

9<sup>th</sup> Meeting of the Standing Committee  
19<sup>th</sup> Meeting of the Advisory Committee

Heraklion, Greece, 7 – 10 April 2014



Report of the IWG on  
Bat Rehabilitation

Convenors: Helena Jahelkova and Lena Godlevska

31 March 2014

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## Introduction

During the AC18 the Bat Rehabilitation IWG agreed that

- Bat rehabilitation should be considered as a tool for bat conservation, public education and can also provide useful information about bat distribution; further work of the group should be continued in view of this statement.
- The current version of the questionnaire will be added with few some new items and will be sent to EUROBATS focal points.
- The reference list of published information on bat rehabilitation is needed and should be broadened with references to all available information in different languages from as many countries as possible.

The questionnaire was prepared and distributed through the EUROBATS Parties and Range States. The full text of the questionnaire is given in Annex 1.

The aim of questionnaire is to collect the information and, correspondingly, to estimate the significance of bat rehabilitation in view of bat conservation, public education and data collection throughout Europe. As well the respondents were asked to give references to manuals or guidelines available in national languages and to point contacts of bat rehabilitation institutions and / or persons.

Answers from 26 EUROBATS Parties and Range States were received, at 30.03.2014 (fig. 1). List of experts filled the questionnaire is given in Annex 2.

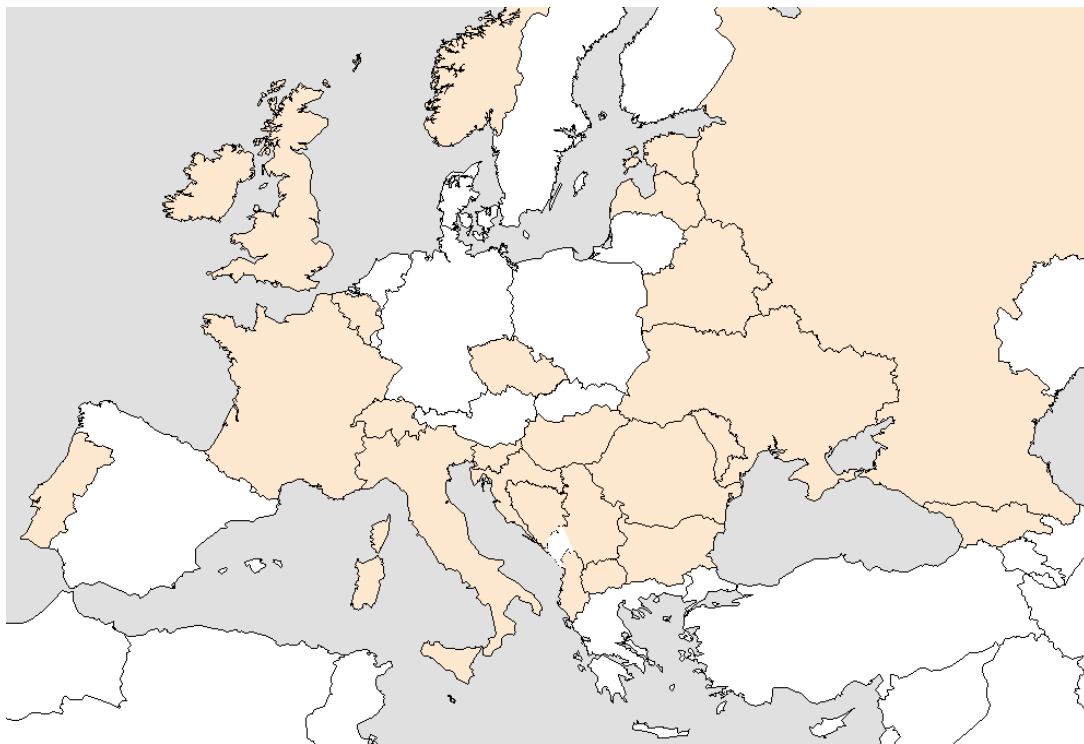


Fig. 1. Geography of answers

The processing of received answers is going on and more answers are expected. Here we give information which has been already worked out.

### 1. An overview

19 from 26 countries filled the questionnaire deal with bat rehabilitation. 13 countries have bat rehabilitation databases, but 16 countries use finding data as the source for additional faunistic data (new localities,

occurrence of species, sex ratio. etc, etc). 15 countries use died animals for virological, morphological, parasitological, histological etc. research purposes and for replenishment of museum collections.

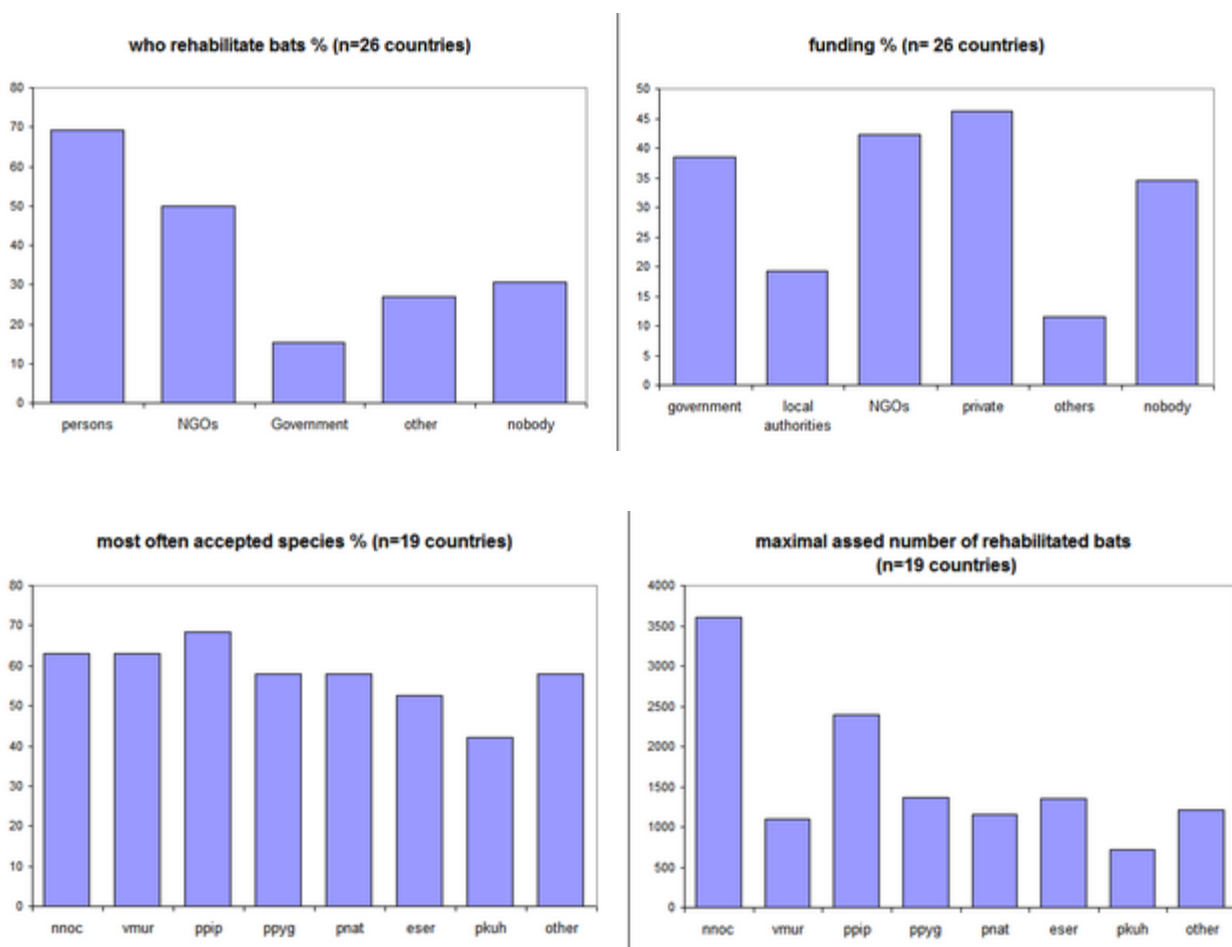
Only 7 countries have regulations for bat rehabilitation.

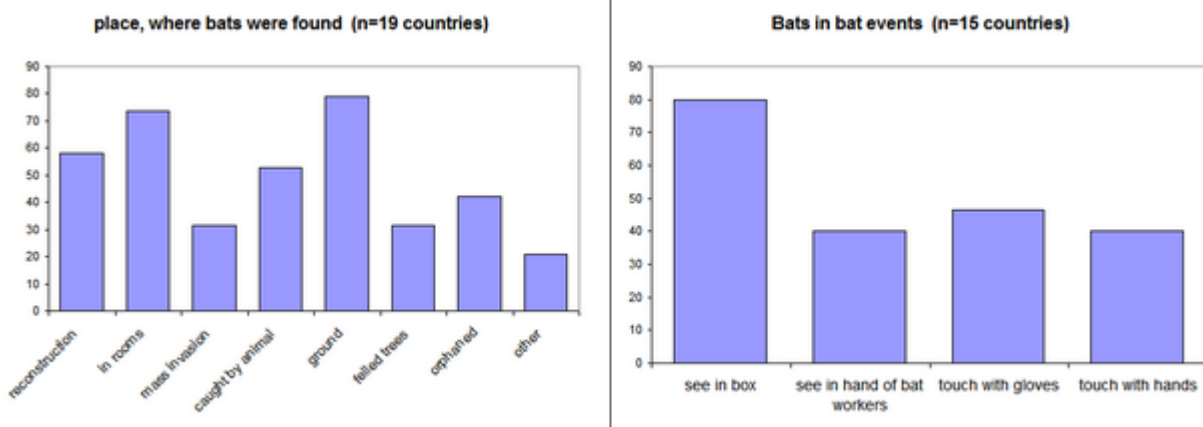
Number of bats received for bat rehabilitation per year differs from country to country. This number may, obviously, be determined by different factors (the severity of winters, location of the country, availability of contacts of bat carers, the regularity of accidents of demolishing roosts, etc.). However, this number may reach considerable values (>1000 per country / year).

The percentage of bats released successfully after bat rehabilitation differs throughout countries. It amounts from 50 to 70%.

15 countries used rehabilitated bats during bat events and 8 countries used also wild bats captured for these occasions. Nevertheless, only 12 of them have some restrictions for using (rehabilitated) bats during bat events.

7 countries have their national manuals for bat rehabilitation.





## 2. Summarizing descriptions of bat rehabilitation approaches in different countries

5 countries gave the references.

### Norway

- van der Kooij, J. 2007. Norsk Zoologisk Forenings flaggermusmottak – fem år har gått [The Norwegian Zoological Society's bat care centre – five years of practise] - Fauna, Oslo 60 (3-4): 183-189 (in Norwegian, English figure texts and English summary).
- van der Kooij, J. 2010. Bat Care. What are the benefits? - Powerpoint presentation at the Pre-Symposium Bat Care Workshop at the 2nd International Berlin Bat Meeting.
- van der Kooij, J. & Gebhard J. 2010. A practical approach to the successful release of hand-reared bats. - Powerpoint presentation at the Pre-Symposium Bat Care Workshop at the 2nd International Berlin Bat Meeting.
- van der Kooij, J. 2013. Fledermauspflge Norwegen – Wie und wieso? - Powerpoint presentation at the Pre-Symposium Bat Care Workshop at the 3rd International Berlin Bat Meeting.
- van der Kooij, J. Bat Care in Norway – 12 years of practise. In prep.

### Slovenia

General reports summing together work of SDPVN members:

- Podgorelec, M., (in press). Odziv na klice javnosti v zvezi z netopirji (2012, 2013). Glej, netopir! Ljubljana 10(1): xxx - Podgorelec, M., 2011. Odziv na klice javnosti v zvezi z netopirji (2010, 2011). Glej, netopir! Ljubljana 8(1): 29–31. ([http://www.sdpvn-drustvo.si/FOTKE/PROJEKTI/Publikacije/glej\\_netopir\\_8-01.pdf](http://www.sdpvn-drustvo.si/FOTKE/PROJEKTI/Publikacije/glej_netopir_8-01.pdf))
- Petrinjak, A. & L. Likozar, 2009. Halo, halo, tu netopir, potrebujem pomoč. Glej, netopir! Ljubljana 6(1): 41–43. ([http://www.sdpvn-drustvo.si/FOTKE/PROJEKTI/Publikacije/Glej\\_netopir\\_09.pdf](http://www.sdpvn-drustvo.si/FOTKE/PROJEKTI/Publikacije/Glej_netopir_09.pdf))

Wildlife shelter apart from early publication (Orehar, 2009) in its publicly available reports (<http://www.arso.gov.si/narava/%C5%BEivali/zato%C4%8Di%C5%A1%C4%8De/>) doesn't reports specifically on of number/species/ locations/ survival rate ob bats.

- Orehar, N., 2009. Pomoč poškodovanim netopirjem. Glej, netopir! Ljubljana 6(1): 44–45. [http://www.sdpvn-drustvo.si/FOTKE/PROJEKTI/Publikacije/Glej\\_netopir\\_09.pdf](http://www.sdpvn-drustvo.si/FOTKE/PROJEKTI/Publikacije/Glej_netopir_09.pdf)

### Switzerland

- Handbuch Fledermaus-Notpflge (Vers. 2014/1 in Überarbeitung) für die fachspezifische berufsunabhängige Ausbildung (Art. 192 Abs. 1 Bst. b TSchV) (Bewilligung-Nr. 13/0028 Stiftung zum Schutze unserer Fledermäuse in der Schweiz, Dr. Hans-Peter B. Stutz).

### The United Kingdom

- Bat Care Guidelines and 2013 Update, BCT  
[http://www.bats.org.uk/publications\\_download.php/1114/Bat\\_Care\\_Guidelines\\_Update\\_2013\\_May\\_2013.pdf](http://www.bats.org.uk/publications_download.php/1114/Bat_Care_Guidelines_Update_2013_May_2013.pdf)
- Bat Rescue Manual, Maggie and Bryan Brown 2006. Available from the West Yorkshire Bat Hospital
- <http://www.bats.org.uk/pages/batcare.html>

### Czech Republic

- Jahelková, H., Hájková, P., Bláhová, A. 2009. Péče o netopýry: metodika péče o nalezené, zraněné a hendikepované netopýry, Český svaz ochránců přírody, 111 pp.  
<http://www.ceson.org/document/metodikapeceonotopyry.pdf>

### **3. Estimation of numbers of received and released bats: publications**

Hudcová, S. 2013. Analýza nálezových dat výskytu netopýrů na území hlavního města Prahy a v jejím okolí související s lidskou činností. Diploma thesis (in Czech language with English summary). – soon prepared for publication

van der Kooij, J. 2007. Norsk Zoologisk Forenings flaggermusmottak – fem år har gått [The Norwegian Zoological Society's bat care centre – five years of practice] - Fauna, Oslo 60 (3-4): 183 -189 (in Norwegian, English figure texts and English summary).

van der Kooij, J. Bat Care in Norway – 12 years of practice. In prep.

Serangeli M.T., Cistrone L., Ancillotto L., Tomassini A. & Russo D. (2012). The post-release fate of hand-reared orphaned bats: survival and habitat selection. *Animal Welfare* 21: 9-18.

### **4. Bat rehabilitation records for collecting additional faunistic data: publications**

18 from 21 countries dealing with bat rehabilitation use bat rehabilitation records for collecting additional faunistic data

Ancillotto L., Serangeli M.T. & Russo D. (2013). Curiosity killed the bat: Domestic cats as bat predators. *Mammalian Biology*. 78: 369-373

Godlevsky L., Tyshchenko V., Negoda V. First records of *Pipistrellus kuhlii* from Kyiv // *Vestnik zoologii*. – 2000. – T. 34, № 3. – P. 78.

Godlevska L. V. Results of the work of the bat contact-centre (Ukraine) // *Scientific Notes of Taurida V. I. Vernadsky National University*. – Series: Biology, chemistry. – 2012. – Vol. 25 (64), No 4. – P. 12-20. (In Russian with English summary.)

Godlevska L. V. New *Vespertilio murinus* (Chiroptera) winter records. An indication of expansion of the species' winter range? // *Vestnik zoologii*. – 2013. – T. 47, №3. – C. 239-244.

Hanák V., Neckářová J., Benda P., Hanzal V., Anděra M., Horáček I., Jahelková H., Zieglerová A., Zieglerová D. 2009. Fauna netopýrů Prahy: Přehled nálezů a poznámky k urbánním populacím netopýrů. *Natura Pragensis* 19, pp. 3-89

Hudcová, S. 2013. Analýza nálezových dat výskytu netopýrů na území hlavního města Prahy a v jejím okolí související s lidskou činností. Diploma thesis (in Czech language with English summary). – soon prepared for publication

Jahelková H., Neckářová J., Zieglerová A., Zieglerová D. 2008. Nové nálezy zimujících netopýrů rodu *Pipistrellus* sp. v Praze a okolí. *Vespertilio* 12: 27-32

van der Kooij, J. Bat Care in Norway – 12 years of practise. In prep.

Likožar, L., 2011. First record of Savi's pipistrelle *Hypsugo savii* (Bonaparte, 1837) in NW Slovenia. *Natura Sloveniae*, Ljubljana 13(1): 63–64. ([http://web.bf.uni-lj.si/bi/NATURA-SLOVENIAE/pdf/NatSlo\\_13\\_1\\_8.pdf](http://web.bf.uni-lj.si/bi/NATURA-SLOVENIAE/pdf/NatSlo_13_1_8.pdf))

Mastrobuoni G., Gaiba G., Ragno R. 2005. Prima segnalazione per il Lazio (Italia Centrale) di *Vespertilio* di Bechstein, *Myotis bechsteinii* (Chiroptera: Vespertilionidae). *Boll. Mus. reg. Sci. nat. Torino* 22: 525-530.

Presetnik P., K. Koselj, M. Zagmajster, N. Zupančič, K. Jazbec, U. Žibrat, A. Petrinjak & A. Hudoklin, 2009. Atlas netopirjev (Chiroptera) Slovenije, Atlas of bats (Chiroptera) of Slovenia. Atlas faunae et floriae Sloveniae 2. Center za kartografijo favne in flore, Miklavž na Dravskem polju, 152 str.

Presetnik, P., M. Podgorelec & A. Petrinjak, 2013. Is the parti-coloured bat *Vespertilio murinus* Linnaeus, 1758 a common bat species in Slovenia? *Natura Sloveniae*, Ljubljana 15(2): 39–50. ([http://web.bf.uni-lj.si/bi/NATURA-SLOVENIAE/pdf/NatSlo\\_15\\_2\\_4.pdf](http://web.bf.uni-lj.si/bi/NATURA-SLOVENIAE/pdf/NatSlo_15_2_4.pdf))

Shpak A. Bats of Minsk (Belarus): species composition, habitat ecology and features of hibernation // 3rd International Berlin Bat Meeting: Bats in the Anthropocene. – 2013. – P. 83.

SDPVN yearly publication Glej, netopir! (<http://www.sdpvn-drustvo.si/zlozenke.html>)

Serangeli M.T., Cistrone L., Ancillotto L., Tomassini A. & Russo D. (2012). The post-release fate of hand-reared orphaned bats: survival and habitat selection. *Animal Welfare* 21: 9-18.

Tyshchenko V. M., Godlevska O. V. First winter records of *Vespertilio murinus* and *Nyctalus noctula* (Chiroptera) in Kyiv // *Vestnik zoologii*. – 2008. – Vol. 42, № 3. – P. 280. (In Ukrainian.)

Vlaschenko A.S. Record of hibernated *Nyctalus noctula* in Kharkov // *Vestnik zoologii*. – 1999. - 33 (4-5). - P. 76. (in Russian)

Vlaschenko A. S. Sex ratio in four bat species in north-eastern Ukraine // *Journal of V.N. Karazin's National University. Series: biology*. — 2008. — № 814, Iss. 7. — P. 65–73. (in Russian)

## 5. National bat rehabilitation manuals or guidelines

5 countries gave references to the manuals or guidelines in their national language(s).

Country	Language	References
Czech Republic	Czech	Jahelková, H., Hájková, P., Bláhová, A. 2009. Péče o netopýry: Metodika péče o nalezené, zraněné a hendikepované netopýry, č.21. Český svaz ochránců přírody, MŽP.
France	French	There is only one guideline published in France it's only restricted to a few people. See the naturel History museum from Bourges
Italy	Italian	Dondini G. & Vergari S. (1998). Manuale per la conservazione dei pipistrelli. Mem.Museo, Riserva Nat. Or. Onferno, 1: 1-52 pp. Linee guida per il primo soccorso. PDF by GIRC on <a href="http://www.pipistrelli.org">www.pipistrelli.org</a>
the UK	English	Bat Care Guidelines and 2013 Update, BCT <a href="http://www.bats.org.uk/pages/batcare.html">http://www.bats.org.uk/pages/batcare.html</a>  Bat Rescue Manual Maggie and Bryan Brown 2006. Available from the West Yorkshire Bat Hospital
Ukraine	Ukrainian, Russian	A general description of the scheme used in Ukraine for rescue of bats in winter may be read at the web-site of Ukrainian Centre of Bat Protection: L. Godlevska. How bats are rescued in winter. – <a href="http://kazhan.org.ua/ukr/library/rehab.htm">http://kazhan.org.ua/ukr/library/rehab.htm</a> (in Ukrainian); <a href="http://kazhan.org.ua/rus/library/rehab.htm">http://kazhan.org.ua/rus/library/rehab.htm</a> (in Russian).

## 6. National contacts on bat rehabilitation

Country	Name	City	Organization	Contacts
<b>Bulgaria</b>	Elena Stoeva	Stara Zagora	Green Balkans	<a href="mailto:etilova@greenbalkans.org">etilova@greenbalkans.org</a>
	Antonia Hubancheva	Sofia	BRCC/NMNHS	<a href="mailto:a.hubancheva@yahoo.com">a.hubancheva@yahoo.com</a>
	Violeta Zhelyazkova	Sofia	BRCC/NMNHS	<a href="mailto:violet_jl@abv.bg">violet_jl@abv.bg</a>
<b>Czech republic</b>	Helena Jahelková	Prague	Nyctalus	<a href="mailto:helena.jahelkova@seznam.cz">helena.jahelkova@seznam.cz</a>
	Dagmar Zieglerová	Prague	Nyctalus	<a href="mailto:nyctalus@email.cz">nyctalus@email.cz</a>
<b>France*</b>	Laurent Arthur		Muséum d'histoire naturelle de Bourges	<a href="mailto:Laurent.arthur@ville-bourges.fr">Laurent.arthur@ville-bourges.fr</a>
<b>Hungary</b>	Zoltán Molnár	Budapest	Budapest Zoo	<a href="mailto:molnar@zoobudapest.com">molnar@zoobudapest.com</a>
	Noémi Papp	Budapest	Budapest Zoo	tel: 36 20 3607253
<b>Ireland</b>	Dan Donoher	Kildare	Kildare Animal Foundation	<a href="mailto:kafwildlife@gmail.com">kafwildlife@gmail.com</a>
<b>Italy</b>	Alessandra Tomassini	Rome	Ass Tutela Pipistrelli	<a href="mailto:Alessandra.tomassini@libero.it">Alessandra.tomassini@libero.it</a>
	Gianna Dondini	Pistoia		<a href="mailto:gianna.dondini@tin.it">gianna.dondini@tin.it</a>
	Maria Tiziana Serangeli	Rome		<a href="mailto:mt.serangeli@alice.it">mt.serangeli@alice.it</a>

Country	Name	City	Organization	Contacts
	Claudia Chini	Pisa	WWF Pisa	hypsugo@gmail.com
	Paola Zintu	Pisa	WWF Pisa	paola_italia@hotmail.com
<b>Norway</b>	Jeroen van der Kooij	Oslo	Norwegian Zoological Society	jevader@online.no
	Keith Redford	Oslo	Norwegian Zoological Society	
	Anke Kirkeby	Oslo	Norwegian Zoological Society	
	Magne Flåten	Tønsberg	Norwegian Zoological Society	
	Per Inge Værnesbranden	Trondheim	Norwegian Zoological Society	
<b>Portugal - Mainland</b>	Luisa Rodrigues	Lisboa	ICNF	luisa.rodrigues@icnf.pt
	Ana Rainho	Lisboa	ICNF	Ana.Rainho@icnf.pt
	Pedro Alves	Pombal	Plecotus	pjalves@plecotus.com
	Silvia Barreiro	Santarém	Plecotus	sbarreiro@plecotus.com
	Gabriel Mendes	Sintra	AES	gabriel.mendes@sapo.pt
<b>Portugal - Madeira</b>	Sérgio Teixeira	Funchal	Madeira Fauna & Flora and Eurobats advisor	sergionictal@gmail.com
<b>Romania</b>	Romanian Bat Protection Association	Satu Mare	Romanian Bat Protection Association	office@apl.ro
<b>Russia</b>	Eugenia Kozhurina	Moscow	Severtsov Institute of Ecology and Evolution	kefa@orc.ru
<b>Serbia</b>	Branko Karapandža	Belgrade	WCS Mustela	branko.karapandza@gmail.com
	Ivana Budinski	Belgrade	WCS Mustela	barbastella87@gmail.com
	Milan Paunović	Belgrade	NH Museum / WCS Mustela	milan.paunovic@nhmbeo.rs
	Jelena Jovanović	Belgrade	NH Museum	jelenajjovanovic@gmail.com
<b>Slovenia</b>	Zlatko Golob	responsible for whole Slovenia	Golob d.o.o., Zatočišče za živali prosto živečih vrst	golob.doo@gmail.com
	Rožle Kaučič	SW Štajerska region & Central Slovenia	SDPVN	rozle.kaucic@gmail.com
	Tea Knapič	Central Slovenia region	SDPVN	tea.knopic@gmail.com
	Jana Mlakar	Central Slovenia region	SDPVN	jana.mlakar@gmail.com
	Alenka Petrinjak	Gorenjska region	SDPVN	alenka.petrinjak@gmail.com
	Monika Podgorelec	NE Štajerska region, Pomurje & Central Slovenia region	SDPVN	monika.podgorelec@gmail.com
	Simon Zidar	Central Slovenia region	SDPVN	simon.zidar@gmail.com
	Maja Zagmajster	Central Slovenia region	SDPVN	Maja.Zagmajster@bf.uni-lj.si
<b>Switzerland*</b>	Hans-Peter B. Stutz		Bat Conservation Switzerland	hans-peter.stutz@zoo.ch
<b>UK /England</b>	Maggie Brown	West Yorkshie	West Yorkshire Bat Hospital	batcarenews@phonecoop.coop
	Jan Ragg	Essex	Essex Bat Group	jan.ragg.t21@btinternet.com
	Gail Armstrong	Lancashire	North Lancashire Bat Group	gail@batlady.co.uk
	Jenny Clark	Sussex	Sussex Bat Group	Phone best, 01342 823 189
<b>Ukraine</b>	Lena Godlevska	Kiev	Schmalhausen Institute of Zoology	lgodlevska@gmail.com
	Alona Prylutska	Kharkiv	Bat Rehabilitation	alenagukasova@gukasov.net

Country	Name	City	Organization	Contacts
			Center Feldman Ecopark	

\* contacts of an expert who filled the questionnaire

## 7. Web-resources

<b>Bulgaria</b>	Bat Research & Conservation Centre, National Museum of Natural History, Sofia <a href="http://nmnhs.com/bat-research-and-conservation-centre-en.html">http://nmnhs.com/bat-research-and-conservation-centre-en.html</a> Deals with cases from Sofia and the surroundings up to about 100km in radius.
	Wildlife Rehabilitation and Breeding Center, Green Balkans <a href="http://www.greenbalkans-wrbc.org/index.php?language=en_EN&amp;cat_id=2&amp;">http://www.greenbalkans-wrbc.org/index.php?language=en_EN&amp;cat_id=2&amp;</a> Deals with all other cases of injured bats in Bulgaria.
<b>Croatia</b>	<a href="http://www.awap.hr/awap/index.php?lang=hr">http://www.awap.hr/awap/index.php?lang=hr</a>
<b>Czech Republic</b>	ZO ČSOP Nyctalus: <a href="http://www.nyctalus.cz">www.nyctalus.cz</a> ČESON: <a href="http://www.ceson.org">www.ceson.org</a>
<b>Italy</b>	<a href="http://www.pipistrelli.net/drupal/sos">http://www.pipistrelli.net/drupal/sos</a> <a href="http://www.tutelapipistrelli.it">http://www.tutelapipistrelli.it</a>
<b>Norway</b>	<a href="http://zoologi.no/flaggermus/mottak/">http://zoologi.no/flaggermus/mottak/</a>
<b>Russia</b>	<a href="http://vk.com/bat_info">http://vk.com/bat_info</a>
<b>Slovenia</b>	SDPVN page: - Text: "I have found bat what should I do?" (Zagmajster.,M.: Našel sem netopirja, kaj naj storim) ( <a href="http://www.sdpvn-drustvo.si/nasveti.html">http://www.sdpvn-drustvo.si/nasveti.html</a> ) - Information leaflet: "Bat, do you need a help?" (Presetnik, P. & K. Jazbec, 2006. Netopir, potrebuješ pomoč? (Varstvo dvoživk in netopirjev v regiji Alpe-Jadran, INTERREG IIIA Slovenija-Avstrija). Center za kartografijo favne in flore, Miklavž na Dravskem polju. 6 str. [zhibanka].) ( <a href="http://www.sdpvn-drustvo.si/FOTKE/PROJEKTI/Publikacije/zlozenka_netopir_06.pdf">http://www.sdpvn-drustvo.si/FOTKE/PROJEKTI/Publikacije/zlozenka_netopir_06.pdf</a> )  Page of Administration of the Republic of Slovenia for Food Safety, Veterinary Sector and Plant Protection gives: - Information leaflet: "Bat, do you really have rabies?" (Presetnik, P., M. Podgorelec & J. Maurer Wernig, 2011. Netopir, imaš res steklino?. Veterinarska uprava Republike Slovenije, Ministrstvo za kmetijstvo, gozdarstvo in prehrano, Republika Slovenija [zhibanka] ( <a href="http://www.mizs.gov.si/fileadmin/mizs.gov.si/pageuploads/Obvestila/OS/Cepljenje_lisic_steklina_6_10_11_p3.pdf">http://www.mizs.gov.si/fileadmin/mizs.gov.si/pageuploads/Obvestila/OS/Cepljenje_lisic_steklina_6_10_11_p3.pdf</a> )  Page of Slovenian Environment Agency – page about Widelfare shelter ( <a href="http://www.arso.gov.si/narava/%C5%BEivali/zato%C4%8Di%C5%A1%C4%8De/">http://www.arso.gov.si/narava/%C5%BEivali/zato%C4%8Di%C5%A1%C4%8De/</a> )
<b>Switzerland</b>	<a href="http://www.fledermausschutz.ch">www.fledermausschutz.ch</a>
<b>the United Kingdom</b>	<a href="http://www.bats.org.uk/pages/batcare.html">http://www.bats.org.uk/pages/batcare.html</a>  There is also a national bat care forum for all those involved in bat care. This forum works by email, so you send an email to the group by using the <a href="mailto:UKbatcare@yahoogroups.co.uk">UKbatcare@yahoogroups.co.uk</a> address – and receive any messages directly to your allocated email address on an individual basis, or summarised in a daily or weekly digest. If you would like to join, please email Heidi at <a href="mailto:Heidi@wildlifeawareness.co.uk">Heidi@wildlifeawareness.co.uk</a> and she will send you an invitation. Please include details of your involvement with bat care in



the email and type Ukbacare in the email subject box if you can to make it more easily recognisable for Heidi.

There is also a Facebook Group: <http://www.facebook.com/#!/groups/batcare/>.

**Ukraine**

Information concerning actions with bats needed rehabilitation may be found at:

<http://kazhan.org.ua>

<http://www.bat-kharkov.in.ua/>

## Annex 1. The questionnaire

### IWG14 – Bat Rehabilitation: Questionnaire

Country	
Completed by	
Organisation	
Contact details	
Date	

*Bat rehabilitation is temporary caring for bats which lost their roosts, or were injured or orphaned, following to release them back into the wild. Please, forward the questionnaire to responsible bat-rehabilitation workers in your country.*

\* Circle what is applicable.

### General

#### 1) Who is rehabilitating bats in your country? Approximate number?

a) Persons	Y/N*	n =
b) NGOs	Y/N*	n =
c) Governmental organizations	Y/N*	n =
d) Others	Y/N*	n =
e) Nobody	Y/N*	

If others, please, specify:

\_\_\_\_\_

#### 2) Who is funding bat rehabilitation in your country?

a) Governmental bodies	Y/N*
b) Local authorities	Y/N*
c) NGOs / funds	Y/N*
d) Private contributors	Y/N*
e) Others	Y/N*
e) Nobody	Y/N*

If others, please, specify:

\_\_\_\_\_

#### 3) Are there any regulations for bat rehabilitation in your country?

Y/N\*

If yes, please, give details:

\_\_\_\_\_

#### 4) Do bat rehabilitation centres (or people) in your country co-operate with each other? Y/N\*

If yes,

a) Bat rehabilitation centres (or people) co-operate closely	X*
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b) Bat rehabilitation centres (or people) co-operate more or less	X*
c) Only some bat rehabilitation centres (or people) co-operate	X*
d) Bat rehabilitation centres (or people) don't co-operate	X*

5) Are there summarizing descriptions of bat rehabilitation systems in your country? Y/N\*

If yes, please give references to the summarizing publications:

\_\_\_\_\_

6) Are there databases for bat rehabilitation records available? Y/N\*

If yes,

a) All bat rehabilitation records are inserted in a national database	X
b) Each rehabilitation centre (or person) has its own database, available for sharing	X
c) Each rehabilitation centre (or person) has its own database, but they do not share data	X
d) Only a few rehabilitation centres (or persons) record received bats	X
e) Others	X

If others, please, specify: \_\_\_\_\_

## Rehabilitation for conservation of bat populations and their roosts

7) Can you estimate the number of received and released rehabilitated bats per year in your country? Y/N\*

If yes, please, give approximate numbers: \_\_\_\_\_

If available, please, give references to the summarizing publications: \_\_\_\_\_

8) What species are mostly rehabilitated? In what numbers (per year)?

a) <i>Nyctalus noctula</i>	1-10 / 10-100 / 100-1000/ >1000 ind.*
b) <i>Vespertilio murinus</i>	1-10 / 10-100 / 100-1000/ >1000 ind.*
c) <i>Pipistrellus pipistrellus</i>	1-10 / 10-100 / 100-1000/ >1000 ind.*
d) <i>Pipistrellus pygmaeus</i>	1-10 / 10-100 / 100-1000/ >1000 ind.*
e) <i>Pipistrellus nathusii</i>	1-10 / 10-100 / 100-1000/ >1000 ind.*
f) <i>Eptesicus serotinus</i>	1-10 / 10-100 / 100-1000/ >1000 ind.*
g) Others	1-10 / 10-100 / 100-1000/ >1000 ind.*

If others, please, specify: \_\_\_\_\_

If available, please, give references to the summarizing publications: \_\_\_\_\_

**9) Which bats are mostly rehabilitated (choose max 4 points)?**

a) Extracted during renovation works in buildings	X*
b) Single bats in rooms	X*
c) Seasonal mass invasions of tens/hundreds of bats in rooms	X*
d) Caught by cats/dogs	X*
e) Grounded adult specimens	X*
f) Found in felled trees	X*
g) Orphaned juveniles	X*
h) Others	X*

If others, please, specify: \_\_\_\_\_

**10) Are bat rehabilitation records used to rescue / monitor colonies or to prevent demolishing of roosts during renovation and insulation works? Y/N\***

**Rehab data and rehab bats for scientific purposes**

**11) Are bat rehabilitation records used for collecting additional faunistic data (new localities, occurrence of species, etc, etc, )? Y/N\***

If published, please give references:

\_\_\_\_\_

**12) Are dead animals used for virological, morphological, parasitological, histological etc. research? Or for museum collections? Y/N\***

If yes,

a) All died bats are stored in a freezer for further research* / museums*	X*
b) Dead bat bodies are occasionally utilised	X*
c) Others	X*

If others, please, specify:

\_\_\_\_\_

**13) Do you have national regulations concerning the use of dead animals for different purposes? Y/N\***

If yes, please, specify:

\_\_\_\_\_

**Rehabilitated bats for public education**

**14) Are bats under rehabilitation used for public education during bat events in your country? Y/N\***

**15) Are healthy wild bats used for public education during bat events in your country? Y/N\***

**16) Are there any regulations and restrictions for using (rehabilitated) bats during bat events in your country?**

**Y/N\***

If yes, please, specify:

\_\_\_\_\_

If available, please, give references to the summarizing publications:

\_\_\_\_\_

**17) What bat species are used during bat events?**

Please, specify:

\_\_\_\_\_

**18) During bat events, in your country, visitors can:**

a) See bats in hands of bat-workers	X*
b) See bats only in a box	X*
c) Touch bats by hands in gloves	X*
d) Touch bats by hands without gloves	X*

**19) Who is authorized in your country to euthanize bats of which their clinical situation avoids further successful rehabilitation?**

Please, specify: \_\_\_\_\_

### **Rehabilitation itself: exchange of experience**

**20) Do you have any manuals or guidelines in your country in national language(s)?** **Y/N\***

If yes, please, give reference, if possible with an on-line link.

\_\_\_\_\_

**21) Please point few names and contacts of experts involved in bat rehabilitation in your country.**

<b>Name</b>	<b>Country</b>	<b>City</b>	<b>Organisation</b>	<b>E-mail</b>

**22) Please give references to main bat rehabilitation web-sites, if available:**

\_\_\_\_\_

## Annex 2. List of experts filled the questionnaire

<i>Country</i>	<i>Name</i>	<i>Institution</i>
Albania	Philippe Théou, Ferdinand Bego	Univerity of Tirana
Belarus	Aliaksei Shpak	State Scientific and Production Amalgamation «Scientific and Practical Center for Bioresources», NAS of Belarus
Belgium	Nico Verwimp	Agency for Nature and Forests
Bosnia & Herzegowina	Jasminko Mulaomerovic	Center for Karst and Speleology
Bulgaria	Boyan Petrov	Bat Research & Conservation Centre, National Museum of Natural History, Sofia
Estonia	Triinu Tõrv	NGO Suurkorv
Croatia	Zrinka Domazetović, Daniela Hamidović	Ministry of Environmental and Nature Protection and State Institute for Nature Protection
Czech Republic	Helena Jahelková	Charles University, Prague
France	Laurent Arthur	Muséum d'histoire naturelle de Bourges
Georgia	Ioseb Natradze	Field Researchers` Union – CAMPESTER; Institute of Zoology of Ilia State Univesity
Hungary	Zoltán Bihari	Nature Foundation
Ireland	Ferdia Marnell	National Parks & Wildlife Service
Italy	Danilo Russo (in cooperation with rehab experts: G. Dondini, M.T. Serangeli, A. Tomassini)	Università degli Studi di Napoli Federico II – Ministry for the Environment and the Protection of Land and Sea
Latvia	Gunārs Pētersons	Latvia University of Agriculture
Macedonia	Nikola Micevski	Bat Study Group Macedonia
Norway	Jeroen van der Kooij, Per Ole Syvertsen (NZF), Øystein Størkersen (Env. Agency)	Norwegian Zoological Society (NZF)
Portugal – Azores	Emanuel Veríssimo, Carla Silva	Regional do Ambiente / Direção de Serviços da Conservação da Natureza e Sensibilização zmbiental
Portugal – Madeira	Sérgio Teixeira	Madeira Fauna & Flora, Direção
Portugal – mainland	Luísa Rodrigues	Instituto da Conservação da Natureza e das Florestas (ICNF)
Republic of Moldova	Andrei Ursache	Ministry of Environment
Russia	Suren Gazaryan	Russian Bat Research Group
Romania	Abigel Szodoray-Paradi	Romanian Bat Protection Association
San Marino	Dino Scaravelli	Centro Naturalistico Sammarinese
Serbia	Branko Karapandža	Wildlife Conservation Society "Mustela"
Slovenia	Primož Presetnik	Centre for Cartography of Fauna and Flora
Switzerland	Hans-Peter B. Stutz	Bat Conservation Switzerland
Ukraine	Lena Godlevska, Alona Prylutska	Institute of Zoology, NAS; Bat Rehabilitation Center Feldman Ecopark
the United Kingdom	Jess Barker: BCT UK Bat Care Co-ordinator	Bat Conservation Trust