

REPORT OF THE FINAL EVENT

DEFINITION OF THE
CONDITIONS FOR
TRANSFERABILITY OF THE
COLEOPTER APPROACH,
CAPITALISATION AND
DISSEMINATION AT LOCAL,
REGIONAL AND SUDOE

MARCH 2023

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COLEOPTER PROJECT

The COLEOPTER (*Concertation LocalE pour l'Optimisation des Politiques Territoriales pour l'Energie Rurale*) project develops an integrated approach to the energy efficiency of public buildings that links technical, social and economic challenges. COLEOPTER addresses two energy efficiency challenges in buildings: difficulties for rural municipalities to act and carry out work despite the positive local impact (i.e., energy savings and local employment) and a lack of awareness of building challenges, which leads to irrational use of energy/water and low renovation rates.

The COLEOPTER approach has three components:

1. Territorial dialogue with local actors to co-construct work plans of public buildings.
2. Use of Building Information Modelling (BIM) as a collaborative tool to support the dialogue.
3. Consideration of water efficiency issues along with energy challenges to better consider usage.

The approach will be tested on four public buildings, three to be renovated (in Póvoa do Lanhoso, Portugal; Cartagena, Spain; and Creuse, France) and one new building (in Creuse, France). It will be replicated in Escaldes-Engordany (Andorra) to validate its transferability.

The main contributions of the project, namely the COLEOPTER approach and the work conducted on the test sites, will benefit municipalities, citizens and small and medium-sized enterprises (SMEs), leading to better planning of energy efficiency policies and increased public and private renovation rates.

The COLEOPTER project (SOE3/P3/F0951) is financed by the Interreg Sudoe Programme that supports regional development in Southern Europe, financing transnational projects through the European Regional Development Fund. The Programme promotes transnational cooperation to solve common problems in Southern Europe, such as low investment in research and development, weak competitiveness of small and medium-sized enterprises and exposure to climate change and environmental risks.

Project leader	Céline Seince – contact@rurener.eu
Axis 3	Low-carbon economy
Objective 4C1	Improving energy efficiency policies and the use of renewable energy sources in public buildings and housing through the implementation of networks and joint experimentation
Total eligible cost	1 454 944.07 €
ERDF Grant	1 091 208.06 €
Duration	36 months (01/10/2019–30/09/2022)

Partners

RURENER

Agència para a Energia (ADENE)

Asociación Empresarial Centro Tecnológico de la Energía y del Medio Ambiente de la Región de Murcia (CETENMA)

Universitat Politècnica de Catalunya (UPC)

Comunidad intermunicipal do Ave

Ayuntamiento de Cartagena

Municipio da Póvoa de Lanhoso

Syndicat Mixte Ferme est Creuse



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1. INTRODUCTION

The COLEOPTER project examines four case studies in the following Sudoe eligible regions: two in Nouvelle-Aquitaine (France), one in Norte (Portugal) and one in Murcia (Spain). Additionally, the methodology is being replicated in Escaldes-Engordany (Andorra) to validate its transferability.

Figure 1 shows the buildings to be renovated in Póvoa do Lanhoso (Norte, Portugal), Tallante (Murcia, Spain), Chénérailles (Nouvelle-Aquitaine, France) and the new building in Chambon-sur-Voueize (Nouvelle-Aquitaine, France), as well as the building of Escaldes-Engordany (Andorra).

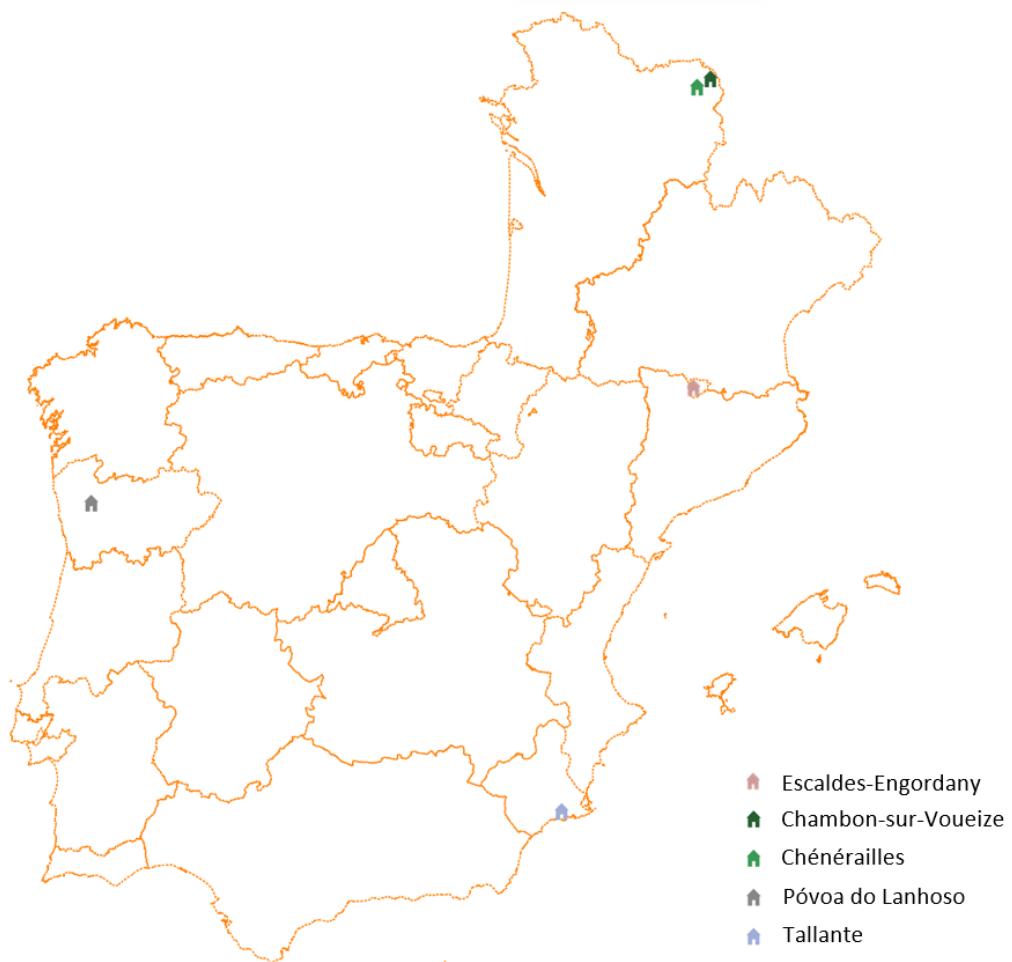


Figure 1. Location of the case studies in the COLEOPTER project

This report describes the final event of the project realized in Escaldes-Engordany (Andorra) from February 6th to 8th, 2023.

The event included the presentation of the main results of the project, a discussion with the local stakeholders involved in the replication case study and the visit of the Prat Gran pavilion, the building used to validate the transferability of the COLEOPTER approach.

The following sections presents a brief description of the activities conducted during the final event. Annex sections includes the final event agenda in Spanish, French and Portuguese.

2. FEBRUARY 6TH, 2023

2.1 INFORMAL VISIT TO THE CITY CENTRE

Located in the heart of the Pyrenees between France and Spain, the principality of Andorra has an approximated population of 80 000 inhabitants and an area of 468 km².

Escaldes-Engordany, the location of the building used to validate the transferability of the COLEOPTER approach, is one of the seven parishes of Andorra. The partners and associates of the project arrived to Escaldes-Engordany in the afternoon. After the accommodation in their hotels and before the dinner, we took a walk around the city centre.

2.2 DINNER

The dinner of the first day was in the *Restaurant 120* in Av. Meritxell (Andorra la Vella).



Figure 2. Dinner of the first day in the Restaurant 120

3. FEBRUARY 7TH, 2023

3.1 MORNING SESSION

In this session, besides the attendance of the members and associates of the project who travelled to Escaldes-Engordany, the general public was also invited to attend. The attendance during all the session was around sixty people.

3.1.1 Welcome addresses

The welcome was conducted by Ms. Rosa Gili (mayor of Escaldes-Engordany), Ms. Sílvia Calvó (minister for the environment of Andorra) and Ms. Aline Brachet (member of the RURENER board).



Figure 3. Ms. Rosa Gili (mayor of Escaldes-Engordany). Source: Comú d'Escaldes-Engordany



Figure 4. Ms. Silvia Calvó (minister for the environment of Andorra). Source: Comú d'Escaldes-Engordany



Figure 5. Ms. Aline Brachet (member of the RURENER board). Source: Comú d'Escaldes-Engordany

3.1.2 The COLEOPTER approach

Ms. Céline Seince, lead of the project, presented one of the main realizations of the project, the COLEOPTER approach.



Figure 6. Ms. Céline Seince presenting the COLEOPTER approach. Source: Comú d'Escaldes-Engordany

3.1.3 The transfer case study: Escaldes-Engordany

Dr. Oriol Traverset presented the case study conducted in the Andorran pilot building, the Prat Gran pavilion. It is the building used to validate the transferability of the COLEOPTER approach.



Figure 7. Dr. Oriol Traverset presenting the transfer case study. Source: Andorra Recerca + Innovació

3.1.4 Closing

The closing of the public session was conducted by Ms. Cèlia Vendrell (councillor for the environment, mobility and urbanism of Escaldes-Engordany) and by Ms. Céline Seince.



Figure 8. Ms. Cèlia Vendrell during the closing of the morning session Source: Comú d'Escaldes-Engordany

3.1.5 Visit to the pilot site in Andorra

After the conferences during the morning, partners and associates of the project visited the pilot site in Andorra, the Prat Gran pavilion.



Figure 9. Visit the the Prat Gran pavilion in Escaldes-Engordany. Source: Comú d'Escaldes-Engordany

The lunch organized in the pavilion was a good time for networking.



Figure 10. Lunch organized in the Prat Gran pavilion. Source: Comú d'Escaldes-Engordany

3.2 AFTERNOON SESSION

3.2.1 Results and outputs of the project

This session included the presentation of the project's outputs: the demonstrators buildings. Each public body presented their demonstrator with the initial/final BIM, photos of the project and demonstrators.

The 1st presentation of this session was conducted by Mr. Antonio Campos from Povoa do Lanhoso.

The 2nd presentation was conducted by Mr. Florian Lougnon from Est Creuse. He explained the pilot sites in Chénérailles and Chambon sur Voueize.

The 3rd presentation was conducted by Ms. Sofia Lorenz from CETENME. She described the pilot site in Tallante (Cartagena).

Tiago was in charge of the last presentation of this session. He presented a comparison analysis emphasizing the similarities and differences in each pillar and in each territory.



Figure 11. Ms. Sofia Lorenz presenting the pilot site in Tallante (Cartagena)

3.2.2 Final assessment: zoom on the three pillars

This session was focused on the three pillars of the COLEOPTER approach, what worked, what didn't work, learning for each pillar.

Mr. Silvino Spencer (Adene) presented the energy-water audit, Ms. Silvia Paredes and Mr. Jorge Serrano (CETENMA) focused on the use of BIM as a collaborative platform and, finally, Ms. Celine Seince (RURENER) and Philipe Barret (Dialter) led a discussion around the territorial dialogue.



Figure 12. Ms. Silvia Paredes and Mr. Jorge Serrano (CETENMA) explaining the use of BIM as a collaborative platform

3.3 CALDES PROJECT AND WATER ROUTE

During the presented working sessions (see Section 3.2), the associates of COLEOPTER attended to the presentation of Caldes project. The aim of this project is to convert the historic area of Escaldes-Engordany into a tourist attraction through an artistic and urbanistic intervention that uses water as an element that generates and shapes the parish.

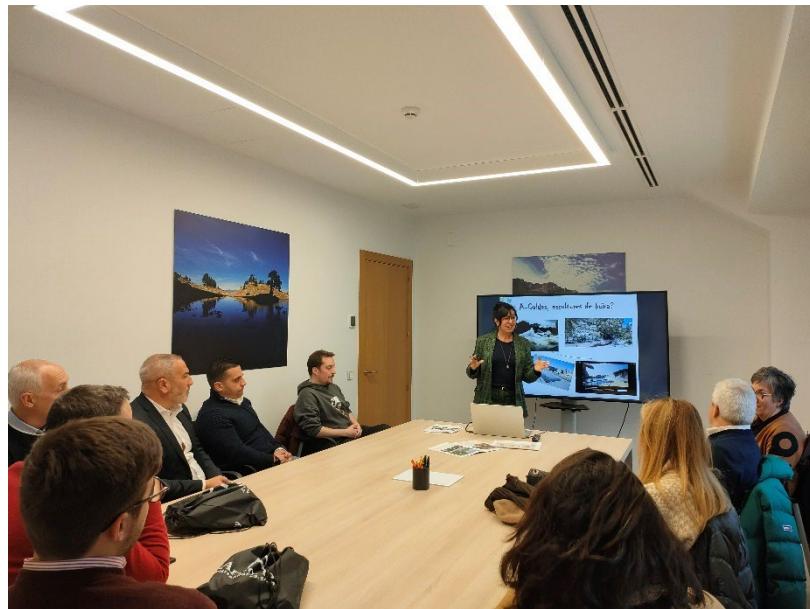


Figure 13. Associates in the Caldes project presentation

To end the first day, the department of culture of the town council gave us a tour around the thermal water of Escaldes-Engordany.

Water has always been an economic and touristic driving force in Escaldes-Engordany. Its use has structured the construction of many buildings with a refined architectural language, built in an exciting moment for Andorran society, especially between the 1950s and 1960s. They are a testimony of the opening, transformation and modernization process undergone by the country.



Figure 14. Tour around the thermal water of Escaldes-Engordany

3.4 OFFICIAL DINNER

The official dinner was held at Borda Can Andreu. It is a Mediterranean and mountain cuisine restaurant located in the old quarter of Andorra la Vella.



Figure 15. Official dinner held at Borda Can Andreu

4. FEBRUARY 8TH, 2023

4.1 SCALING UP THE COLEOPTER APPROACH

The 1st presentation of this session was conducted by Mr. Tiago Vale from CIM do Ave. It was focused on how to support public authorities implementing the COLEOPTER approach.



Figure 16. Mr. Tiago Vale explaining how to support public authorities implementing the approach

Then Dr. Oriol Travesset from UPC presented a compilation of main success factors and barriers of the approach.

4.2 COLEOPTER, WHAT'S NEXT?

What other projects could use the COLEOPTER approach (or parts of it) for the partners communities? What engagement can them take in terms of change of practices? These are some of the questions discussed during this session.

Experiences and inspiration for new projects in Cartagena city council were presented by Ms. Mª Ángeles Ortiz and Mr. Pedro Yepes.



Figure 17. Ms. Mª Ángeles Ortiz and Mr. Pedro Yepes sharing experiences from Cartagena city council

Mr. Sergio Matos from Povoa do Lanhoso presented some future projects inspired in the COLEOPTER approach.

The Future of the COLEOPTER in Est Creuse and CIM do Ave were discusses by Mr. Florian Lougnon and Ms. Marta Coutada, respectively.

Finally, Ms. Céline Seince led the discussion regarding future projects, territorial strategy and collect ideas from all the partners.

4.3 CLOSURE OF THE EVENT

Dr. Martí Rosas from UPC and Ms. Céline Seince from RURENER made the official closing of the event.



Figure 18. Dr. Martí Rosas during the closure of the event

5. IMPACT ON THE LOCAL MEDIA

The links below presented the main publications on the Andorran media related with the COLEOPTER final event:

- AndorraDifusió: El comú escaldenc equiparà amb plaques fotovoltaïques el pavelló del Prat Gran. [Link](#).
- Diari d'Andorra: Escaldes instal·larà plaques fotovoltaïques al pavelló del Prat Gran. [Link](#).
- El Periòdic: Escaldes-Engordany vol posar plaques solars al Prat Gran. [Link](#).
- BonDia: Escaldes-Engordany començarà enguany a instal·lar plaques al Prat Gran. [Link](#).
- Altaveu: El comú d'Escaldes, disposat a instal·lar plaques fotovoltaïques al Prat Gran. [Link](#).
- Flickr Comú d'Escaldes-Engordany: Acte final Coleopter. [Link](#).

ANNEX 1 AGENDA (ES, FR, PT)

EVENTO FINAL Programa Escaldes-Engordany (Andorra)

Lunes 6 de febrero 2023

Llegada al territorio (Escaldes-Engordany)

19h – Visita informal del centro de la ciudad ([Parc de la mola 6, Escaldes-Engordany](#))

20h – *Cena (Restaurant 120 · Av. Meritxell 120, Andorra la Vella)*

Martes 7 de febrero 2023

Sesión matinal abierta al público - Ayuntamiento: Parc de la mola 6, Escaldes-Engordany

9h30 – **Bienvenida**

Rosa Gili (Alcaldesa · Escaldes-Engordany)

Sílvia Calvó (Ministra de Medio Ambiente, Agricultura y Sostenibilidad · Andorra)

Aline Brachet (Miembro de la Junta · RURENER)

10h00 – **El enfoque COLEOPTER: Presentación del proyecto e intercambio**

Céline Seince (Líder del proyecto COLEOPTER · RURENER)

11h00 – *Pausa café*

11h30 – **Caso de estudio: La transferencia del enfoque en Escaldes-Engordany**

Oriol Travesset (Investigador · Universitat Politècnica de Catalunya y Andorra Recerca + Innovació)

12h15 – **Clausura de la sesión abierta al público**

Céline Seince (Líder del proyecto COLEOPTER · RURENER)

Cèlia Vendrell (Concejala de Medio ambiente, Movilidad y Urbanismo · Escaldes-Engordany)

12h30 – **Visita del pabellón del Prat Gran**

13h00 – *Almuerzo*

14h30 – **Resultados y ejecución del proyecto**

15h00 – **Presentación del proyecto Caldes** (programa paralelo para responsables políticos)

15h30 – *Pausa café*

15h50 – **Evaluación: zoom en los tres pilares del enfoque**

17h00 – **Paseo por Escaldes-Engordany · Ruta del agua**

20h00 – *Cena oficial (Borda Can Andreu · Carrer Antic Carrer Major, 9, Andorra la Vella)*

Miércoles 8 de febrero 2023

Ayuntamiento: [Parc de la mola 6, Escaldes-Engordany](#)

9h30 – Cambiar de escala el enfoque COLEOPTER

10h45 – Pausa-café

11h15 – COLEOPTER, ¿y después?

12h30 – Clausura del evento

Martí Rosas (Coordinador del caso de estudio de Andorra · Universitat Politècnica de Catalunya)

Céline Seince (Líder del proyecto COLEOPTER · RURENER)

Fabien Pichon (Autoridad Nacional del programa Sudoe · Francia)

13h00 – Almuerzo de clausura (*Restaurant les Closes · Av. Carlemany, 95, Escaldes-Engordany*)

EVENEMENT FINAL Programme

Escaldes-Engordany (Andorre)

Lundi 6 Février 2023

Arrivée sur le territoire (*Escaldes-Engordany*)

19h – Visite informelle du centre-ville ([Parc de la mola 6, Escaldes-Engordany](#))

20h – Dîner (*Restaurant 120 · Av. Meritxell 120, Andorra la Vella*)

Mardi 7 Février 2023

Session du matin ouverte au public - Mairie: [Parc de la mola 6, Escaldes-Engordany](#)

9h30 – **Mots de bienvenue**

Rosa Gili (Maire · Escaldes-Engordany)

Sílvia Calvó (Ministre de l'Environnement, Agriculture et Développement Durable · Andorre)

Aline Brachet (Membre du Conseil d'Administration · RURENER)

10h00 – **L'approche COLEOPTER : Présentation du projet et échanges**

Céline Seince (Leader du projet COLEOPTER · RURENER)

10h45 – *Pause café*

11h30 – **Etude de cas : Le transfert de l'approche à Escaldes-Engordany**

Oriol Travesset (Chercheur · Universitat Politècnica de Catalunya et Andorra Recerca + Innovació)

12h15 – **Clôture de la session ouverte au public**

Céline Seince (Leader du projet COLEOPTER · RURENER)

Cèlia Vendrell (Conseillère municipale pour l'Environnement, la Mobilité et l'Urbanisme · Escaldes-Engordany)

13h00 – *Déjeuner*

14h30 – **Résultats et réalisation du projet**

15h00 – Présentation du **projet Caldes** (programme parallèle pour les décideurs politiques)

15h30 – *Pause-café*

15h50 – **Bilan : zoom sur les trois piliers de l'approche**

17h00 – **Balade dans Escaldes-Engordany**

20h00 – *Dîner officiel (Borda Can Andreu · Carrer Antic Carrer Major, 9, Andorra la Vella)*

Mercredi 8 Février 2023

Mairie: [Parc de la mola 6, Escaldes-Engordany](#)

9h30 – Changer d'échelle l'approche COLEOPTER

10h45 – Pause-café

11h15 – COLEOPTER, et après ?

12h30 – Clôture de l'événement

Martí Rosas (Coordinateur de l'étude de cas d'Andorre · Universitat Politècnica de Catalunya)

Céline Seince (Leader du projet COLEOPTER · RURENER)

Fabien Pichon (Autorité Nationale du programme Sudoe · France)

13h00 – Déjeuner de clôture (*Restaurant les Closes · [Av. Carlemany, 95, Escaldes-Engordany](#)*)

EVENTO FINAL Programa

Escaldes-Engordany (Andorra)

Segunda-feira 6 de Fevereiro 2023

Chegada ao território (Escaldes-Engordany)

19h00 – Visita informal ao centro da cidade ([Parc de la mola 6, Escaldes-Engordany](#))

20h00 – Jantar ([Restaurant 120 · Av. Meritxell 120, Andorra la Vella](#))

Terça-feira 7 de Fevereiro 2023

Sessão matinal aberta ao público - Câmara municipal: [Parc de la mola 6, AD700 Escaldes-Engordany](#)

09h30 – **Discurso de boas-vindas**

Rosa Gili (Presidente da Câmara · Escaldes-Engordany)

Sílvia Calvó (Ministra do Ambiente, Agricultura e Sustentabilidade · Andorra)

Aline Brachet (Membro da Junta · RURENER)

10h00 – **A abordagem COLEOPTER: Apresentação do projeto e discussão**

Céline Seince (Líder do projeto COLEOPTER · RURENER)

10h45 – *Pausa para café*

11h30 – **Caso de estudo: Transferência da abordagem em Escaldes-Engordany**

Oriol Travesset (Investigador · Universitat Politècnica de Catalunya y Andorra Recerca + Innovació)

12h15 – **Conclusão da sessão aberta ao público**

Céline Seince (Líder do projeto COLEOPTER · RURENER)

Cèlia Vendrell (Conselheira para o Ambiente, Mobilidade e Urbanismo · Escaldes-Engordany)

12h30 – **Visita do pavilhão Prat Gran**

13h00 – *Almoço*

14h30 – **Resultados e produtos do projeto**

15h00 – **Apresentação do projeto Caldes** (programa paralelo para os responsáveis políticos)

15h30 – *Pausa para café*

15h50 – **Avaliação: enfoque nos três pilares da abordagem**

17h00 – **Passeio em Escaldes-Engordany**

20h00 – *Jantar oficial (Borda Can Andreu · [Carrer Antic Carrer Major, 9, Andorra la Vella](#))*

Quarta-feira 8 de Fevereiro 2023

City council: Parc de la mola 6, AD700 Escaldes-Engordany

09h30 – **Replicação da abordagem COLEOPTER**

10h45 – *Pausa para café*

11h15 – **COLEOPTER, o que se segue?**

12h30 – **Encerramento do evento**

Martí Rosas (Coordenador do estudo de caso de Andorra · Universitat Politècnica de Catalunya)

Céline Seince (Líder do projeto COLEOPTER · RURENER)

Fabien Pichon (Autoridade Nacional do programa Sudoe · França)

13h00 – *Almoço de encerramento (Rest. les Closes · Av. Carlemany, 95, Escaldes-Engordany)*