



# UPDATE ON ACTION PLANS IMPLEMENTATION

## LINDANET

JULY 2022

LINDANET: EUROPEAN NETWORK OF REGIONS AFFECTED BY LINDANE  
RESIDUES WORKING TOGETHER TOWARDS A GREENER ENVIRONMENT

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## LP1\_ACTION PLAN ARAGON GOVERNMENT

### ARAGON REGION

#### **ACTION 1: Redesign of the HCH website: [www.stoplindano.es](http://www.stoplindano.es) .**

GENERAL IMPLEMENTATION STATUS: Ongoing action. Implementation started in May 2022.

TITLE AND DATE OF CONTRACTS: Action developed by an external assistance, following the public procurement rules. Name of contract: "Service for the design of the new website stoplindano and generation of a documentary database".

MEETINGS: Internal meetings for contract coordination and monitoring.

PROBLEMS AND SOLUTIONS: There were no problems so far.

DELAYS: There is no delay in the implementation of Action 1.

#### **ACTION 2: Study of the forest mass of the former Bailín landfill site.**

GENERAL IMPLEMENTATION STATUS: Ongoing action. Implementation started in May 2022.

TITLE AND DATE OF CONTRACTS: Action developed by an external assistance, following the public procurement rules. Name of contract: "Elaboration of the Self-protection Plan for forest fire risks of the facilities of the Government of Aragon in Bailín, Sabiñánigo (Huesca) for the management and decontamination of the areas affected by lindane."

MEETINGS: Internal meetings for contract coordination and monitoring.

PROBLEMS AND SOLUTIONS: There were no problems so far.

DELAYS: There is no delay in the implementation of Action 2.

#### **ACTION 3: ACTION 3: Health and safety application, for automatic control of PPE (Personal Protective Equipment) and health surveillance.**

GENERAL IMPLEMENTATION STATUS: Ongoing action. Implementation started in August 2022.

TITLE AND DATE OF CONTRACTS: Action developed by an external assistance, following the public procurement rules. Name of contract: "Service for the elaboration of an application (APP for mobile devices for the management of the Health and Safety".

MEETINGS: Internal meetings for contract coordination and monitoring.

PROBLEMS AND SOLUTIONS: The public procurement was launched twice. The first call for tenders was published in March 2022 and declared void. The second call for tenders received one eligible bid being awarded to the bidder.

DELAYS: A small delay happened as a consequence of the void tender procurement.

#### **ACTION 4: ACTION 4: Creation of a documentary collection on HCH, to be housed in the Pirenum's "POPs Reference Centre".**

GENERAL IMPLEMENTATION STATUS: Implementation is foreseen to start in September 2022.

TITLE AND DATE OF CONTRACTS: Action developed by an external assistance, following the public procurement rules. The tender procurement was launched in July 2022 and awarded in



August 2022. Name of contract: “adaptation at the Pirenarium laboratory of Persistent Organic Pollutants (POPs) in Sabiñánigo (Huesca) for the creation of a documentary room”.

MEETINGS: No meetings were necessary phase of Action 4 so far.

PROBLEMS AND SOLUTIONS: There were no problems so far.

DELAYS: no delays are foreseen.

## PP2\_ACTION PLAN GALICIA

### GALICIA REGION

#### ACTION 1: “An Improved governance Structure for Lindane Management in Galicia”

GENERAL IMPLEMENTATION STATUS: This action has already been implemented. Initially, the administrations involved in the problem of lindane contamination in the region were identified according to their competences. Contact has been established with each of the administrations involved to find out their interest and invite them to participate in the institutional committee. The first meeting for the constitution of this committee has been held and the means of communication between the different members have been established.

In addition, work is being carried out on the implementation of the actions "A transparency policy on the communication (top-down and bottom-up) of Lindane polluted spots and their risks", "Early warning and action protocol in cases of lindane residues detection" and "Periodic monitoring of the Security Cell of Torneiros", which support action 1.

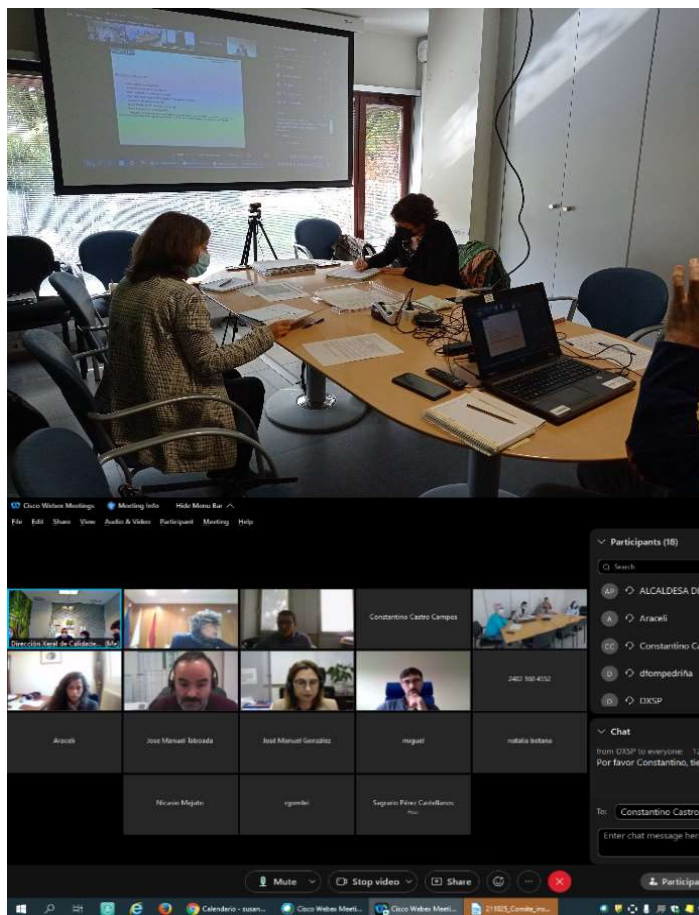
TITLE AND DATE OF CONTRACTS: Not applicable

MEETINGS: The first meeting took place on 25 October 2021 with a total of 25 participants from the following administrations:

- D.X. De Calidade Ambiental, Sostibilidade e Cambio Climático
- D.X. Saúde Pública
- Xefatura Territorial de Sanidade
- Xefatura Territorial de Medio Ambiente
- S.X. Explotacións agrarias
- IGVS
- Concello de O Porriño
- Consorcio de Augas do Louro
- Confederación Hidrográfica do Miño Sil
- Subdelegación do Goberno en Pontevedra)
- Audasa

In this first meeting, the problem of lindane contamination in the region and the need for the creation of the institutional committee to coordinate the measures to be taken by each of the administrations within their competences were presented. A presentation was made on the LINDANET Project and the design of the Action Plan for the region. The progress of the latest research carried out in the area was also presented and the vision of the problem from the point of view of the different organizations was shared. Channels were established for the exchange of information between the members of the committee and it was agreed to hold regular meetings and to create a working group and a Collaboration Agreement.





Work is being carried out on the drafting of a decontamination project for an area affected by lindane contamination, in which several administrations are involved, and a meeting of the Institutional Committee is scheduled to be held in the near future to present and coordinate the project's actions.

**PROBLEMS AND SOLUTIONS:** One of the administrations involved in the problem has shown no interest in the participation of the Institutional Committee and will therefore be kept informed of the proceedings outside the Institutional Committee.

**DELAYS:** Not applicable

## PP3\_ACTION PLAN RERA

### SOUTH BOHEMIAN REGION

#### ACTION 1: INCREASING CAPACITY AND PROFESSIONAL KNOWLEDGE OF INVOLVED STAFF

**GENERAL IMPLEMENTATION STATUS:** ongoing preparations

**TITLE AND DATE OF CONTRACTS:** n/a

**MEETINGS:** Stakeholders Group Meeting – physical meeting in Ceske Budejovice:

- Theme: Implementation of the Regional Action Plan,
- Date: 21. 4. 2022,
- Attendees: 9 participants (including 2 from RERA):
  - Regional Authority of South Bohemia,

- Union of Towns and Municipalities of South Bohemian Region,
- South Bohemian Chamber of Commerce,
- South Bohemian Chamber of Agriculture.
- Main issues addressed: Implementation of the Regional Action Plan.

PROBLEMS AND SOLUTIONS: delay in implementation due to key stakeholders – Regional Authority of South Bohemia and Regional Authority of Pilsen Region.

DELAYS: delay in length of few months, implementation timeline have been modified and all activities should be implemented within the timeframe of Phase 2.

## PP5\_ACTION PLAN SAXONY-ANHALT

### SAXONY-ANHALT REGION

#### A. ACTION 1: Next Steps on the way to an integral Mulde Floodplain Management

GENERAL IMPLEMENTATION STATUS: As planned in the course of the timeline of Action 1, the tender documents for the engineering support were developed in the first quarter of 2022 thus the tender could be published 26<sup>th</sup> April 2022. The deadline for submission of tenders was set to 30<sup>th</sup> May 2022. Three tenders were received and are currently being evaluated. An award of the best tender is expected in the beginning of July.

TITLE AND DATE OF CONTRACTS: The contract will be awarded in July 2022.

MEETINGS: No meetings were necessary in this phase of Action 1. The first meeting will be the kick off meeting in July.

PROBLEMS AND SOLUTIONS: There were no problems so far.

DELAYS: There is no delay in the implementation of Action 1.

#### ACTION 2: Establishment of 3 committees for ensuring the long-term goal: The joint development of an integral Mulde Floodplain Management

GENERAL IMPLEMENTATION STATUS: The 3 committees have been established in the first quarter of 2022. They are based on the stakeholder network that was established during phase 1 of Lindanet. In the course of the project “HCH in EU” a concept was developed to gather missing information about the state of the Mulde floodplain. The concept was distributed amongst the participants of the 3 committees and feedback was gathered and ultimately in cooperated into the tender documents of Action 1.

TITLE AND DATE OF CONTRACTS: There are no contracts necessary for the implementation of Action 2.

MEETINGS: So far there were no meetings. The exchange as mentioned above was via Email. However, there will be a kick off meeting in the course of Action 1 and the committees will participate to gather valuable input.

PROBLEMS AND SOLUTIONS: So far there were no problems. However, Action 1 was prioritized in the beginning of phase 2 and there will be at least two meetings of the committees in the second half of 2022 to discuss the following topics:

- Kick off meeting Action 1
- Biogas in the Mulde floodplain and possible Pilot Action
- First draft of the HCH-report (Action 3)

DELAYS: There are no delays.



### **ACTION 3: Preparation of a technical report on the Lindane heritage of the Bitterfeld-Wolfen region**

GENERAL IMPLEMENTATION STATUS: The following chapters were written:

- The pesticide HCH
- Production of HCH in Bitterfeld-Wolfen and its introduction into the environment
- How was the problem addressed after the reunification DDR and GDR in 1990
- Summary of remediations that took place so far
- Groundwater remediation in Bitterfeld
- Measures in the Mulde floodplain
  - o Control of fodder
  - o HCH research in the Mulde floodplain of the UFZ
    - Dynamics of HCH in the Mulde
    - HCH degradation through isotope fractionation
  - o Soil investigations of the LAU
  - o European collaboration
    - LINDANET
    - HCH in EU
- Current state of the integrated floodplain management

Still work in progress are the following chapters:

- HCH degradation via biogas plants
- Outlook
- Some chapters of specific remediation practices that were undertaken in Bitterfeld-Wolfen

TITLE AND DATE OF CONTRACTS: No contracts are required for the implementation.

MEETINGS: There were no meetings. Collaboration took place via email.

PROBLEMS AND SOLUTIONS: There were no major problems.

DELAYS: There are no delays.

## **PP5\_ACTION PLAN FOR THE REGION OF ŚLĄSKIE VOIVODESHIP**

### **SILESIA REGION**

#### **ACTION 1: Establishing the regional task-force group for solving the HCH problem at Wąwolnica Valley in Jaworzno**

GENERAL IMPLEMENTATION STATUS: The meetings of regional task-force group for solving the HCH problem at Wąwolnica Valley in Jaworzno are carried out within the framework of the Action Plan for the Silesian Voivodeship.

The first meeting of the regional task-force group for solving the HCH problem at Wąwolnica Valley in Jaworzno was held on the 30th of March 2022. The lindane production in the Jaworzno had been performed predominantly from 1965 till 1982. For years, hazardous waste was deposited at the Rudna Góra Central Landfill and in the surrounding areas. It is estimated that over 200 000 ton of hazardous waste, including a minimum of 31 300 ton of HCH waste, are deposited in the Wąwolnica stream Valley.

During the meeting, the regional task-force group for solving the HCH problem at Wąwolnica



Valley in Jaworzno was established and the platform for information exchange was created. As part of the work, the ownership structure of the contaminated land in the Wąwolnica stream valley in Jaworzno will be analysed and plots necessary for conversion within the framework of the law on large degraded areas will be proposed.

TITLE AND DATE OF CONTRACTS: No

MEETINGS: Meeting of regional task-force group for solving the HCH problem at Wąwolnica Valley in Jaworzno on 30/03/2022, on-line meeting, MsTeams

The state of play of the cooperation team on the act on large degraded areas; the current structure of the lindane contamination problem in the Wąwolnica stream valley in Jaworzno, at the site of the hazardous waste landfill of the "Organika-Azot" Chemical Plant S.A.; discussion on current and target ownership structure in the light of the new Act

n° attendees & organizations: 15 attendees from: Municipal Office in Jaworzno, Institute of Ecology of Industrial Areas, Regional Directorate for Environmental Protection, Provincial Inspectorate for Environmental Protection, Marshal's Office of the Silesian Province

PROBLEMS AND SOLUTIONS:

The next meeting of the regional task-force group for solving the HCH problem at Wąwolnica Valley in Jaworzno will take place in September 2022.

DELAYS: No

## PP6\_ACTION PLAN INCREASED KNOWLEDGE BY THE STUDY ON THE ABSORPTION OF HCH BY FRUIT CROPS IN POLLUTED AREAS

### LAZIO REGION

#### ACTION 1: Study on the absorption of HCH by fruit crops in polluted areas

The AP addresses the policy instrument: Characterization Plan of riparian agricultural areas (derived from the former Regional Monitoring Plan on Chemical Residuals)

GENERAL IMPLEMENTATION STATUS: Activities planned and status of implementation

0. Request to the Region for general endorsement = DONE
1. Study of some small territories in order to choose the most apt for cultivation of small vegetable gardens on the basis of the demonstrated contamination of soil, collaboration of farmer, practical feasibility = DONE
2. Selection of at least 1 vegetable garden = DONE
3. Communication to the Master of the Municipality where the garden is located = DONE
4. Writing of an experimental protocol for cultivation of vegetables for the aforementioned research = DONE
5. Contract with owner = DONE
6. Periodic collection of grown vegetables: at least three species of vegetables cultivated and sampled in representative numbers: TO DO
7. Laboratory tests for HCH isomers (where soil contamination data are missing, analyzes of the soils will be performed): TO DO
8. Report to the Region and to Lindanet partnership of the experiment results: TO DO

TITLE AND DATE OF CONTRACTS: Contratto tra "Istituto Zooprofilattico Sperimentale del Lazio e della Toscana – M.Aleandri" e l'azienda agricola "Alessio Marchioni" Via dei Pesi 4, Morolo (Frosinone), CF MRCLSS77E17C810A

Date: 01/04/2022





MEETINGS:

- 1) ITW5 /November 23-24<sup>th</sup>/15 attendees from 6 PP/Action plan presentations
- 2) Action plan organization/February 2<sup>nd</sup>-3<sup>rd</sup>/2 from IZS – 2 from SARGA/The Project leaders gave some suggestions on how to revise the Action plan not immediately approved by the JS
- 3) Policy instrument/February 16<sup>th</sup>/2 from IZS-2 from Lazio Region/updates on the new Policy instrument activation
- 4) Partners meeting march 16<sup>th</sup>

PROBLEMS AND SOLUTIONS: We have chosen two fields as ideal candidates for experimental gardens. At the moment to subscribe the contract, one of the owners retrieved himself, so, at the moment, we are collaborating with just one farmer. We are still evaluating the opportunity to search for another field/farmer.