Glossaire et références du rapport

Résilience des interfaces urbaines face aux incendies de végétation en contexte de changement climatique

Rapport de l'expertise scientifique collective

cnrs

Glossaire et références du rapport

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Glossaire

Aléa

Phénomène potentiellement dommageable susceptible de se produire en un lieu donné (ici : incendie de végétation). Il se caractérise par une probabilité d'occurrence et des intensités possibles (comportement du feu). À distinguer du danger (conditions instantanées) et du risque (aléa × enjeux/vulnérabilité).

Brandon

Fragment incandescent (braise, débris en combustion, escarbille, aussi appelé béluge en Provence) transporté par le vent. Il peut provoquer des sautes de feu en allumant des foyers secondaires à distance.

Brûlage dirigé/feu prescrit

Feu allumé volontairement, planifié et contrôlé dans des conditions définies (météo, combustibles, moyens). Objectif : réduire les combustibles, restaurer certains écosystèmes, limiter la sévérité d'incendies futurs. Nécessite un cadre réglementaire et une doctrine. Peut être contesté et difficile à utiliser dans les interfaces en raison des risques associés (échappement, fumée).

Combustible

Matière susceptible de brûler et de libérer de l'énergie (végétation, litière, bois mort, mais aussi éléments anthropiques). Ses propriétés (charge, continuité, humidité, structure verticale) conditionnent l'intensité et la propagation. En interface, le combustible inclut aussi des éléments du bâti et des objets (clôtures, véhicules, etc.).

Coupure de combustible/pare-feu

Aménagement visant à réduire la continuité des combustibles (réduction de charge, discontinuités, bandes traitées). But : ralentir la propagation du feu, faciliter l'action des secours et les manœuvres tactiques. Efficacité dépendante de la localisation, de l'entretien, du vent et des sautes de feu.

Community Wildfire Protection Plan (CWPP)

Plan local (aux États-Unis) de protection contre les incendies, élaboré de façon collaborative (acteurs publics, services, communautés). Il priorise des zones de traitement des combustibles et des mesures pour réduire l'inflammabilité des structures. Il sert d'outil de planification, de coordination et, parfois, d'accès à des financements.

Continuité des combustibles

Degré de connexion spatiale des combustibles (horizontalement et verticalement). Détermine la capacité de propagation et les transitions de strate (de la surface du sol à la cime des arbres). Cible centrale des mesures de gestion (débroussaillement, éclaircie, coupures).

Débroussaillement

Gestion de la végétation autour des enjeux (habitations, infrastructures) pour réduire charge et continuités horizontales/verticales. Vise à diminuer l'intensité de l'incendie au voisinage du bâti et à limiter l'exposition aux flammes et au rayonnement. Efficace si correctement réalisé, maintenu dans le temps et cohérent à l'échelle du voisinage, c'est-à-dire si les parcelles voisines sont également entretenues.

Défendabilité

Capacité d'un enjeu (bâtiment/quartier) à être défendu efficacement et en sécurité par les secours (ou par actions locales). Dépend de l'accès, de l'eau, de la topographie, de la charge combustible, de l'espacement des structures et du contexte météo. Concept très opérationnel, souvent moins formalisé académiquement.

Durcissement du bâti

Mesures passives/actives réduisant l'allumage et la propagation du feu au sein d'un bâtiment (toiture, ouvertures, grilles, matériaux). Cible prioritaire : empêcher l'entrée de brandons et limiter les points faibles de l'enveloppe. Complémentaire, non substituable, à la gestion des combustibles proches.

Éclosion/départ de feu

Terme statistique désignant l'apparition d'un feu en un lieu donné, à la suite de la rencontre entre une source d'allumage, un combustible disponible et des conditions favorables. L'éclosion est l'événement observable pris en compte dans les bases de données d'incendies.

Enjeu

Élément exposé susceptible de subir des dommages : personnes, bâtiments, infrastructures, activités, services écosystémiques. La hiérarchisation des enjeux structure les priorités de prévention et d'intervention. En interface, la densité d'enjeux et leur valeur augmentent fortement les impacts potentiels.

Feu de surface/de cime

Un feu de surface brûle les strates basses de la végétation (herbes, buissons) ; un feu de cimes brûle toutes les strates de végétation, y compris la cime des arbres.

Home Ignition Zone (HIZ)

Zone autour d'une habitation où les conditions déterminent sa probabilité d'ignition (souvent en cercles : immédiate/intermédiaire/étendue). Cible prioritaire des mesures de prévention : propreté, matériaux, ouvertures, végétation et objets combustibles proches. Approche centrée sur l'allumage par brandons et l'exposition thermique.

Hydrant

Point de puisage d'eau sous pression (borne incendie) connecté à un réseau. Ressource critique pour la défense du bâti et les manœuvres en zone urbanisée. Sa disponibilité dépend du réseau (pression, redondance, accessibilité) et peut être compromise en crise.

Ignition/allumage

Terme physico-chimique désignant le déclenchement local de la combustion sous l'effet d'une source d'énergie suffisante. L'ignition dépend notamment de l'humidité, de la finesse, de la géométrie et de la composition du combustible.

Incendie

Feu non souhaité et non contrôlé (ici incluant feux de végétation : herbes, broussailles, maquis, forêts). Son comportement résulte de l'interaction combustibles, météorologie, topographie, allumage et des actions humaines. En interface, l'incendie peut impliquer à la fois végétation et structures.

Intensité du feu

Mesure de la puissance libérée par unité de longueur de front (ou métriques voisines), liée à charge, vent, pente, humidité. Conditionne l'atteignabilité des moyens et la destructivité (rayonnement, convection). Critère clé pour définir des seuils d'inefficacité de suppression.

Prévention

Ensemble des actions visant à réduire les dommages attendus (réduction du risque) avant l'événement. Inclut mesures techniques (combustibles, bâti), information/formation, planification, incitations et réglementation. Se distingue de la gestion de crise (pendant l'événement) et du relèvement (après).

Obligation légale de débroussaillement (OLD)

Obligation réglementaire imposant des travaux de débroussaillement/entretien autour des constructions en zone à risque en France. Objectif : réduire l'aléa d'éclosion, la vulnérabilité du bâti et faciliter l'intervention des secours. Elle pose des enjeux de faisabilité, de coût (financier mais aussi en termes d'effort nécessaire, d'impact esthétique, etc.), de contrôle et parfois nécessite des travaux au-delà de la parcelle selon les règles locales.

Plan de prévention du risque incendie de forêt (PPRIF)

Outil réglementaire français visant à encadrer l'urbanisation et imposer/recommander des prescriptions en zones exposées. Il s'appuie sur des zonages (interdictions, conditions de constructibilité) et des mesures de réduction de vulnérabilité. Limites souvent discutées : coût, couverture partielle, caractère statique vs dynamiques rapides du risque.

Régime de feu

Description statistique et fonctionnelle de l'activité du feu sur un territoire : fréquence, saisonnalité, tailles, sévérité, causes, intensités. Résulte d'un couplage climat—végétation—usages—politiques de gestion. Le changement climatique et les transformations d'usage peuvent modifier rapidement ces régimes.

Sautes de feu (*spotting*)

Propagation par brandons créant des foyers secondaires à distance du front principal. Augmente la vitesse apparente, rend la lutte plus difficile et menace directement le bâti. Amplifiée par vent, la convection, certains types de végétaux et combustibles fins, cela constitue un mécanisme majeur d'embrasement du bâti en interface en apportant les sources d'ignition.

Sévérité

Degré d'impact écologique (et parfois matériel) du feu, souvent évalué via la consommation de biomasse et les effets sur sol/végétation. Dépend de l'intensité locale, de la durée de chauffe et du type d'écosystème. À distinguer de la surface brûlée.

Structure

Terme opérationnel désignant une construction au sens large (habitation, dépendance, hangar, bâtiment d'activité, etc.). Important car la vulnérabilité et la propagation peuvent différer selon matériaux, géométrie, entretien et proximité. En interface, la propagation structure-structure peut devenir un facteur important.

Volatilité hydroclimatique

De soudaines et importantes transitions, qualifiées de « coup de fouet », entre des conditions très sèches et très humides, augmentant fortement la biomasse puis l'asséchant.

Vulnérabilité

Propension d'un enjeu (personne, bien, environnement) à subir des dommages compte tenu de son exposition, de sa sensibilité et de ses capacités de réponse. Peut être sociale (capacités/contraintes), structurelle (bâti), et territoriale (réseaux, accessibilité).

Références citées dans le rapport

Cette annexe rassemble **l'ensemble des références bibliographiques citées dans le rapport de l'expertise scientifique collective**, classées par ordre alphabétique d'auteurs (A à Z).

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Annexes : méthodologie et ressources scientifiques

Résilience des interfaces urbaines face aux incendies de végétation en contexte de changement climatique

Rapport de l'expertise scientifique collective

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1 ANNEXE 1 : méthodologie

1.1 Constitution du groupe d'expert.e.s

Une phase de préfiguration pour faire émerger une problématique d'intérêt pour le débat et la décision publics et ainsi qu'un format d'expertise en un an a été conduite de janvier à septembre 2023, impliquant quatre représentants du CNRS et de ses Instituts disciplinaires (Laurent Jammes pour CNRS Terre et Univers ; Jean-François Gérard pour CNRS Chimie ; Philippe Grancolas CNRS Écologie Environnement ; François-Joseph Ruggiu pour le comité d'orientation de l'expertise), puis quatre chercheur.e.s (Guillaume de Cocq, Jean-Baptiste Filippi, Mélanie Rouchoux, Laurent Li). Cette phase a fait émerger plusieurs problématiques autour des incendies de végétation. Au regard des divers rapports préexistants, le CNRS a fait le choix de centrer l'état des lieux scientifique relatif aux incendies de végétation sur le point de vue de la ville et plus particulièrement sur l'interface dynamique entre la ville et la forêt (renommée ville — espace naturel), dans le contexte du changement climatique. Conformément à la charte de l'expertise du CNRS[1], pour répondre de manière systémique et pluridisciplinaire aux questions soulevées par la résilience urbaine face à ce risque, **2 pilotes scientifiques de deux champs disciplinaires différents** (Christine Bouisset, géographe et Jean-Baptiste Filippi, modélisateur) ont été missionnés par le PDG du CNRS, puis **11 autres expert.e.s** sélectionné.e.s pour leurs compétences et sur la base de leur production scientifique et avec l'accord de leurs employeurs, avec l'appui du comité de suivi (constitué de représentants des Instituts du CNRS concernés : Stéphanie Vermeersch pour CNRS SHS, Stéphane Guillot pour CNRS Terre et Univers, Philippe Grandcolas Écologie et Environnement et Fabien Godeferd pour CNRS Ingénierie) et des pilotes. L'analyse de leurs déclarations de liens d'intérêts par une commission présidée par la Déontologue du CNRS a confirmé l'absence de conflit d'intérêts. Leur identité n'a pas été communiquée avant la restitution des résultats afin de les préserver de stratégies d'influence, à l'exception des deux pilotes scientifiques. Inversement, les expert.e.s n'ont pas communiqué sur leur participation à cette ESCo en dehors de leurs hiérarchies. L'ESCo a fait appel à un second cercle de **5 expert.e.s contributeur.rice.s** pour apporter un éclairage sur un volume restreint de publications et sur des domaines sur lesquels le premier cercle était en limite d'expertise.

1.2 Méthode de constitution du corpus

La constitution du corpus vise à établir un état de l'art international sur la **résilience des interfaces urbaines face aux incendies de végétation dans un contexte de changement climatique**, avec une attention particulière aux contextes transposables au cas français. La multiplication des ressources numériques transforme les conditions de production d'un état de l'art scientifique. L'accès massif aux publications, facilité par les bases de données en ligne et les moteurs de recherche académiques, ne garantit pas pour autant une meilleure structuration des connaissances. Au contraire, l'abondance informationnelle fait émerger plusieurs défis méthodologiques.

Un premier enjeu concerne l'identification des publications dans un environnement marqué par une croissance exponentielle du nombre d'articles scientifiques. Il devient difficile de repérer les travaux véritablement structurants pour un champ donné, de distinguer les contributions fondatrices des productions plus périphériques. Par ailleurs, la surreprésentation de certaines thématiques, disciplines ou aires géographiques dans les grandes bases de données internationales peut induire un biais structurel dans la perception du champ étudié.

Un deuxième enjeu réside dans le risque d'angles morts lié aux modalités de recherche documentaire. Une constitution de corpus fondée exclusivement sur des mots-clés expose à une dépendance forte aux choix terminologiques initiaux. Or, les concepts évoluent, varient selon les disciplines et se déclinent dans des cadres théoriques hétérogènes. Certains travaux peuvent ainsi être invisibilisés s'ils mobilisent d'autres vocabulaires. Ce phénomène peut conduire à des « manques » risquant de limiter la restitution complète de l'état de l'art.

[1] https://www.cnrs.fr/sites/default/files/page/2022-06/Charte%20de%20l%27expertise%20scientifique%20institutionnelle%20au%20CNRS_17%20juin%202022.pdf

Un dernier enjeu concerne la distinction entre littérature scientifique et la production para-scientifique. La frontière entre ces catégories s'est complexifiée avec l'essor des plateformes hybrides, des revues prédatrices ou encore des pré-publications non évaluées par les pairs. La difficulté n'est donc pas uniquement quantitative (gérer un volume croissant de documents), mais qualitative.
La production d'un état de l'art dans ce contexte numérique ne relève pas d'un simple exercice de compilation documentaire. Il s'agit en effet d'un processus méthodologique impliquant des arbitrages explicites et une vigilance accrue quant au respect des critères d'analyse définis collectivement pour assurer d'une part le respect des principes de la charte et du cahier des charges à l'origine du projet, d'autre part l'impartialité de la structuration du corpus.
Dans ce cadre, la MPES a décidé d'expérimenter, de manière critique et conforme aux principes d'intégrité scientifique et de science ouverte portés par le CNRS, l'apport des outils d'intelligence artificielle dans la constitution de corpus scientifiques.
Ces différentes limites ont conduit à privilégier une approche de constitution du corpus de publications scientifiques par **extension et réseaux de citations** à partir de **listes cœur de références** (« *core lists* »), plutôt que par des requêtes basées uniquement sur mots-clés (logique classique de revue systématique de littérature) et en s'appuyant sur le catalogue ouvert OpenAlex[2]. Cette base de référencement des publications scientifiques choisie par le CNRS offre une indexation transparente et structurée des publications.

1.3 Constitution des listes initiales de publications par les expert.e.s (liste cœur ou « core list »)

1.3.1 Sélection initiale par les experts

Les 13 expert.e.s mobilisé.e.s dans le cadre de cette expertise ont été sollicité.e.s pour proposer chacun une liste d'environ 30 publications scientifiques jugées structurantes au regard du sujet, incluant soit des références centrales dans leur discipline, soit des travaux transverses couvrant des dimensions plus générales (climat, gouvernance, vulnérabilité, etc.).
La révision collective de ces publications a permis :
De confirmer le périmètre de l'expertise,
De s'entendre sur les références et thématiques à écarter (i.e le thème de la santé qui n'est pas abordé dans cette expertise),
De garantir une cohérence scientifique, et donc une impartialité, par la validation collective.

1.3.2 Structuration thématique

Ces 13 listes, comportant **264 publications retenues,** ont ensuite été réparties dans 11 listes cœur organisées par labels thématiques, qui ont été définis collectivement en séance plénière.
Un label est donc une liste de lecture thématique. Chaque label a fait l'objet d'une définition explicite quant à son contenu[3].

Les labels définis sont les suivants :
Caractérisation des interfaces,
Aléas,
Vulnérabilité,
Les impacts,
Changements globaux,
Instruments et outils de gestion, prévention & réparation (société),
Prévention (biens et bâti),
Gestion de crise et lutte,

[2] https://openalex.org/about
[3] Voir ANNEXE 2 : description des labels.

Aménagement,
Gouvernance,
Feux et société.

Au total, les 264 publications ont été collectivement réparties comme suit[4] :
Caractérisation des interfaces : 23 articles,
Aléas : 33 articles,
Vulnérabilité : 27 articles,
Les impacts : 34 articles,
Changements globaux : 31 articles,
Instruments et outils de gestion, prévention & réparation (société) : 20 articles,
Gestion de crise et lutte : 27 articles,
Prévention (biens et bâti) : 20 articles,
Aménagement : 24 articles,
Gouvernance : 34 articles,
Feux et société : 35 articles[5].

Cette liste constitue le socle scientifique validé par l'ensemble des experts. Par ailleurs, certaines publications françaises identifiées comme structurantes pour l'expertise ont été volontairement exclues de la liste cœur initiale pour tester la robustesse du dispositif méthodologique et évaluer si elles étaient ré-identifiées ultérieurement par l'algorithme d'extension. Ce test a permis de valider le processus d'extension et a mis en évidence une indexation des bases mobilisées, possiblement moins favorables aux productions en langue française. Dans le cadre thématique de l'ESCo, cette production scientifique francophone est néanmoins quantitativement limitée et les références pertinentes non identifiées automatiquement ont pu être intégrées ultérieurement par les expert.e.s lors des phases de validation collective. Cela a permis d'assurer une couverture complète et équilibrée du corpus.

1.4 Extension algorithmique du corpus

1.4.1 Research Rabbit

L'extension du corpus a été réalisée à l'aide de Research Rabbit, plateforme de recherche scientifique fondée sur l'analyse des réseaux de citations. Elle repose sur l'exploration de graphes bibliométriques interactifs, l'analyse des réseaux de co-citation et l'identification de similarités thématiques entre publications.
Research Rabbit reposait en 2024 sur OpenAlex pour alimenter sa base de données[6]. Contrairement aux outils d'IA généralistes, qui analysent des contenus web variés, Research Rabbit se concentre uniquement sur des références scientifiques indexées.

1.4.2 Résultats de l'extension

Les publications relatives à chaque label ont été déposées dans une collection séparée sur Research Rabbit afin de générer des extensions algorithmiques distinctes.
Les extensions ont produit un total de **15 958 références** (non dédoublonnées), réparties par label comme suit :

[4] Voir ANNEXE 3 : liste cœurs des articles retenus par label.
[5] Certains articles figurent dans plusieurs listes car ils sont centraux pour plusieurs thématiques de cette expertise.
[6] Semantic Scholar est désormais (2026) l'un de ses moteurs tout comme CrossRef, utilisé pour récupérer les données de métadonnées ouvertes et structurer des graphes de citations.

Label	Liste cœur	Extension
Caractérisation des interfaces	23	1088
Aléas	33	1993
Vulnérabilité	27	835
Les impacts	34	1575
Changements globaux	31	1873
Instruments et outils de gestion, prévention & réparation (société)	20	1061
Prévention (biens et bâti)	20	1902
Gestion de crise et lutte	27	1429
Aménagement	24	1349
Gouvernance	34	1620
Feux & société	35	1233
TOTAL		15 958

Après dédoublonnage inter-labels automatique via Zotero, le corpus étendu comptait **9 837 publications uniques (excluant les articles des *core lists*)**.
Cela signifie qu'environ 60 % des publications identifiées ont été suggérées au moins deux fois par les différentes extensions thématiques. Ce taux de redondance constitue un indicateur supplémentaire de convergence bibliométrique : les mêmes références ont émergé par plusieurs portes d'entrée à partir de listes cœur distinctes. Cette récurrence renforce donc la cohérence de la méthode de constitution du corpus.

1.5 Filtrage et réduction du corpus

Toutes les références collectées n'étaient pas pertinentes, certaines pouvant être hors sujet ou encore relative à une zone géographique non transposable à la France, par exemple. Aussi, pour analyser le corpus étendu de 9 837 publications et sélectionner celles pertinentes pour l'expertise, un protocole de filtrage à trois niveaux a été défini et ce de manière collective :

Un filtrage par mots clés, qui varient selon chacun des 11 labels ;
Un filtrage thématique par critère géographique puis méthodologique sur la base des titres, mots clés et résumés de manière automatique,
enfin un tri par chacun des expert.e.s sur la base de lecture de résumé et textes complets.

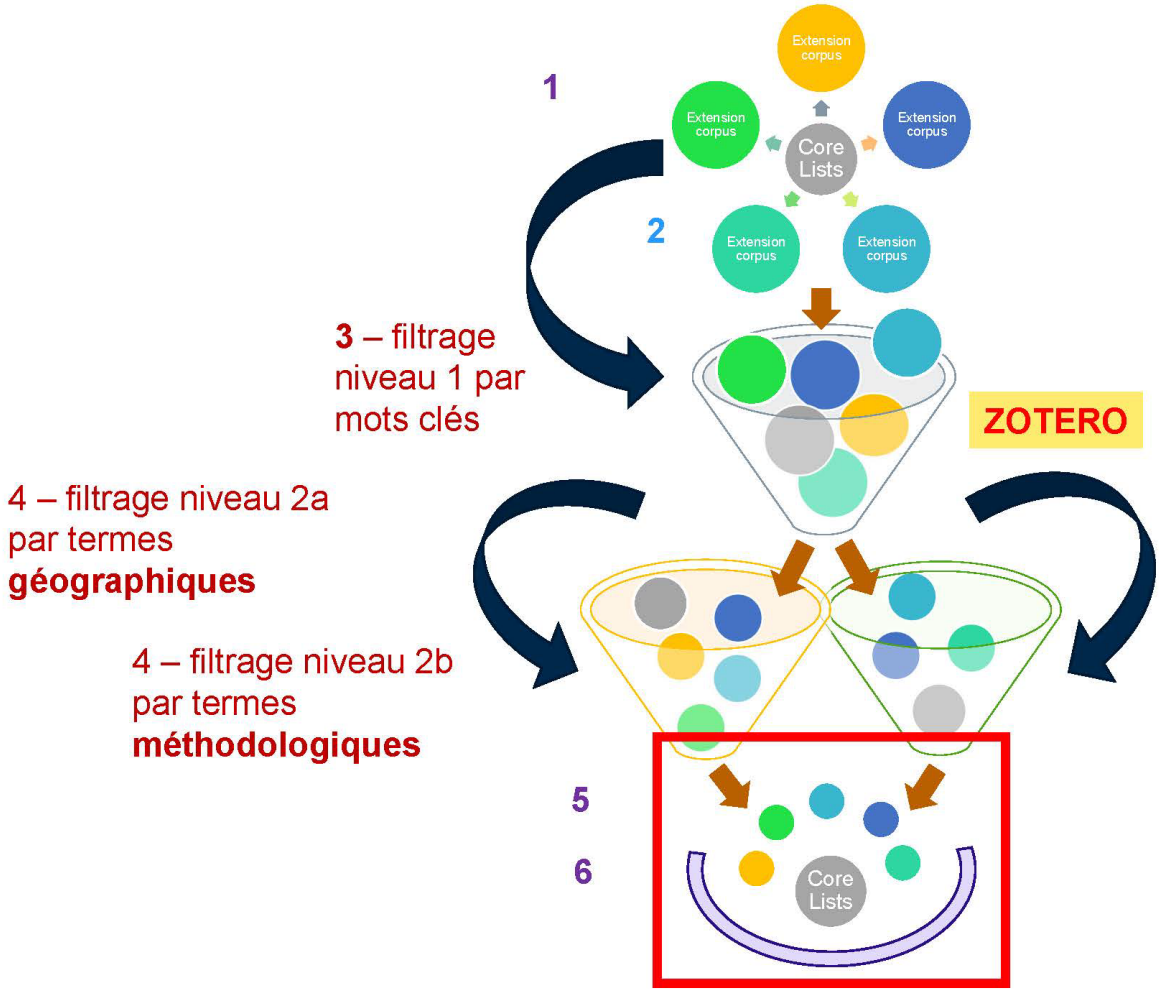


Figure 1 : Illustration récapitulative des différentes étapes du processus de constitution du corpus.
1 — Constitution des core lists puis travail collectif pour définir des labels.
2 — Extension de chaque core list avec Research Rabbit.
3 — Filtrage niveau 1 par mots clés.
4 — filtrage niveau 2a par termes géographiques ; filtrage niveau 2 b par termes méthodologiques.
5 — Tri manuel sur titre/résumé par les expert.e.s.
6 — Tri manuel sur lecture d'article en entier par les expert.e.s.

1.5.1 Filtrage niveau 1 : mots clés

Le corpus étendu a été importé dans Zotero afin de procéder à cette première étape de filtrage automatique par mots clés. Dans Zotero, l'ensemble des articles récupérés lors de l'extension ont été classés dans des collections établies selon les labels initiaux. Puis, pour chaque collection, une liste de mots clés de filtrage a été définie collectivement par le groupe d'expert.e.s[7]. Un article était conservé si au moins un des termes définis apparaissait dans le titre ou le résumé. Les requêtes ont été appliquées au titre, au résumé et, lorsque disponible, au texte intégral. Un test de tri a été fait manuellement par l'équipe de pilotage, ce qui a permis de confirmer la méthode. Ensuite un *PlugIn* de Zotero et puis un script développé par Jean-Baptiste Filippi ont permis d'automatiser ce tri par catégorie thématique sur la base des critères de filtrage[8].

[7] ANNEXE 4 : liste des mots clés de filtrage (niveau 1) utilisés par label.
[8] Voir ANNEXE 6.

Ce premier niveau de filtrage visait à circonscrire explicitement le périmètre de travail et à garantir un ancrage sur les interfaces urbaines exposées aux incendies de végétation. Cette étape a permis, par exemple, d'exclure les travaux portant exclusivement sur les dynamiques forestières, sans prise en compte des dimensions urbaines ou d'interface. De même, les publications traitant d'autres aléas ou risques que l'incendie ont été écartées à ce stade du processus.

1.5.2 Filtrage niveau 2 : deux filtrages complémentaires — géographique puis méthodologique

Deux niveaux de filtrage complémentaires automatiques ont été appliqués : 1— géographique (les mêmes termes sont appliqués à tous les labels), puis 2 — méthodologique (chaque label est alors filtré selon des termes spécifiques) — voir Annexe 4.

1.5.2.1 Filtrage niveau 2-a : géographique

Le filtrage géographique permet de retenir les publications qui soit abordent le cas français, soit abordent un terrain transposable au cas français. La transposabilité a été définie comme la possibilité d'appliquer des résultats, conclusions ou méthodes d'analyse (modèles, relations causales, cadres d'évaluation) d'un contexte donné à un autre, en tenant compte des caractéristiques écologiques, biogéographiques, technologiques, institutionnelles et des configurations spatiales et temporelles.

Les publications portant exclusivement sur les contextes boréaux ont été exclues du périmètre.

1.5.2.2 Filtrage niveau 2-b : méthodologique

Les termes de filtrage méthodologique ont été définis spécifiquement pour chaque label. L'article devait comporter au moins un terme renvoyant explicitement à une méthode, par exemple un outil d'analyse, un modèle, un dispositif d'évaluation, ou un cadre analytique identifiable[9].

1.5.2.3 Résultat de la phase de filtrage

À l'issue de ces trois niveaux (thématique puis géographique, puis méthodologique), **2 028 publications** ont été retenues.
La méthode adoptée *in fine* combine donc une **validation initiale par l'ensemble des experts sur la manière de circonscrire le sujet** (approche qualitative), une **extension algorithmique fondée sur les réseaux de citations** et enfin un **filtrage explicite et reproductible**.

1.5.3 Filtrage niveau 3 : processus de tri collectif

Avant la lecture approfondie des textes complets des publications, un travail de stabilisation conceptuelle des 11 labels a été réalisé par l'ensemble des expert.e.s. Chaque label a été revu collectivement afin de préciser son périmètre, éviter au maximum les recoupements de thématiques entre labels, et harmoniser entre expert.e.s les critères d'inclusion pour chaque label.

Ce travail était indispensable pour garantir la cohérence entre les lecteurs et la fiabilité de cette dernière étape de tri.

1.5.3.1 Répartition des publications

Un dossier Zotero spécifique a été créé pour chacun des 13 expert.e.s mobilisé.e.s.

[9] Voir ANNEXE 4 pour la liste des termes par niveau de filtrage appliqués par label.

Chaque expert.e a reçu :
169 publications, sélectionnées aléatoirement au sein des 2 028 articles retenus.

Le tri s'effectuait sur la base :
du titre,
du résumé,
des métadonnées disponibles,
des textes complets si nécessaire.

1.5.3.2 Critères d'inclusion

Les décisions de tri reposaient sur des critères partagés et explicitement formalisés.

Un article était inclus s'il remplissait l'ensemble des conditions suivantes :
pertinence thématique claire,
ancrage géographique conforme,
explicitation méthodologique,
publication scientifique évaluée par les pairs,
données exploitables et complètes,
potentiel de transposabilité,
évalué par les pairs avec une valeur scientifique reconnue.

Si l'article remplissait ces conditions, l'expert.e apposait un marqueur dans Zotero avec ses initiales, ainsi qu'un marqueur d'inclusion, assurant la traçabilité.

1.5.3.3 Critères d'exclusion

Motifs possibles :
hors champ (zone, thématique, méthode),
traitement trop général ou trop descriptif,
publication non validée par les pairs, non scientifique, littérature grise,
absence de données exploitables,
langue non exploitable,
doublon,
absence de potentiel de transposition.

L'exclusion devait être justifiée par l'apposition d'un marqueur dans Zotero.

1.5.3.4 Réorientation

Si l'article relevait davantage de l'expertise d'un autre membre :
suppression des initiales du premier lecteur,
réattribution à un autre expert.

1.5.3.5 Incertitude

Les articles ambigus étaient signalés pour discussion collective.

1.5.3.6 Bilan du tri collectif manuel par les expert.e.s

Sur les 2 028 publications examinées :
777 articles ont été écartés.
Il restait donc 1 251 publications servant de corpus socle pour l'expertise.

1.6 Analyse du corpus par l'INIST

L'INIST (Institut de l'information scientifique et technique du CNRS) a été mobilisé afin d'analyser une sélection clé du corpus (**967** publications au total**)** pour l'expertise. Elle a été réalisée par Nathalie Antonot et Jean Mourot du service « Appui au pilotage scientifique » de l'Institut de l'information scientifique et technique (INIST), service dirigé par Patricia Mahafaka Ranoarisoa[10].

L'étude de la production scientifique des expert.e.s pour la période 2020-2024 a été réalisée afin de visualiser et confirmer la couverture thématique du groupe au regard du sujet. (Figure 2). Elle a été réalisée à partir des données des bases du Web of Science™ Core Collection de Clarivate Analytics, de l'archive ouverte HAL et de la base Open Alex. Elle a également permis de visualiser les liens entre les disciplines des d'expert.e.s au travers de leurs publications.

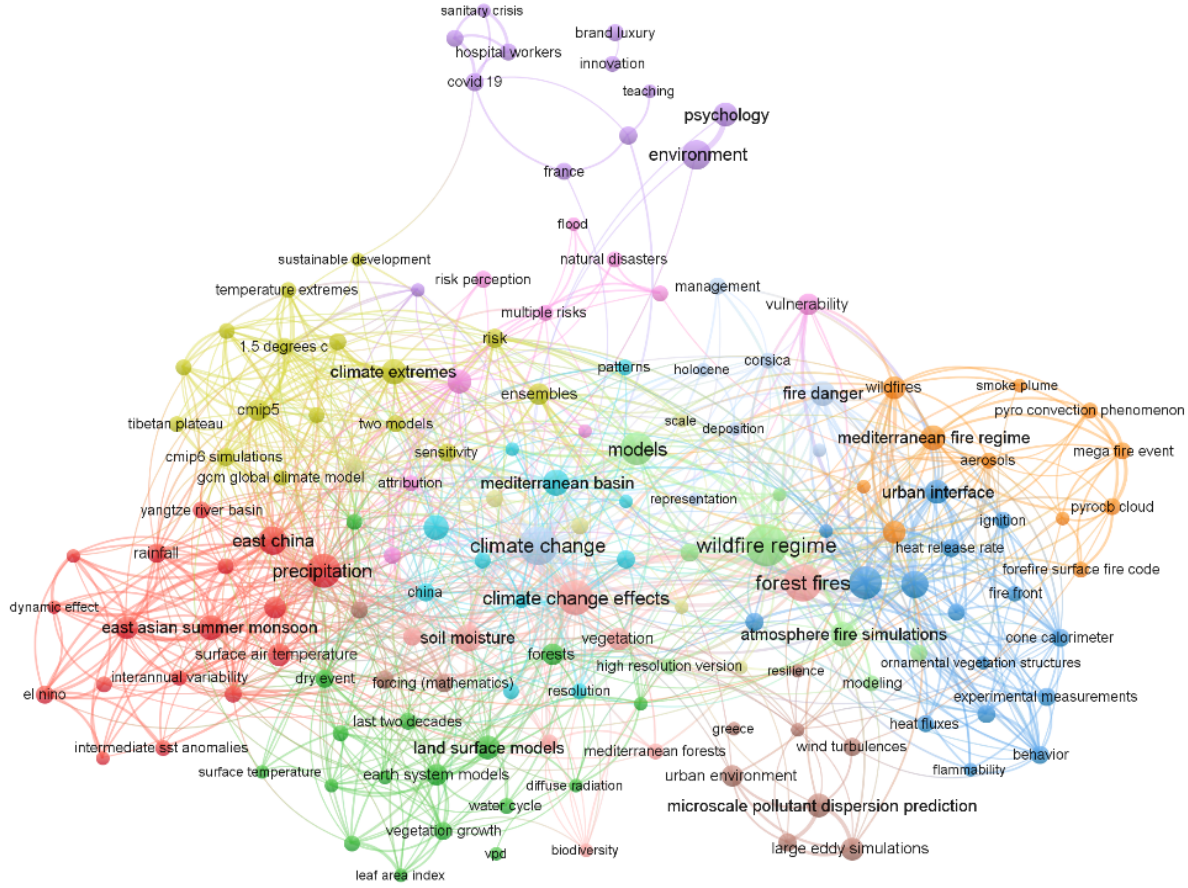


Figure 2 : Répartition thématique des publications des membres du groupe d'expert.e.s.
Institut de l'information scientifique et technique (INIST-CNRS)

L'INIST a également analysé un échantillon du corpus Research Rabbit portant sur les vulnérabilités face aux incendies. L'objectif était de qualifier le corpus généré à partir d'une liste cœur, au regard de différents critères (dates de publication, sites géographiques, etc.). La liste cœur appartenant au label « Vulnérabilités » comportait 27 références et son extension comportait **965 publications** après les étapes de filtrage. Cette analyse a également été réalisée à partir des données des bases du Web of Science™ Core Collection de Clarivate Analytics, de l'archive ouverte HAL et de la base Open Alex. Cette analyse a notamment permis de souligner un manque de littérature récente dans le corpus (Figure 3), probablement lié à un manque d'actualisation par l'outil Research Rabbit. L'intégration de la base WIFRI, décrite dans la section suivante, a permis de répondre à ce manque.

[10] Le détail de la méthodologie appliquée à ce travail effectué par l'INIST se trouve en ANNEXE 4.

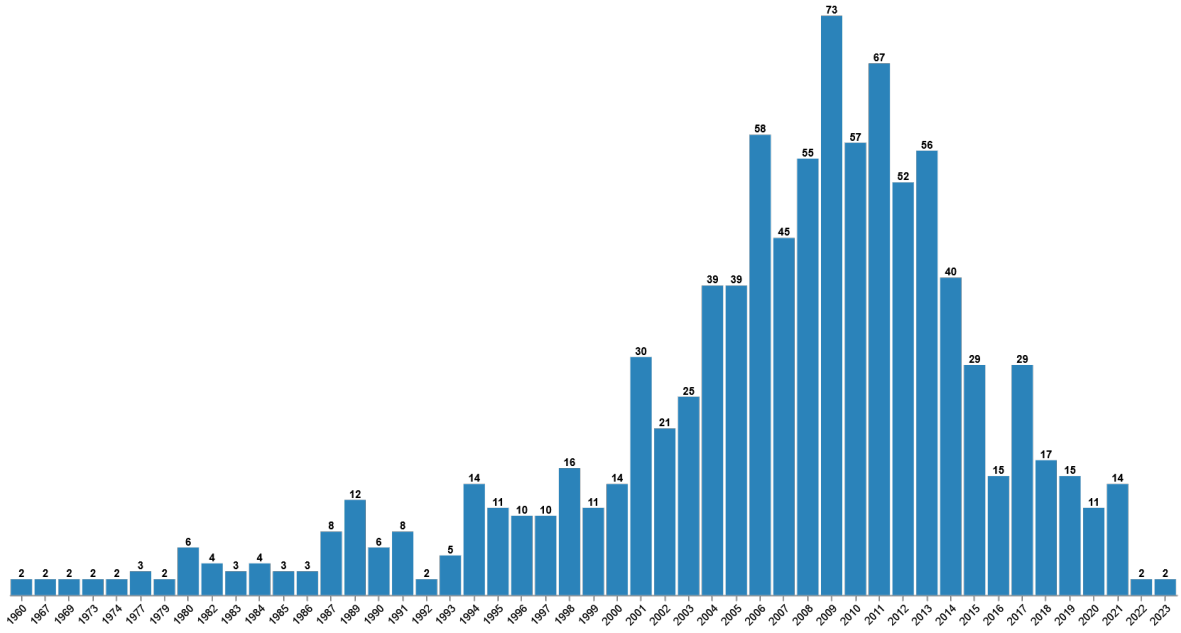


Figure 3 : Répartition du nombre de publications dans le temps pour l'extension Research Rabbit portant sur les vulnérabilités face aux incendies
Institut de l'information scientifique et technique (INIST-CNRS) — UAR76

1.7 Intégration des articles de la base WIFRI

Pour pallier le manque de publications récentes identifiées, la base *Wildland Fire Research Institute* (WIFRI)[11] a été mobilisée, ajoutant **465 références** (2023—2025) sélectionnées selon les mêmes critères que pour les autres références du corpus, dont **47** avaient déjà été identifiées par ResearchRabbit.
Le WIFRI est une plateforme mondiale dédiée à l'avancement des connaissances scientifiques sur les feux de forêt, l'écologie du feu, les impacts climatiques, la gestion des incendies et la résilience des écosystèmes. Fondé en 1983, le WIFRI a pour objectif de servir de pôle international pour la science des incendies de végétation et l'échange de connaissances. Ses travaux couvrent un large éventail de disciplines, notamment :

- ***écologie du feu,***
- ***comportement des feux et conditions météorologiques propices aux incendies,***
- ***gestion et atténuation des incendies,***
- ***changement climatique et résilience des écosystèmes,***
- ***recherche sur la fumée et la qualité de l'air,***
- ***biodiversité et conservation des espèces rares,***
- ***écologie des invertébrés,***
- ***sécurité incendie et réduction des risques.***

La base de données de leur bibliothèque a donc été achetée pour l'ESCo et une analyse via par des listes de mots clés déjà constitués dans des préréglages,[12] a été effectuée en utilisant une interface développée par Jean-Baptiste Filippi, co-pilote scientifique de l'expertise, qui appliquait un traitement statistique standard d'inclusion/exclusion par mots clés (correspondant au même process décrit pour le filtrage niveau 1 par mot clés des autres références du corpus — voir Annexe 4). Une récupération des méta

[11] Wildland Fire Research Institute : https://www.wifri.org/
[12] Voir ANNEXE 5

données sur le WOS/OpenAlex a également été exécutée pour la base WIFRI en utilisant un code programmé par Jean-Baptiste Filippi et Suzanne Peyrard, cheffe de projet durant la première phase de l'expertise. Ce travail de codage a permis notamment une automatisation des paramètres et un hébergement de la bibliothèque au format d'une base de données interactive permettant une gestion des citations et références. Ce travail de codage a été publié et mis à disposition sur la forge du CNRS[13]. Cet outil a également servi pour le tri automatique par mots de filtrage, décrit plus haut dans cette méthodologie (« filtrage et réduction de corpus »)[14]. Une extraction depuis le tableau de bord WIFRI (Figure 4) a donc été réalisée, en sélectionnant uniquement les années 2023-2025, ciblées comme période pour laquelle les publications manquaient.

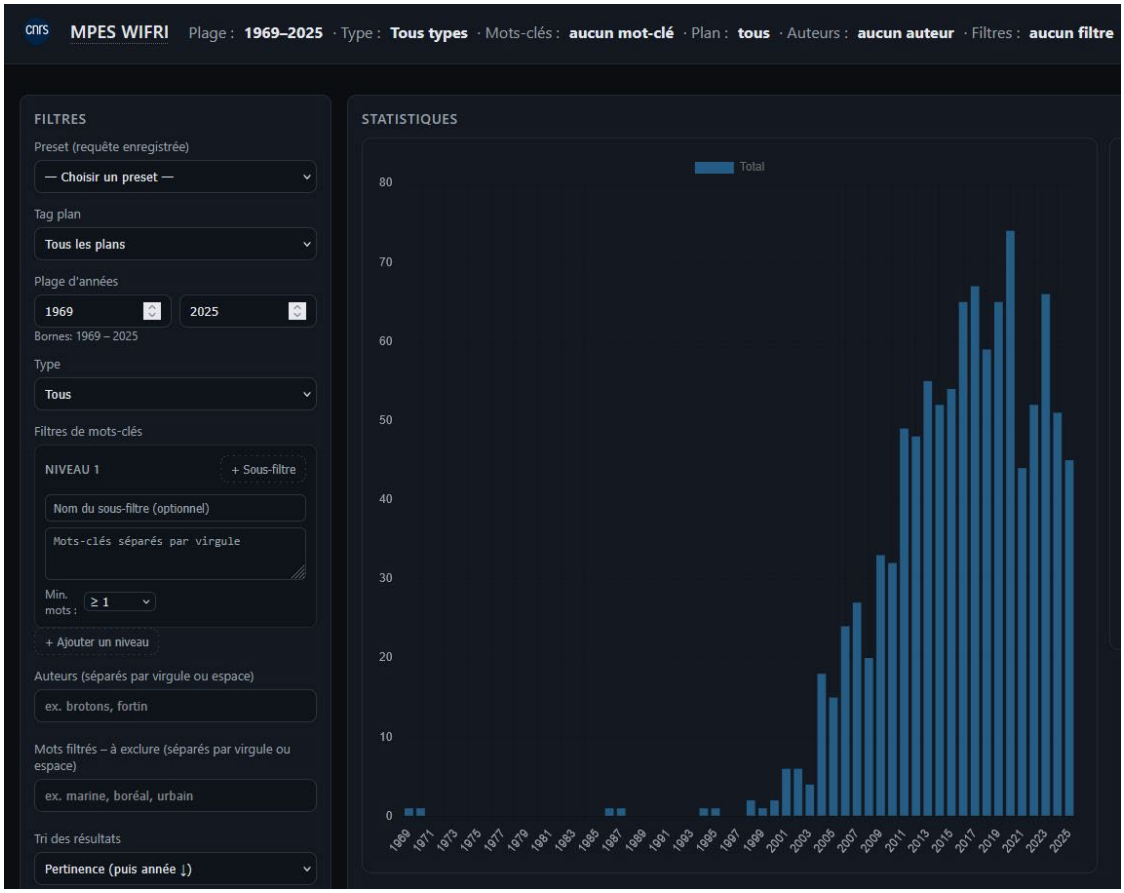


Figure 4 : Aperçu de l'interface créé pour la base de données WIFRI hébergée sur : *https://forefire.univ-corse.fr/ESCOFEU/base.html*

Le même processus de filtrage par termes géographiques et méthodologiques qui a été décrit plus haut dans cette méthodologie (« filtrage et réduction de corpus ») a également été appliqué à cet éventail de publications. Ces étapes de filtrage ont abouti à la sélection des **465 références** mentionnées ci-dessus, parmi lesquelles 47 avaient déjà été repérées par les extensions de Research Rabbit.
Ces **418 articles** provenant de la base WIFRI ont ensuite été intégrés dans la base bibliographique Zotero de l'expertise. L'INIST a effectué une analyse supplémentaire suite à l'ajout de la base WIFRI (voir figure 5).

[13] https://src.koda.cnrs.fr/jean.baptiste.filippi/mpes
[14] Voir ANNEXE 6

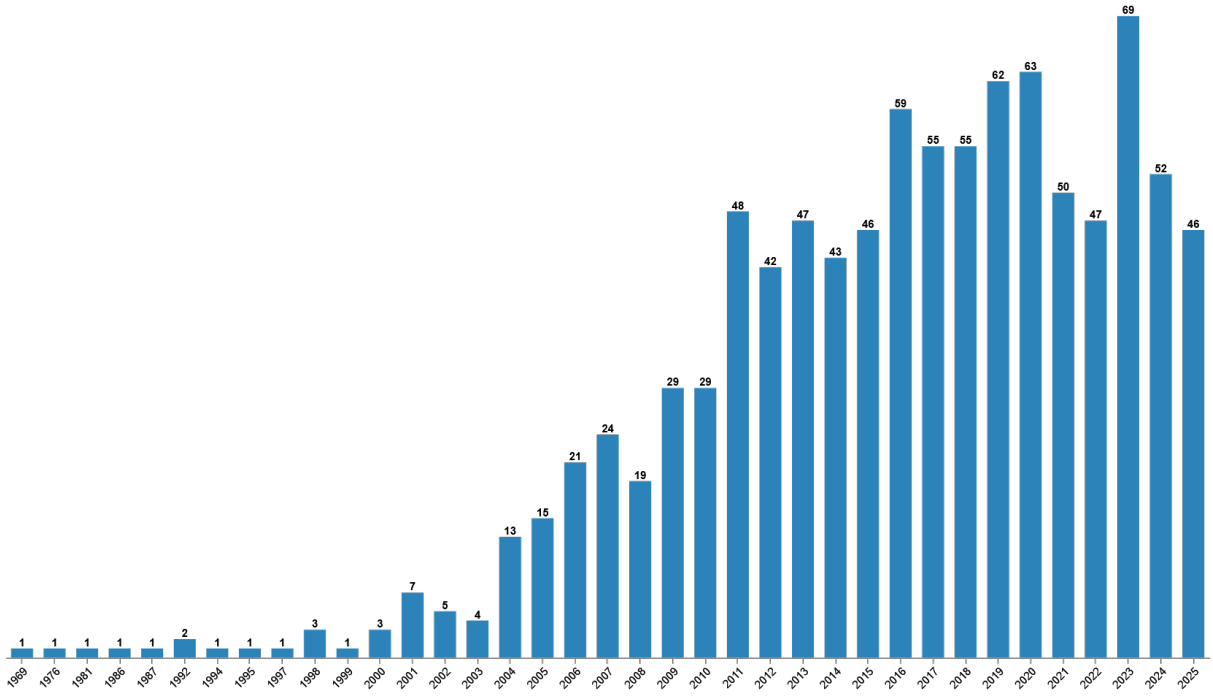


Figure 5 : Répartition du nombre de publications dans le temps portant sur les vulnérabilités face aux incendies suite à l'ajout de la base WIFRI aux ressources considérées par l'expertise
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Cette analyse a permis de démontrer que l'ajout de la base WIFRI a remédié au manque de ressources récentes remarqué dans la sélection des références incluses dans l'ESCo pour la thématique portant sur les vulnérabilités aux incendies.

L'analyse de cette sélection a également permis d'illustrer l'étendue thématique de l'expertise et les connexions existant entre le plan établi pour la rédaction du rapport et les thématiques majeures définies pour l'expertise. Cette illustration souligne, par les liens et recoupements thématiques visibles, l'interdisciplinarité du projet et la sortie des silos disciplinaires visée par l'expertise (Figure 6).

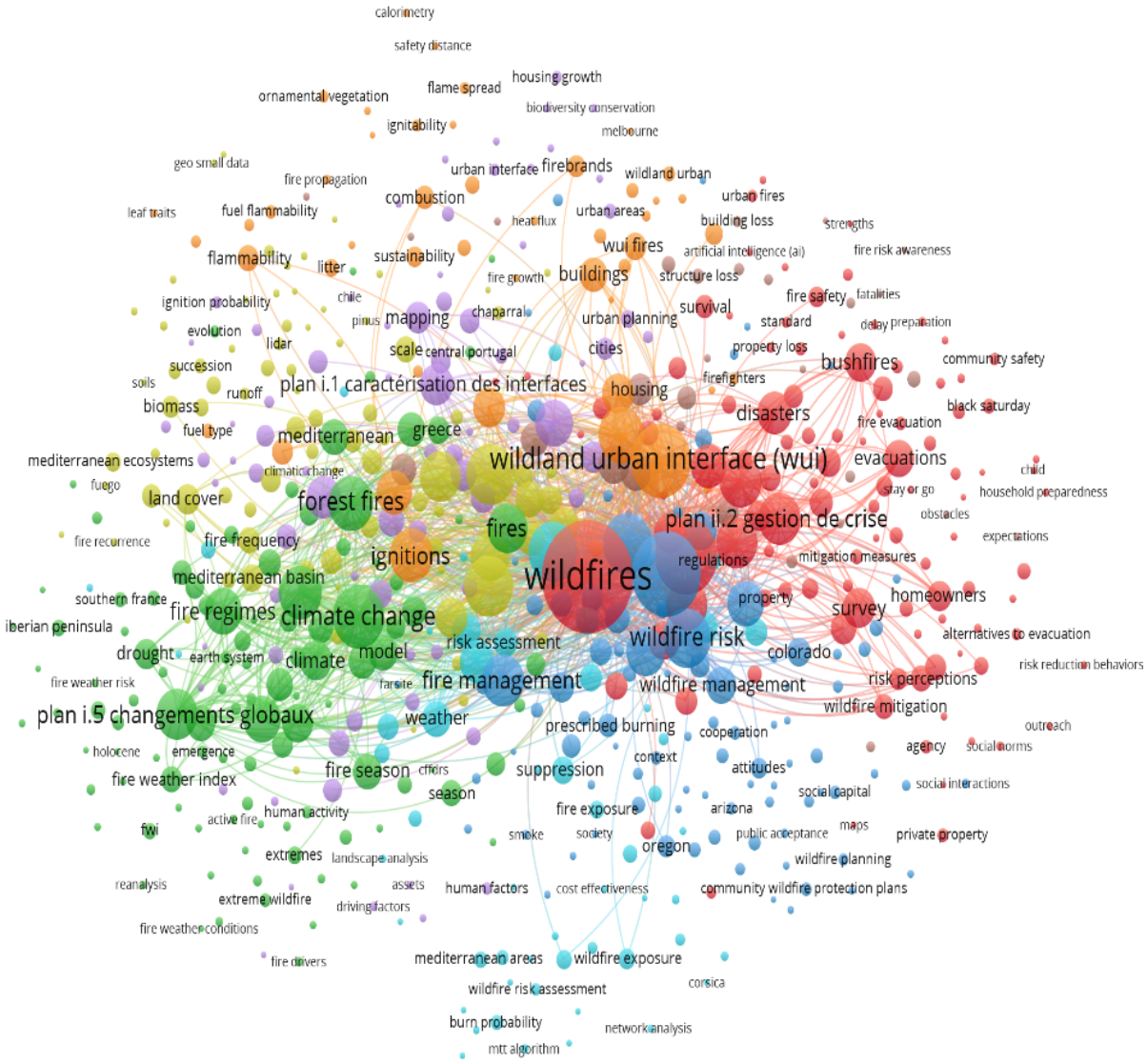


Figure 6 : Illustration de l'étendue thématique et les connexions entre le plan de rédaction du rapport et les thématiques majeures de l'expertise
Institut de l'information scientifique et technique (INIST-CNRS) — UAR76

1.8 Gestion des ajouts, rejets et littérature grise

Avant de valider définitivement le corpus scientifique, l'introduction d'autres sources permettant d'appréhender le sujet par une mise en contexte plus large a pu être nécessaire. Dans ce cas, chaque source a été citée, même si elle ne faisait pas partie du corpus assemblé initialement. Les références complémentaires, identifiées hors corpus initial, ont été intégrées lors des validations collectives. Plusieurs ajouts de références récentes par auteur ont été nécessaires, selon les expert.e.s, compte tenu de l'évolution constante de la littérature, en particulier relative aux incendies extrêmes récents. Ces références ont été annotées avec le tag « *Ajout* » dans Zotero, ce qui permet de les différencier des autres publications scientifiques incluses dans l'expertise. Avec un total de **115** références, elles représentent moins de **10 %** de l'ensemble du corpus.
Le processus d'analyse des listes de lecture, sur la base des critères définis collectivement pour respecter les principes de la charte de l'expertise et le cahier des charges initial, s'est effectué tout au long de l'expertise. Dans certains cas, après lecture approfondie, des références ont pu être écartées des ressources mobilisées pour la rédaction et citées dans le rapport. Marquées avec le tag « *Rejet* » dans

Zotero, ces publications ne figurent donc pas dans la les références finales citées dans le rapport. Ces **184** rejets au total ne représentent que **15 %** du corpus.
Certaines publications ont été écartées par les processus de tri pour au final être réintégrées lors de la phase de réflexion et de rédaction. Ces publications ont été marquées avec le tag « *Repiochage* » et sont au nombre de **22** au total pour l'expertise (moins de **2 %**). Cela tend à confirmer la méthodologie et les pratiques de tri mises en place.
Les ressources non scientifiques (« littérature grise », c'est-à-dire tous les documents émanant de l'administration, de l'industrie, de l'enseignement supérieur, des organismes de recherche et des associations, etc.)[15] ont pu être utilisées pour le contexte ou l'identification des lacunes dans les connaissances. Certaines informations contenues dans cette littérature dite « grise » ont pu être indiquées dans les limites de connaissances scientifiques ou autres éléments qui se placent dans un contexte plus large. Ces ressources ne figurent pas dans la bibliographie de l'expertise, mais dans les notes de bas de page.
À l'issue d'ensemble de ces différentes étapes, la base de ressources scientifiques sur laquelle se fonde ce travail d'analyse pour l'expertise a été stabilisée. Les différentes listes de références rassemblées à chaque étape, les labels et les critères de tri sont disponibles en Annexes. Cette base de ressources scientifiques finale sur laquelle se fonde le travail d'expertise et notamment ce rapport contient donc un total de 2 028 publications lues partiellement ou intégralement par les expert.e.s, 1 204 publications lues et analysées intégralement et 1 020 publications citées dans le rapport final[16].

1.9 Gestion des références, suivi de lecture et citations

Après la constitution et le filtrage initial du corpus bibliographique, la phase de rédaction nécessitait un suivi que Jean-Baptiste Filippi a assuré avec la mise en place d'un autre code permettant de suivre de façon simultanée :

- les références attribuées à chaque expert,
- leur état de lecture,
- leur éventuelle exclusion du corpus,
- leur affectation aux différentes parties du rapport,
- leur utilisation effective dans les textes rédigés.

Pour assurer ce suivi, un ensemble d'outils a été développé autour de quatre composantes principales :

- une bibliothèque bibliographique partagée sous **Zotero**,
- des textes rédigés en **Markdown**, contenant les clés bibliographiques Zotero,
- un dépôt **Git** utilisé pour le versionnement des textes et des outils,
- des interfaces web développées en **PHP** permettant de croiser automatiquement les informations bibliographiques avec l'état réel de la rédaction.

L'objectif principal était de conserver une correspondance vérifiable entre le corpus bibliographique, le travail de lecture des expert.e.s et le contenu effectivement utilisé dans le rapport. Les outils développés ont permis d'identifier en cours de rédaction les références déjà intégrées, celles qui restaient à traiter, celles qui ont été exclues et celles pour lesquelles aucune décision n'avait jusqu'alors été prise. Le détail de cette méthodologie et travail de codage et d'interface mise à disposition par Jean-Baptiste Filippi se trouve en Annexe 5 de ce rapport.

1.10 Modalités de travail : lecture et écriture

La définition des labels a été structurante dans la manière de poser des définitions collectives pour des éléments conceptuels clés dans le travail d'expertise. Pour respecter le principe d'impartialité, la rédaction

[15] Schöpfel, J. (2015). Littérature « grise » : de l'ombre à la lumière. I2D — Information, données & documents, 52(1), 28-29. https://doi.org/10.3917/i2d.151.0028.
[16] Pour le détail de ces deux listes de publications analysées/citées voir Annexe 7 et 8.

s'est appuyée **uniquement sur les publications scientifiques réunies**, et non sur des avis d'expert.e.s non sourcés.
Les pilotes scientifiques ont coordonné l'ensemble du travail d'organisation et de rédaction par les expert.e.s. Ils ont permis de faire émerger les messages transverses, croisant différents domaines, et les messages principaux pour les documents synthétiques (résumé et synthèse de l'expertise).

Les connexions faites entre les publications ont permis d'organiser l'architecture du rapport pour produire un état des connaissances et son analyse. Les éventuelles controverses scientifiques et manques de connaissances ont été mis en évidence au fil de l'argumentaire et en fin de sections et de chapitres.
Tout élément de l'argumentaire est sourcé et les sources sont citées. Toute conclusion a été établie sur la base de publications scientifiques. Dans la mesure du possible, les incertitudes sont qualifiées de façon à moduler la force des conclusions.
Les **controverses et limites ou lacunes scientifiques** ont été explicitement signalées dans l'argumentaire et en conclusion des sections. Toute affirmation est sourcée, et les incertitudes sont qualifiées pour nuancer les conclusions.

La synthèse a été rédigée par les pilotes scientifiques avec l'aide des cheffe.s de projet et des expert.e.s. à partir de messages clés identifiés par les expert.e.s. Les différentes versions de travail de la synthèse de l'expertise ont été relues, discutées et amendées avec le Comité de suivi (représentants des Instituts du CNRS) et la MPES. Elles visaient à la rédaction d'un document accessible par des non scientifiques et correspondant à la commande initiale, et aux besoins de connaissances scientifiques des acteurs du domaine. La synthèse a été soumise à relecture par le groupe d'expert.e.s.

À partir de cette synthèse, des échanges en comité de suivi et d'une présentation par les pilotes au comité d'orientation de l'expertise, un résumé a été produit par la MPES avec l'apport des pilotes, puis relecture par le groupe d'expert.e.s.
Les **notes produites des expert.e.s contributeur.ice.s**, suite à leur lecture d'un petit volume de publications, ont été rédigées par l'équipe de pilotage, puis partagées avec le groupe pour enrichir la rédaction du rapport et de la synthèse.

L'écriture du rapport a été collective. Chaque section, rédigée selon une modalité collaborative sur la plateforme gouvernementale RESANA, a été organisée et supervisée par les pilotes et un.e responsable identifié.e au sein du collectif d'expert.e.s afin de coordonner le travail et faire émerger les éléments clés et pluridisciplinaires. Deux responsables par axe ont eu la charge de coordonner l'écriture, organiser des groupes de travail et faire émerger les éléments principaux et les aspects interdisciplinaires. Outre l'écriture sur leurs domaines de spécialité, les pilotes ont travaillé à la cohérence des différentes contributions, à la structuration des chapitres ainsi qu'au lissage du texte.
Un **processus de relectures croisées** (au moins deux expert.e.s par section, dont les pilotes qui ont relu l'intégralité du rapport) garantit l'impartialité du travail réalisé, conformément à la charte du CNRS.

2 ANNEXE 2 : description des labels

Pour chaque label des termes en anglais sont mentionnés en parenthèses pour identifier les mots-clés susceptibles de figurer dans les publications scientifiques sur le sujet.

2.1 Label – Caractérisation des interfaces

L'interface ville — espace naturel (Rural Urban Interface/Wildland-Urban Interface, WUI) désigne les zones où les constructions humaines entrent en contact direct avec la végétation naturelle. Elles concentrent une exposition humaine (Human Exposure) quantifiable aux incendies, souvent d'origine humaine, avec une fréquence d'occurrence (Fire occurrence) importante.
Elle résulte de processus d'urbanisation (Urbanization) et de changement d'usage des sols (Land Use Change), dans un contexte de croissance urbaine (Urban Growth). La vulnérabilité croissante de ces zones appelle des stratégies de prévention (Prevention Strategies) et l'adaptation des politiques incendie (Fire Policies).
Ces espaces sont caractérisés par une densité résidentielle variable (Housing Density) qui présente des configurations spatiales (Spatial Patterns) complexes, identifiables grâce à la cartographie et aux SIG (Mapping/GIS). Il existe des méthodes de définition pouvant être floues (Fuzzy) afin d'adapter au contexte spécifique sur des territoires hétérogènes.

2.2 Label – Aléas

Les feux de forêts et de végétation constituent un aléa historique dans le Sud de la France. Cet aléa est favorisé par l'occurrence de conditions météorologiques extrêmes (*fire weather conditions*), liée, par exemple à la conjonction de vagues de chaleur et de sécheresses formant des évènements extrêmes conjoints (*compound hazards*). Cet aléa est également favorisé par une végétation facilement inflammable (fuel) pendant la saison estivale. Ces évènements sont plus probables et plus intenses sous l'effet du changement climatique anthropique (*climate change impacts*), le changement climatique provoque ainsi un danger incendie (*fire danger*) plus marqué. De plus, le changement climatique induit également des évolutions défavorables de la végétation (mortalité, accumulation) qui, combinées aux changements d'occupation des sols liés à la déprise agricole (*land use, land cover change*), favorisent la présence de combustibles hautement inflammables et en grande quantité sur de grandes superficies. L'ensemble de ces facteurs conduit à un changement de régime des feux (*fire regime*), à leur extension géographique et à l'allongement de la saison des feux.
Le comportement extrême des feux (*extreme fire behavior*) résulte de processus multi-physiques multi-échelles. Leur propagation (*fire spread*) est pilotée principalement par les interactions entre le feu et l'atmosphère : en modifiant le vent en surface et en changeant sa direction, le feu crée sa propre dynamique. Cet emballement est associé à plusieurs phénomènes extrêmes comme le passage en cime des feux (*crowning*), la génération massive de brandons (*firebrands*) et de sautes de feu (spotting), la formation de pyrocumulonimbus (*pyroconvection*) pouvant conduire à des comportements erratiques du feu. L'interaction entre les conditions de vent en surface et la topographie du terrain (*topography*) peut également conduire à des comportements éruptifs du feu.
En Europe et particulièrement en France, les départs de feu (*wildfire ignition*) sont le plus souvent le fait d'actions humaines (*human-caused fires*) et ont lieu essentiellement aux interfaces forêt-habitat où la densité d'habitation (housing density) reste marquée. Les incendies peuvent ainsi être considérés comme un aléa naturel fortement anthropisé. De par leur localisation, ils peuvent amener à une propagation dans les espaces urbanisés et à la combustion d'infrastructures (structure ignition), avec de multiples répercussions sur la sécurité des biens et des personnes. La stratégie d'attaque des feux naissants vise à limiter la superficie brûlée par les feux, à les empêcher de générer leurs propres dynamiques et à protéger les zones habitées vulnérables. La modélisation des feux (*fire modeling*) peut permettre de concevoir des outils prédictifs du comportement des feux (*predictive tool*) en s'appuyant sur des approches nouvelles, telles que la modélisation couplée feu-atmosphère (*coupled fire-atmosphere modeling, LES*) et ainsi

anticiper les niveaux de danger et d'exposition donnés, ce qui permettrait d'aller vers une analyse de risque plus complète et détaillée. De plus, l'évolution future des interfaces forêt-habitat sous l'effet des facteurs socio-économiques (*socio-economic drivers*) — en lien direct avec l'expansion urbaine et la déprise agricole — est un paramètre important à considérer pour la prévention de l'aléa incendie.

2.3 Label – Vulnérabilité

La vulnérabilité se définit comme la propension d'un enjeu (humain, matériel, environnemental, etc.) à subir des dommages face à l'existence et l'occurrence d'un aléa. Dans le domaine de la gestion des risques naturels retenu ici, les définitions courantes de la vulnérabilité décrivent plutôt un état antérieur à l'événement (*i.e.* l'incendie). Termes connexes : sensibilité, exposition, risque subi.
Certains champs de recherche (notamment sur le changement climatique) englobent également dans la vulnérabilité la capacité à faire face et à récupérer après l'événement (termes connexes : adaptation, résistance, résilience). Ces dimensions seront traitées dans d'autres labels : impact, crise.
La vulnérabilité aux incendies peut être sociale. C'est celle des communautés locales (*community*) et des quartiers périurbains, des habitants selon leurs caractéristiques socio-démographiques (*Socio economic factors*) comme la pauvreté, l'âge, etc. Elle est souvent le reflet des inégalités (*inegality*). Elle dépend également de la culture du risque et de sa perception.
La vulnérabilité peut être structurelle et dépendre de la morphologie urbaine (densité par exemple), des caractéristiques du bâti et des matériaux de construction, de leur inflammabilité et de leur résistance au feu (*Building vulnerability, Structure response, Home ignitability, Building design*). Elle dépend également de l'accessibilité (*access*) et de l'équipement en moyens de protection (*water supply*).
La vulnérabilité a une dimension socio-spatiale (géographique) car les villes et les quartiers sont inégalement exposés à l'aléa et inégalement protégés. Elle évolue du fait des processus d'urbanisation ou de l'abandon de certains espaces (*land use, land cover, land abandonment*).
Évaluer et cartographier la vulnérabilité des interfaces urbaines et de leurs habitants est un enjeu majeur pour limiter l'impact des incendies (*Vulnerability modelling, mapping, fuzzy logic*).

2.4 Label – Les impacts

Les impacts rassemblent l'ensemble des conséquences des feux sur les systèmes écologiques affectant la biodiversité et le fonctionnement des écosystèmes, sur l'environnement physique particulaire ou élémentaire (chimique), sur la perception des populations humaines à leur environnement, et sur les implications économiques, sociales et politiques.
Nota bene : Les impacts sur la santé humaine ne sont pas couverts par cette expertise[17].

2.5 Label – Changements globaux

Changements climatiques & dynamiques d'aggravation du risque (tous les drivers : climatiques, biotiques, sociaux, etc.)

Les conditions climatiques influent sur les incendies ou feux de forêts qui sont souvent considérés comme un évènement extrême. Leur investigation suit généralement les approches utilisées pour étudier les événements extrêmes du climat. De multiples facteurs peuvent se conjuguer pour produire un effet amplificateur à travers leur effet composé. Trois catégories d'études existent sur cette thématique :
1. La première catégorie d'études recherche les facteurs d'influence pour les feux de forêt et propose des indicateurs simples ou composés pour mesurer les risques ou dangers du feu. Quelle est la pertinence de ces indicateurs ?
2. Comme tout autre type d'événements extrêmes, on a besoin de détecter leur présence dans le climat présent, et leur évolution dans le climat historique des décennies récentes. Il est aussi indispensable de

[17] https://www.anses.fr/fr/content/feux-de-foret-effets-sur-sante

faire des simulations de sensibilité pour pouvoir attribuer la présence des événements ou leur évolution à la cause au changement climatique anthropique.
3. Finalement, quel est l'avenir des feux dans une projection climatique future ? Dans la plupart des cas, il s'agit d'évaluer la future évolution des conditions climatiques favorables à l'apparition des incendies.

2.6 Label — Instruments et outils de gestion, prévention & réparation (société)

2.6.1 Ex ante et ex post

La gestion du risque incendie repose aujourd'hui sur un ensemble d'outils et de dispositifs visant à renforcer la perception du risque et à encourager des actions concrètes de mitigation. Les campagnes d'éducation et de communication ciblées jouent un rôle central pour accroître la saillance de la menace et sensibiliser les habitants. Elles contribuent à développer la connaissance et la confiance, deux leviers essentiels pour stimuler l'adoption de bonnes pratiques préventives. Les incitations financières constituent des instruments efficaces pour favoriser l'auto-protection et la souscription d'assurances. Ces outils renforcent également les normes collectives qui valorisent la responsabilité individuelle et la solidarité au sein de la communauté. En combinant la communication et les incitations financières, les pouvoirs publics peuvent renforcer la réponse des habitants et soutenir une dynamique collective de résilience face au risque incendie.

2.7 Label — Prévention (biens et bâti)

Cette section examine les stratégies de prévention du risque incendie pour la protection des biens et des personnes, mises en œuvre dans les territoires à forte exposition au feu (*fire-prone landscapes*), notamment aux interfaces forêt-habitat. Deux axes complémentaires sont abordés : d'une part, la gestion du combustible (fuel management) et du paysage (*landscape management*), incluant les mesures de débroussaillage et le choix d'espèces végétales en fonction de leur inflammabilité (*plant flammability*) afin de créer une zone défendable (*defensible space*) ; d'autre part, l'utilisation de matériaux de construction résistants au feu (*building material*) pour limiter la vulnérabilité des structures.
La mise en œuvre d'actions de réduction du risque (*risk mitigation*), d'auto-protection (*auto-protection*) ou de défense individuelle (*self defense*) repose sur un cadre réglementaire composé de lois, normes, recommandations et réglementations (*law / regulation/recommendation/standard*). Des études expérimentales, menées en laboratoire ou à l'échelle du terrain (*field scale*), ainsi que les études post-incendie (*post-fire study*), fournissent des retours d'expérience précieux. Elles permettent d'identifier de bonnes pratiques en matière d'aménagement paysager (*garden design*) et de renforcement des bâtiments (*built environment*) pour tendre vers des constructions plus résilientes (*resilience*).

2.8 Label — Gestion de crise et lutte

(Prévision des évènements et du danger à horizon 3 et/ou 1 jours)
Ce label concerne un ensemble de références traitant anticipation, surveillance, lutte et communication pendant le feu. L'anticipation du danger combine prévisions météo-feu, attribution du rôle du changement climatique et modélisation probabiliste de l'exposition et de la vulnérabilité jusqu'à l'échelle locale.
La surveillance s'appuie à la fois sur la télédétection, les réseaux de capteurs, les patrouilles au sol et l'observation citoyenne pour mettre à jour en continu les indicateurs de propagation et déclencher l'alerte.

La communication de crise et la réponse tactique mobilisent la coordination inter-services, les médias traditionnels et sociaux, ainsi que l'éventail des stratégies de lutte — feux défensifs, coupures de combustible, moyens aériens et terrestres — afin de protéger populations et infrastructures.

2.9 Label — Aménagement (outils et normes d'urbanisme à échelle du quartier)

Ce label inclut les publications relatives à la prise en compte du risque incendie dans les outils et procédures d'aménagement et l'urbanisme des zones d'interface (Urban Planning). Il englobe les outils de gestion et de régulation des modes d'occupation du sol et de leurs changements à l'échelle de la ville. En particulier, la maîtrise de l'urbanisation (Urbanization) et la protection des zones agricoles et naturelles (Land Use Change ; Peri-urban Areas ; Land Abandonment ; Land Cover ; Urban Sprawl), ainsi que l'inclusion du risque dans d'autres politiques publiques d'aménagement et d'urbanisme : nature en ville (corridor ; trame verte ; ecosystem services), lutte contre le changement climatique (thermal confort ; urban heat) par exemple.
Il inclut également les outils et les normes en matière de planification urbaine à l'échelle du quartier et du bâtiment : plans de prévention et normes d'urbanisme permettant de réduire la vulnérabilité (Risk Mitigation ; community adaptation) au feu (Fire Ignition, Fire spread) des habitats (housing), des activités, des infrastructures, en limitant le combustible (Fuel Management, Ornemental vegetation, Hedge), en concevant des quartiers défendables (Urban Pattern / design ; Defensible area / space), correctement équipés (water supply, access) et des bâtiments résistants au feu (Building Vulnerability) pour faire face à une crise (Evacuation ; Disaster Management).

Le label aménagement se distingue du label gouvernance par le focus mis sur les outils, les normes et les procédures d'aménagement. Le label gouvernance considère les décisions, les arbitrages et les acteurs.

2.10 Label — Gouvernance

Qui doit faire quoi ? Quels sont la hiérarchie et les processus décisionnels ? Avec quoi gouverner (outils) ? Quels sont les normes, les lois, les médias, les incitations sociales ?
La gouvernance des incendies à l'interface ville — espace naturel implique de relever un grand nombre de défis. La multiplication des incendies destructeurs observés ces dernières années, le nombre croissant de victimes et les dégâts causés aux infrastructures et aux bâtiments démontrent une incapacité grandissante des autorités à gérer la montée en puissance des incendies qui se développent à proximité immédiate des zones urbaines, y compris les plus densément peuplées et celles soumises à des règlements d'urbanisme et/ou de gestion préventive stricts.
Cet échec impose de repenser la gouvernance en tenant compte de différentes dimensions de l'action publique et/ou privée : diversité des parties prenantes (approche multi-niveaux et coordination institutionnelle) ; acceptabilité sociale des mesures de prévention ; stratégies intégrées basées sur la résilience socio-écologique ; gestion de l'accumulation de combustible et anticipation de l'intensification des feux.
Les évènements critiques — « catastrophiques » — qui ont eu lieu ont parfois ouvert des « fenêtres d'opportunité » permettant aux politiques publiques d'évoluer et de dépasser le paradigme de la « suppression du feu » qui a été — et reste souvent — un objectif unique. Entre suppression et laisser-faire, des solutions intermédiaires multiples émergent. Le développement de surfaces agricoles en couronne périurbaine, les pratiques de pâture animale, les feux prescrits ou des mesures préventives de limitation des corridors végétalisés sont autant de perspectives de renouvellement de l'action publique/collective au-delà des cadres purement réglementaires. Les acteurs adoptent souvent des positions tranchées sur ces questions d'écologie politique à fort enjeu social.
Le processus d'adaptation aux nouvelles réalités du risque doit également tenir compte des questions économiques et assurantielles, autour de débats sur le partage des coûts et responsabilités de la prévention et de la reconstruction.

2.11 Label — Feux & société

Ce label concerne les comportements et les prises de décision des résidents pour faire face aux incendies. On met l'accent ici sur les réactions des populations, en intégrant des dimensions psychosociales, environnementales (paysage) et urbaines (planification). Parmi les dimensions psychosociales, on mettra l'accent sur la perception du risque, les relations aux lieux (attachement au lieu, identité de lieu), les facteurs socio-démographiques et les valeurs collectives.
Du point de vue des individus, le sentiment d'auto-efficacité perçue, ainsi que les connaissances, issues notamment de la communication, de l'éducation et de la sensibilisation aux bonnes pratiques, sont des facteurs à intégrer. Du point de vue collectif, on s'intéresse à la résilience communautaire et aux réponses collectives qui peuvent être soutenues par les politiques publiques.

3 ANNEXE 3 : listes cœurs des articles retenus par label

3.1 Liste cœur — Label — Caractérisation des interfaces

Amato F, Tonini M, Murgante B, Kanevski M. Fuzzy definition of Rural Urban Interface: An application based on land use change scenarios in Portugal. Environmental Modelling & Software. juin 2018 ; 104:171- 87.

Ban H, Ahlqvist O. Representing and negotiating uncertain geospatial concepts — Where are the exurban areas? Computers, Environment and Urban Systems. juill 2009;33(4):233-46.

Bar-Massada A, Alcasena F, Schug F, Radeloff VC. The wildland — urban interface in Europe: Spatial patterns and associations with socioeconomic and demographic variables. Landscape and Urban Planning. juill 2023;235:104759.

Bento-Gonçalves A, Bento-Gonçalves A, Bento-Gonçalves A, Vieira A, Vieira A, Vieira A. Wildfires in the wildland-urban interface: Key concepts and evaluation methodologies. Science of The Total Environment. 2020;

Chappaz F, Ganteaume A. Role of land-cover and WUI types on spatio-temporal dynamics of fires in the French Mediterranean area. Risk Analysis. mai 2023 ; 43(5) : 1032-57.

Darques R. Mediterranean cities under fire. A critical approach to the wildland—urban interface. Applied Geography. mai 2015 ; 59:10-21.

Del Giudice L, Arca B, Scarpa C, Pellizzaro G, Jahdi R, Duce P, et al. Characterizing and Mapping the Wildland-Anthropic Interface of the Italy-France Maritime Cooperation Area. In: The Third International Conference on Fire Behavior and Risk [Internet]. MDPI; 2022 [cité 25 juin 2025]. p. 48. Disponible sur : https://www.mdpi.com/2673-4931/17/1/48

Guo Y, Wang J, Ge Y, Zhou C. Global expansion of wildland-urban interface intensifies human exposure to wildfire risk in the 21st century. Sci Adv. 8 nov 2024;10(45):eado9587.

Jenerette GD, Anderson KE, Cadenasso ML, Fenn M, Franklin J, Goulden ML, et al. An expanded framework for wildland—urban interfaces and their management. Frontiers in Ecol & Environ. nov 2022;20(9):516-23.

Koutsias N, Allgöwer B, Kalabokidis K, Mallinis G, Balatsos P, Goldammer J. Fire occurrence zoning from local to global scale in the European Mediterranean basin: implications for multi-scale fire management and policy. iForest. 26 avr 2016 ; 9(2) : 195-204.

Lampin-Maillet C, Bouillon C, Long-Fournel M, Morge D, Jappiot M. Guide de cartographie et caractérisation des interfaces habitat-forêt. Convention n° 2008 11 9 071 U du ministère de l'Écologie, de l'Énergie, du Développement durable et de la Mer. 2010 ; 68.

Lampin-Maillet C, Jappiot M, Long M, Bouillon C, Morge D, Ferrier JP. Mapping wildland-urban interfaces at large scales integrating housing density and vegetation aggregation for fire prevention in the South of France. Journal of Environmental Management. janv 2010 ; 91(3) : 732-41.

Le Fur O, Savazzi R, Maillé E, Reymond B, Kizirian L. Classification des zones bâties vulnérables aux incendies dans l'interface bâtiments-végétation : démarche, méthodologie et utilisation. Ministère de la Transition Écologique, Direction Gestion et de la Prévention des Risque Naturels (DGPR). 2024 ;

Luis Galiana Martín, Luis Galiana-Martín, G. Herrero, Gema Herrero, J. R. Solana, Jesus Solana. A Wildland—Urban Interface Typology for Forest Fire Risk Management in Mediterranean Areas. Landscape Research. 2011;

Modugno S, Balzter H, Cole B, Borrelli P. Mapping regional patterns of large forest fires in Wildland—Urban Interface areas in Europe. Journal of Environmental Management. mai 2016 ; 172:112- 26.

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4 ANNEXE 4 : liste des termes retenus par niveau de filtrage et par label

Label — Caractérisation des interfaces

Mots clés de filtrage niveau 1 :

Land Use Change
Land Cover Change
Housing Density
Urban growth
Fire policies
Spatial Patterns
Human Exposure
Rural Urban Interface
Interface fuel
Housing growth
Fire occurrence
Community
Prevention strategies
WUI Mapping
Morphology / density

Termes estimés trop généraux par le groupe d'expert.e.s :
~~Wildland Urban Interface~~

Termes methodologique de filtrage niveau 2 b :

Urbanization
Map
Fuzzy
Typology
Spatial analysis

Termes estimés trop généraux par le groupe d'expert.e.s :
~~Scale~~ (trop général)

Label — Aléas

Mots clés de filtrage niveau 1 :

Fire Weather conditions
Compound hazards
Climate change impacts
Land cover change
Extreme fire behavior
Crowning
Firebrands
Spotting
Pyroconvection
Topography
Wildfire ignition
Human-caused fires
Housing density
Structure ignition
Predictive tool
Coupled fire-atmosphere modeling
Large-eddy simulation
Socio-economic drivers
Spatio-temporal dynamics
Distribution of WUI
WUI Fire Fatalities
Space—time process
Large outdoor fires
Bushfire risk
Wildland fires behaviour
Post-fire
Extreme fire behaviour

Termes estimés trop généraux par le groupe d'expert.e.s :
~~Fuel~~
~~Fire spread~~
~~Land use~~
~~Fire modeling~~
~~Fire danger~~
~~Fire regime~~

Termes methodologique de filtrage niveau 2 b :
Review
Fire danger indices
Timescales
Convection-permitting simulations
Fire safety science research
Meteorological effects

Label — Vulnérabilité

Mots clés de filtrage niveau 1 :

Building vulnerability
Building design
Structure ignition
Structure response
Vulnerability modelling
Elderly
Inegality
Poverty / Low income
Land abandonment/Land cover
Socio economic factors
Risk perception
(Hydrant) water supply
Access
Density
Assurance/insurance
Dwelling
Home ignitability
Community
Social
Building
House

Termes estimés trop généraux par le groupe d'expert.e.s :
~~Land use~~ (trop général)

Termes methodologique de filtrage niveau 2 b :
Fire resistance data
Fuzzy logic
Mapping
Exposure factor

Label — Les impacts

Mots clés de filtrage niveau 1 :

Urban expansion
Human population
Displacement
Elderly
Low income
Indoor exposure
Pollution
Housing market
Gentrification
Property values
Rebuilding
Insurance
Reinsurance

Smoke exposure
Economic loss
Economic cost
Ecosystem dynamics
Biodiversity
Damage analysis
Erosion
Runoff
Securization
Cat bonds
Hedonic prices
Ecosystem services
House loss
Fire-impacted environments
Anthropogenic land cover
Buildings destroyed
Community wildfire events
Risk perception
Community changé pour community wildfire events

Termes estimés trop généraux par le groupe d'expert.e.s :
~~Carbon~~
~~Soil~~
~~Policy~~

Termes methodologique de filtrage niveau 2 b :
Qualitative data
Risk-modeling
Cat bonds analysis
PM exposure
Non-proportional reinsurance
Review

Label — Changements globaux

Mots clés de filtrage niveau 1

Fire danger
Fire occurrence probability
Extreme events
Human-caused
Detection of fire-prone climate extremes
Attribution of fire to anthropogenic climate change
Ecosystem dynamics (fuel)
Fuel aridity
Heat wave
Compound effect
Climate fire relationship
Fire perimeter
Fire season severity
Anthropogenic warming
Wildland—Urban Interface
Weather risk

Impact on society
Drought conditions
Fuel availability

Termes estimés trop généraux par le groupe d'expert.e.s :
~~Fire regime~~
~~Fire weather~~
~~Fire season~~
~~Fire risk~~
~~Drought~~
~~Extreme fire~~
~~Fire drivers~~
~~Fire intensity~~
~~Land use~~
~~Wildfire~~

Termes méthodologiques de filtrage niveau 2 b :
Satellite data
ERA5
Coordinated approach
Climate model projections
Fire incidents database
Long-term prediction

Label — Instruments et outils de gestion, prévention & réparation (société)

Mots clés de filtrage niveau 1

Risk perception
Risk mitigation
Homeowner behavior
Residents responses
Community resilience
Trust
Insurance
Norms
Communication
Salience
Awareness
Knowledge
Social-psychological drivers
Public response
Resilience
Mitigation actions
Behavioral intentions
Preparedness
Financial incentives
Self insurance
~~auto-~~Protection (terme initial, considéré trop précis et remplacé)
Firewise practices
Prévention
Belief

Fire-prone landscapes

Termes méthodologiques de filtrage niveau 2 b :Review
Laboratory markets
Coordinated approach
Experiment

Label — Prévention (biens et bâti)

Mots clés de filtrage niveau 1

Fire-prone landscapes
Risk mitigation
Resilience
Landscape management
Land-use planning
Mitigation actions
Building material
Wildfire safety
Homeowner
Defensible space
Built environment
Garden design
Construction requirements
Law/regulation / recommandation/standard
Self defense
Protection
Plant flammability
Combustion properties
Flammability study

Termes estimés trop généraux par le groupe d'expert.e.s :
~~Fuel management~~

Termes méthodologiques de filtrage niveau 2 b :Large scale / field scale
Review
Post-fire study
Laboratory tests

Label — Gestion de crise et lutte

Mots clés de filtrage niveau 1 :

Extreme fire weather
Probability
Vulnerability
Fire behavior
Human-induced climate change
Fire severity / burn severity
Evacuation decision

Fuel aridity
Firefighting
Fire suppression
Active detection
Surveillance system
Alert
Warning
Crisis communication
Emergency
Urban fire model
Digital strategies
High-latitude warming
Communication system
Community safety
Efficient evacuations
Anthropogenic climate change

Termes méthodologiques de filtrage niveau 2 b : Numerical
fire weather index
fire growth data
social media analytics
Web 3.0 integration
atmospheric variability
operational wildland fire model
Predicting firefighting operation
key information characteristics
review

Label — Aménagement — outils et normes d'urbanisme à échelle du quartier

Mots clés de filtrage niveau 1 :

Urban Planning
Land Use Change
Peri-urban Areas
Land Abandonment
Risk Mitigation
Landscape Change
Land Cover
Urban Sprawl
Fire Ignition
Fire Spread
Fuel Management
Urban Pattern / design
Thermal Comfort
Building Vulnerability
Defensible area / space
Housing
Evacuation
Disaster Management
Urban Heat
Ecosystem Services

Community Adaptation
Water Supply
Corridor
Fuel
Ornemental vegetation
Hedge
Clearing
Trame verte

Termes méthodologiques de filtrage niveau 2 b :
Urbanization

Label — Gouvernance

Mots clés de filtrage niveau 1 :

Climate Change
Risk Mitigation
Resilience
Adaptive resilience
Community Adaptation
Land Use Planning
Social-Ecological Systems
Defensible Space / area
Protection Plan
Emergency Response
Insurance
Ecosystem Services
Fairness / Eveness
Socio-spatial Justice
Fire Safety
prescribed burning
Local planning
Participation
Public/private Stakeholder
Concertation
Acceptability
Policy networks
Innovation
Political ecology
Pathways / sustainability
Trust
Program / Public policy
Fire paradox
Social Conflict
Governance complexity
Gouvernance
Plans de prévention
Economic incentives

Termes estimés trop généraux par le groupe d'expert.e.s :
~~Fuel Management~~

Termes méthodologiques de filtrage niveau 2 b :
Qualitative data
GIS mapping
Review
Juridique
Management challenges
Simulation model
Resilience approaches
Survey

Label — Feux & société

Mots clés de filtrage niveau 1 :

Fire-prone areas
Prescribed burning
Homeowner
Place attachment
Place identity
Community response
Decision-making
Self-efficacy
Community resilience
Public awareness
Urban planning
Decision-making
Protective action
Cultural influence
Preparedness
Socio-demographic
Community response
Defensible space / area
Education
Enjeux sociaux
Sensibilisation
Justice
Vulnerabilty
Wildfire perceptions
Wildfire relationships
Impact on society
Community capacity

Termes estimés trop généraux par le groupe d'expert.e.s :
~~Behavior~~
~~Landscape~~
~~Communication~~
~~Risk perception~~

Termes méthodologiques de filtrage niveau 2 b : Survey
Behavior models
Protection motivation theory
Norm nudges

Community archetypes
Integrated framework

Pour l'ensemble des 11 labels, les terrains suivants ont été retenus par le groupe d'expert.e.s pour effectuer le filtrage niveau 2a géographique :

Termes géographiques de filtrage niveau 2a :

Europe
Californie
Colorado
Oregon
Canada
France
Espagne
Portugal
Grèce
Afrique du sud
Etats-Unis
DOM-TOM/DROM

5 ANNEXE 5 : l'étude INIST

5.1 Méthodologie appliquée à l'étude

5.1.1 Objectif

Cette étude réalisée pour l'**ESCo Incendies**, a pour objectif d'analyser le **corpus de 967 publications** triées par les experts scientifiques, portant sur le label thématique « vulnérabilité » à partir de l'extension par Research Rabbit.
Les publications du corpus ont été complétées (années de publication, résumés, etc.) et enrichies (mots-clés, classifications) avec des données provenant des bases du **Web of Science Core Collection** de Clarivate Analytics, et de la base **OpenAlex**.
Les publications ont été réparties en 8 chapitres selon le plan fourni par l'ESCo.

5.1.2 Démarche

Étape 1 : recherche en 2 temps des 972 publications du corpus fourni dans le WoS et dans OpenAlex à partir du DOI ou du titre+année pour compléter les données, et ainsi ajouter ou corriger des années de publication, résumés, auteurs, mots-clés d'auteurs ou des bases, classifications, sources, types de document, DOI, etc.
Étape 2 : vérification des doublons suite à la comparaison sur les identifiants, le DOI ou le titre+année+source : suppression de 5 doublons
Étape 3 : homogénéisation des données : auteurs, organismes, pays, sources, types de document, langues, SDG, etc.

5.1.3 Indicateurs

Les indicateurs, pour lesquels les nombres de publications ou co-publications sont présentés en facette ou dans un graphique —, sont les suivants :

- répartition par **année**
- répartition par **auteur** (en facette uniquement) (homogénéisations entre les différentes bases)
- répartition par **pays des auteurs, organisme, part de collaboration internationale** (homogénéisations entre les différentes bases)
- répartition par **chapitre et évolution temporelle**
- répartition par **catégorie scientifique WoS**

Les « Web of Science Categories » (ou « Subject Categories ») du « Journal Citation Reports » (JCR) caractérisent les périodiques et non pas les publications. Les catégories WoS ont été homogénéisées pour l'ensemble des documents par alignement thématique avec les Subfields d'OpenAlex

- répartition par **Sustainable Development Goal (SDG)** (données WoS et OpenAlex, homogénéisées)

Les « Sustainable Development Goals » ont été adoptés par l'Assemblée générale de l'ONU avec l'Agenda 2030 de Développement durable. D'ici à 2030, 17 SDG qui sont liés à 169 sous-objectifs doivent former un plan d'action afin de libérer l'humanité de la pauvreté et de remettre la planète sur la voie de la durabilité. Ces objectifs, qui ne font qu'un et qui sont indissociables, reflètent les trois dimensions du développement durable : les aspects économique, social et écologique.

- répartition par **InCites Citation Topic - Macro < Meso > Micro**, par **OpenAlex Primary Topic - Field > Subfield > Topic**

*Dans **InCites**, outil d'analyse de la performance de la recherche développé par Clarivate Analytics, les **Citation Topics** sont des clusters de citations calculés de manière algorithmique. Ils représentent un système de classification hiérarchique à trois niveaux (Macro > Meso > Micro) qui caractérise les*

publications.
*Le même processus de clusterisation est utilisé par **OpenAlex** (**OpenAlex Support : Topics**) pour attribuer une classification à plusieurs niveaux dont Field > Subfield > Topic.*

- répartition par **mot-clé d'auteurs**, **mot-clé (d'auteurs et termes extraits)**, **mot-clé des bases** (WoS Keywords Plus, OpenAlex Keywords)

*Les mots-clés d'auteurs sont présents dans 69 % des publications, ils proviennent des données WoS. Les mots-clés (d'auteurs et termes extraits) regroupent les mots-clés d'auteurs et les mots-clés extraits des titres et résumés (notamment à l'aide du **web service Teeft** développé au service TDM de l'INIST), homogénéisés sur les singuliers/pluriels essentiellement). Pour réaliser cette extraction de termes, certains titres et résumés ont été traduits.*
Les WoS Keywords Plus sont générés automatiquement par Clarivate Analytics à partir des titres des références citées dans les publications.
*Les OpenAlex Keywords sont générés de manière algorithmique à partir des Topics (**OpenAlex Support — Keywords**).*

- répartition par **site géographique détecté**, **zone géographique**

*Les sites géographiques ont été détectés dans le titre et le résumé des publications par des techniques de fouille de texte à l'aide du **web service geoTag** développé au service TDM de l'INIST, puis vérifiés et complétés. Ces sites géographiques ont ensuite été alignés, lorsque possible, avec le **thésaurus Pays et Subdivisions** réalisé au service ReLM de l'INIST, pour générer les zones géographiques correspondantes avec leur hiérarchie.*

- répartition par **source**, **type de document**, **langue** (homogénéisations entre les différentes bases)
- répartition par **donnée de science ouverte : libre accès, type d'accès, voie d'accès**

À partir de leurs DOIs, les publications ont été enrichies par des informations concernant leur disponibilité en « Open Access » (OA) grâce à un web service, développé par l'Inist-CNRS, permettant d'interroger Unpaywall (février 2026)

- répartition par **base** (WoS, OpenAlex)
- réseaux de **relations entre les organismes des auteurs, entre les mots-clés d'auteurs, entre les mots-clés (d'auteurs et termes extraits), les chapitres et les mots-clés**
- réseaux **VOSviewer** (en page d'accueil) : relations entre chapitres, entre mots-clés (d'auteurs et termes extraits), entre chapitres et mots-clés

5.1.4 Accès à la notice ou au texte intégral de la publication

En parcourant les résultats ou en cliquant sur le bouton « Recherche » (en bas de page), vous accédez aux références des publications et pouvez alors visualiser :

- grâce à son lien **DOI** (si présent), la notice éditeur (voire le texte intégral si celui-ci est en libre accès ou si vous bénéficiez d'un abonnement électronique à cet éditeur)
- grâce à l'identifiant OpenAlex (si présent), la notice dans cette base
- grâce au lien vers le pdf provenant d'OpenAlex (si présent), le texte intégral de la publication en pdf

5.1.5 Outils

Toutes les données sont traitées et les résultats (tableaux et représentations graphiques) mis en forme à partir du :

- tableur Excel
- logiciel Omniscope de la société Visokio, outil de visualisation et d'exploration des données
- logiciel libre Lodex, développé par l'Inist-CNRS

Cet outil permet de construire, à partir de données structurées, des tableaux de bord dynamiques sous forme de rapports web consultables en ligne.

- outil VOSviewer

Cet outil permet de construire et visualiser des réseaux bibliométriques.

5.1.6 Diffusion des données

La diffusion à des tiers de ce rapport web dynamique est limitée aux membres de l'organisme commanditaire. Toute communication ou diffusion au-delà est soumise à l'accord de l'Inist-CNRS. Toute communication ou diffusion des résultats complets ou partiels de cette étude dans le cadre d'une présentation ou de toute autre production dérivée doit porter la mention suivante :

Institut de l'information scientifique et technique (Inist-CNRS) — UAR76

6 ANNEXE 6 : la base de données WIFRI et la gestion des références et suivi de lectures et citations pour l'ESCo

La base de données WIFRI a donc été acheté pour l'ESCo et une analyse via des « *presets* » ou préréglages a été effectué. Ces préréglages sont les suivantes :

6.1 Filtres généraux

6.1.1 Préréglages :

I.1 Caractérisation des Interfaces
I.2 Aléas
I.3 Vulnérabilité
I.4 Les impacts
I.5 Changements globaux
II.1.1 Prévention et société
II.1.2 Prévention (biens et bâti)
II.2 Gestion de crise et lutte
II.3 Aménagement
II.4 Gouvernance
II.5 Feux et société

6.1.2 Tag plan :

Tous les plans
Plan I.1 Caractérisation Interfaces
Plan I.2 Aléas
Plan I.3 Vulnérabilité
Plan I.4 Impacts
Plan I.5 Changements globaux
Plan II.1 Gestion et prévention du risque
Plan II.2 Gestion de crise
Plan II.3 Aménagement et Gouvernance

6.1.3 Plage d'années :

1969 — 2025

6.1.4 Type :

Tous
Article
Actes (proceedings)
Livre
Rapport
Thèse

6.1.5 Listes de mots clés pour filtrage par niveau :

6.1.5.1 Niveau 1

Climate Change, Risk Mitigation, Resilience, Adaptive resilience, Community Adaptation, Land Use Planning, Social-Ecological Systems, Defensible Space / area, Protection Plan, Emergency Response, Insurance, Ecosystem Services, Fairness, Eveness, Socio-spatial Justice, Fire Safety, prescribed burning, Local planning, Participation, Public, private Stakeholder, Concertation, Acceptability, Policy networks, Innovation, Political ecology, Pathways, sustainability, Trust, Program, Public policy, Fire paradox, Social Conflict, Governance complexity, Gouvernance, Plans de prévention, Economic incentives

6.1.5.2 Niveau 2

Géographique

France, French, Outre-mer, Canada, Australia, USA, united states, California, Colorado, Oregon, Europe, Greece, Portugal, Spain, Italy, Mediterranean, méditerranéen

Méthodologique

Qualitative data, GIS mapping, Review, Juridique, Management challenges, Simulation model, Resilience approaches, Survey

Auteurs

Mots filtrés à exclure

Tri des résultats

Pertinence (puis année)
Années (ascendant)
Années (descendant)
Titre (A à Z)

(Possibilité d'export en JSONL, CSV ou RIS)

6.2 Méthodologie d'Ingénierie Documentaire et de Rédaction : Code/Méthode Open source

Expertise scientifique collective (ESCo) « Feux de forêt et interfaces ville — espace naturel »
Cadre institutionnel : Mission de Pilotage des Expertises Scientifiques (MPES) — CNRS
Outils et plateformes : WIFRI, Zotero, Markdown, Git (Forge CNRS Coda) et applications web PHP
Date de formalisation : Septembre 2026
https://src.koda.cnrs.fr/jean.baptiste.filippi/mpes

6.3 Constitution et Filtrage du Corpus Bibliographique

6.3.1 Introduction et Objectifs

L'Expertise Scientifique Collective (ESCo) « Feux de forêt et interfaces ville—espace naturel » a pour mission d'établir un état des lieux rigoureux, exhaustif et pluridisciplinaire des connaissances scientifiques disponibles à l'échelle internationale.

Afin de garantir la représentativité, la traçabilité et l'objectivité des analyses produites par le collège d'experts, la constitution du corpus bibliographique a reposé sur une **démarche méthodologique**

en entonnoir, hautement instrumentée : 1. **Extraction d'un corpus** de littérature scientifique sur les incendies de végétation. 2. **Filtrage multicritères en couches successives** (thématique, géographique, méthodologique, exclusion). 3. **Mise à disposition d'une suite d'outils web interactifs** (notamment base.html) pour explorer les fréquences lexicales et calibrer empiriquement les requêtes de filtrage (*presets*). 4. **Enrichissement automatisé des métadonnées** via des bases ouvertes (OpenAlex). 5. **Qualification humaine par le collège d'experts** au sein d'une bibliothèque partagée Zotero, aboutissant au corpus final des **1 020 références citées** dans le rapport.

6.3.2 Le Gisement Source : La Base WIFRI

Le point de départ documentaire repose sur l'intégration du gisement **WIFRI** (*Wildland Fire Research Information* — wifri.org), une des bases de données documentaires les plus complètes au monde spécialisée dans les sciences de l'incendie de végétation.

6.3.2.1 Caractéristiques de la base brute

- **Fichier source :** biblio-July.txt (~69 Mo).
- **Volumétrie : 165 384 références bibliographiques**.
- **Couverture temporelle :** De 1950 à 2025.
- **Format d'encodage :** Export textuel structuré de type EndNote (champs préfixés par %) en encodage UTF-8.

6.3.2.2 Structure des champs de métadonnées brutes

Chaque notice de la base est délimitée par une ligne vide et comprend les balises normalisées suivantes : * %A : Auteur(s) (une ligne par auteur ou liste délimitée). * %T : Titre de la publication. * %0 : Type de document (ex. Journal Article, Book, Conference Proceedings, Report, Thesis). * %B : Source / Revue / Actes de conférence / Ouvrage. * %D : Année de publication. * %K : Mots-clés indexés (séparateurs ;, ,, /, |). * %X : Résumé (*Abstract*) de l'article (souvent multiligne). * %M : Identifiant unique interne WIFRI. * %Z : Statut d'accès (ex. Open Access).

6.3.2.3 La Démarche de Filtrage en Couches (Keyword Layers)

Extraire un corpus pertinent pour l'ESCo nécessitait de passer d'un gisement généraliste feux de forêt (incluant feux de brousse en zones inhabitées, feux boréaux, chimie fondamentale de la combustion, etc.) à un corpus centré sur les **interfaces habitat-forêt, la vulnérabilité territoriale, les impacts socio-économiques, la prévention, la gestion de crise et la gouvernance**.

Le filtrage a été formalisé dans le fichier de configuration technique presets.json et documenté dans mots_cles_sections.txt.

6.3.2.4 Architecture du filtrage en entonnoir

Le mécanisme repose sur deux niveaux obligatoires et un filtre d'exclusion négatif :

5. **Niveau 1 — Filtrage Thématique Primaire (Inclusion) :**
    - Regroupe les termes de référence et concepts indispensables à la sous-thématique traitée (de 16 à 37 termes par preset).
    - L'interrogation s'effectue sur le titre, les mots-clés et le résumé de la notice.
6. **Niveau 2 — Filtres de Contextualisation (Géographique et Méthodologique) :**
    - **Volet Géographique :** Focalisation sur les territoires prioritaires pour l'expertise française ou offrant des retours d'expérience comparables et transposables :
        - *France & Outre-mer* (France, French, Outre-mer).
        - *Bassin Méditerranéen européen* (Europe, Greece, Portugal, Spain, Italy, Mediterranean, méditerranéen).
        - *Amérique du Nord* (Canada, USA, united states, California, Colorado, Oregon).

        - *Océanie* (Australia).
    - **Volet Méthodologique :** Ciblage selon les types d'approches scientifiques requises (ex. Spatial analysis, Review, Numerical, Survey, Fuzzy logic, Simulation model, etc.).
    - **Règle de combinaison :** Application distincte de la liste « géographique » et de la liste « méthodologique » sur le corpus issu du niveau 1, puis **fusion par union** (union) pour former l'extension documentaire qualifiée.
7. **Filtres d'Exclusion Négatifs (Mots filtrés) :**
    - Élimination systématique des faux positifs et bruits documentaires n'entrant pas dans le périmètre de l'expertise (ex. feux sous-marins/marins, contextes arctiques non habités, sinistres industriels chimiques sans végétation, feux agricoles purs hors interfaces).

6.3.2.5 L'Outil Web d'Exploration et de Calibrage : base.html

Pour permettre aux copilotes et aux experts d'explorer le gisement brut, d'analyser la terminologie réelle des articles et de construire des requêtes de filtrage robustes, un tableau de bord web interactif a été spécialement développé au sein de la suite d'outils MPES : **base.html**.

6.3.2.6 Architecture technique de l'outil

- **Nature :** Application monopage statique (*Single-Page Application*), sans aucun backend serveur requis.
- **Moteur d'indexation client (refhandler.js) :**
    - Lit et interroge des index légers shardés par année (index/year/), par type (index/type/) et par mots-clés (index/kw/).
    - Supporte le chargement instantané en mémoire d'une archive virtuelle pré-compactée (bundle.zip) décompressée à la volée via la bibliothèque fflate.
- **Visualisation graphique :** Utilisation de Chart.js pour les distributions annuelles et les séries temporelles empilées.

6.3.2.7 Fonctionnalités au service du collège d'experts

1. **Analyse de fréquences et nuage de mots dynamiques :**
    - L'outil extrait en temps réel le top 40 des mots et bi-grammes les plus fréquents apparaissant dans les résultats filtrés.
    - Cette analyse textuelle permettait aux experts d'identifier des variantes terminologiques anglophones (ex. *WUI*, *wildland-urban interface*, *intermix*, *rural-urban interface*, *defensible space*, *home ignitability*) et de les réinjecter immédiatement dans les listes de mots-clés.
2. **Sélecteur de Presets intégrés :**
    - Un menu déroulant précharge instantanément les requêtes calibrées pour chaque chapitre du rapport (I.1, I.2,..., II.5).

3. **Filtres dynamiques en temps réel :**
    - Ajustement de la plage chronologique (ex. 1990—2025).
    - Filtrage par type de document (Articles, Livres, Actes de colloque, Rapports, Thèses).
    - Gestion dynamique de couches de mots-clés superposées (*Keyword Layers*).
    - Exclusion en un clic de termes indésirables.
4. **Panneau de consultation et d'export :**
    - Affichage instantané du titre, auteurs, source, DOI et résumé complet de toute référence sélectionnée.
    - Export direct de la sélection courante aux formats **RIS**, **CSV** ou **JSONL**, facilitant l'import direct dans Zotero.

6.3.2.8 Répertoire Exhaustif des Presets et Mots-Clés par Section

Voici la transcription intégrale des filtres et mots-clés établis dans presets.json et mots_cles_sections.txt, correspondant à la structuration thématique de l'ESCo :

6.3.2.9 I.1 Caractérisation des interfaces

- **Mots-clés Niveau 1 (Thématique) :**
  Land Use Change, Land Cover Change, Housing Density, Urban growth, Fire policies, Spatial Patterns, Human Exposure, Rural Urban Interface, Interface fuel, Housing growth, Fire occurrence, Community, Prevention strategies, WUI Mapping, Morphology, density.
- **Niveau 2 — Géographique :**
  France, French, Outre-mer, Canada, Australia, USA, united states, California, Colorado, Oregon, Europe, greece, Portugal, spain, Italy, Mediterranean, méditerranéen.
- **Niveau 2 — Méthodologique :**
  Urbanization, Map, Fuzzy, Typology, Spatial analysis.

6.3.2.10 I.2 Aléas

- **Mots-clés Niveau 1 (Thématique) :**
  Fire Weather conditions, Compound hazards, Climate change impacts, Land cover change, Extreme fire behavior, Crowning, Firebrands, Spotting, Pyroconvection, Topography, Wildfire ignition, Human-caused fires, Housing density, Structure ignition, Predictive tool, Coupled fire-atmosphere modeling, Large-eddy simulation, Socio-economic drivers, spatio-temporal dynamics, distribution of WUI, WUI Fire Fatalities, Space—time process, large outdoor fires, bushfire risk, wildland fires behaviour, postfire, extreme fire behaviour.
- **Niveau 2 — Géographique :**
  (même liste standard internationale & méditerranéenne).
- **Niveau 2 — Méthodologique :**
  Review, fire danger indices, timescales, convection-permitting simulations, fire safety science research, meteorological effects.

6.3.2.11 I.3 Vulnérabilité

- **Mots-clés Niveau 1 (Thématique) :**
  Building vulnerability, building design, Structure ignition, Structure response, Vulnerability modelling, Elderly, Inegality, Poverty, Low income, Land abandonment, Land cover, Socio economic factors, Risk perception, (Hydrant) water supply, Access, Density, Assurance, insurance, Dwelling, Home ignitability, Community, Social, Building, House.
- **Niveau 2 — Géographique :**
  (même liste standard internationale & méditerranéenne).
- **Niveau 2 — Méthodologique :**
  Fire resistance data, fuzzy logic, exposure factor.

6.3.2.12 I.4 Les impacts

- **Mots-clés Niveau 1 (Thématique) :** Urban expansion, Human population, Displacement, Elderly, Low income, Indoor exposure, Pollution, Housing market, Gentrification, Property values, Rebuilding, Insurance, Reinsurance, Smoke exposure, Economic loss, Economic cost, Ecosystem dynamics, Biodiversity, Damage analysis, Erosion, Runoff, Securization, Cat bonds, Hedonic prices, Ecosystem services, House Loss, fire-impacted environments, anthropogenic land cover, buildings destroyed, community wildfire events.
- **Niveau 2 — Géographique :** *(même liste standard internationale & méditerranéenne).*
- **Niveau 2 — Méthodologique :** qualitative data, risk-modeling, cat bonds analysis, PM exposure, non-proportional reinsurance, review.

6.3.2.13 I.5 Changements globaux

- **Mots-clés Niveau 1 (Thématique) :** Fire danger, Fire occurrence probability, Extreme events, Human-caused, Detection of fire-prone climate extremes, Attribution of fire to anthropogenic climate change, Ecosystem dynamics, Fuel aridity, Heat wave, Compound effect, Climate fire relationship, Fire perimeter, Fire season severity, Anthropogenic warming, Wildland—Urban Interface, Weather risk, Impact on society, Drought conditions, Fuel availability.
- **Niveau 2 — Géographique :** *(même liste standard internationale & méditerranéenne).*
- **Niveau 2 — Méthodologique :** Satellite data, ERA5, Coordinated approach, Climate model projections, Fire incidents database, Long-term prediction.

6.3.2.14 II.1.1 Prévention & société

- **Mots-clés Niveau 1 (Thématique) :** Risk perception, Risk mitigation, Homeowner behavior, Residents responses, Community resilience, Trust, Insurance, Norms, Communication, Salience, Awareness, knowledge, Social-psychological drivers, Public response, Resilience, Mitigation actions, Behavioral intentions, Preparedness, Financial incentives, Self insurance, protection, Firewise practices, Prévention, belief, fire-prone landscapes.
- **Niveau 2 — Géographique :** *(même liste standard internationale & méditerranéenne).*
- **Niveau 2 — Méthodologique :** Review, Laboratory markets, Coordinated approach, Experiment.

6.3.2.15 II.1.2 Prévention (biens et bâti)

- **Mots-clés Niveau 1 (Thématique) :** Fire-prone landscapes, Risk mitigation, Resilience, Landscape management, Land-use planning, Mitigation actions, Building material, Wildfire safety, Homeowner, Defensible space, Built environment, Garden design, Construction requirements, Law, regulation, recommendation, standard, Self defense, Protection, Plant flammability, Combustion properties, Flamma.
- **Niveau 2 — Géographique :** *(même liste standard internationale & méditerranéenne).*
- **Niveau 2 — Méthodologique :** Large scale, field scale, Review, Post-fire study, Labor.

6.3.2.16 II.2 Gestion de crise et lutte

- **Mots-clés Niveau 1 (Thématique) :** extreme fire weather, probability, vulnerability, fire behavior, human-induced climate change, fire severity, burn severity, evacuation decision, fuel aridity, Firefighting, Fire suppression, Active detection, Surveillance system, Alert, Warning, Crisis communication, Emergency, Urban fire model, Digital strategies, High-latitude warming, Communication system, Community safety, Efficient evacuations, Anthropogenic climate change.
- **Niveau 2 — Géographique :** *(même liste standard internationale & méditerranéenne)*.
- **Niveau 2 — Méthodologique :** Numerical, fire weather index, fire growth data, social media analytics, Web 3.0 integration, atmospheric variability, operational wildland fire model, Predicting firefighting operation, key information characteristics, review.

6.3.2.17 II.3 Aménagement

- **Mots-clés Niveau 1 (Thématique) :** Peri-urban Areas, Land Abandonment, Risk Mitigation, Urban Sprawl, Fire Ignition, Fire Spread, Fuel Management, Urban Pattern, urban design, Thermal Comfort, Building Vulnerability, Defensible area, defensible space, Housing, Evacuation, Disaster Management, Urban Heat, Ecosystem Services, Community Adaptation, Water Supply, Corridor, Ornemental vegetation, Hedge, Clearing, Trame verte, protection cost, friche, dwellings, municipal level, gentrification, urban growth.
- **Niveau 2 — Géographique :** *(même liste standard internationale & méditerranéenne)*.
- **Niveau 2 — Méthodologique :** Urbanization.

6.3.2.18 II.4 Gouvernance

- **Mots-clés Niveau 1 (Thématique) :** Climate Change, Risk Mitigation, Resilience, Adaptive resilience, Community Adaptation, Land Use Planning, Social-Ecological Systems, Defensible Space / area, Protection Plan, Emergency Response, Insurance, Ecosystem Services, Fairness, Eveness, Socio-spatial Justice, Fire Safety, prescribed burning, Local planning, Participation, Public, private Stakeholder, Concertation, Acceptability, Policy networks, Innovation, Political ecology, Pathways, sustainability, Trust, Program, Public policy, Fire paradox, Social Conflict, Governance complexity, Gouvernance, Plans de prévention, Economic incentives.
- **Niveau 2 — Géographique :** *(même liste standard internationale & méditerranéenne)*.
- **Niveau 2 — Méthodologique :** Qualitative data, GIS mapping, Review, Juridique, Management challenges, Simulation model, Resilience approaches, Survey.

6.3.2.19 II.5 Feux & société

- **Mots-clés Niveau 1 (Thématique) :** Fire-prone areas, Prescribed burning, Homeowner, Place attachment, Place identity, Community response, Decision-making, Self-efficacy, Community resilience, Public awareness, Urban planning, decision-making, protective action, cultural influence, preparedness, socio-demographic, community response, defensible space, defensible area, education, enjeux sociaux, sensibilisation, justice, vulnerability, wildfire perceptions, wildfire relationships, impact on society, community capacity.

- **Niveau 2 — Géographique :** *(même liste standard internationale & méditerranéenne).*
- **Niveau 2 — Méthodologique :** Survey, behavior models, protection motivation theory, norm nudges, community archetypes, integrated framework.

6.3.3 Du Filtrage WIFRI au Corpus Final du Rapport

La phase finale de constitution du corpus a articulé enrichissement algorithmique et sélection critique humaine :

1. **Enrichissement automatisé des métadonnées (OpenAlex) :**
   - Grâce aux scripts fire_ref_db.py et getMoreMetadataOpenAlex.py, les notices brutes WIFRI sélectionnées ont été interrogées auprès de l'API OpenAlex.
   - Cette étape a permis de récupérer les **DOI manquants**, de compléter les résumés (*abstracts*), de fiabiliser les attributions d'auteurs et d'ajouter les identifiants numériques pérennes.
2. **Intégration dans le Groupe Zotero Partagé :**
   - Les références sélectionnées ont été injectées dans le groupe collaboratif Zotero de l'ESCo (biblio-esco.json).
   - Les experts ont pu annoter, taguer et évaluer la pertinence de chaque publication pour la rédaction de leur chapitre respectif.

6.4 Méthodologie d'Ingénierie Documentaire et de Rédaction — Code/Méthode Open source

Expertise scientifique collective (ESCo) « Incendie de végétation et interfaces ville—espace naturel »
Cadre institutionnel : Mission de Pilotage des Expertises Scientifiques (MPES) — CNRS / INRAE
Outils et plateformes : WIFRI, Zotero, Markdown, Git (Forge CNRS Koda) et applications web PHP
Date de formalisation : Septembre 2026
https://src.koda.cnrs.fr/jean.baptiste.filippi/mpes

6.5 Organisation de la Rédaction, Suivi et Inclusion

6.5.1 Principe général

Après la constitution et le filtrage initial du corpus bibliographique, la phase de rédaction nécessite de suivre simultanément :

- les références attribuées à chaque expert ;
- leur état de lecture ;
- leur éventuelle exclusion du corpus ;
- leur affectation aux différentes parties du rapport ;
- leur utilisation effective dans les textes rédigés.

Pour assurer ce suivi, un ensemble d'outils a été développé autour de quatre composants principaux :

3. une bibliothèque bibliographique partagée sous **Zotero** ;
4. des textes rédigés en **Markdown**, contenant les clés bibliographiques Zotero ;
5. un dépôt **Git** utilisé pour le versionnement des textes et des outils ;
6. des interfaces web développées en **PHP** permettant de croiser automatiquement les informations bibliographiques avec l'état réel de la rédaction.

Les applications web nécessitent donc un serveur disposant d'un environnement PHP. Les différents paramètres du projet (correspondance entre chapitres, tags Zotero, fichiers de rédaction et contributeurs) sont définis dans des fichiers de configuration afin de pouvoir adapter l'outil à la structure du rapport.

6.5.2 Organisation de la bibliothèque Zotero

La bibliothèque Zotero constitue la référence centrale pour le suivi du corpus.

Les notices bibliographiques sont enrichies au moyen de tags normalisés correspondant principalement à trois types d'informations :

- l'attribution d'une référence à un expert ;
- l'état de lecture ou la décision d'exclusion ;
- l'affectation de la référence à une partie du plan du rapport.

Cette organisation permet d'utiliser Zotero à la fois comme gestionnaire bibliographique et comme outil de suivi du traitement scientifique des références.

6.5.2.1 Attribution aux experts

Chaque contributeur est identifié par ses initiales.

Une référence à examiner peut par exemple être marquée : exemple « CB Lecture »

Ce tag indique que la référence est attribuée à l'expert correspondant pour lecture et analyse.

Le même principe est appliqué à l'ensemble des contributeurs.

6.5.2.2 Suivi de la lecture

Après examen d'une publication, son état peut être indiqué par un tag de lecture, par exemple : Lu ou, lorsque cela est nécessaire pour le suivi individuel : JBF Lu

Les notes ou résumés produits au cours de la lecture peuvent également être enregistrés directement dans Zotero.

Le tableau de bord peut ainsi distinguer les références :

- attribuées mais non encore examinées ;
- lues ;
- citées dans le rapport ;
- exclues après lecture.

6.5.2.3 Motifs d'exclusion

Lorsqu'une référence n'est finalement pas retenue, elle n'est pas simplement supprimée de la bibliothèque.

Un motif d'exclusion est associé à la notice afin de conserver une trace de la décision. Les catégories utilisées peuvent notamment comprendre :

- publication non pertinente ;
- hors champ thématique ;
- hors zone ciblée ;
- publication inadaptée ;
- trop générale ;
- absence de possibilité de transposition ;
- focalisation empirique trop spécifique ;
- information incomplète ;
- langue ne permettant pas une analyse suffisamment fiable.

Cette procédure permet notamment de distinguer les publications réellement exclues des références restant encore à examiner.

6.5.3 Affectation des références au plan du rapport

Les références retenues sont associées aux différentes parties du rapport au moyen de tags Zotero commençant par Plan.
Par exemple : Plan II.2 Gestion de crise

indique qu'une publication est destinée à alimenter la partie consacrée à la gestion de crise.
Une table de configuration associe ensuite ce tag à la partie correspondante du rapport et au fichier de rédaction concerné.

Cette correspondance peut être modifiée au cours du travail.

Lorsqu'une publication initialement affectée à une partie se révèle plus pertinente pour une autre, son tag de plan peut être modifié et la référence éventuellement réattribuée à un autre expert.

La modification est prise en compte automatiquement lors de l'actualisation suivante des outils de suivi.

6.5.4 Export automatique de la bibliothèque Zotero

Les outils de suivi travaillent à partir d'une représentation JSON de la bibliothèque Zotero.
L'extraction est réalisée automatiquement à l'aide d'un script PHP intégré à l'application générale. Celui-ci interroge Zotero et produit ou actualise le fichier JSON utilisé par les différents outils.

La chaîne de traitement est donc, de manière simplifiée :

Zotero
↓
script PHP d'extraction
↓
bibliothèque JSON
↓
outils d'analyse et de suivi
Il n'est ainsi pas nécessaire d'effectuer manuellement un export Zotero avant chaque analyse.
Le fichier JSON contient les informations nécessaires au suivi : clés bibliographiques, auteurs, titres, tags, informations d'attribution et autres métadonnées utilisées par les codes d'analyse.

6.5.5 Rédaction et citations dans les fichiers Markdown

Les différentes parties du rapport sont rédigées dans des fichiers Markdown versionnés sous Git.
Les références bibliographiques sont insérées directement dans le texte à l'aide de leur clé Zotero, selon la syntaxe habituelle utilisée par Pandoc.

Exemple :

Plusieurs travaux montrent une évolution de l'exposition aux incendies [@reference2019; @reference2023] si ils sont cités avec parenthèses globales ou @reference2019 si cité nommément ou comme sujet de la phrase (avec parenthèses sur l'année simplement).
Cette notation présente l'avantage de rendre la citation directement identifiable par les outils d'analyse sans avoir à interpréter le document mis en forme.
Les citations détectées sont ensuite comparées aux informations provenant de Zotero.

6.5.6 Croisement entre plan bibliographique et texte rédigé

Les interfaces de suivi, notamment expert.php et analysis.php, croisent deux sources principales :

- la bibliothèque Zotero exportée en JSON ;
- les citations réellement présentes dans les fichiers Markdown.

Ce croisement permet de produire plusieurs catégories utiles au suivi de la rédaction.

6.5.6.1 Références prévues et citées

Il s'agit des références :

- affectées à une partie du rapport dans Zotero ;
- et effectivement présentes dans le texte correspondant.

Elles sont considérées comme intégrées à la rédaction.

6.5.6.2 Références prévues mais non citées

Il s'agit de références affectées au chapitre mais dont la clé bibliographique n'apparaît pas encore dans le texte.

Cette liste constitue directement une liste de travail pour le rédacteur.

Pour chaque référence, il reste alors à décider si elle doit :

- être utilisée dans le texte ;
- être déplacée vers une autre partie ;
- ou être explicitement exclue.

6.5.6.3 Références citées mais non prévues

L'analyse identifie également les références présentes dans le texte mais ne possédant pas le tag de plan correspondant dans Zotero.
Ce contrôle permet de corriger progressivement les métadonnées de la bibliothèque et de conserver une cohérence entre le plan bibliographique et le rapport effectivement rédigé.

6.5.6.4 Suivi par contributeur

Les informations d'attribution permettent également de produire un suivi par expert :

- nombre de références attribuées ;
- nombre de références lues ;
- nombre de références citées ;
- références restant à traiter.

Cet indicateur est avant tout utilisé comme outil de suivi du travail restant et non comme mesure de la contribution scientifique individuelle.

6.5.7 Identification des références restant à arbitrer (orphelines)

Une catégorie importante concerne les références qui ne possèdent :

- ni tag d'affectation au plan ;
- ni motif explicite d'exclusion.

Ces références sont considérées comme restant à arbitrer.
Leur identification automatique permet d'éviter qu'une publication issue du corpus filtré reste sans décision à la fin du processus.

6.5.8 Versionnement des textes avec Git

Les fichiers Markdown et les outils associés sont conservés dans un dépôt Git hébergé sur la forge institutionnelle du CNRS.
Chaque contributeur peut travailler sur les fichiers qui lui sont attribués puis transmettre ses modifications au dépôt.

Git permet notamment :

- de conserver l'historique des modifications ;
- d'identifier les auteurs et dates des changements ;
- de comparer deux versions d'un texte ;
- de fusionner des modifications réalisées par plusieurs contributeurs ;
- de revenir à une version précédente lorsqu'une modification pose problème.

Le format texte du Markdown rend les différences entre versions directement lisibles par Git.

6.5.9 Interfaces de suivi

Les outils web ont été développés sous la forme de scripts PHP afin de pouvoir être déployés simplement sur un serveur web standard.
Les deux principales interfaces assurent des fonctions complémentaires.

expert.php permet principalement le suivi par expert et par chapitre :

- références attribuées ;
- état de lecture ;
- références déjà citées ;
- références restant à intégrer.

analysis.php fournit une vision plus générale du corpus et de sa cohérence avec la rédaction :

- répartition des références ;
- correspondance entre tags de plan et citations ;
- références sans affectation ;
- citations ne correspondant pas au plan bibliographique.

Une interface complémentaire permet également de rechercher rapidement une référence et de vérifier sa présence ou son utilisation pendant la rédaction.
Les noms de fichiers, les correspondances entre tags et chapitres, ainsi que certains paramètres d'affichage sont définis dans des fichiers de configuration afin d'éviter de modifier directement le code lors de l'adaptation de l'outil à un autre projet.

6.5.9.1 Production des documents finaux

Le Markdown est utilisé comme format de travail pendant la phase et de suivi en utilisant l'outil communautaire « pandoc » depuis les fichiers au format DOCX modifiés par les experts et disponibles sur RESANA.
Les documents destinés à la diffusion sont ensuite regénérés en DOCX afin de permettre leur mise en forme dans le modèle éditorial retenu pour l'expertise.

La chaîne de génération assure notamment :

- la conversion du Markdown vers DOCX ;
- l'application des styles du document de référence ;
- la conservation des citations bibliographiques ;
- l'intégration des références dans un format compatible avec Zotero lorsque cela est nécessaire ;
- la génération des bibliographies associées aux différentes parties du rapport.

6.5.10 Réutilisation de la méthode

Le dispositif repose principalement sur des conventions de tags, des fichiers de configuration et des correspondances entre :

- contributeurs ;
- parties du plan ;
- fichiers de rédaction ;
- références bibliographiques.

Il n'est donc pas directement dépendant du contenu scientifique de l'ESCo « Incendie ».

Pour l'utiliser dans une autre expertise, il est principalement nécessaire de définir :

- les contributeurs ;
- la structure du rapport ;
- les tags Zotero utilisés ;
- les correspondances entre tags et fichiers de rédaction ;
- les critères d'exclusion retenus.

Les mêmes outils peuvent ensuite être utilisés pour suivre la lecture, l'affectation et l'intégration des références.

7 ANNEXE 7 : Bibliographie complète de l'ESCo (références lues et analysées)

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Annexe 8 : lettre d'auto-saisine du CNRS

Résilience des interfaces urbaines face aux incendies de végétation en contexte de changement climatique

Rapport de l'expertise scientifique collective

Le Président-Directeur général

Réf. : MPES-D-2025-3

Paris, le 4 juin 2025

A l'attention de la Mission Pour l'Expertise Scientifique du CNRS
Direction générale déléguée à la science
3 rue Michel Ange
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Objet : Auto-saisine du CNRS pour la réalisation d'une expertise scientifique collective relative à la résilience des interfaces urbaines face aux incendies de forêt dans le contexte du changement climatique.

Madame la directrice de la mission pour l'expertise scientifique,

En France, plus de 90% des incendies sont d'origine anthropique et 80% naissent à proximité d'habitations. Le changement climatique va provoquer une intensification et une extensification du risque incendie de végétation et la France pourrait voir jusqu'à 50% de son territoire devenir vulnérable d'ici 2050. Face à ce risque accru, il apparaît nécessaire de repenser les stratégies de prévention et de lutte contre les incendies en intégrant ces derniers dans les réflexions sur la ville.

En France, le phénomène s'étend déjà au-delà des zones traditionnellement à risque, avec plus 22 000 incendies recensés en 2022 et s'illustre encore en 2025. Ce sont dans les zones d'interface entre ville et espaces naturels que se concentrent à la fois les principales sources de départ de feux et les principaux enjeux humains et biens exposés.

Ce phénomène a déjà entraîné des catastrophes en Australie, aux États-Unis - notamment en janvier 2025 à Los Angeles – ou encore en Grèce, avec des pertes humaines et matérielles considérables. En France, les incendies de 2021 et 2022 ont mis en évidence la nécessité d'une approche intégrée, croisant climat, urbanisme, gestion forestière et sécurité civile. Bien que la loi de 2023 et plusieurs rapports sur la gestion du risque incendie de forêt envisagent le renforcement des mesures en matière d'urbanisme, le prisme par lequel est abordé le risque incendie reste celui de la forêt. Les interfaces ville - espaces naturels constituent désormais un véritable champ de recherche, mais pour lequel un état des connaissances n'est pas facilement disponible aujourd'hui. Dans son rapport de 2023, l'inspection générale de l'environnement et du développement durable a émis la recommandation que les organismes de recherche comme le CNRS puissent « *réaliser un parangonnage européen de l'activité scientifique feux de végétations et de ses enjeux* ».

Par ailleurs, le volet urbain des politiques climatiques françaises se concentre principalement sur la réduction des émissions de gaz à effet de serre et sur la nécessaire adaptation des villes, notamment par la végétalisation pour lutter contre les ilots de chaleurs, mais il aborde encore peu la question des incendies comme un risque majeur en ville. Ce risque concerne pourtant une grande diversité de territoires urbanisés, aux configurations et aux moyens inégaux pour y faire face et nécessite une appropriation par les citoyens et les citoyennes. Les moyens d'adapter nos villes et nos pratiques pour résister aux incendies de végétation nécessitent un croisement thématique pluridisciplinaire encore inexistant. Gérer le risque dans ces interfaces suppose en effet une approche systémique et les défis en matière de gouvernance et de planification sont très grands pour coordonner les différents niveaux décisionnels, intégrer les coûts de la protection et de la réparation, prendre en compte la question incendie dans la conception et la mise en œuvre des outils de planification.

Dans ce contexte, le CNRS signifie sa volonté de conduire une expertise scientifique collective (ESCo) visant à apporter un éclairage pluridisciplinaire à la décision et au débat publics sur les questions soulevées par ce risque à l'interface ville-forêt, du point de vue de la ville et dans un contexte de changement climatique.

L'ESCo synthétisera les acquis de la recherche, et mettra en évidence les controverses et les lacunes de connaissances sur ce sujet par un état des lieux des connaissances scientifiques. Ce dernier portera d'une part, sur les risques d'incendie de forêt dans les interfaces urbaines et leurs impacts pour les villes, et d'autre part, sur les solutions de résilience ; dans les territoires français métropolitains et des Outre-mer. Il est entendu ici, que la mention « incendie de forêt » couramment employée renvoie de manière plus large à l'ensemble des incendies de végétation, qu'il s'agisse de broussailles, d'herbes ou d'autres types de couvert végétal.

Dans les domaines où il n'y aurait pas assez de résultats concernant le territoire français, l'expertise explorera les études scientifiques portant sur des contextes similaires d'autres pays, dans une vision dynamique de la France à +4°C et précisera les conditions de transposition retenues.

Cette analyse critique issue de la littérature scientifique devra être réalisée par un collectif d'expertes et d'experts scientifiques pluridisciplinaire missionnés par le CNRS. L'ESCo devra respecter la Charte de l'expertise scientifique institutionnelle du CNRS, et notamment les principes de compétence, d'indépendance, d'impartialité et de transparence. Le CNRS confie la conduite de l'expertise « Ville & Incendie » à la Mission Pour l'Expertise Scientifique (MPES).

L'ESCo durera 12 mois à partir de sa date de lancement. Les résultats de l'expertise seront rendus publics et largement diffusés en vue d'éclairer la décision et le débat publics.

Cette lettre d'auto-saisine est assortie d'un cahier des charges rédigé par la MPES détaillant les questions auxquelles l'ESCo doit pouvoir apporter des réponses, son périmètre, un budget prévisionnel et un échéancier de réalisation du travail.

Antoine Petit

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