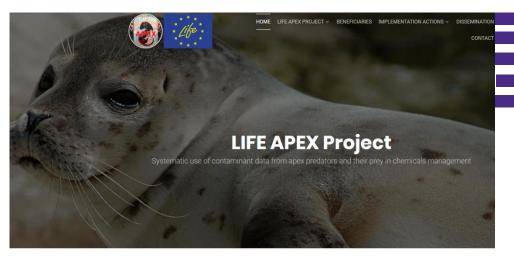
NEWSLETTER LIFE APEX



ISSUE NO. 2 | MAY 2019

PROGRESS REPORT OF LIFE APEX





www.lifeapex.eu

Telegram

- LIFE APEX organises the development and maintenance of various webbased databases for the collection & evaluation of data/information on emerging substances in top predators and their prey:
 - Sample Catalogue
 - Chemical Occurrence Data Base
 - Suspect List Exchange
 - Digital Sample Freezing Platform

Draft guidance has been established for shipping samples, which are subject to EU regulations on CITES and biologically hazardous materials

- 65 samples have been received by the University of Athens, where they have been lyophilized and distributed to the LIFE APEX laboratories
- First results will be presented at SETAC EU in Helsinki, the International Conference on Environmental Specimen Banks in Stockholm and at the LIFE APEX Regulatory Advisory Board meeting in Berlin.

TOPIC 01

LIFE APEX Webpage andDatabases

Issued Questionnaires

TOPIC 02

Samples received for chemical analysis in B4 Tier 1

TOPIC 03

Meeting of the Project Steering Committee and the Regulatory Advisory Board in Berlin, June 2019

LIFE APEX project meeting, October 2019

01: LIFE APEX WEBPAGE

The LIFE APEX website is online and provides: project information • information on upcoming events • dissemination documents • information about apex predators(A) • LIFE APEX databases (B) • an overview of planned and accomplished • actions (C) CURRENT STATUS Suspect List Exchange A list of LIFE APEX substances: Central Database to access various lists of substances for su LIFE APEX Sample Catalogue A database of biota samples stored in the National History Museums and Environmental Specimen Banks in Europe LIFE APEX Chemical Occurrence Data A database of geo-referenced monitoring data on emerging substances in biota.

В

Digital Sample Freezing Platform

A database of mass chromatograms obtained by LC-HR-MS for retrospective screening of environmental samples.

DISCOVER APEX PREDATORS



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В	I'S PROJECT DELIVERABLE PRODUCTS		
	NAME	DEADLINE	STATUS
1	Updated R&T Plan	08/2020	
2	R&T Plan	02/2019	DONE
3	List of potential R&T Partners and areas of interest	09/2018	DONE
4	Updated R&T Plan	08/2021	
5	R&T Partner resources & capacities questionnaire responses	08/2019	
6	Updated R&T Plan	08/2019	
B	1's PROJECT MILESTONES		
	NAME	DEADLINE	STATUS
1	R&T Workshop convened	12/2018	DONE
2	R&T Partners contacted	10/2018	DONE
3	Resources and capacities questionnaire issued	02/2019	DONE

01: LIFE APEX DATABASES

Suspect list exchange:

Uses substance lists of the NORMAN network. For example, ECHA has provided a list of 40,000 registered substances, which will be used in LIFE APEX

LIFE APEX sample catalogue (see below):

Lists samples of environmental specimen banks, research collections and natural history museums that are available for biomonitoring

LIFE APEX chemical occurrence data:

Collects analytical results for biota samples from various monitoring programs

Digital Sample Freezing Platform:

Collects chromatorgrams of the LIFE APEX samples

Show 200 x entries														
	ID	Title	Country of origin	Species Common name	Species Latin name	Habitat type	Sample type	Start date	End date	Lineage	Physical state	Number of samples	Archive location - village/town/city	Archive location -
T Reset														
Q	2	Veterinary examination and tissue archive for birds of prey found dead within Germany	Germany	White tailed eagle	Haliaeetus albicilla	Other (not on list)	Various	1992	ongoing	Passive and targeted collection	Frozen (-20oC)	<10,000	Berlin	Germany
Q	5	German Environmental Specimen Bank	Germany	Eelpout (filet)	Zoarces viviparus	Marine	Filet	1993	ongoing	Targeted collection	Frozen (Liquid nitrogen gas phase, < -150°C)	<100,000		
Q	1	Veterinary examination and tissue archive for birds of prey found dead within Germany	Germany	Common buzzard	Buteo buteo	Terrestrial	Various	1999	ongoing	Passive and targeted collection	Frozen (-20oC)	<1,000	Berlin	Germany
Q	3	Naturalis Biomonitoring Collection	Netherlands	Common buzzard	Buteo buteo	Terrestrial	Tissue - liver	2018	ongoing	Passive collection	Frozen (-20oC)	<1,000	Leiden	The Netherlands
Q	4	Predatory Bird Monitoring Scheme (PBMS)	United Kingdom (UK)	Barn owl	Tyto alba	Terrestrial	Tissue - liver	1960	ongoing	Passive collection	Frozen (-20oC)	<100,000	Lancaster	United Kingdom (UK)

01:QUESTIONNAIRES

Questionnaire on existing quality assurance for sample, processing and archiving of biota samples

- Issued by Fraunhofer IME to environmental specimen banks, research collections and natural history museums
- Answers are currently evaluated

Questionnaire on the use of chemical monitoring data in support of chemicals regulation

Issued by UBA to institutions involved in chemicals regulations



Questionnaire on the use of chemical monitoring data in support of chemicals regulations

of the successformable is to get an exercise and a regulatory perspective an in-convert use of elemental monitoring data specification in an exercise, assumed and an any of the matrix in a linear specification with the solution and the an ended the constraint of particular is a second and the solution in the solution and the solution of the matrix and the solution is served protontials. Intervences and contrast are of elemental interfairing state.



02: SAMPLE ANALYSIS TIER 1 (+++ONGOING+++)

United Kingdom	Germany	
Predator (liver)	Predator (liver)	
 Harbour porpoise (5/5) Common buzzard (5/5) Eurasian otter (5/5) 	 Harbour seal (4/5) Common buzzard (5/5) Eurasian otter (5/5) 	1-O(L)-NL(2)-18 50(L)-NL(2)-18 1-O(L)-NL(2)-18 1-O(L)-NL(2)-19 LIFE APE 32 32 32 LIFE APEX 32 LIFE APEX 32 32
Prey (filet):	Prey (filet):	EI NKUA Fh-IME UNIFI
Roach (5/5)Eelpout/marine fish (0/5)	 Bream (5/5) Eelpout (3/5) 	
The Netherlands	Nordic region (Sweden)	LIFE APEX Project
The Netherlands Predator (liver)	Nordic region (Sweden) Predator (liver)	LIFE APEX Project
		LIFE APEX Project
 Predator (liver) Harbour seal (2/5) Common buzzard (2/5) 	 Predator (liver) Harbour seal (4), Grey seal (1) Common Buzzard (0/5) 	LIFE APEX Project

→ 65 Samples have been lyophilised and distributed

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02: WORKING STEPS FOR E	ACH SAMPLE				
Lyophilisation and sample distribution among labs:		Target analysis (legacy POPs e.g.:	THE REAL PROPERTY OF THE REAL		
Wide-scope target screening (> 2500 chemicals), suspect and non-target		PCBs, BDEs, HCB)			
screening by LC-QTOFMS and GC- APCI-QTOFMS	University of Athens (NKUA)		University of Firenze (UNIFI)		
Wide-scope Suspect Screening by DSFP	IN NENTAL INSTITU	Target analysis(Hg)	Fraunhofer		
Non-target screening by GC-MS (EI/PCI/NCI modes)	ONINA				
Target analysis of dioxins and dioxin-like compounds, chlorinated alkanes, novel organophosporous flame retardants and Declorane Plus	Environmental Institute (EI)		Fraunhofer IME (Fh-IME)		

03: REGULATORY ADIVISORY BOARD	MEETING, JUNE 2019
Meeting of the Project Steering Committee and the Regulatory Advisory board (RAB) When? 11th of June 2019 from 10-14h (CET) Where? German Environment Agency, Berlin.	 Purpose of the Meeting: Updating RAB on the progress of LIFE APEX +++Presentation and discussion of first results+++ How can LIFE APEX include scientific and regulatory advice from RAB? How can LIFE APEX and RAB promote the use of chemical data of wildlife biota in research and regulation?
03: PROJECT MEETING, OCTOBER 20	19
LIFE APEX project meeting	Purpose of the Meeting:
When?	Presentation and discussion of analytical results
01.1004.10.2019	 Discussion of progress within LIFE APEX and upcoming tasks within the project
Where?	 Planning B4 Tier3 analysis
Florence, Italy	

03: MEMBERS OF THE REGULATORY ADVISORY BOARD

Name	Institution	Responsibility
Henna Piha	ECHA Classification and Prioritisation Unit European Chemicals Agency	Scientific officer
Stephanie Bopp	European Commission Directorate General Joint Research Centre Directorate F – Health, Consumers and Reference Materials F.3 - Chemical Safety and Alternative Methods Unit	Scientific officer
Sylvain Bintein	European Commission Environment DG Unit B2: Sustainable Chemicals	REACH and CLP Team leader
Morten Jartun	NIVA Norwegian Institute for Water Research (NIVA)	Project manager of the Norwegian ESB
Björn Hidding	BASF BASF SE , RB/TC - Z57	Scientific officer PBT EG representative for CEFIC
Dirk Bunke	Öko-Institut e.V. Institut für angewandte Ökologie	NGO representative in PBT EG
Stylianos Kephalopoulos	European Commission Directorate General Joint Research Centre Directorate F - Health, Consumers and Reference Materials. F.7 - Knowledge for Health and Consumer Safety Unit	Co-ordinator of the IPCHEM project
Joop de Knecht	National Institute for Public Health and Environment (RIVM) Centre for Safety of Substances and Products (VSP)	Senior policy advisor/MSC member
José Tarazona	EFSA Pesticide Unit European Food Safety Authority	Head of Pesticide Unit

Organisation of Life Apex

Project Partners

NNAL INSTITUT	Umwelt 🎧 Bundesamt	Naturalis Biodiversity Center	
Environmental Institute	German Environment Agency	Naturalis Biodiversitiy Center	National and Kapodistrian University of Athens
Fraunhofer	CERT Centre Ecology	THE REAL PROPERTY AND A DECEMBER OF THE REAL PROPERTY AND A DECEMB	
Fraunhofer Institute for Molecular Biology and Applied Ecology IME	Natural En Research	Università degli Studi di Firenze	

IMPRINT

Project Coordinator

Jaroslav Slobodnik is the director of Environmental Institute. Among his specialisations are environmental

science-to-policy interactions, development of monitoring strategies and environmental analytical chemistry. He is frequently responsible for the design of environmental information and data management systems

Project Manager

Natalia Glowacka is the project manager of LIFE APEX. She got her PhD degree in environmental management.



She has more than five years experience in the field of administration and management of national and international environmental projects in Environmental Institute.

Newsletter Editor

Alexander Badry is an early career researcher in the field of environmental toxicology. He is



working as research assistant at the German Environment Agency and is doing his Doctorate at the Leibniz Institute for Zoo and Wildlife Research on contaminants in birds of prey.