavia, University History Museum.** Restoration of 67 anatomical specimens of historical Rezia-Scarpa-Porta Collections (1772).
- 2017 **University of Pavia, Sistema museale d'Ateneo.** Restoration of an African elephant specimen of the University historical Collection, acquired in 1887.
- 2015/17 **Natural History Museum of Milan.** Planning and realization of 6 dioramas of large dimensions (height 6,5 meters) on African and Asian tropical forests. Accurate scientific reproduction of more than 50 plants (trees and herbal species).
- 2016 **Adamello Lombardo Regional Park.** Planning and realization of a diorama with photographic background, reconstruction of an anthill.
- 2016 **IUCN Berna.** Planning and realization of two Visitor Centre for Shebenik-Jabllanice N. P. and Buna River P.L.: a large naturalized relief model of the Park core area (scale 1:500), 36 didactic panels, large scenography with realistic animal models at scale 1:1.
- 2016 **University of Pavia, University History Museum.** Restoration of 100 anatomical specimens of historical Rezia-Scarpa-Porta Collections (1772).
- 2016 **Teatro La Scala of Milan.** Realization of 6 costumes to wear, reproducing 4 Lions, 1 Bear and 1 Cassowary, for the opera The Magic Flute.
- 2016 **Centro Studi Naturalistici "Il Nibbio".** Planning and realization of 5 didactic panel with tridimensional element.
- 2015 **University of Pavia, Sistema museale d'Ateneo.** Restoration of a zoological specimen of the University historical Collection. The specimen is an Indian elephant donated to the Museum in 1812.
- 2015 **Punta Campanella Marine Protected Area (NA).** Realization of a diorama on the underwater cliff, accurate reconstruction of limestone and organogenic rock, 18 marine organisms and 10 fishes models.
- 2015 **Stelvio National Park.** Exhibits of the Visitor Centre of Bormio (SO). Realization of a diorama on the mountain freshwater pond. Reproduction of Amphibian models (*Rana temporaria* e *Triturus alpestris*) and their eggs.
- 2015 **Space Spa.** Exhibits of the Biodiversity Museum of Monticiano (SI). Realization of a diorama on the rotten Downy trunk with reproduction of mosses and lichens, and traces of wood-eating insects models. Construction of 5 sections of different soils (forest, shrub, intensive cultivation, traditional cultivation, desert).
- 2015 **Gravina in Puglia Municipality (BA).** Planning and Realization of SCI Visitor Centre exhibits: 5 dioramas on the Park environment, a large naturalized relief model of the Park core area (scale 1:300).
- 2014 **Porto Conte Regional Park (SS).** Planning and Realization of Natural Park's exhibits: large naturalized relief model of the Natural Park at scale 1:2.500. Background of the relief model realized through a perspective photographic solution. Tablet stations for observing environmental and faunistic videos.

- 2014 **Aveto Regional Park (GE).** Planning and Realization of Natural Park's exhibits: 3 naturalized relief models of the Gambatesa Mine at scale 1:50. Details on mineralogical stratas and mining activities.
- 2013 **Majella National Park.** Planning and Realization of Visitor Centres: 3 exhibit rooms on bird species, realization of dioramas (nests of the wood and nests on the cliffs), 18 didactic panels on birds evolution, ecology and systematics, multimedia theatre on nocturnal birds of prey, aimed at their identification through the listening of the calls.
- 2013 **TM&B di Valter Fogato.** Planning of Visitor Centre of Paneveggio, Natural Park of Paneveggio and Pale di S. Martino.
- 2013 **Aveto Regional Park (GE).** Realization of Forest Museum exhibits: models in natural scale of animals footprints, vertebrates faeces (wolf, fox, roe, hare, badger, marten, boar) and owl pellets.
- 2012 **Milano Province – Parco Agricolo Sud Milano.** Planning and realization of a naturalized relief model on The Abbey of Chiaravalle in scale 1:500. Replica of the Gothic Abbey and its water-meadow system. The aim of the water-meadow irrigation system is not to flood the ground, but to keep it continuously damp – there is no standing water. The reproduction in scale of this system is controlled by switches opening the water flow in the meadows and in the channels.
- 2012 **Orobie Valtellinesi Natural Park (SO).** Planning and Realization of Park Visitor Centres exhibits: 4 dioramas on the Park's environment, multimedia system for the management of the audio and videos, and spot lights . Remote control system to project informative video tapes.
- 2012 **Albaredo per San Marco Municipality (SO).** Planning and Realization of Park Visitor Centre exhibits: 4 dioramas on the Park's environment, reproduction of fauna plant models.
- 2012 **Aveto Regional Park (GE).** Planning and Realization of Forest Museum exhibits: an outdoor itinerary realized in the forest where along a trail, the visitor encounters 15 information points defined by models in natural scale of animals footprints, faeces and owl pellets, reconstruction of wolf and badger's burrow, model of a log with nests of black woodpecker, marten burrows and timber insects.
- 2012 **Mont Avic Regional Park (AO).** Management of the Covary Visitor Centre 2012-2014. Temporary Association of Companies with Equipe Arc en Ciel (AO).
- 2011 **Asinara Island National Park (Sardinia Region- Italy).** Planning and Realization of Park Visitor Centres exhibits: naturalized relief model of the Park, reconstruction of emerging territories with different environmental typologies, reconstruction of marine bottoms with the distribution of Poseidonia colonies.
- 2011 **Baragge Bessa Brich Park (Biella - Italy).** Castellengo Visitor Centre: realization of 2 showcase dioramas on bee-eater and badger.
- 2011 **La Fabbrica srl – Milano.** “No smoking be happy”, outdoor exhibition for a campaign launched by Fondazione Umberto Veronesi to fight carcinogenic sources, displayed in Milano e Ravenna.
- 2011 **Sardinia Region- Italy.** Planning and realization of 39 models in 3D of Cetacean and Turtles in variable scales, including bi dimensional graphical solution to show anatomical characteristics.
- 2010/11 **Baragge Bessa Brich Park (Biella - Italy).** Planning and Realization of Park Visitor Centres exhibits: . 2 dioramas on Park's environment, of 6 relief models and

didactical graphs on the environment and on geological formation of Padan Plain. Realization of a multimedial theatre with a multi projection large screen, realization of documentaries on the Park (aerial view of the environment and surrounding rural landscapes).

- 2010 **La Fabbrica srl (Milano - Italy)**. Planning and realization of the interactive mobile exhibit "Ecotribe Mission" promoted by Coca Cola HBC Italia to sensitize children and youth to correct recycling. Realization of 4 exhibit rooms where the visitor through interactive games and multimedial systems, learns to identify the materials used in packages and their correct disposal.
- 2010 **ByeByeBaby srl (Milano - Italy)**. Realization of a didactical orchard and vegetable garden for the campaign " Good for you sustainable for the environment" displayed in Rome promoted by Barilla under the patronage of Legambiente.
- 2010 **Stelvio National Park (Italy)**. Visitor Center of Bormio: In scale 1:1 replica of a Bearded Vulture nest and model of Bearded Vulture. Reproduction of eggs and talons to put in evidence the different anatomical details of Bearded Vulture, Golden Eagle and Raven
- 2010 **La Fabbrica srl – Milano**. "No smoking be happy", outdoor exhibition for a campaign launched by Fondazione Umberto Veronesi to fight carcinogenic sources, displayed in Genova, Bologna, Napoli e Palermo.
- 2009/10 **Abruzzo National Park (Italy)**. Visitor Center of Civitella Alfedena: Renovation of the Visitor Centre, realization of 15 didactic panels on the wolf: taxonomy, distribution, ecology, conservation, issues related to poaching. Maintenance of a diorama and a relief model. realization of a didactical room with multi sensorial arrangements, Restoration of an existing diorama and relief models.
- 2009 **Natural History Museum of Maremma (Grosseto - Italy)**. Supportive interventions for the Museum Hall: realization of 20 models of birds in scale 1:1 (Greater Flamingo, Bean Goose, Mallard, Garganey, Buzzard, Kestrel, Goshawk, Hen Harrier, Black Kite, Peregrine Falcon), 30 models of invertebrate marine fauna, 10 models of marine and freshwater fish species, educational boards.
- 2009 **ByeByeBaby srl – Milano**. Realization of an outdoor didactical exhibition to recognize animal tracks. Reproduction of 15 footprints and faeces of Italian and African wildlife animals and its explanatory panel.
- 2009 **"Lands of waters" Museum - Sesia River Natural Park (Italy)– Bodino srl**. Realization of the Museum exhibits: dioramas representing the 6 different development stage of the ricefield, summer and winter alpine prairies, cross section of the river bed and Bee eater nests, cross section of a stream, scale models 1:10 of bass, dragonfly larval stages, toad tadpoles, rice plant and its kernel. Reconstruction of an enlarged model of white fir cone 3 mt high.
- 2009 **La Fabbrica srl – Milano**. "No smoking be happy", outdoor exhibition for a campaign launched by Fondazione Umberto Veronesi to fight carcinogenic sources displayed in Milano, Verona e Roma.
- 2008/09 **Natural History Museum of Maremma (Grosseto – Italy)**. Realization of the Museum exhibits for the Zoology hall with 8 dioramas on the Maremma wildlife and its environment, pictorial backgrounds and taxidermic preparations.
- 2008 **Natural History Museum of Maremma (Grosseto – Italy)**. Realization of the Museum exhibits for the Zoology hall with 22 ecological displays e naturalized reconstructions.

- 2008 **La Fabbrica srl – Milano.** “No smoking be happy”, planning and realization an outdoor exhibition for a campaign launched by Fondazione Umberto Veronesi to fight carcinogenic sources. Contained in an inflatable structure, it is displayed in the main Italian Cities. The visitor walks along a virtual path of the cigarette smoke (from the throat down to the lungs). In each area the main smoking pathologies are put in evidence. Interactivity is particularly efficacious in communicating the message with audio, tactile and illumination systems encountered along the path.
- 2008 **Unione Sarda S.p.A. – Cagliari.** Planning of the Astronomical Museum and the Planetarium.
- 2007/08 **Maremma Natural History Museum (Grosseto Municipality).** Realization of the Museum exhibits for the Mineralogy and Paleontology halls with 18 displays and 2 dioramas on the underwater environment and paleo-environment.
- 2007 **Imperia Province.** Planning and Realization of Pornassio Museum: 9 dioramas of large dimensions on wildlife animals and naturalized displays on local environments.
- 2007 **University of Perugia** - Restoration of zoological university historical collection: 900 specimens of birds, Orazio Antinori and Giulio Cicioni Collection. Realization of Access database.
- 2004/06 **High School Cesare Beccaria (MI).** Restoration of a zoological specimens of the High School historical Collection. Restoration of 50 specimens of mammals and 280 birds.
- 2006 **Forestry Department of Trieste and Gorizia.** Planning and Realization of Visitor Centre of Basovizza (TR): 4 dioramas on local environments, an accurate reproduction of a Downy Oak (*Quercus pubescens*) in full scale, enriched with didactical features hidden in drawers (*Xylifagus* insects, Vertebrate nests), a relief model of karst territory, scale 1:3.000 and amphibians and reptiles models. The life on the Earth and the evolution of the Human Being are explained while the visitor walks along a crystal glass path. A pictorial representation of each Era and touch screen solution provides for more details and informations.
- 2006 **Imperia Province.** Planning and Realization of Pornassio Museum: 2 dioramas of large dimensions on fluvial environments, restoration of a zoological collection.
- 2006 **Capanne di Marcarolo Natural Park (AL).** Planning and realization of Eco-Museum Cascina Moglioni: 4 large dioramas on historical stable, chestnuts drier, beech forest with a didactical tree, chesnut forest, agricultural areas.
- 2005 **Grandola ed Uniti Municipality (CO).** Naturalistic Museum: realization of a diorama on fluvial environment.
- 2005 **University of Pavia - Sistema Museale d’Ateneo.** Realization of didactical model to Natural History Museum: models of mammal teeth in magnified scale (20 cm in height), teeth of Red fox, Roe deer and European squirrel. Models of mammals jaws in magnified scale (1,5x), Red fox and Roe deer.
- 2004 **Grandola ed Uniti Municipality (CO).** Naturalistic Museum: realization of a diorama on mountain environment with pictorial backdrop and artificial snow.
- 2003 **Bolzano Province.** Visitor Centre of Dobbiaco Natural Park: realization of a diorama on mountain environment, with pictorial background and dolomia rock reconstruction.
- 2003 **Grandola ed Uniti Municipality (CO).** Naturalistic Museum: realization of a diorama on beech forest, reconstruction of 2 big beech trunks, undergrowth vegetation, amphibians and reptiles models.

- 2003 **Bolzano Province.** Monte Corno Visitor Centre: realization of a stratigraphic profile of a peat bog.
- 2003 **Naturalistic Graphic Study Uwe Thürnau.** Zoo Leipzig (D). Reconstruction of a artificial environment extends for over 800 square meter, covering the infrastructures home of the hyenas (Hyänenanlage project). Reconstruction of the typical geological formation of the kopjes characteristic of Serengeti National Park in Tanzania.
- 2002 **Stirone Natural Park (PR).** Realization of two naturalized showcases for the Scipione Ponte Visitor Center (PR). Educational panels with photographic background, on the adaptations and food techniques of the species present in the Park.
- 2002 **Arezzo Province - Ponte Burano Visitor Centre (AR).** Realization of amphibians and reptiles models.
- 2002 **La Specola Zoological Museum (FI).** Realization of amphibians models for Ponte Burano Visitor Centre (AR).
- 2002 **Italian Meteorological Society (TO).** Planning and realization of Glaciology Museum of Lago Serrù (TO). Reconstruction of a ice cave to represent the glacier mouth, naturalistic relief model of the Serrù Glacier with a glacier cross section.
- 2002 **Naturalistic Graphic Study Uwe Thürnau.** Sonnenuhrhaus project: Reconstruction of the Gran Canyon and Namibia rock walls extending for over 1500 mq, realised with mixed techniques and hand engraving of cement surfaces. The set up has been built within an hystoric green house adapted to contain especially bird species.
- 2001 **Bolzano Province.** Vedrette, Ries-Aurina and Campo Tures Park (BZ) Reconstruction of a rock model for the Visitor Centre. The model in scale 1:1 represents a pyrite mine used for sulfur exploitation.
- 2001 **C.E.S.E.S. (MI).** Teaching in the training course for environment management “information & comunication technology oriented”
- 2001 **Media Team gmbh.** Visitor Centre of Lokschuppen (D) exhibit: realization of a outdoor relief model of the Tre Cime di Lavaredo.
- 2000/01 **National Park of Gran Paradiso (Piemonte Region).** Planning and realization of a hydroelectric power plant relief model for Locana Visitor Centre (TO). The operation of a hydroelectric power plant by means of water flow between the upper reservoir, the penstock, the turbine and the lower basin. A touch screen multimedia system with audio and images illustrating the various functions of the central and controlling the circulation of water in different areas during the daytime energy production from upstream to downstream and the night water recovery from downstream to upstream. It also compares, using smaller models, the operation of a turbine and a mill with movements commanded by a realistic flow of water.
- 2000/01 **Sa Corona Arrubia Municipality (Cagliari Province).** Planning of the hall of the Zoological Museum, 8 dioramas illustrating the typical habitats of the Sardinian territory.
- 2000 **Golf Adventure (MI).** Reconstruction of a relief model in scale 1:10.000 of the Italy peninsula.
- 2000 **Natural Park Monte Corno (Bozen Province).** Visitor Centre of Trodena: planning and production of 5 models of soil invertebrates (scale 1:50) and xylofagus larval, section of a conifer trunk with magnification of plant cells at a scale 1:70, and a diorama illustrating the typical wet wood of the territory.

- 2000 **Stirone Regional Park.** Visitor centre of Scipione Ponte: planning and realization of a diorama on marchy environment and of fossil models scale 1:1.
- 2000 **Regional Park of Val Torcea (Torino Province).** Planning and production of a diorama illustrating four aspects of the alpine habitats. Accurate reproduction of alpine vegetation, even in bloom, and artificial water.
- 1999 **Natural Park of Mont Avic (Aosta Province).** Production of models (scale 1:1 and 1:10) of *Drosera rotundifolia*, representation of soils profiles, diorama of *Tetrao urogallo* and construction of an interactive model representing the Alpine folding.
- 1999 **Natural Parks of Dolomiti of Sesto and Fanes-Braies (Bozen Province).** Production of a dolomitic wall, construction of a relief model of Tre Cime di Lavaredo Mountains (m. 2,5 x 3,5).
- 1999 **Civic Museum of Natural Science of Bergamo (Bergamo Province).** Production of a diorama illustrating a coastal habitat (water surface and submarine details) of a pre-historical period.
- 1999 **Pavia Municipality (Pavia Province)** . Conservative restoration and co-operation in the settling of the specimens for the exhibit "The Museum of Lazzaro Spallanzani".
- 1998/99 **Civic Museum of natural Science of Novara (Novara Province).** Production of 2 dioramas, 12 exhibits windows, 7 didactical boards with models, casts and naturalisation of exhibition elements.
- 1998 **Pavia Municipality (Pavia Province).** Conservative restoration of 15 small carnivores of the zoological university collection.
- 1998 **Pavia Municipality (Pavia Province).** Conservative restoration of a skeleton of *Balaena mysticetus* of the osteological university collection.
- 1998 **Pavia Municipality (Pavia Province).** Conservative restoration and co-operation in the settling of the specimens for the exhibit "Claws and Fangs: large and small predators".
- 1998 **Natural Park of Po and Orba Rivers (Alessandria Province).** Planning and production of a diorama on the riverine habitat.
- 1997/98 **Museum of Natural Science of Alto Adige (Bozen Province)** Production of 5 dioramas illustrating the natural habitats of the province and reconstruction of porfiric and dolomitic rock walls.
- 1997 **Museum of Natural Science of Torino (Piemonte region).** Production of 15 casts (scale 1:1) of Spider monkey (*Ateles geoffroyi*) used as emblem in the exhibits: "Primates, noi e le scimmie" (Primates, we and the monkeys)
- 1997 **University of Pavia (Pavia Province).** Production of a stand and an aquarium containing a specimen of *Latimeria chalumnae* kept in formaldehyde.
- 1997 **Regional Park of Stirone River (Parma Province).** Planning and realisation of the Visitor Centre, exhibits windows, educational boards and diorama on the riverine habitat.
- 1997 **Pavia Municipality (Pavia Province).** Conservative restoration of two historical anatomical preparation (a deer and a horse made in 1758). Zoological university collection.
- 1997 **National Park of Gran Paradiso (Piemonte Region).** Production of models of *Gips fulvus* and reconstruction of a rocky habitat as nesting site of the species.

- 1996/97 **Pavia Municipality (Pavia Province)**. Conservative restoration of 20 primates belonging to the university collection "Lazzaro Spallanzani".
- 1996/97 **Gemmano Municipality (Emilia Romagna Region)**. Taxydermic preparations of 27 specimens and reproduction of 9 replicas for educational purposes.
- 1996 **Pavia Municipality (Pavia Province)**. Restoration of 31 skins and 76 trophies of exotic specimens belonging to the Collection Robecchi Bricchetti (1885-1915).
- 1996 **Pavia Municipality (Pavia Province)**. Restoration of 40 large mammals belonging to the university collection "Lazzaro Spallanzani".
- 1995/96 **National Park of Gran Paradiso (Piemonte - Val d'Aosta Regions)**. Planning and production of 4 dioramas reproducing the habitat of the Park.
- 1995 **Fermo Municipality (Ascoli Piceno- Marche Region)**. "5th week of the Scientific Culture": presentation of the works: "The naturalistic museology" and "techniques of restoration and preservation". Contribute to the collection catalogue.
- 1995 **Regional Museum of Natural Science of Torino (Torino Province)**. Display "Amphibians & Lichens": Production of 4 dioramas reproducing Italian and exotic habitat and reproduction of Madagascar amphibians.
- 1995 **Pavia Municipality (Pavia Province)**. Restoration of 23 zoological specimens of the university collection "Lazzaro Spallanzani (1769), Italian fauna".
- 1994 **Nature Reserve of Adamello (Brescia Province)**. Planning and production of the Visitors Centre of Vezza D'oglio dioramas and window-exhibits.
- 1994 **Fermo Comune (Ascoli Piceno- Marche Region)**. Restoration of 530 specimens belonging to the Ornithological Collection Tommaso Salvadori (1835-1923).

WILDLIFE MANAGEMENT

- 2000/17 **Italia Nostra Onlus.** Census of the wintering bird species of urban parks Parco della Cave and Bosco in città of Milano, within the framework of the European Project on the monitoring of the waterbird population (International Waterbird Census).
- 2017 **Italia Nostra Onlus (Province of Milan).** Faunistic monitoring in "Boscoincittà" Park in Milan. Periodic census of vertebrate fauna (Carnivores and Lagomorphs). Monitoring and cognitive investigation on the presence and distribution of arboreal mammals and micromammal. Study of Reptiles and distribution and ecological preferences.
- 2016-17 **Colombo Severo & C. srl.** Pre- and postbreeding census and monitoring of Lagomorphs in the ATC Laudanense Nord - Lodi (MI).
- 2016-17 **Oristano Province.** Monitoring and study of the consistency of the ichthyophagus bird species in the wetlands of the Province of Oristano.
- 2016 **Italia Nostra Onlus (Province of Milan).** Faunistic monitoring in "Boscoincittà" Park in Milan. Periodic census of vertebrate fauna (Carnivores and Lagomorphs).
- 2015/16 **Colombo Severo & C. srl.** Pre- and postbreeding census and monitoring of Lagomorphs in the ATC Laudanense Nord - Lodi (MI).
- 2015-16 **Oristano Province.** Monitoring and study of the consistency of the ichthyophagus bird species in the wetlands of the Province of Oristano.
- 2015 **Italia Nostra Onlus (Province of Milan).** Periodic monitoring of Lagomorphs, Carnivores and Herpetofauna in Boscoincittà Park of Milan.
- 2014-15 **Oristano Province.** Monitoring and study of the consistency of the ichthyophagus bird species in the wetlands of the Province of Oristano.
- 2014 **Italia Nostra Onlus (Province of Milan).** Periodic monitoring of Lagomorphs, Carnivores and Herpetofauna in Boscoincittà Park of Milan. Monitoring of micromammals and analysis of Fox diet.
- 2013/14 **Studio Medda.** Faunistic monitoring and botanical survey in 13 Repopulation and Capture Areas of the Province of Medio Campidano.
- 2013 **Italia Nostra Onlus (Province of Milan).** Periodic monitoring of Lagomorphs, Carnivores and Herpetofauna in Boscoincittà Park of Milan.
- 2012 **Piacenza Province.** Inputting, processing and storage of data relating to activities for the control of wildlife.
- 2012 **Italia Nostra Onlus (Province of Milan).** Periodic monitoring of Lagomorphs, Carnivores and Herpetofauna in Boscoincittà Park of Milan.
- 2011/12 **University of Pavia.** Environmental analysis, botanical surveys, Wild Boar, Sardinian hare and Sardinian horns censuses, (night censuses, pellets group counts etc.), surveys and biometric analysis of Wild Boar.
- 2011 **Italia Nostra Onlus (Province of Milan).** Monthly monitoring of Lagomorphs and Carnivores, in Boscoincittà Park of Milan.
- 2011 **Studio Medda. ZOUMgest project.** Monitoring of nesting birds in the 6 wetlands (Corru S'Ittiri, Santa Giusta, Colostrai, San Teodoro, Molentargius, Porto Pino ponds), botanical survey, description of environmental characteristics of the study area.

- 2010/11 **Sardinia Region (Italy) with the collaboration of University of Pavia.** Updating of the Sardinia Region Faunistic Chart Updating of the homogeneous sites, animal species habitat analysis models and productivity for Sardinian Hare, Wild Rabbit and Barbary Partridge.
- 2009 **Parco delle Cave and Bosco in città – Italia Nostra Onlus (Milan - Italy).** Characterization of both Urban parks Management Plan. GIS mapping by employing ortho-photographic sources including available wildlife data.
- 2008/09 **Carbonia Iglesias Provincial Administration (Sardinia Region - Italy).** Characterization of the Province Game Management Plan.
- 2007/08 **University of Pavia.** (Socotra Island - Yemen). Wildlife, biodiversity and environmental analysis within the framework of the project “Sustainable development and biodiversity conservation of Socotra Island (Yemen)” financed by Italian Ministry of Foreign Affairs and UNDP, implemented by University of Pavia Animal Biology Department and University “La Sapienza” of Rome – Botanic Department. The project was carried out in collaboration with the local counterparts of the Ministry of Water and Environment of Yemen Democratic Republic for the realization of a Decision Support System (DSS) aimed at the sustainable management of the natural resources.
- 2005/07 **Cagliari Province (Sardinia).** Wildlife protection and game hunting Office – Environmental Protection Administrative Sector. Biennial research on presence of Wildlife through the census of Barbary partridge, Mediterranean hare, Wild boar, Fox and Hooded crow in ten *Temporary Areas of Restocking and Capture of wildlife* within Cagliari Province; analysis of the population consistency, land use, environmental studies for the relationship species-habitat and investigation on the factors affecting the abundance and distribution of the animal population to provide technical management suggestion for each species. Role of scientific coordinator.
- 2005 **Teaching** during G.E.V. course of “Monitoring, conservation and management of the Wolf”. Brallo Pregola (PV), February 2005.
- 2005 **University of Pavia.** Teaching during the first year “Wildlife management course” of Biological degree (BIO/05-Zoology) of the University of Pisa. Lessons about monitoring techniques and management of Galliforms and Lagomorphs.
- 2005 **University of Pavia and Ministry of Foreign Affairs.** Advice during the Program “*Conservation and community development in the Region of Turkana Lake (Kenya)*”. Evaluation of mammalian, reptilian, and amphibian populations, and habitat analyses in order to carry out a DSS program (*Decision Support System*).
- 2004/05 **Department of Animal Biology, University of Pavia – Milan Province.** Atlas of key species indicators of habitat quality within the Province of Milano. Analyses, wildlife monitoring (Amphibians, Reptiles and Mammals) and definition of species richness and biodiversity indicators.
- 2003/05 **Triennial research** on the “**Wildlife Map of Sardinia Region**”. In collaboration with University of Sassari, Cagliari, Pisa, and Pavia; A careful study of Mediterranean hare, European rabbit and Barbary partridge.
- 2004 **Interuniversity Centre (C.I.R.Se.M.A.F.)** Implemented by Universities of Pavia, Pisa e Siena. Game Management Plan of the Lucca Province. Environmental Analyses, definition of the strategies to be applied in the Game Management, design of predictive models of distribution for the game and wildlife, evaluation of the faunistic values of the territory and its productivity trends, guidelines for the Game Management addressed to the local Institutions.

- 2004 **I.V.R.A. society.** Teaching during the “Program of technical information and adjournment on supplemented and sustainable management of Oasis, for protecting and capturing wildlife, in Sardinia”. A special interest in the management of Lagomorphs and Carnivores.
- 2004 **Italia Nostra Onlus (Milan Province).** Study of the wildlife distribution potentialities within private and public areas along the green belt of Milano City. Realization of land use database for the definition of naturality degree, design of predictive models for wildlife distribution, design of ecological corridors.
- 2002/04 **Italia Nostra Onlus (Milan Province).** Planning of interventions addressed to the habitat re-qualification within a peri-urban park of Milano for the expansion of wetlands. Monitoring of wildlife colonization patterns (Water Birds, Reptiles and Water Mammals), analyses of the population dynamic of *Anas platyrhynchos*, *Fulica atra*, *Gallinula chloropus*. Environmental re-qualification and definition of the guidelines addressed to the management and conservation of the species in intense urbanized area.
- 2001 **Environmental Minister.** Monitoring of the conservation status of some mammals of the Italian fauna particularly under extinction risk. Status and distribution analysis of Sardinian Deer and Mouflon, carried out through field investigation; definition of the guidelines addressed to the management and conservation of the species and monitoring techniques.
- 2000 **Siena Province.** Study on the reintroduction of the Red Partridge (*Alectoris rufa*) and Grey Partridge (*Coturnix coturnix*) within the territory of Siena Province (Tuscany). Research coordinated by the University of Pavia.
- 1997/98 **Parco delle Cave (Milan Province).** Investigation on the wildlife occurring in the Park. Study on species-habitat relationship aimed to better address management indication for the conservation of the area.
- 1997 **National Park of Gran Sasso and Laga Montains (Teramo Province).** Study on Wildboar (*Sus scrofa*) population: individuation of areas at high risk of damages and plans for the prevention and control of damages.
- 1996/97 **Cagliari Province.** Provincial Plan for Game Management. Study of the distribution and status of the game species populations.
- 1996 **Alpine Ecology Centre (Trento - Trentino Region).** Study on the occurrence and status of the Grey Partridge *Coturnix coturnix*. Design of the vegetation map by photo-interpretation procedures, study of the habitat-species relationship and design of predictive models for species distribution according to habitat suitability of each species
- 1995 **Piacenza Province (Lombardia Region).** Technical-scientific consulting for the management of the fauna in Game Areas.
- 1994/95 **Oristano Province (Sardegna Region).** Census and research on the behavioural ecology of the Sardinian hare (*Lepus capensis*): study of the habitat-species relationship and analysis of the use of habitat by applying radio-telemetry procedures.

ENVIRONMENTAL EDUCATION

- 2017 **Italia Nostra Onlus - Parco delle Cave (Milan Province)**. Environmental education lectures and field excursion addressed to educational guides, secondary schools pupils and university student.
- 2010 **Italia Nostra Onlus - Parco delle Cave (Milan Province)**. Environmental education lectures and field excursion addressed to school pupils (secondary schools)
- 2000 **Italia Nostra Onlus - Parco delle Cave (Milan Province)**. Environmental education lectures and field excursion addressed to guides and school pupils (secondary schools)
- 1999 **Italia Nostra Onlus - Parco delle Cave (Milan Province)**. Lectures and field excursion addressed to general public and school pupils (secondary schools) for the environmental education.
- 1999 **Italia Nostra - Parco delle Cave (Milan Province)**. Environmental education lectures addressed to school pupils (secondary schools)
- 1999 **Italia Nostra - Parco delle Cave (Milan Province)**. Lectures and field excursion addressed to general public for the environmental education
- 1995 **Liguria Region**. Course addressed to veterinarians on damages assessment and recognition caused by the Canids (stray and domestic dogs, foxes, wolves)
- 1994/95 **Piacenza Province**. Course addressed to hunters on the biology, use of the habitat, damages assessment of the wild boar (*Sus scrofa*)

Milano, 16/3/2020