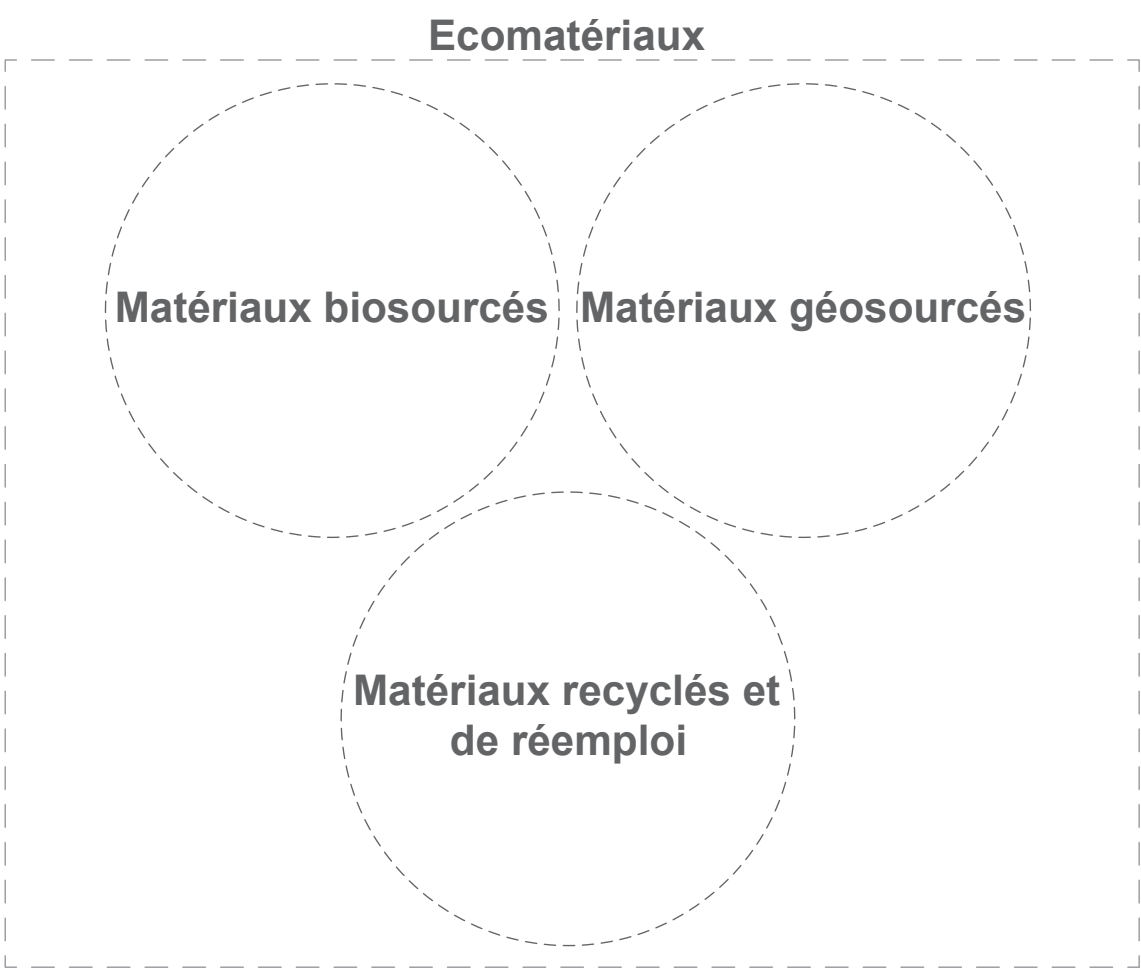


L'intégration des matériaux biosourcés dans la pratique architectural

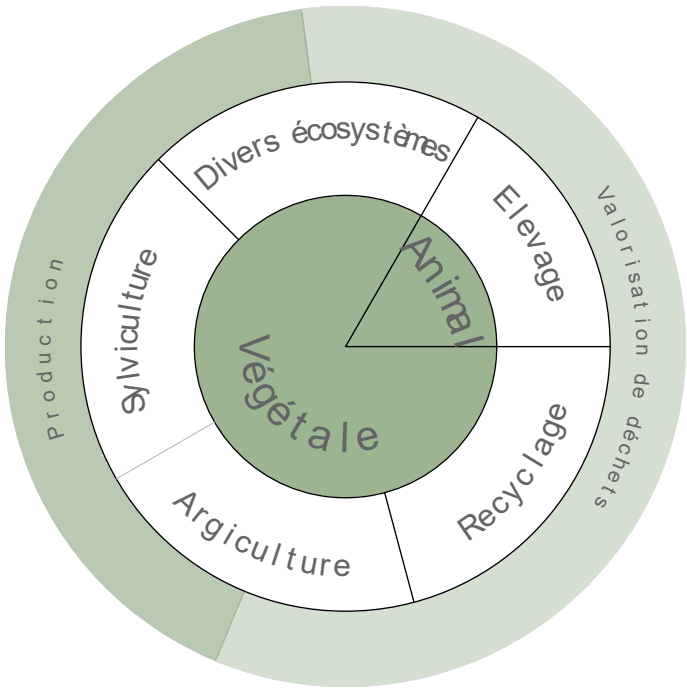


Définition

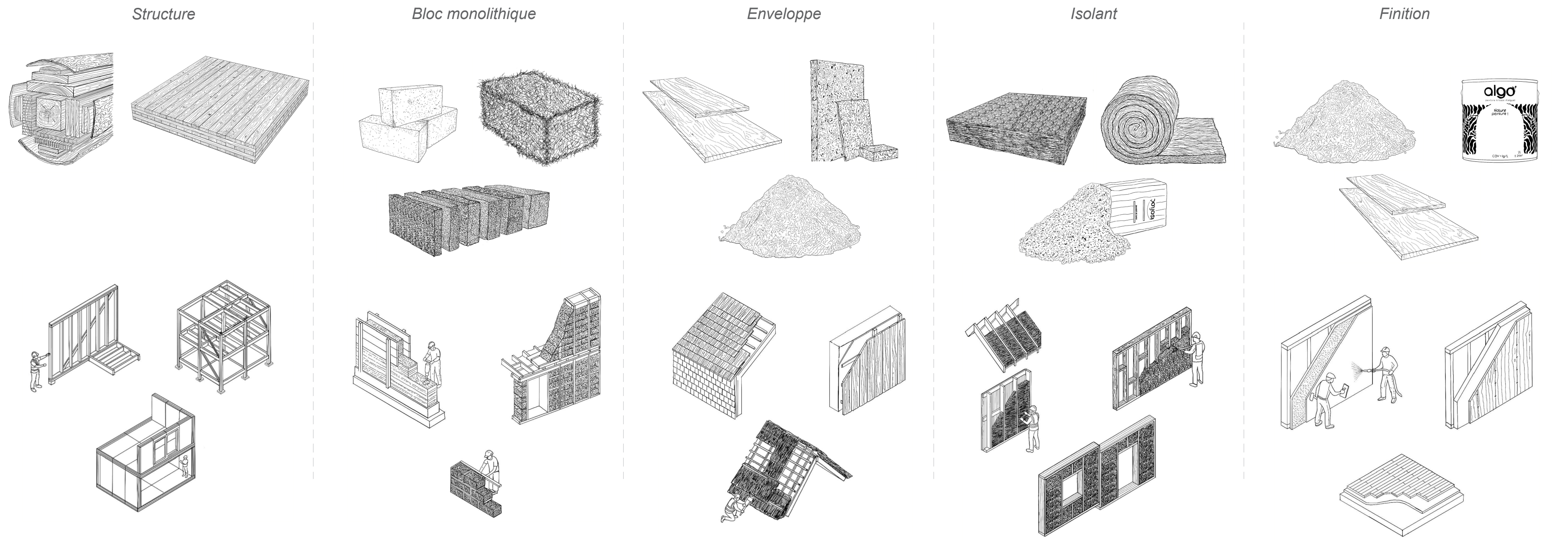
Un **matériau biosourcé** est un matériau entièrement ou **principalement** issus de la biomasse **locale**, végétale ou animale, à l'exclusion des matières intégrées dans des formations géologiques et/ou fossilisées.

Il a un cycle de régénération court à l'échelle de la vie humaine ce qui en fait un matériau renouvelable. Il est naturel ou faiblement transformé.

Origine de la matière première



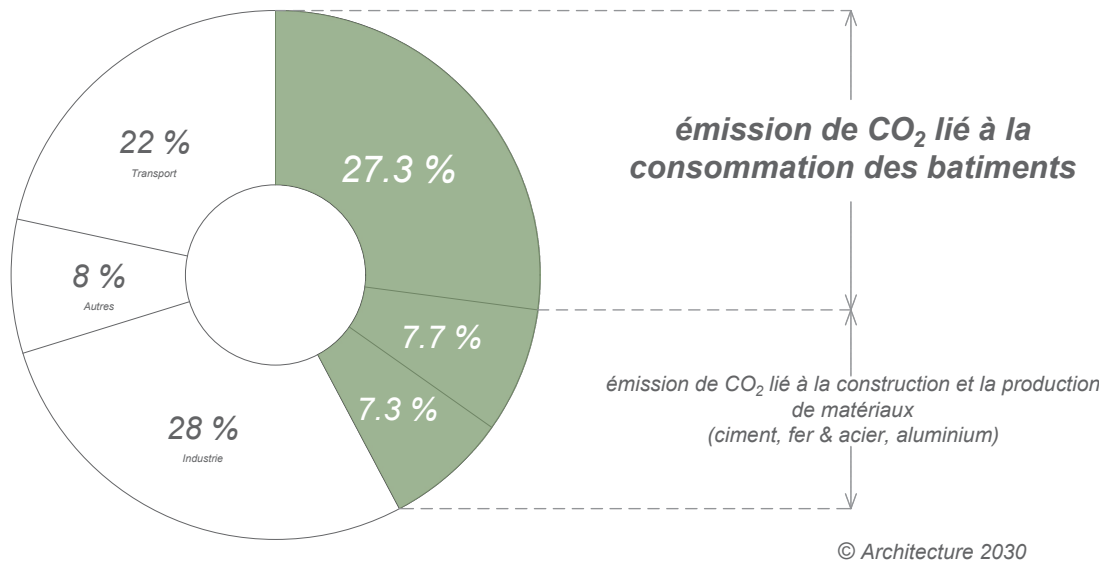
Typologies des matériaux biosourcés



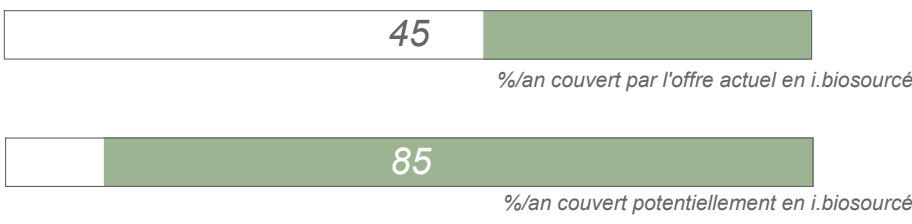
Décarboner le secteur de la construction

Réduire la consommation d'énergie des batiments

Isoler le parc bâti

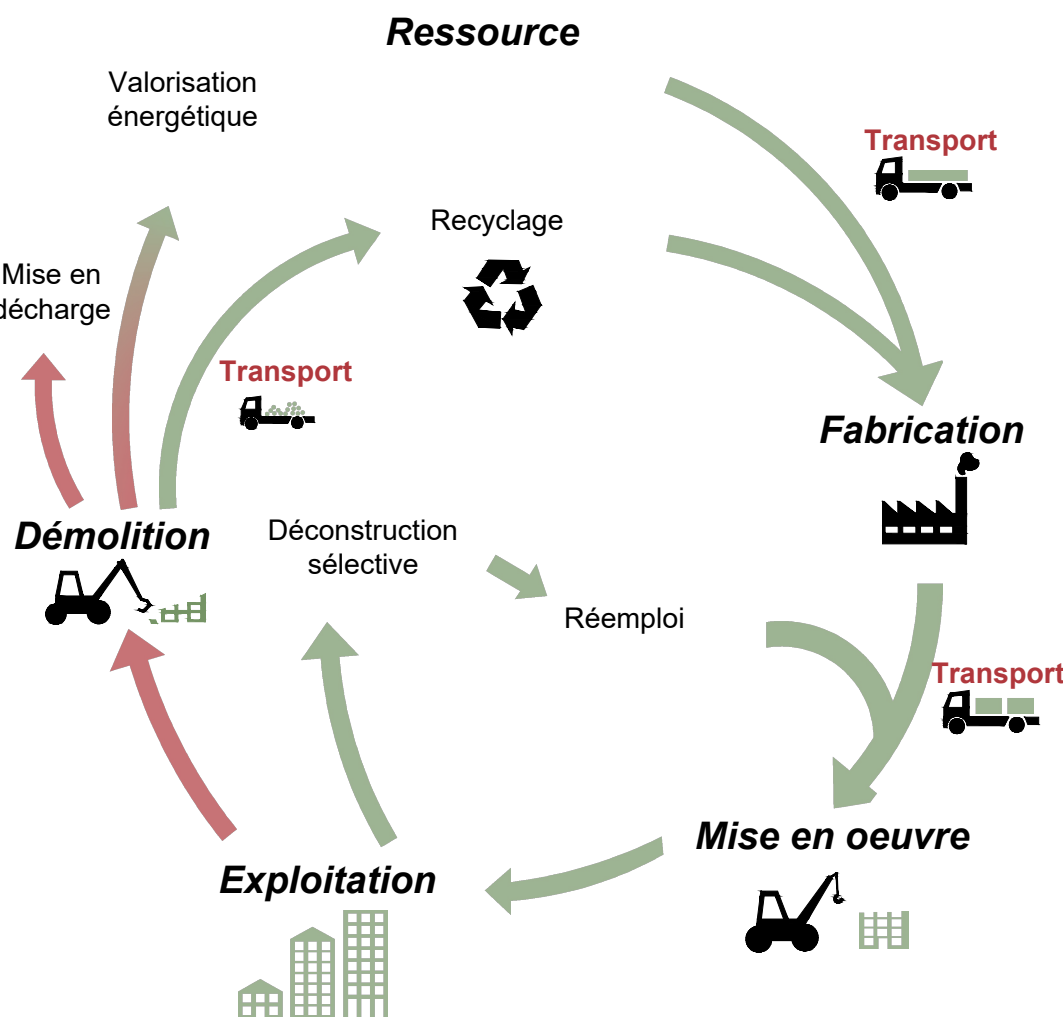


Etude sur le potentiel de la filière par le Cluster Ecoconstruction, Valbiom



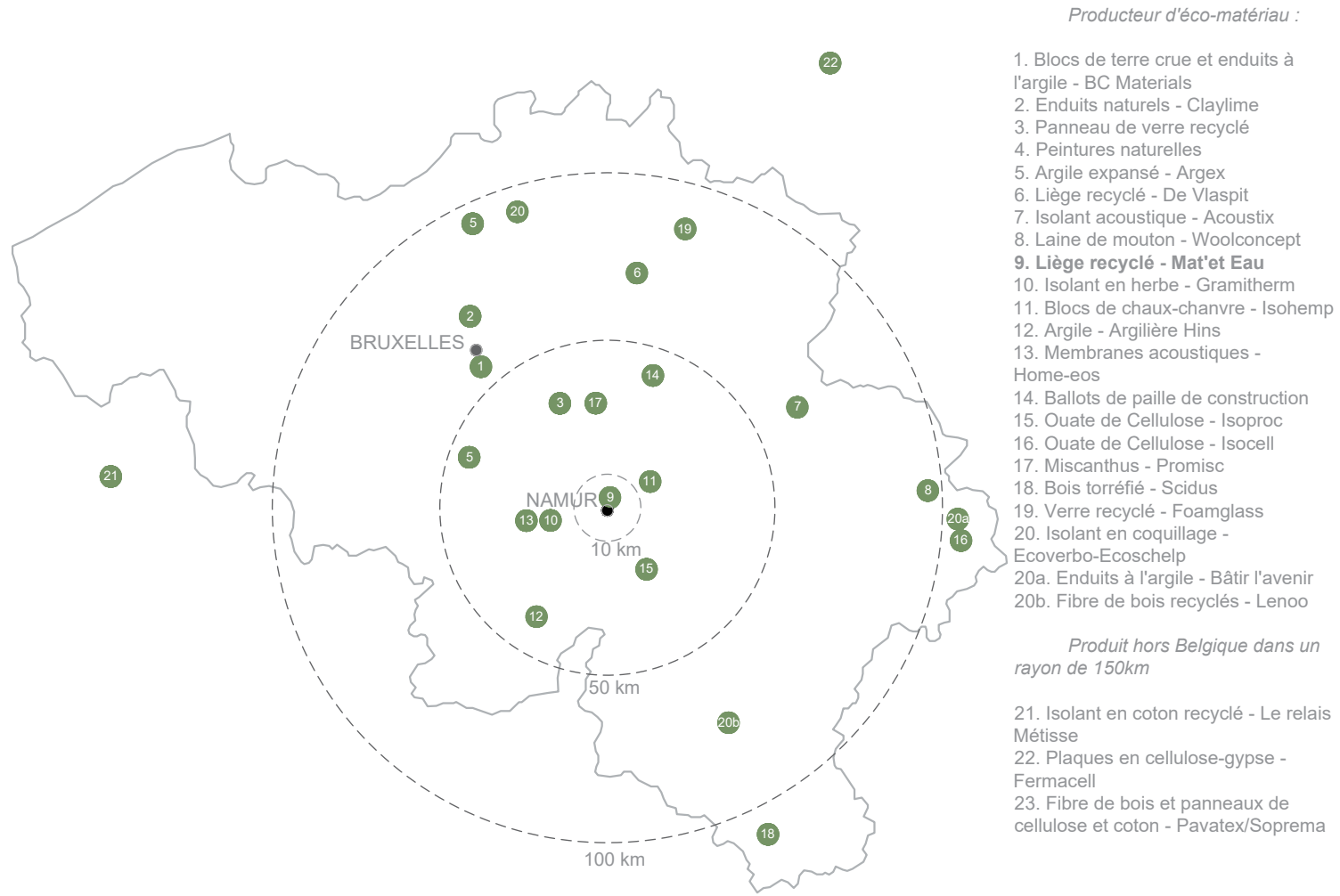
Réduire l'énergie grise

ACV

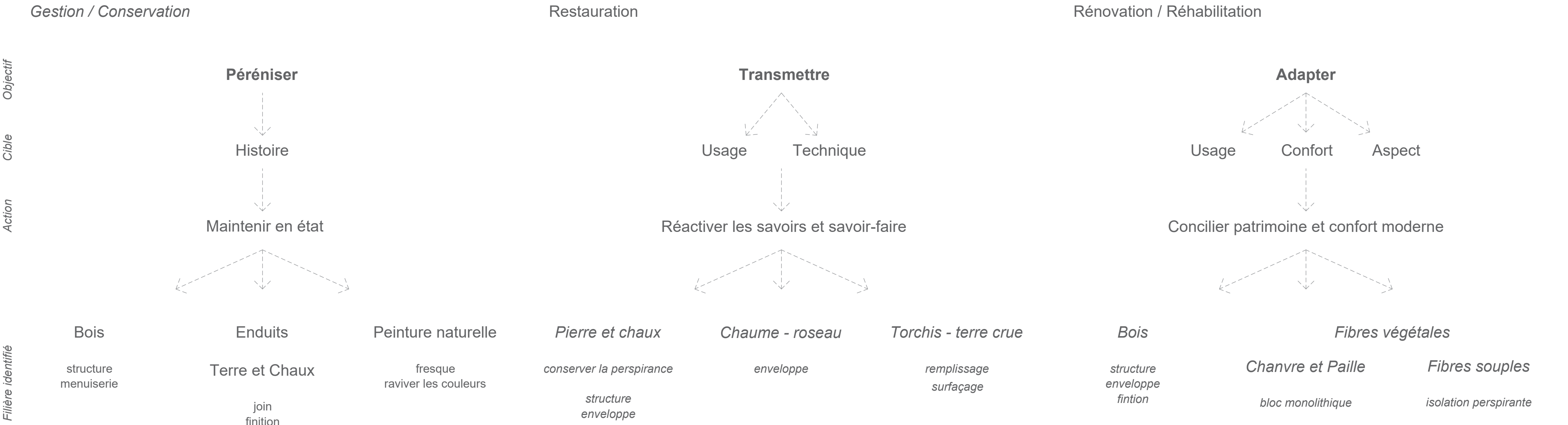


Développement économique local

Favoriser le circuit court



Les filières biosourcés face au patrimoine



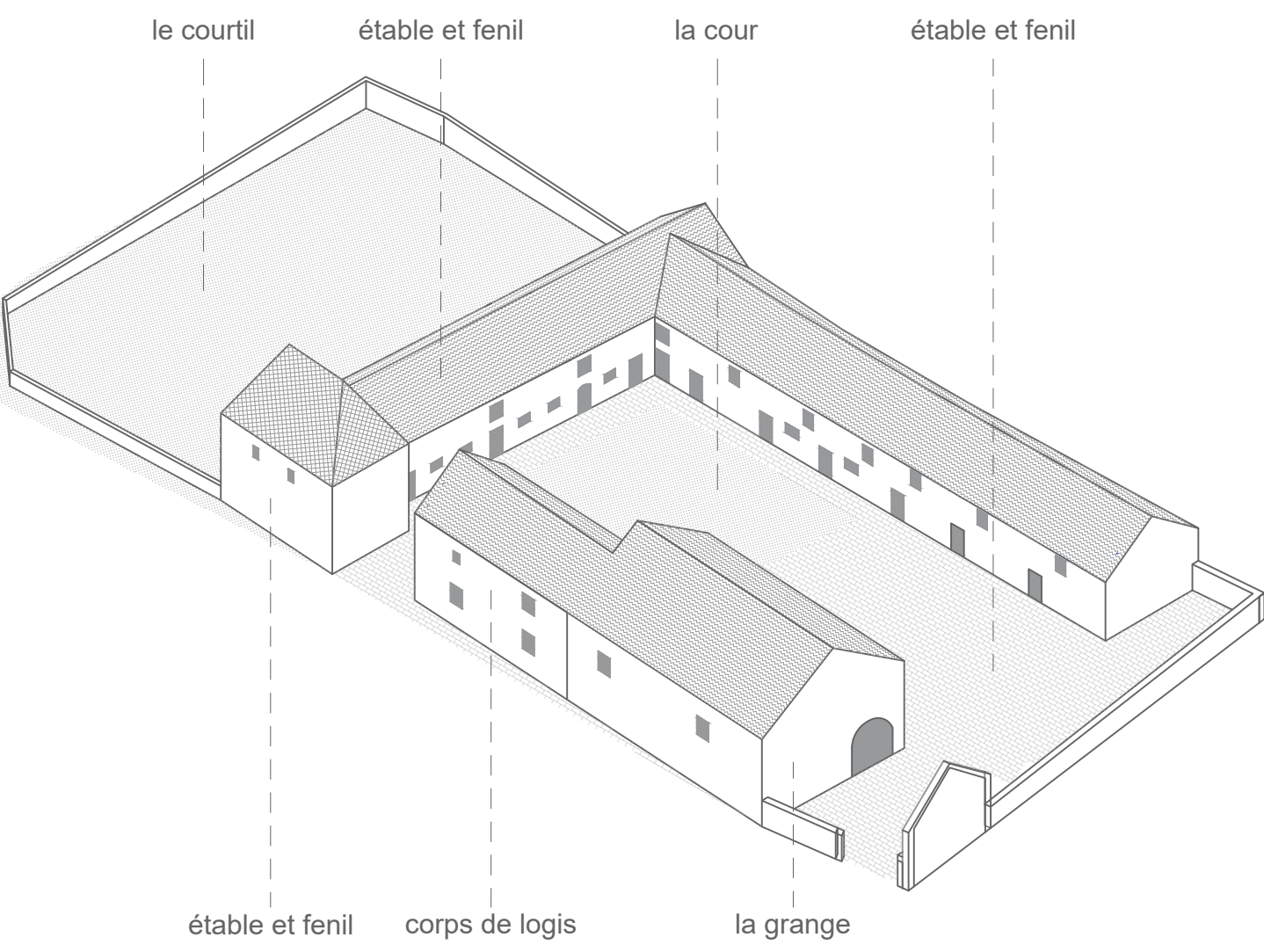
Contextualisation du cas d'étude

Ferme Don Juan

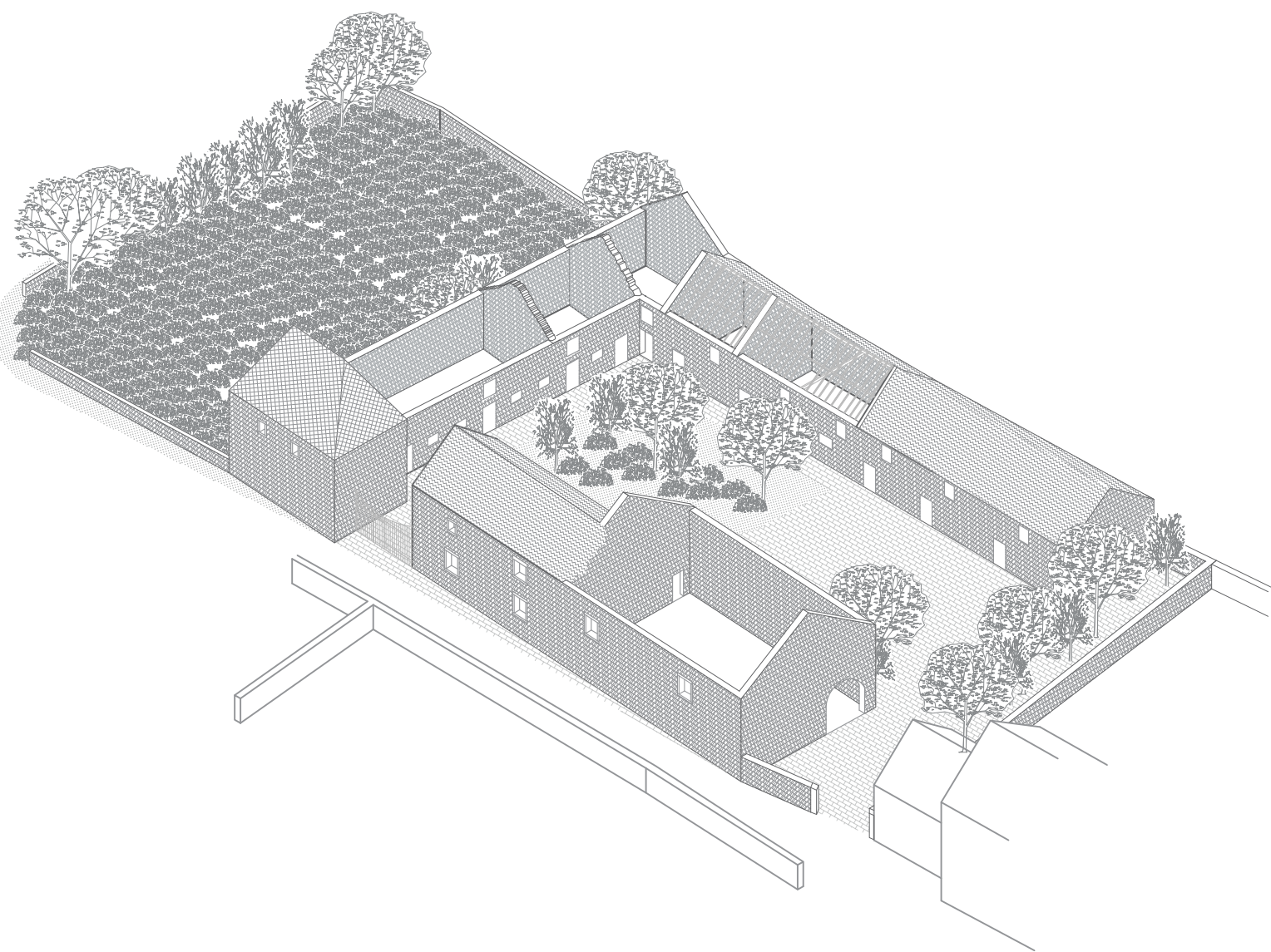
Localité : Bouge, rue Don Juan d'Autriche
Date : XVI^e siècle



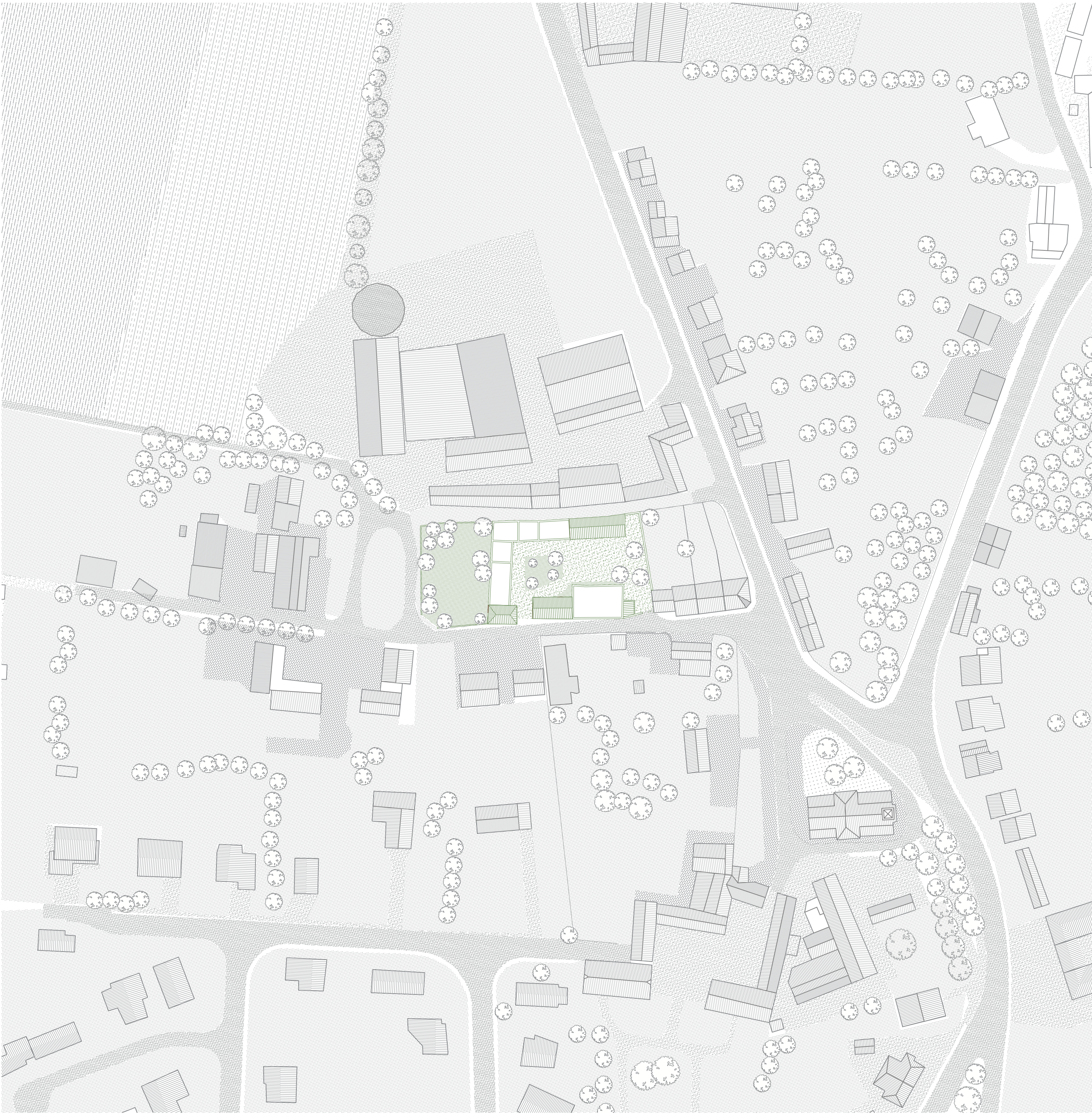
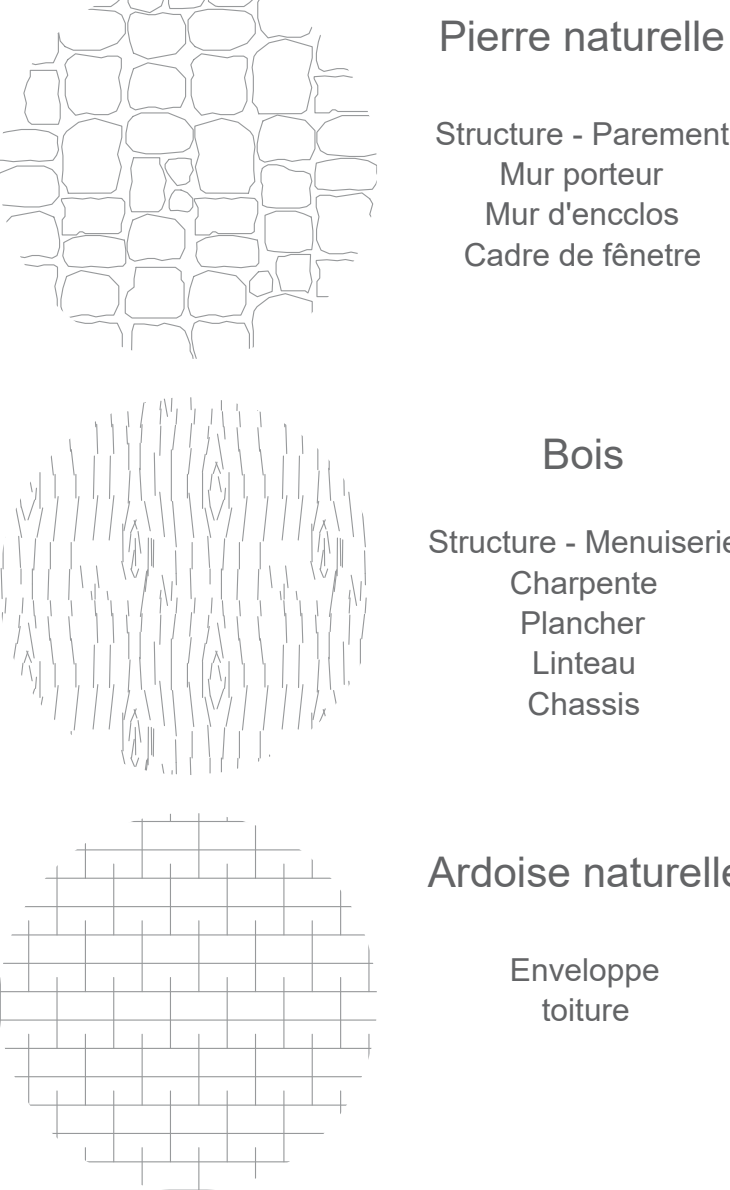
Fonction historique



État sanitaire

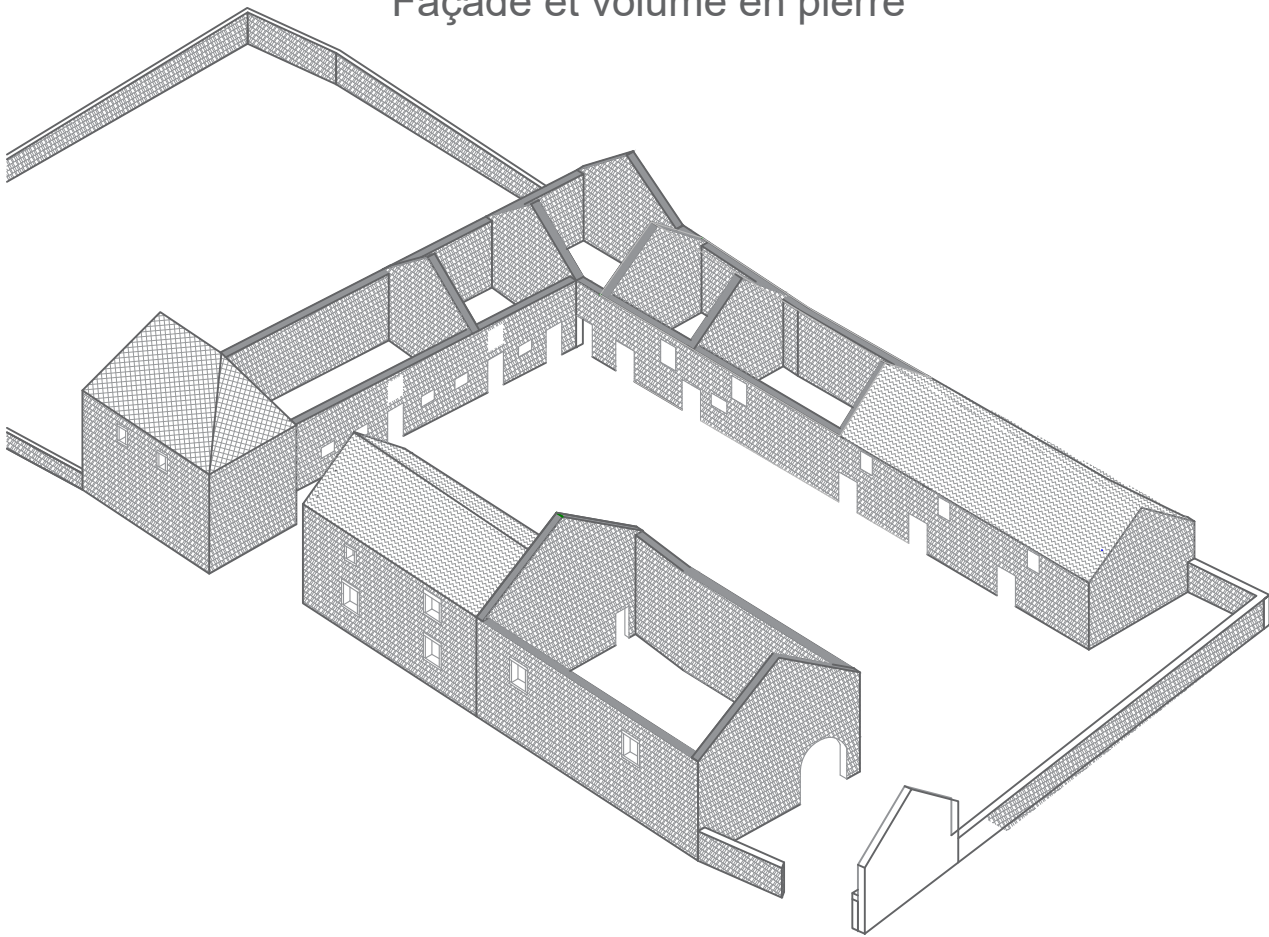


Matérialité

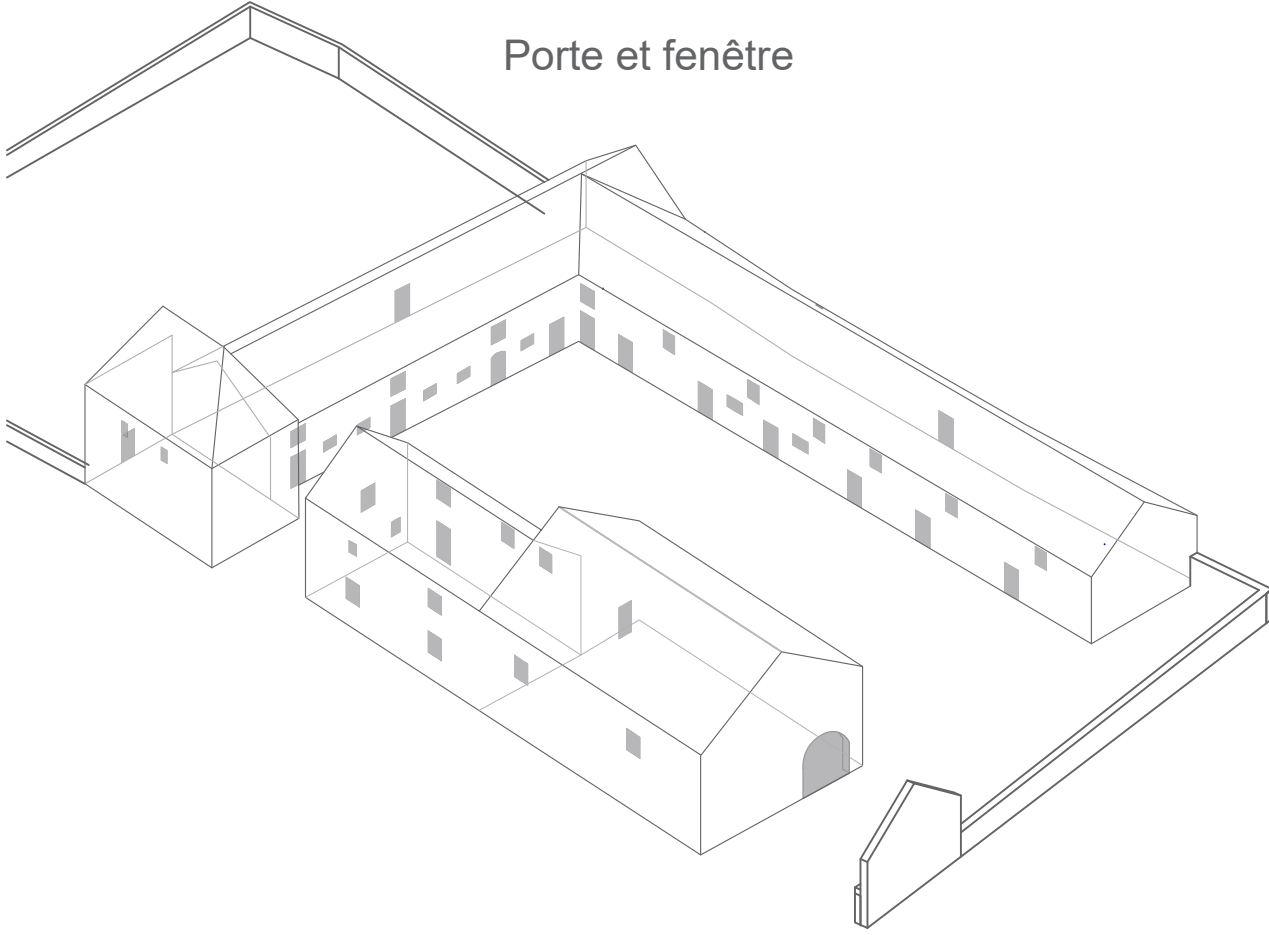


Plan situation 1/1000

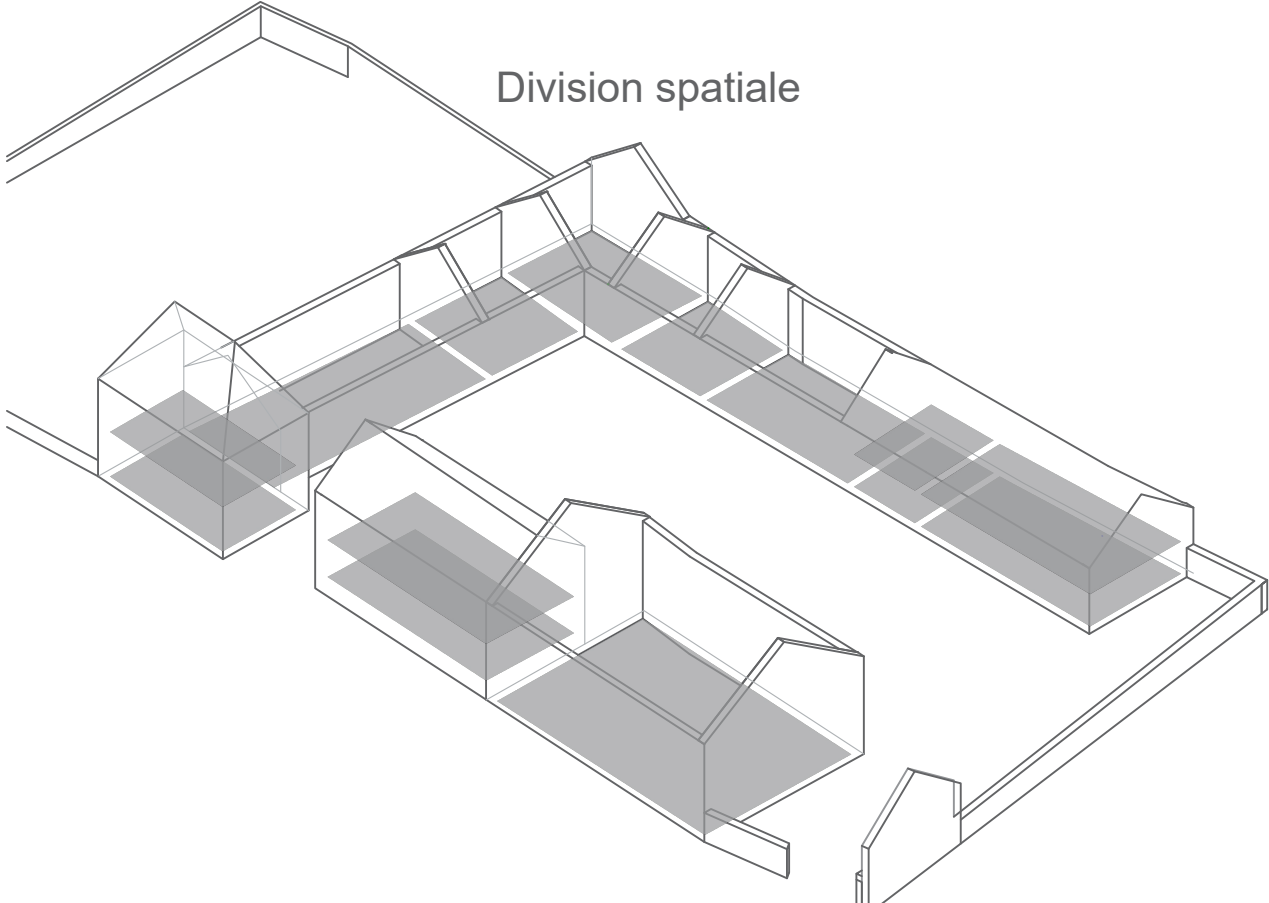
Façade et volume en pierre



Porte et fenêtre

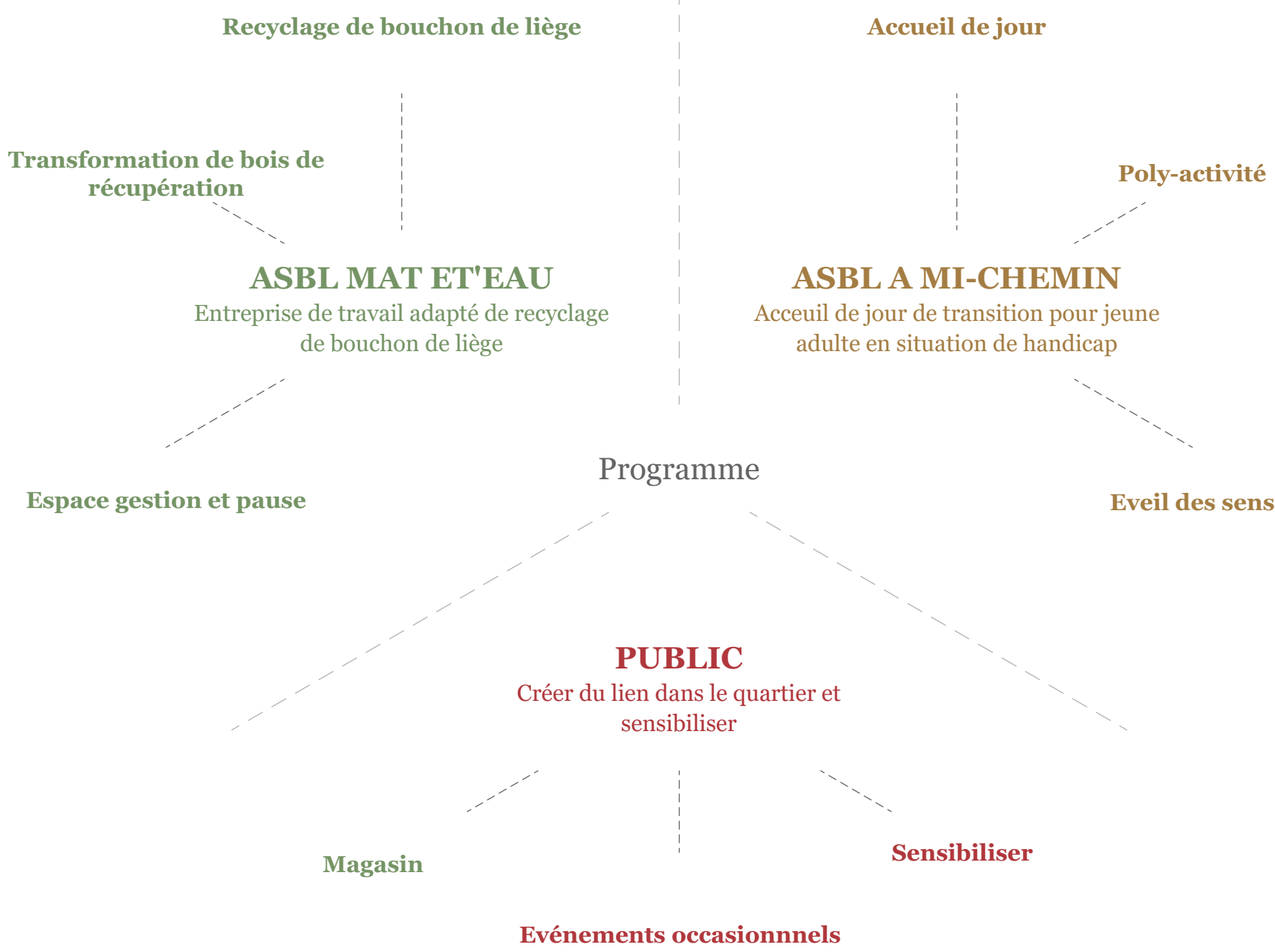


Division spatiale

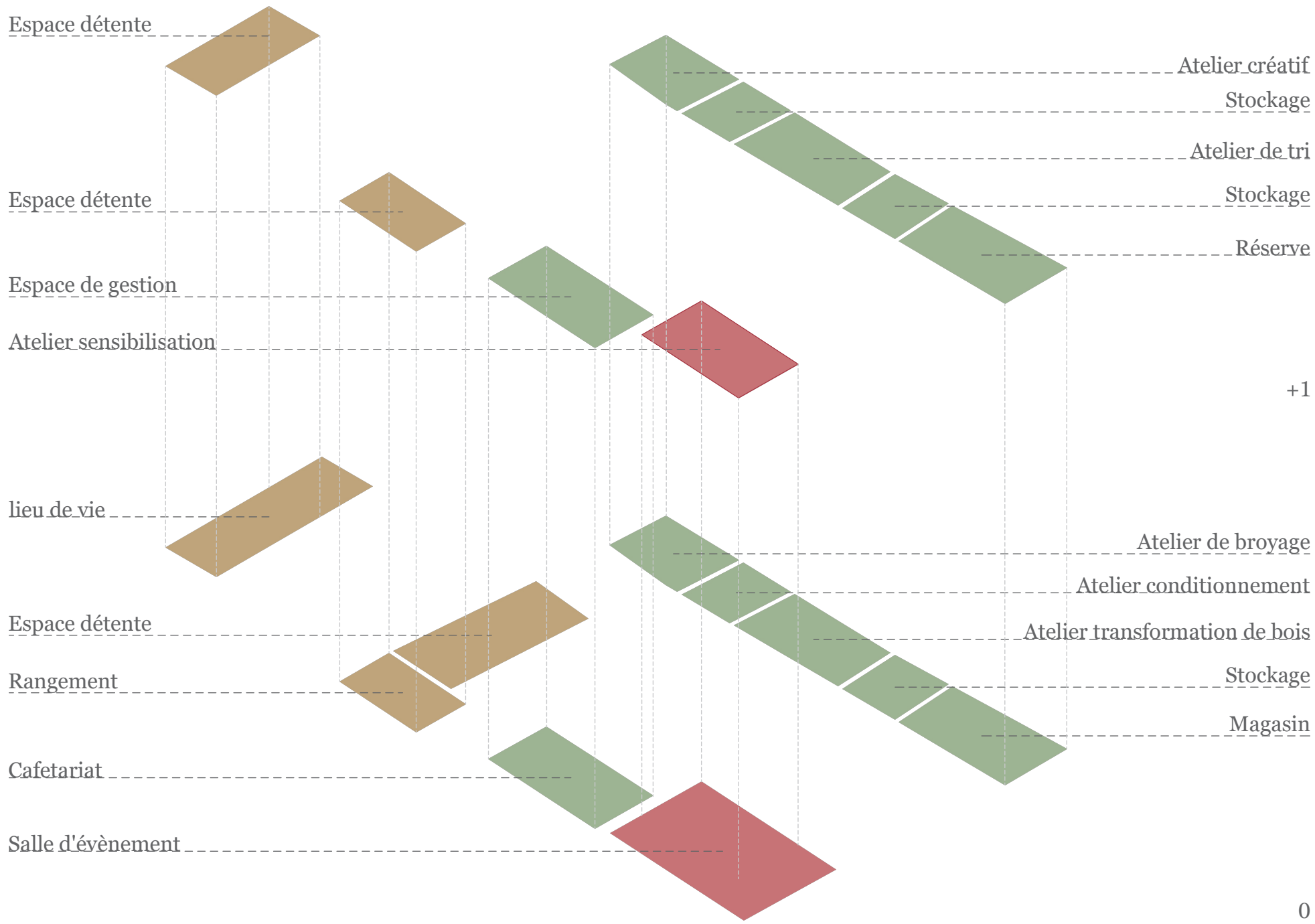


Programme et Implantation

Diagramme



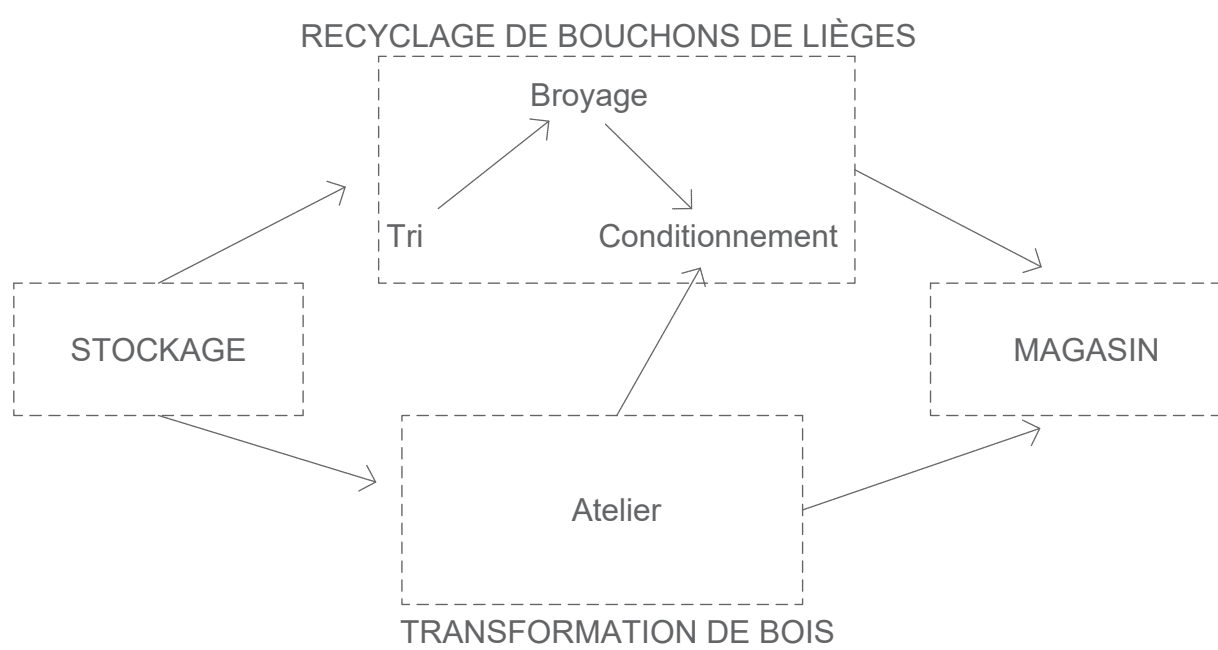
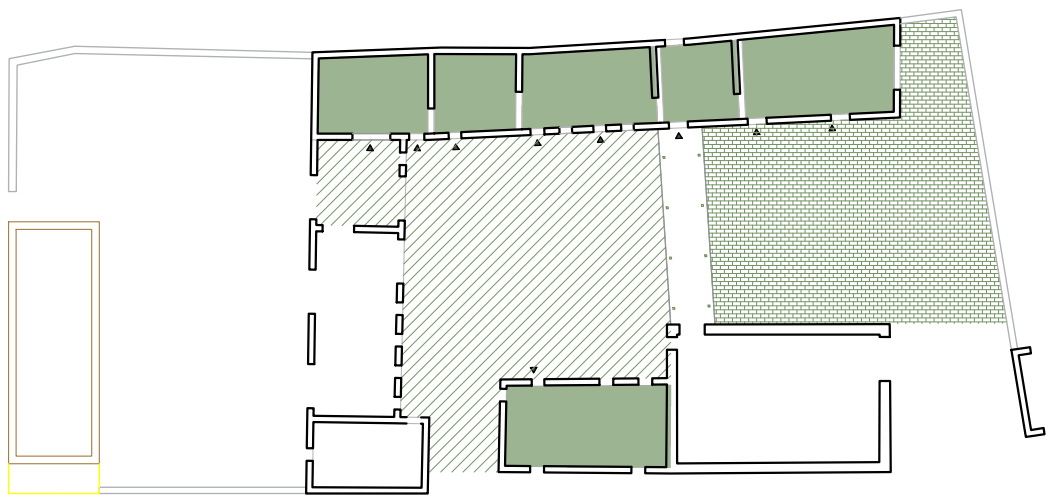
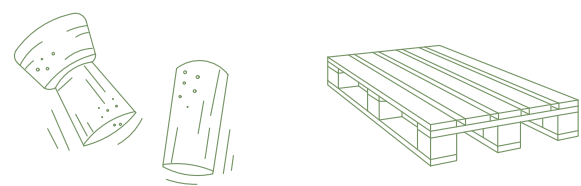
Implantation



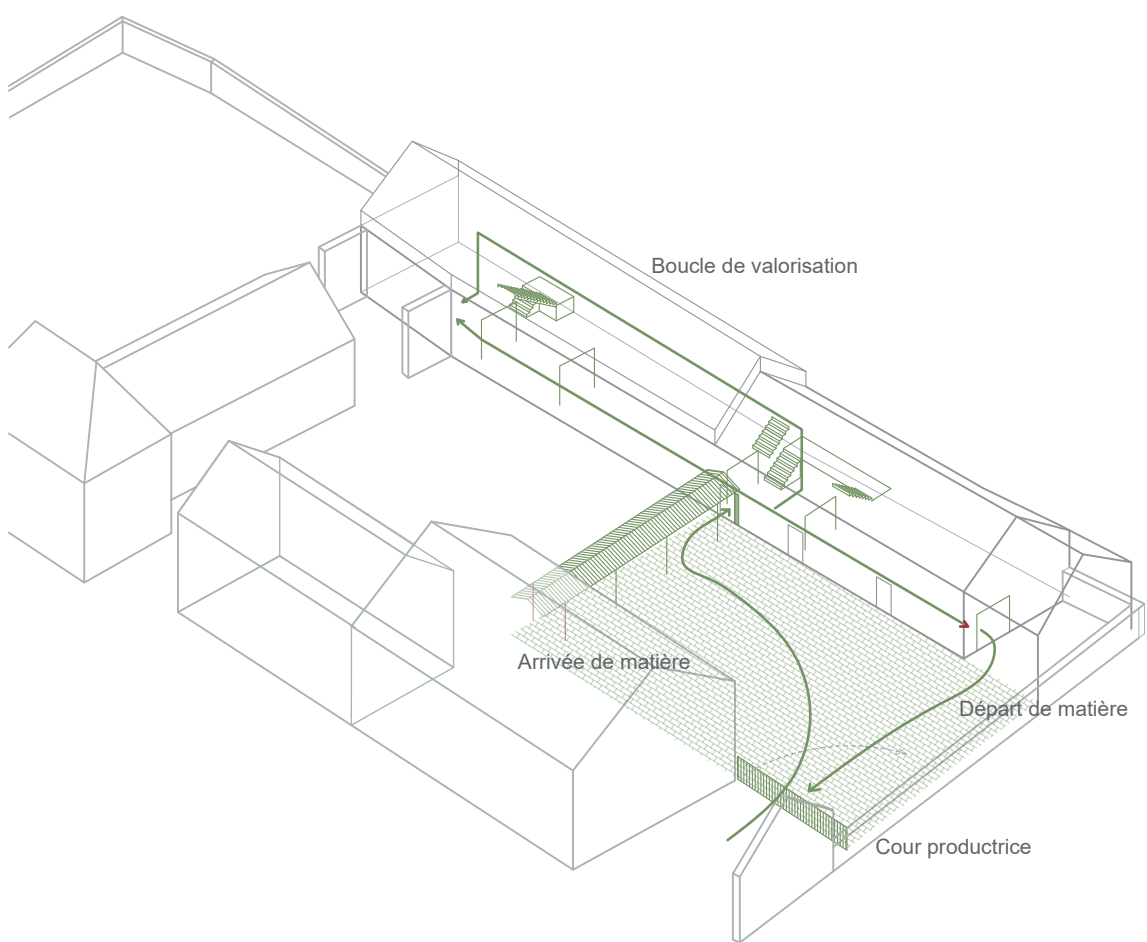
Plan 1/500

Intention de Projet

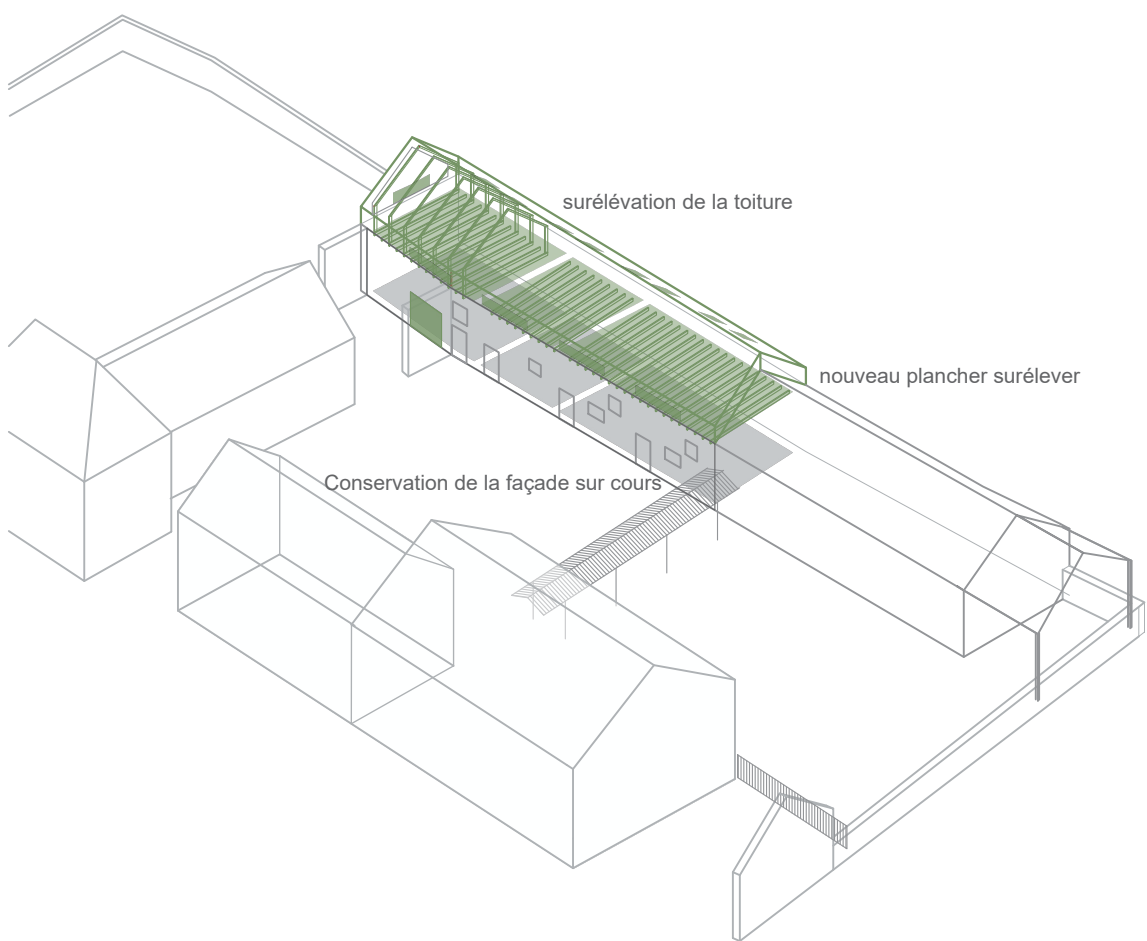
Entreprise de travail adapté - ASBL Mat et'Eau



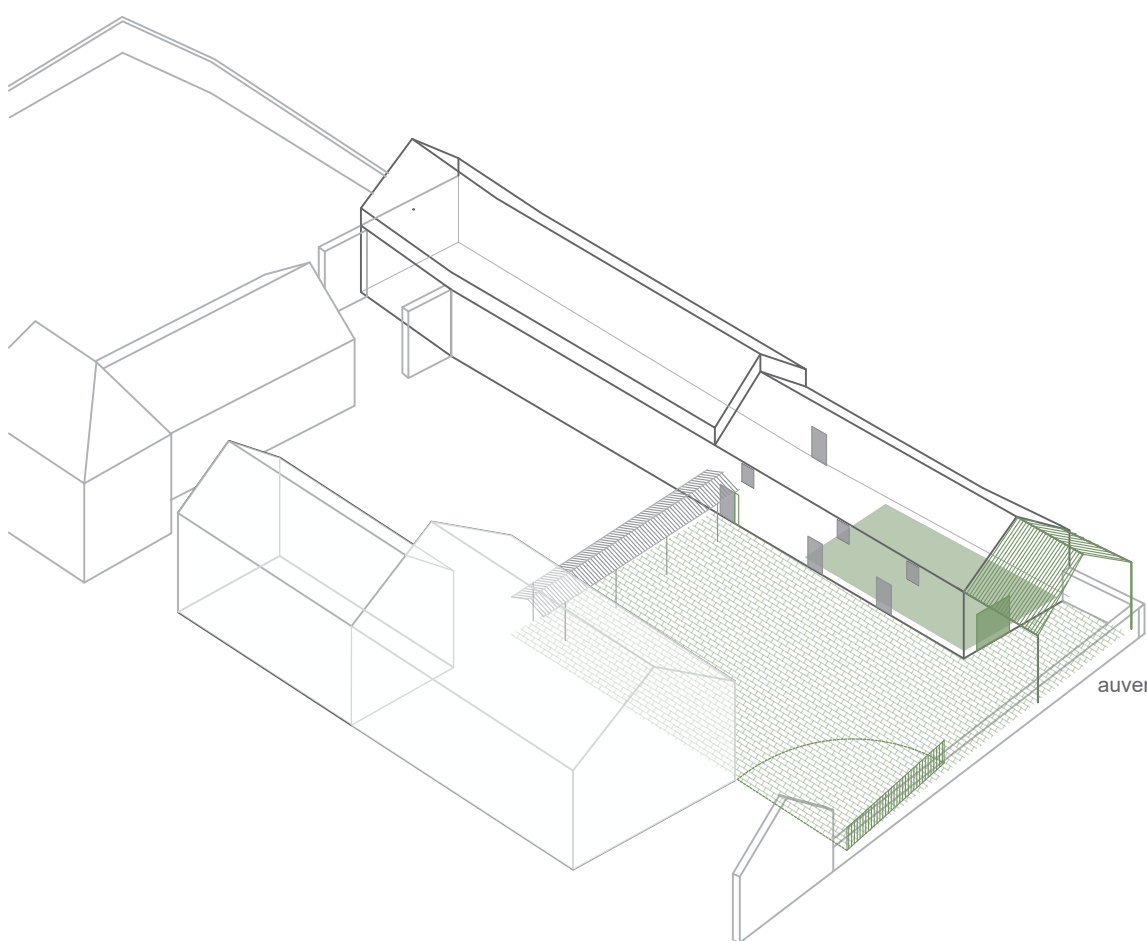
Flux de matière



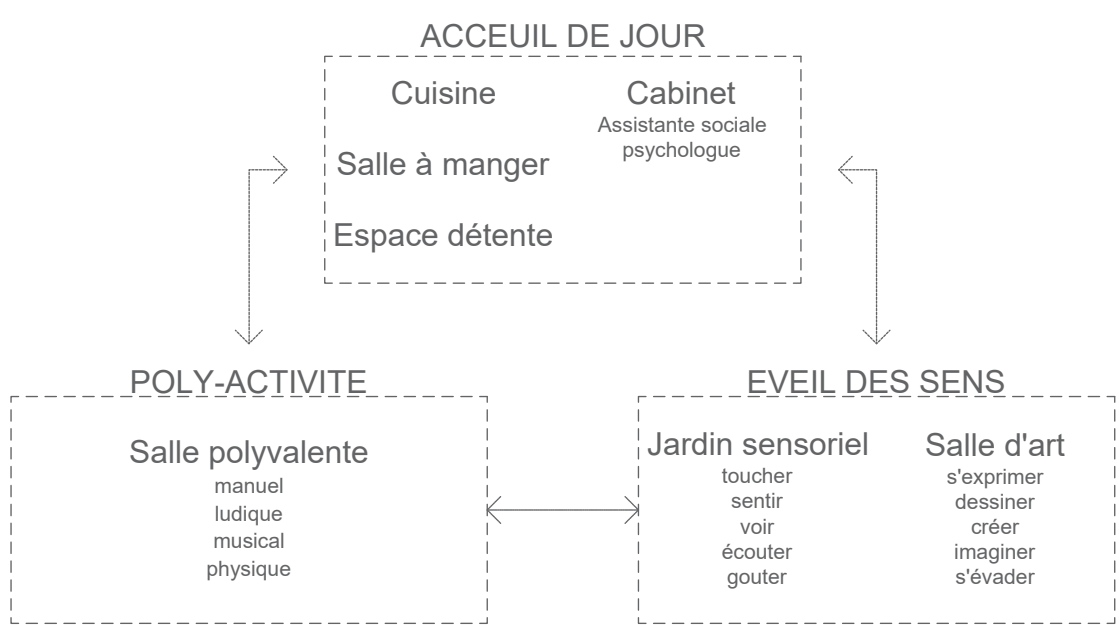
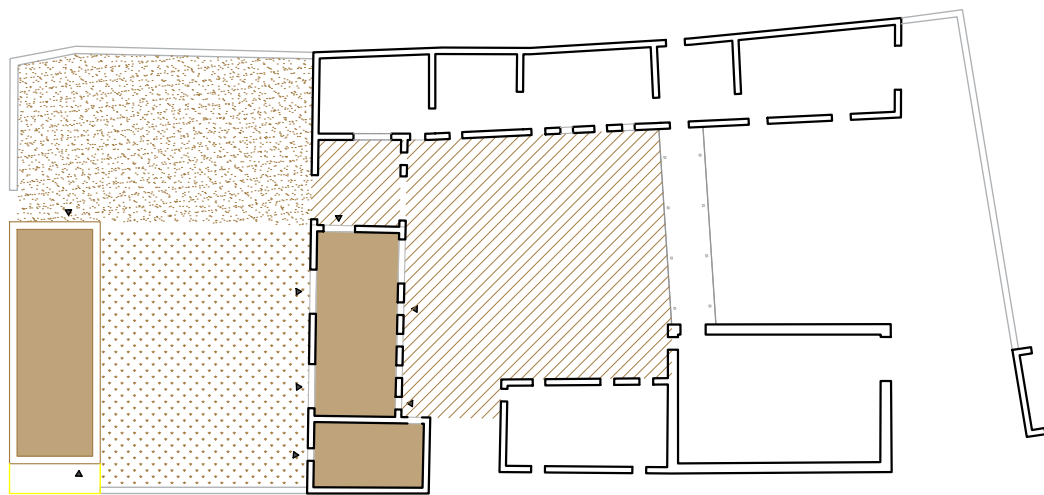
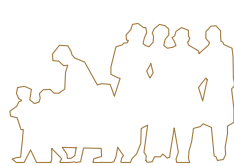
Atelier



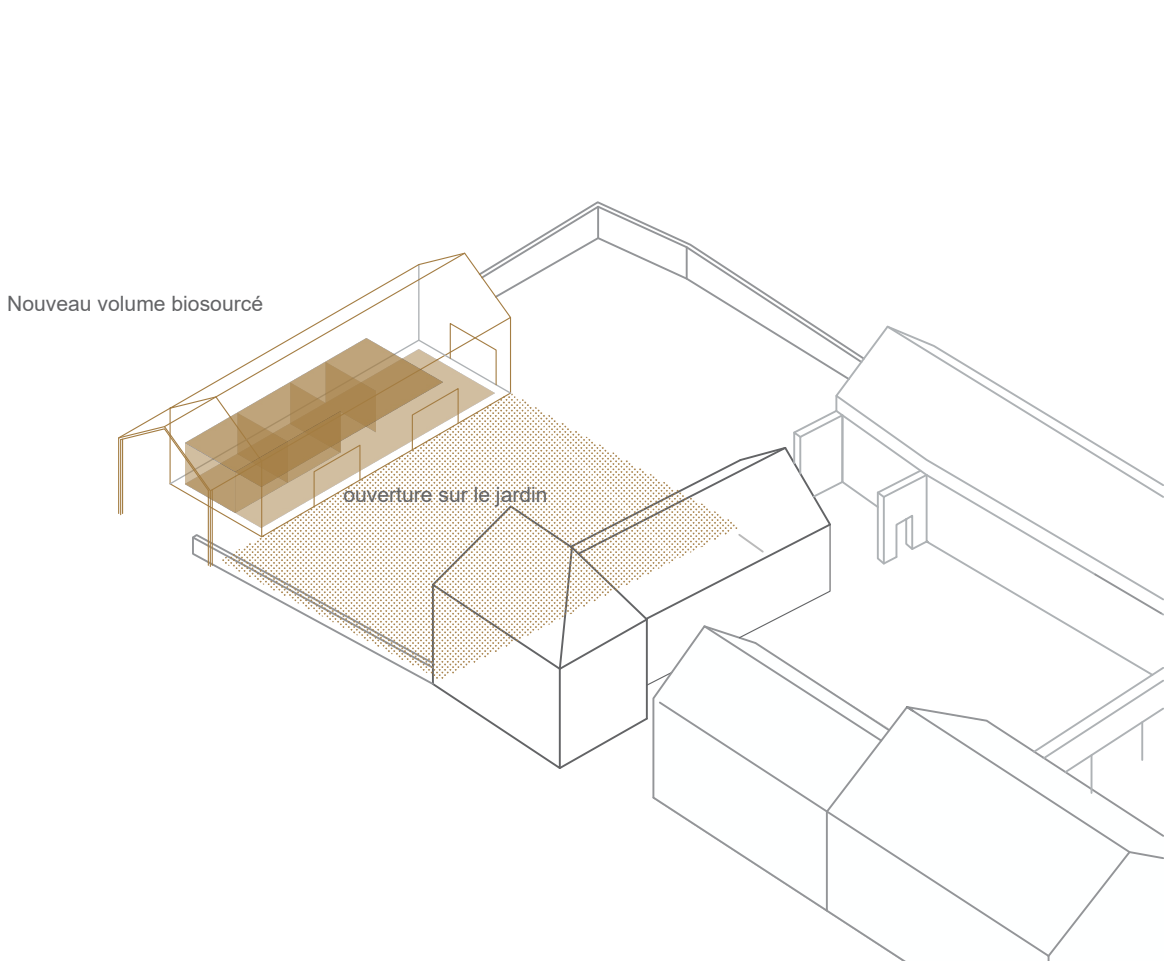
Magasin



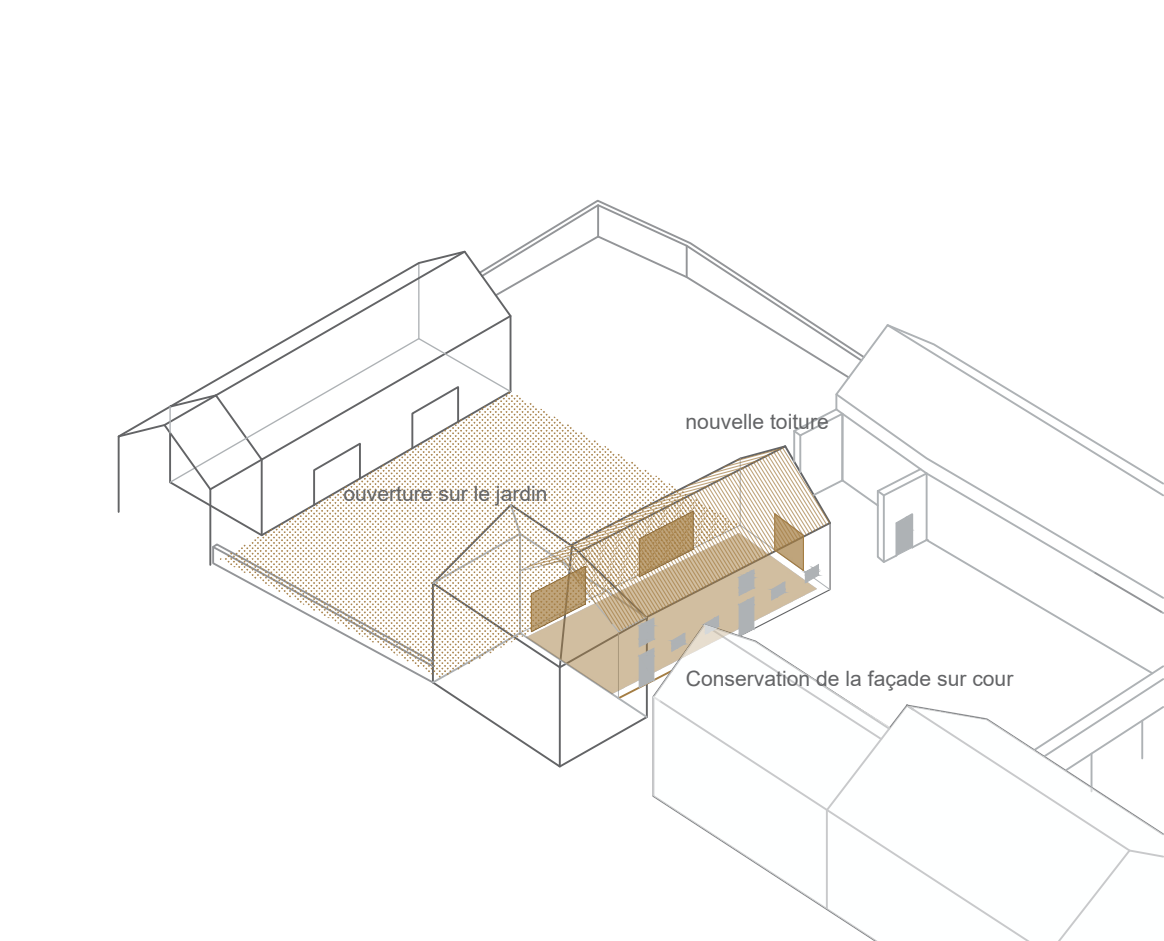
Accueil de jour - ASBL à mi-chemin



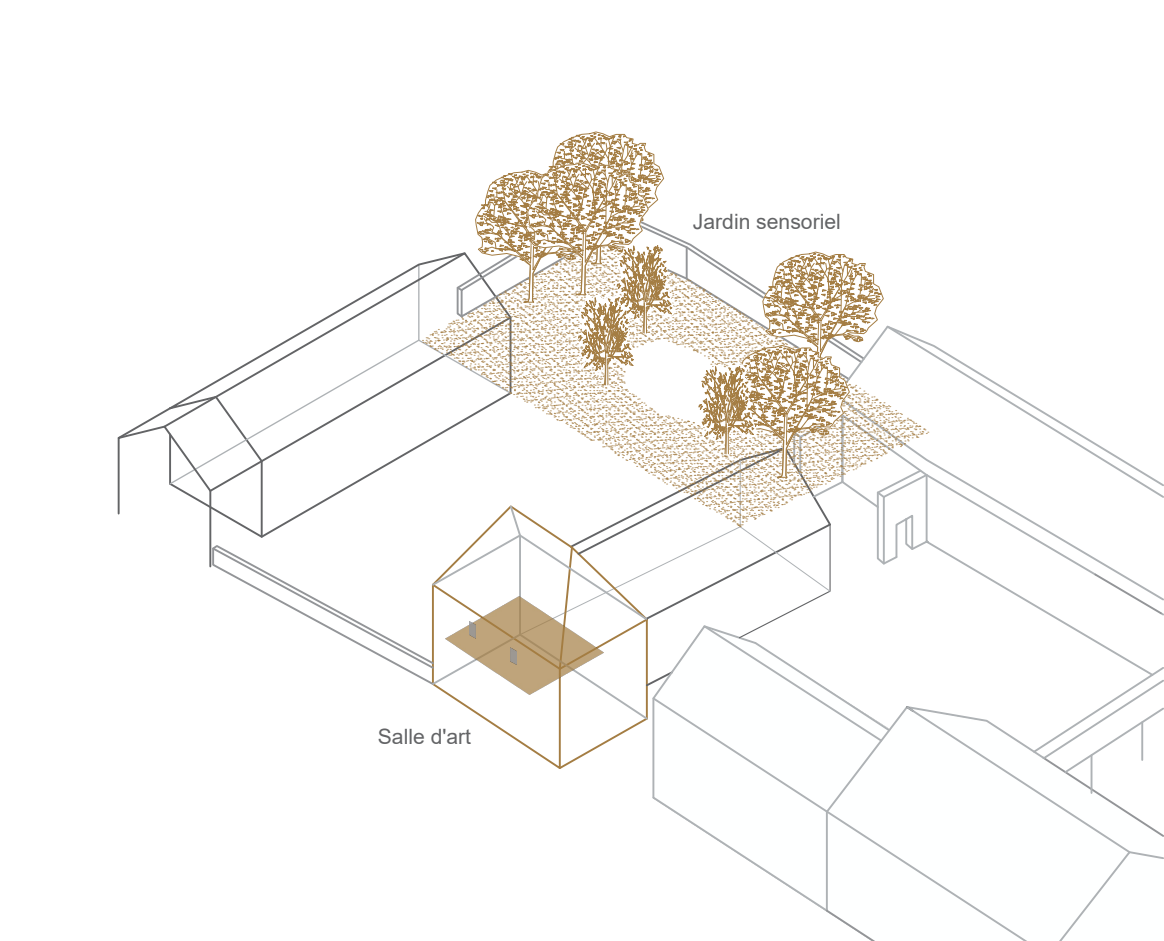
Accueil de jour



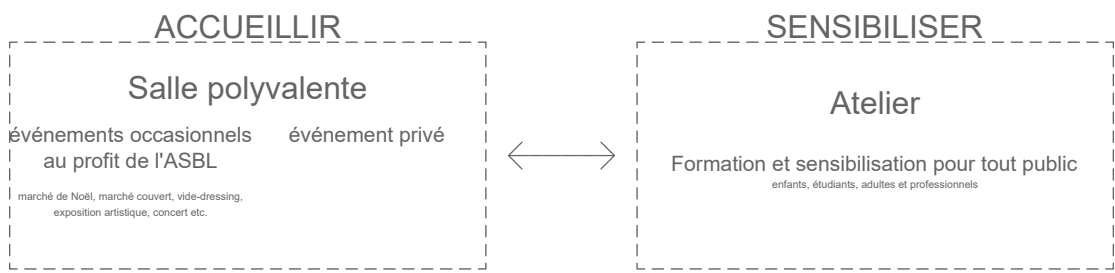
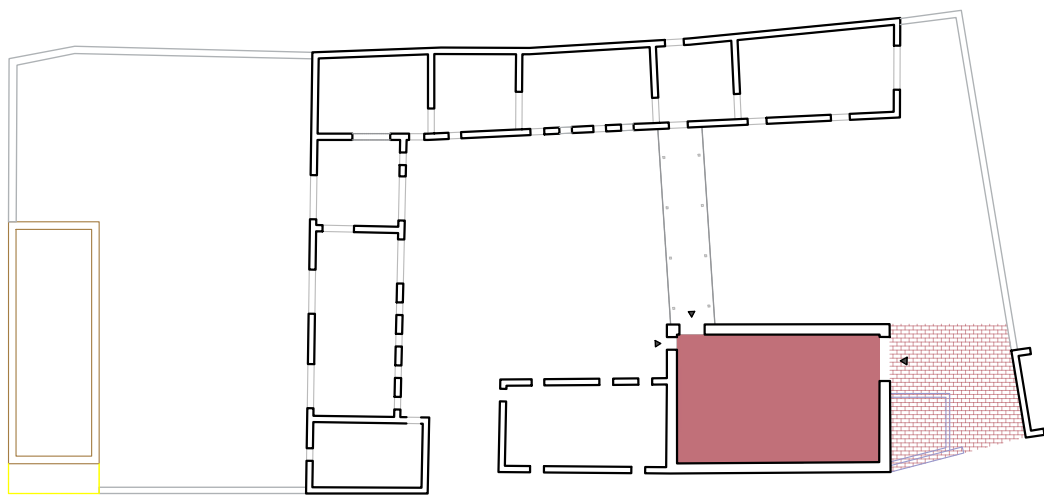
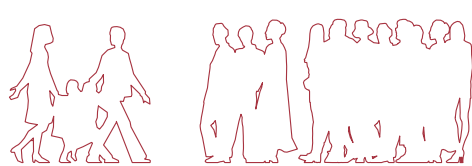
Espace polyvalent



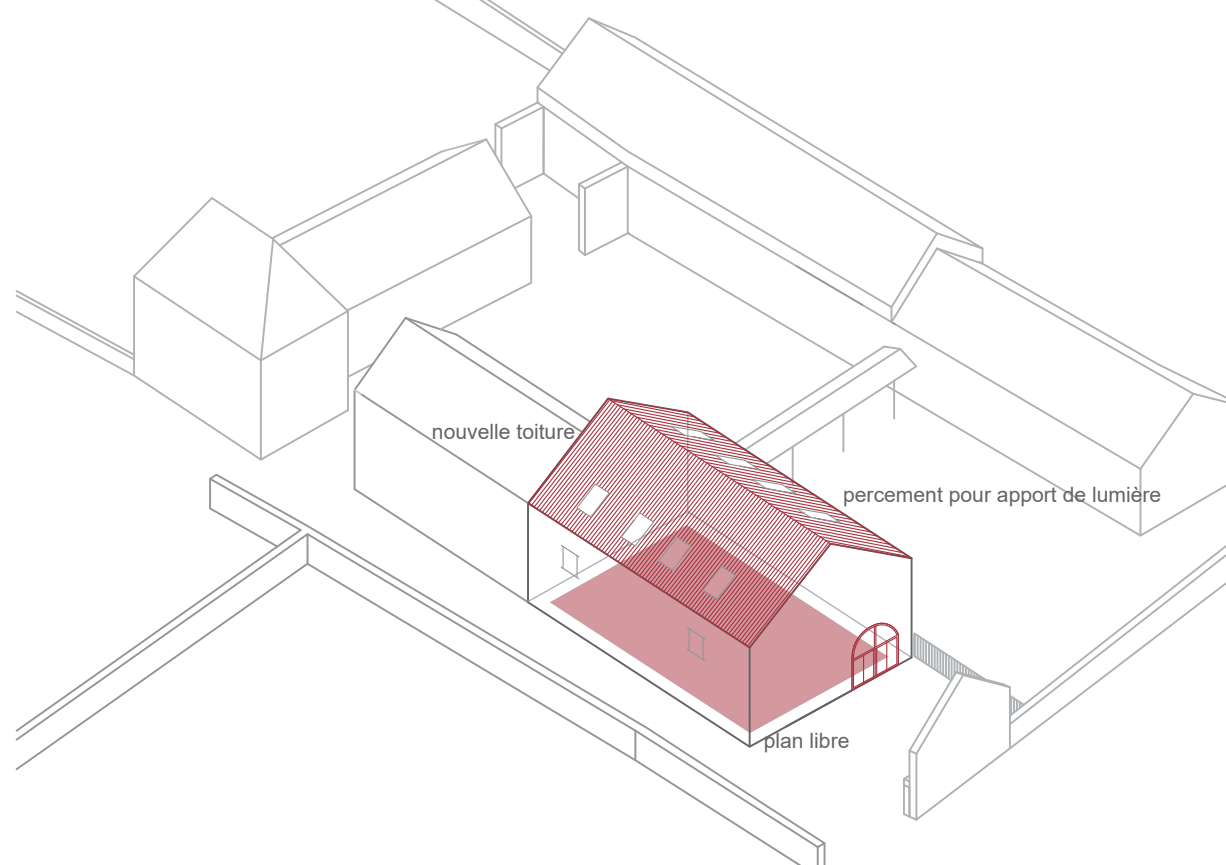
Eveil des sens



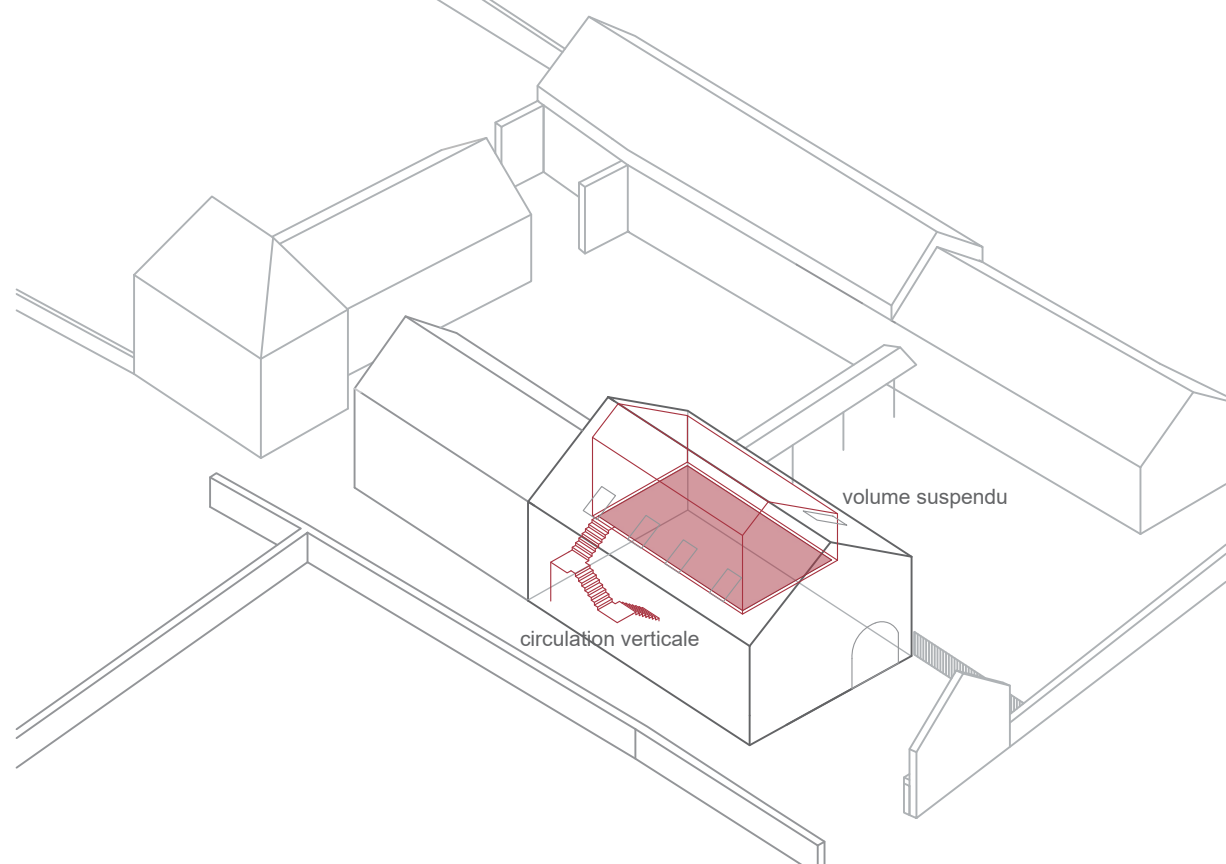
Public



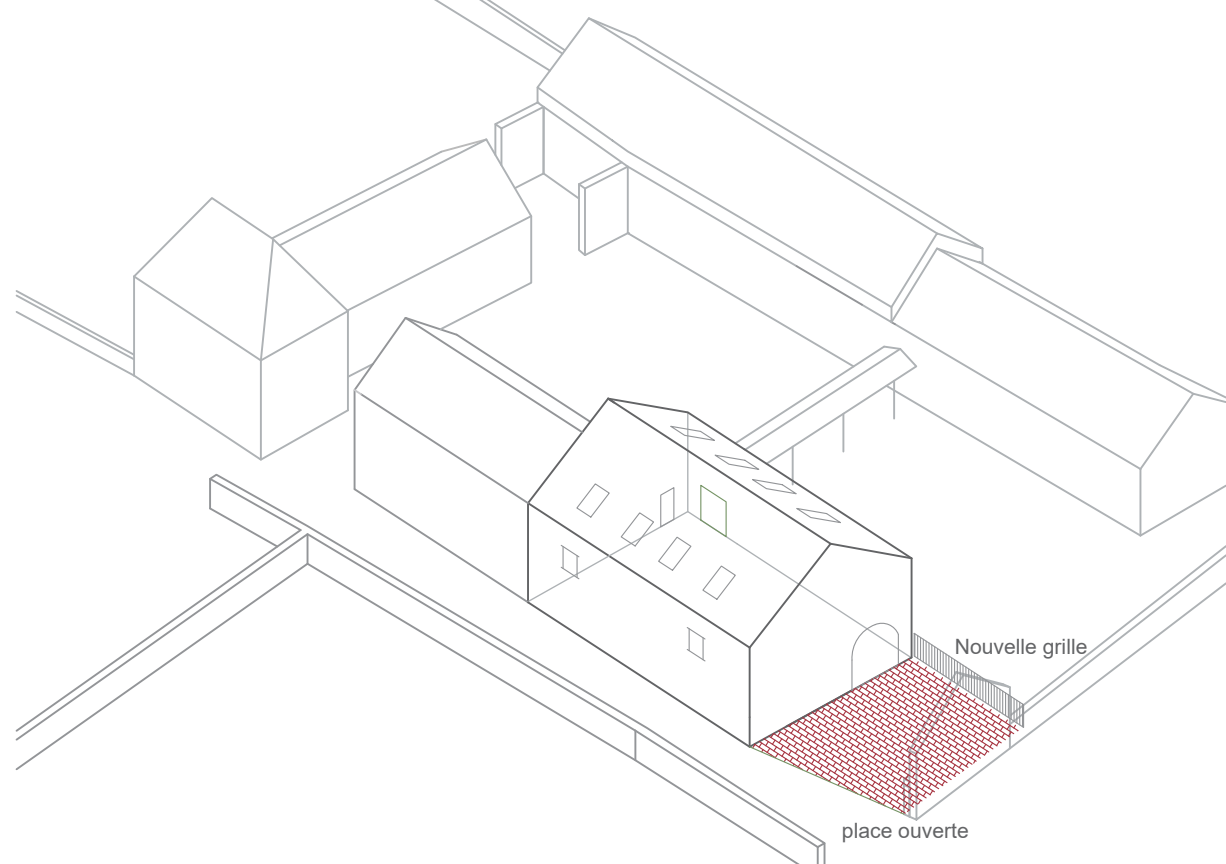
Accueillir



Sensibiliser



Ouvrir au quartier

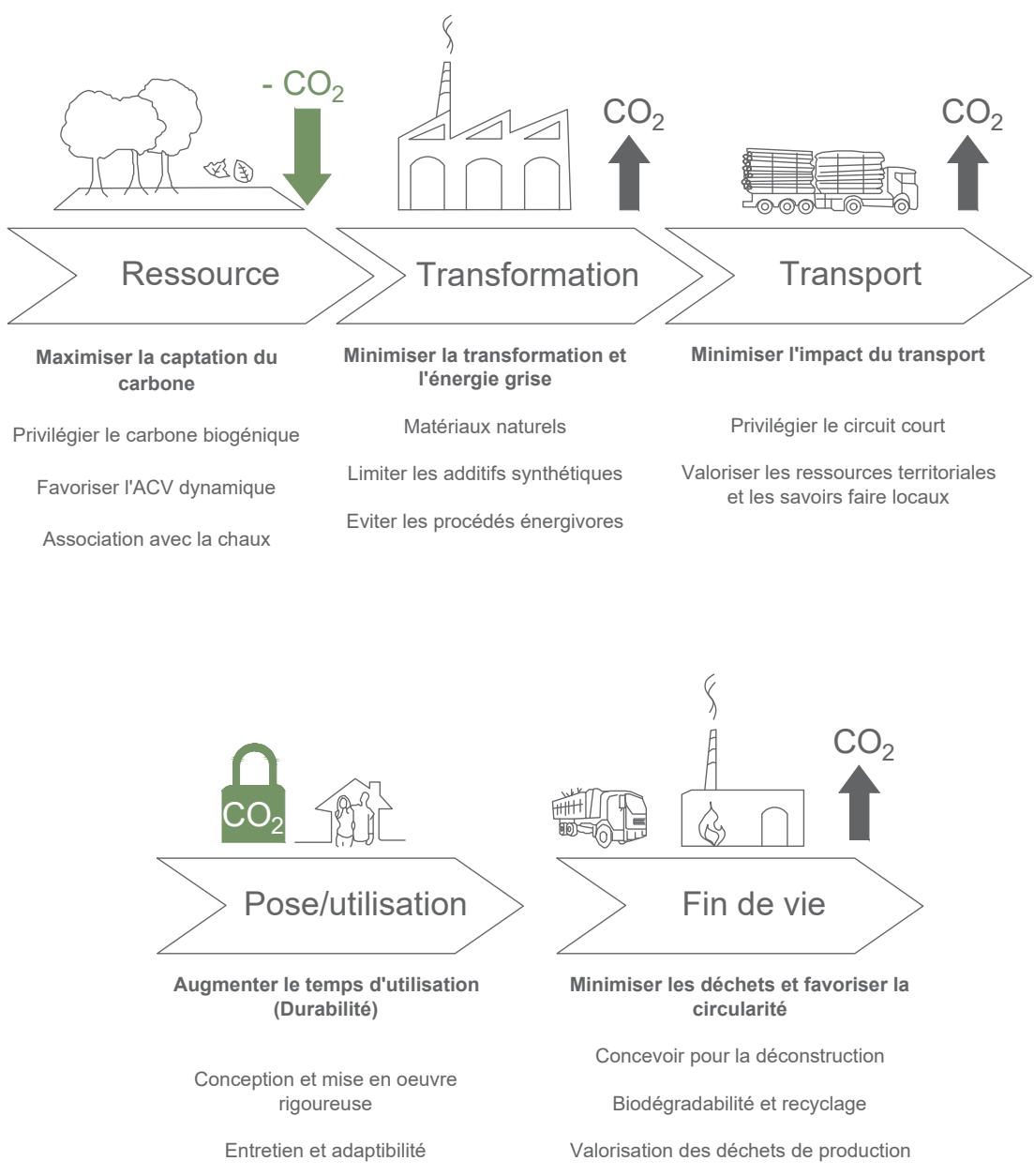


Stratégies constructives

Minimiser l'impact environnemental

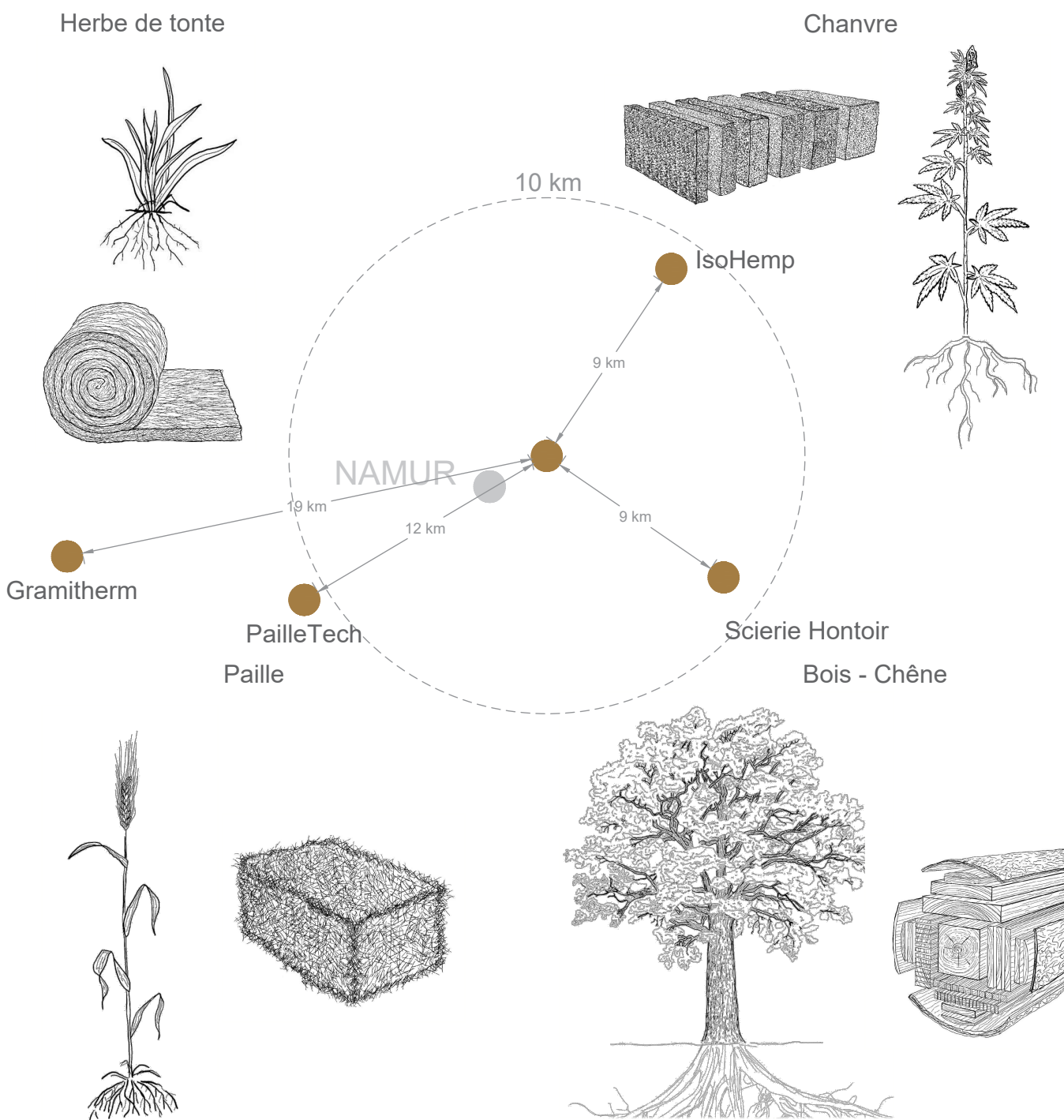
"Le bâtiment le plus écologique est celui déjà construit"

Stratégie



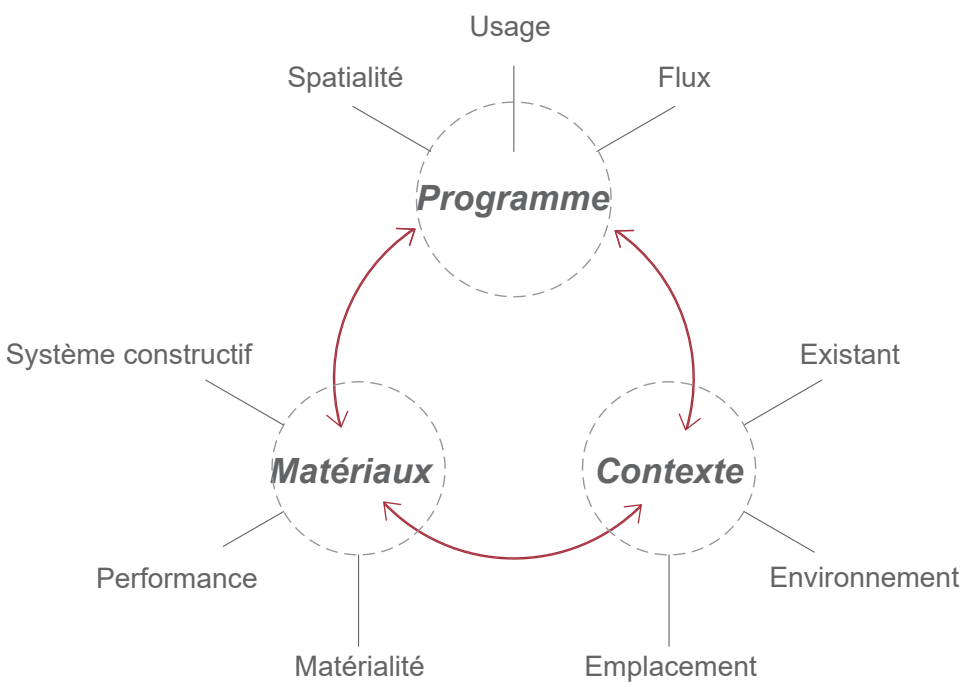
Ultra-Local

Favoriser le circuit court et l'économie locale



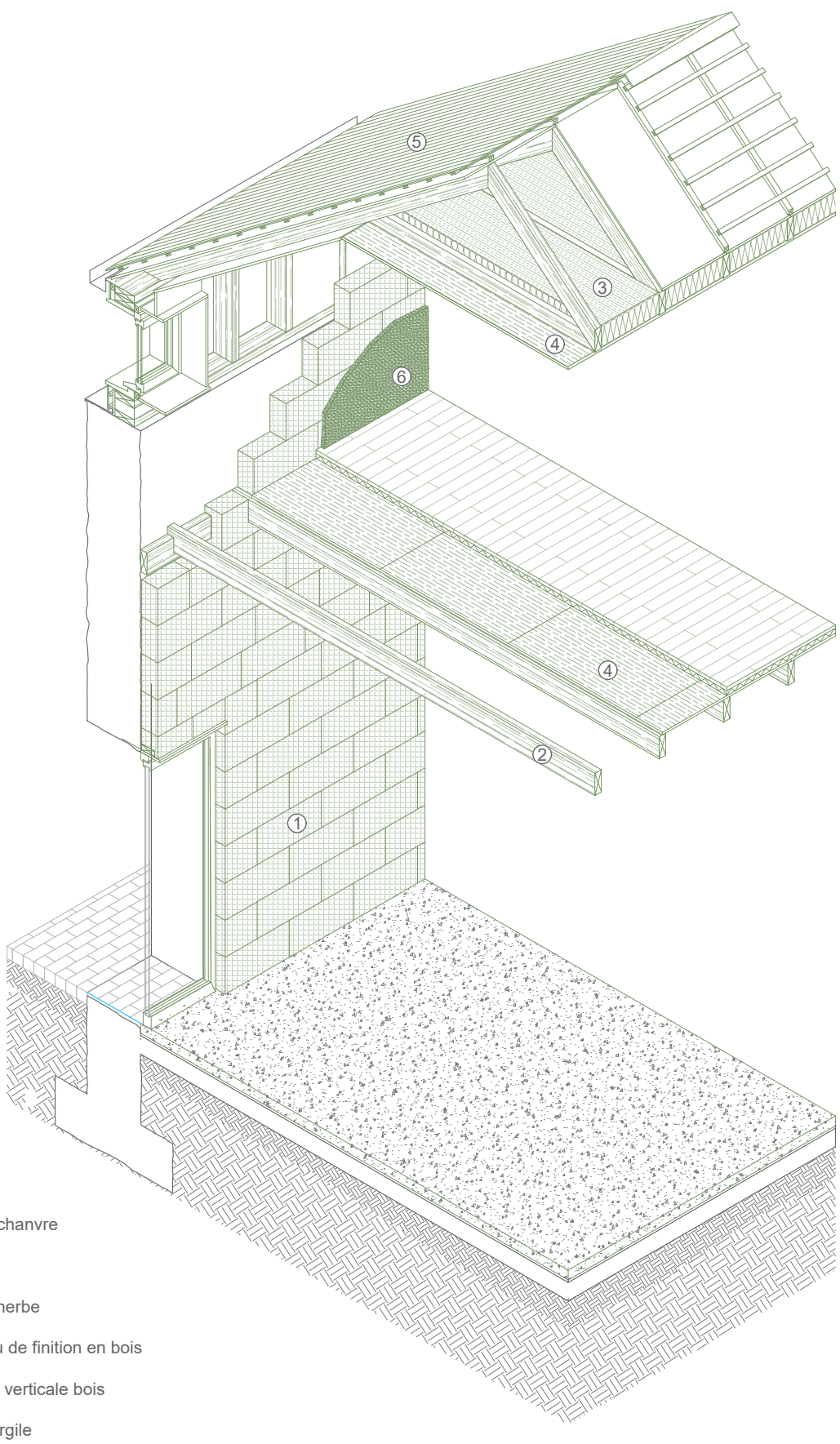
Intelligence Constructive

Le meilleur matériau au meilleur endroit



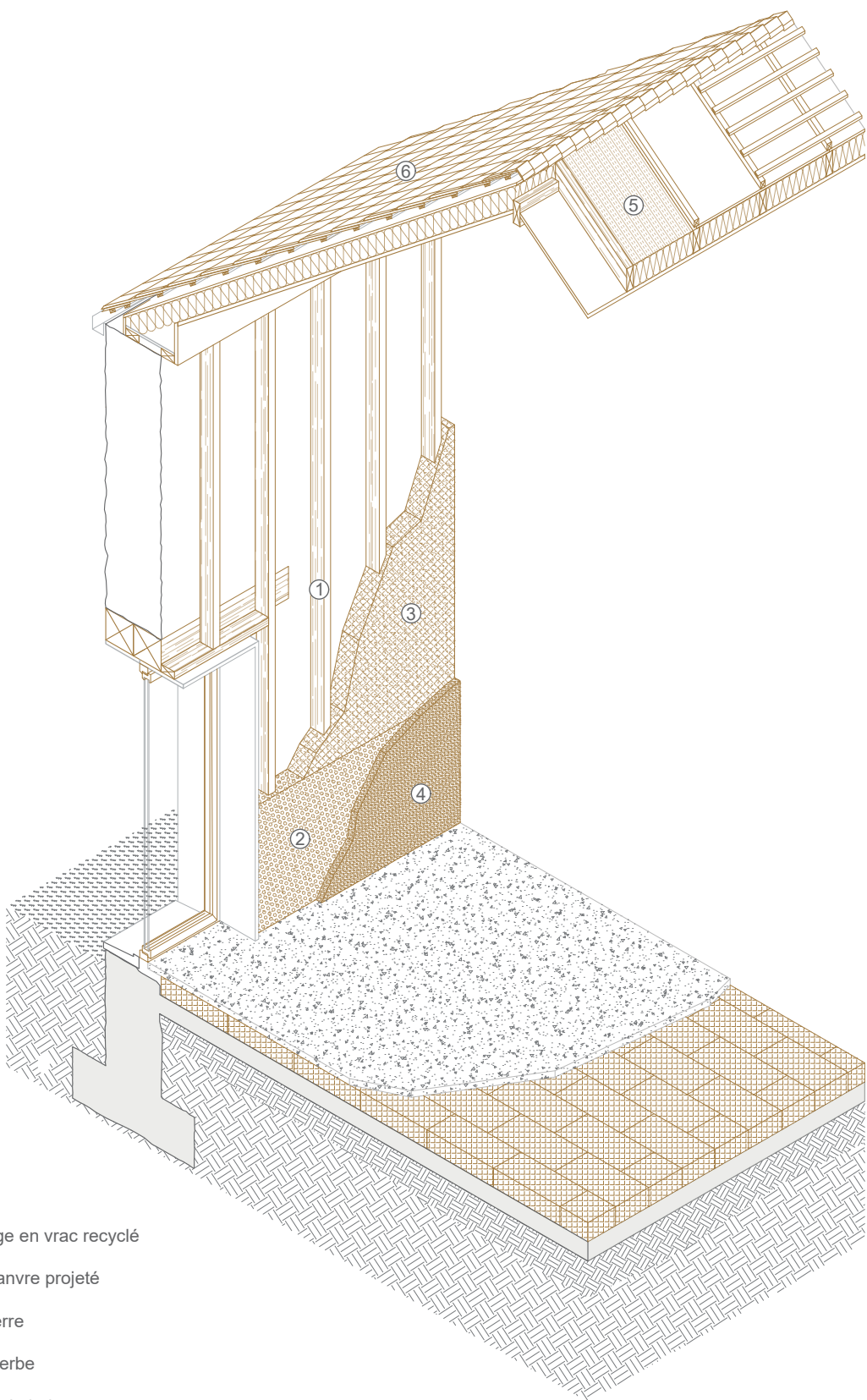
A1

En rénovation - réhabilitation



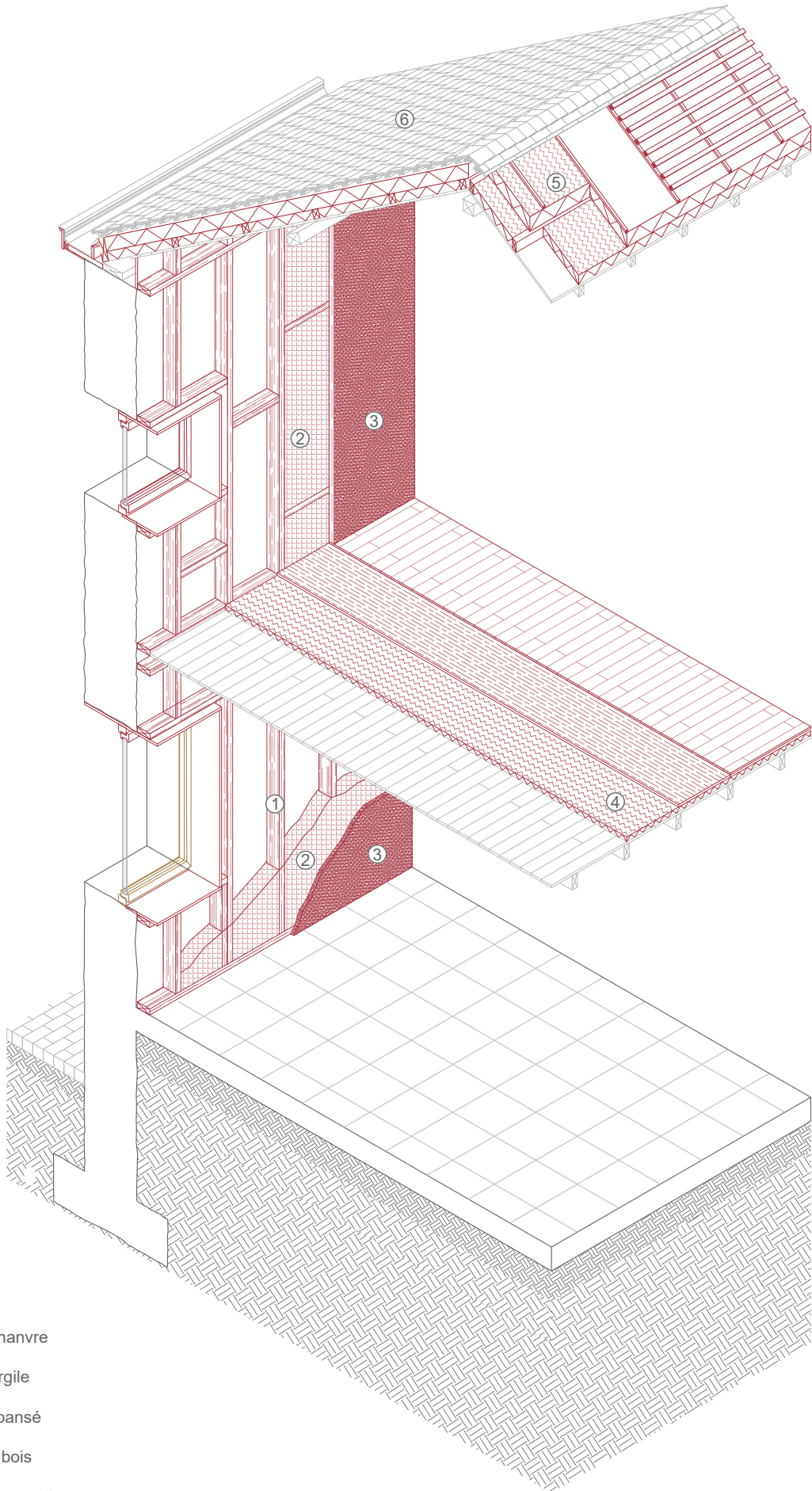
B1

1. chêne
2. terre-liège en vrac recyclé
3. terre-chanvre projeté
4. enduit terre
5. laine d'herbe
6. bardeau de bois



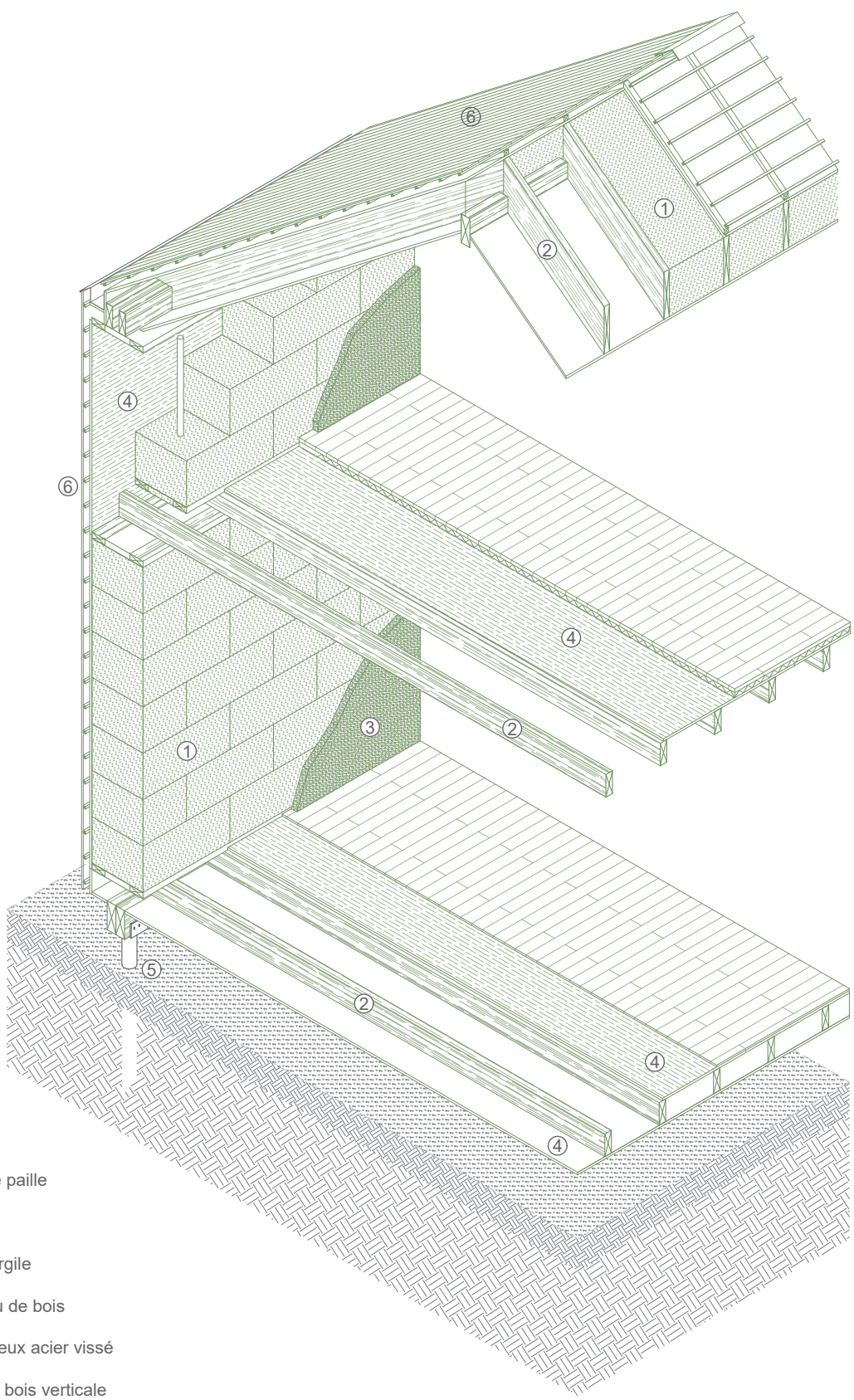
C1

1. chêne
2. chaux-chanvre
3. enduit argile
4. liège expansé
5. laine de bois
6. ardoise naturelle



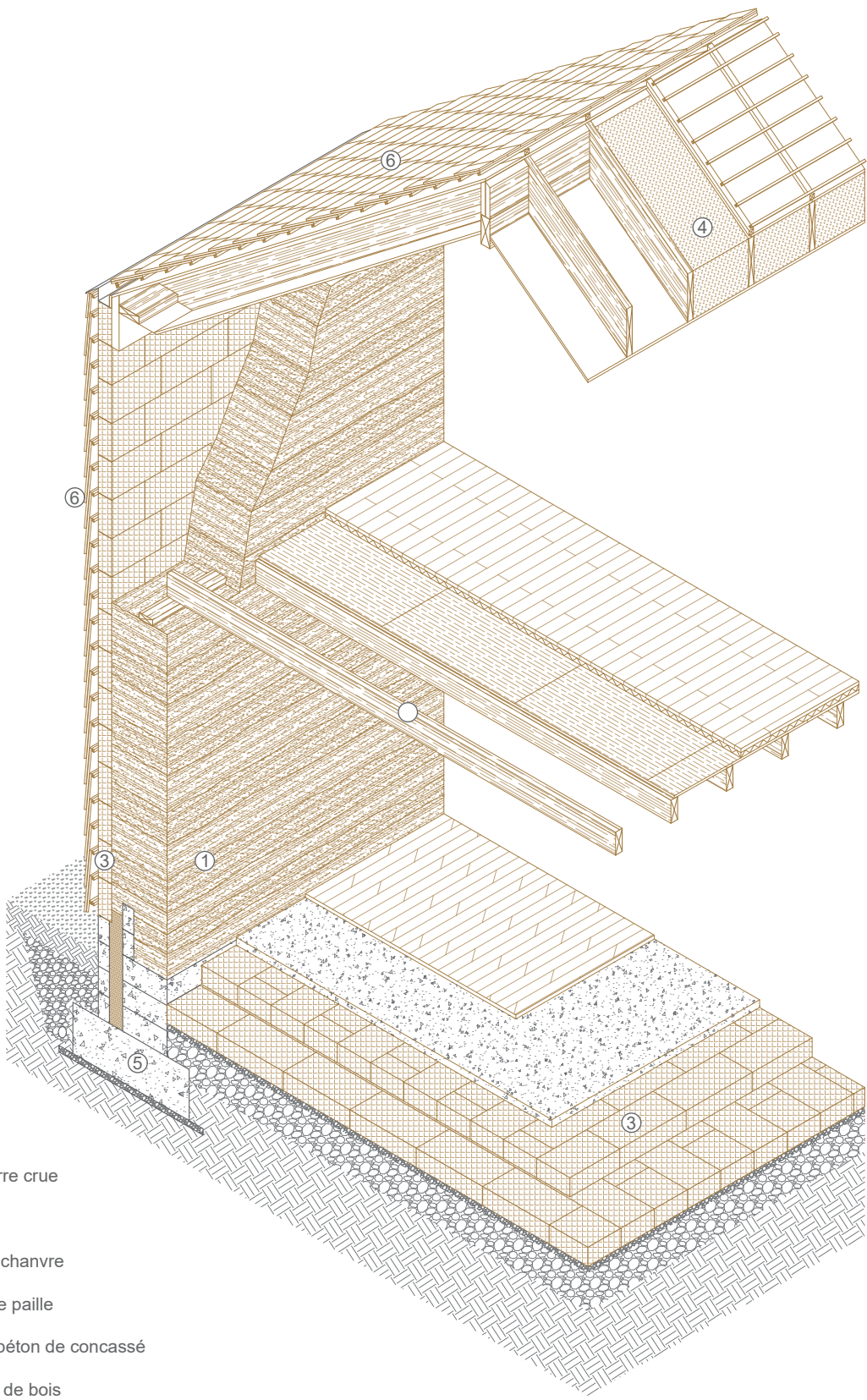
A2

Construction neuve



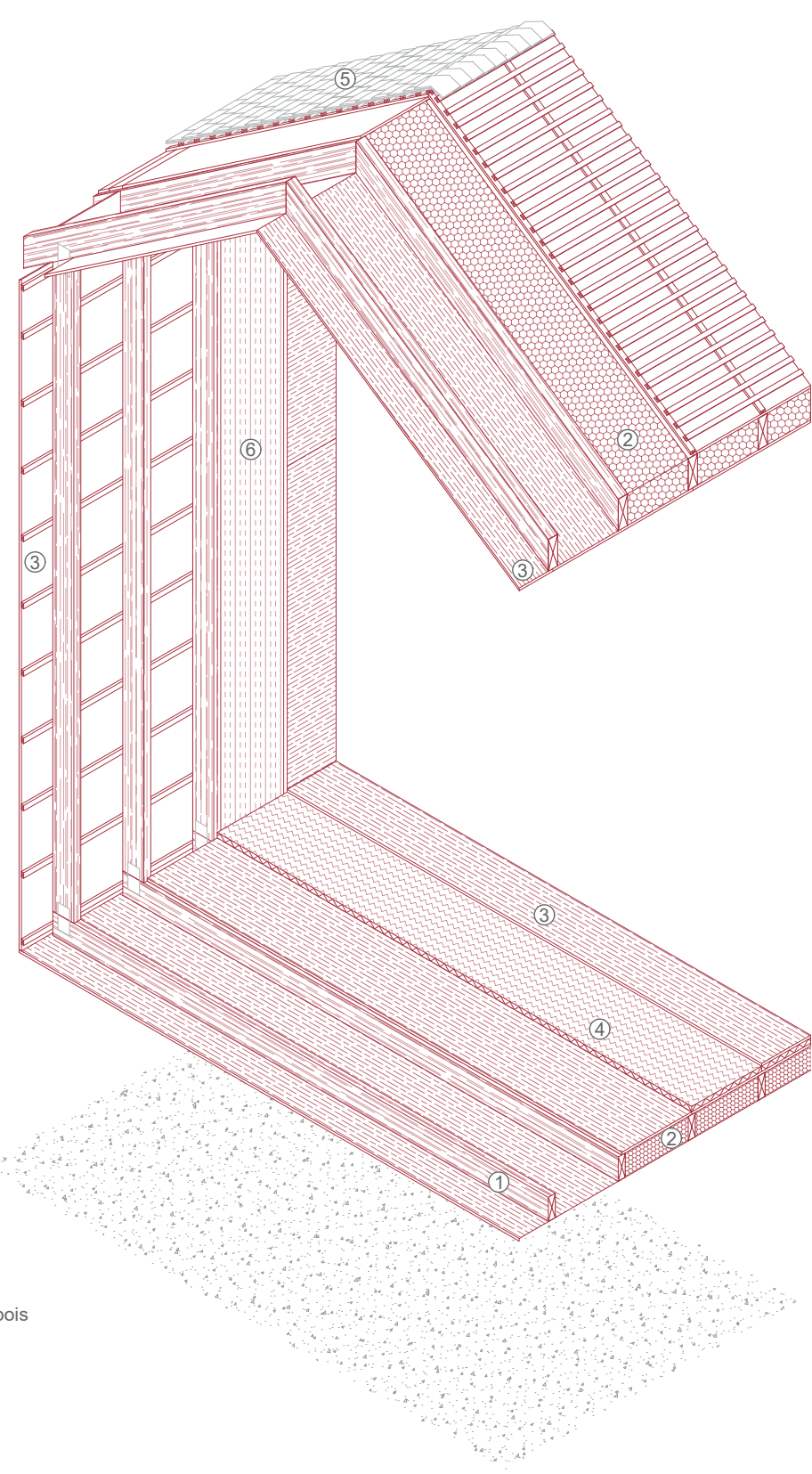
B2

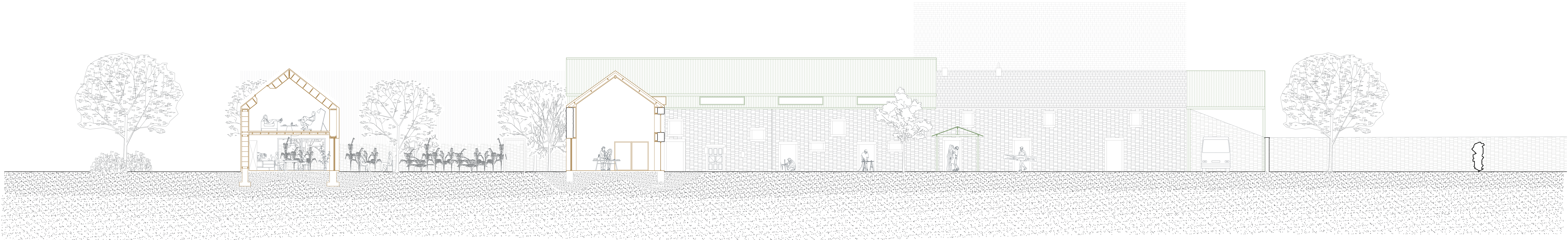
1. pisé - terre crue
2. chêne
3. bloc de chanvre
4. ballot de paille
5. bloc de béton de concassé
6. bardeau de bois



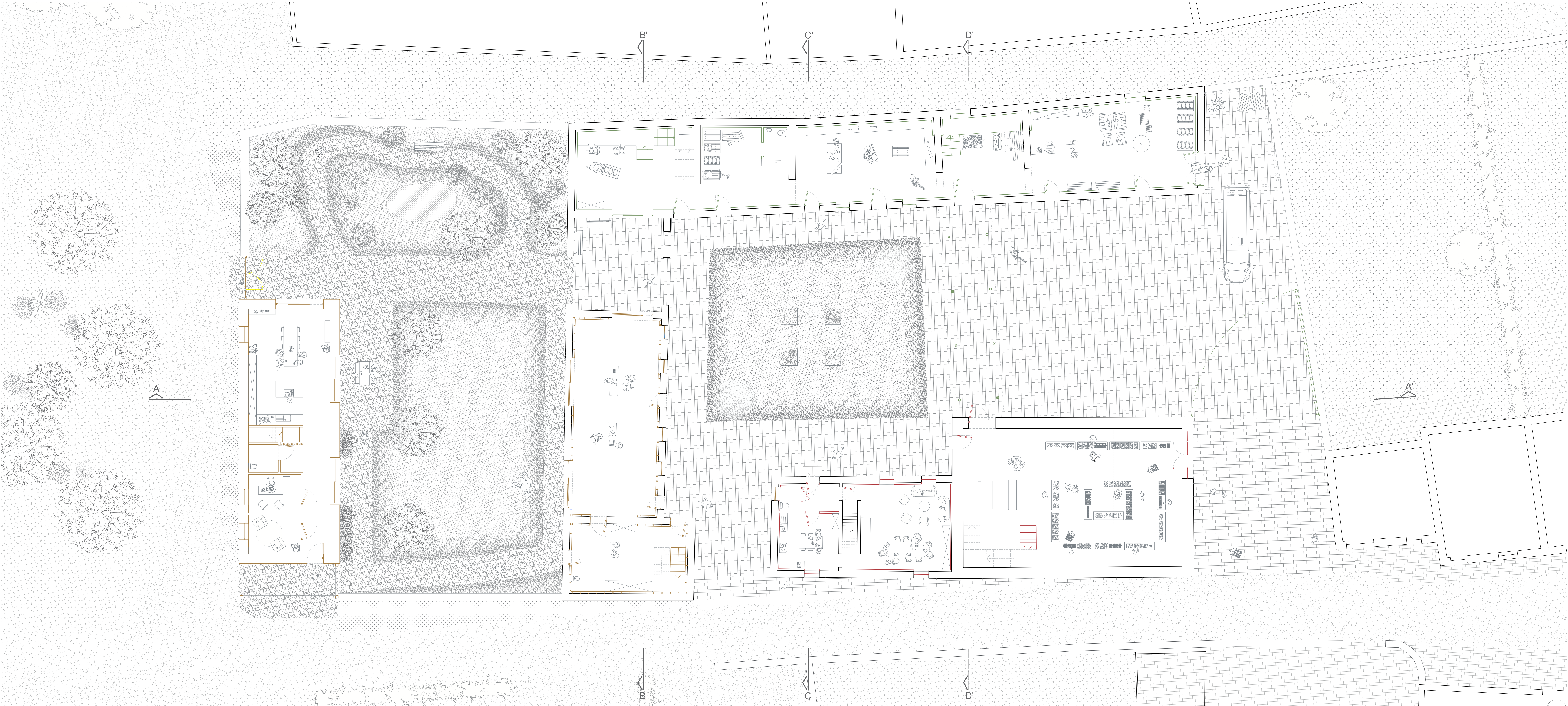
C2

1. chêne
2. ouate de cellulose
3. panneau de finition bois
4. liège expansé
5. ardoise naturelle
6. laine de bois

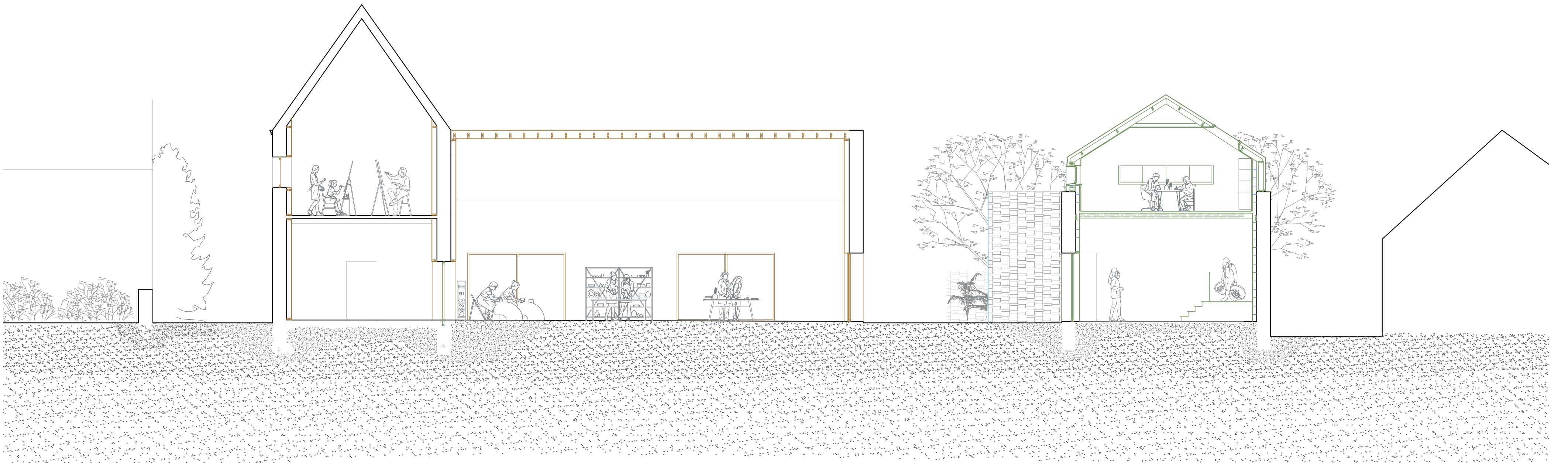




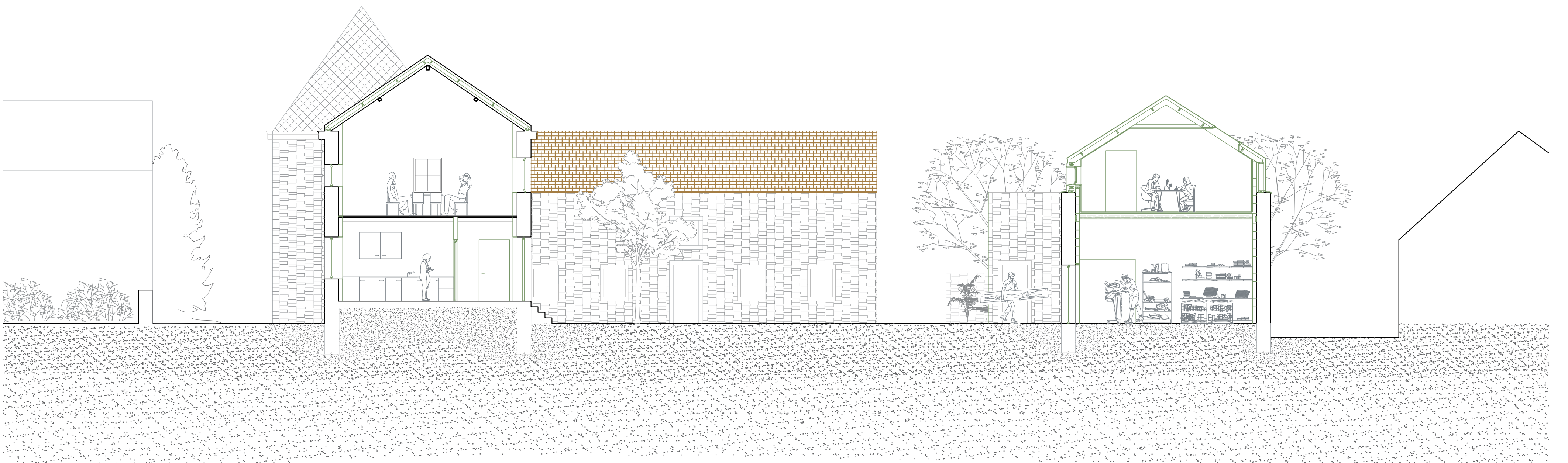
Coupe AA'



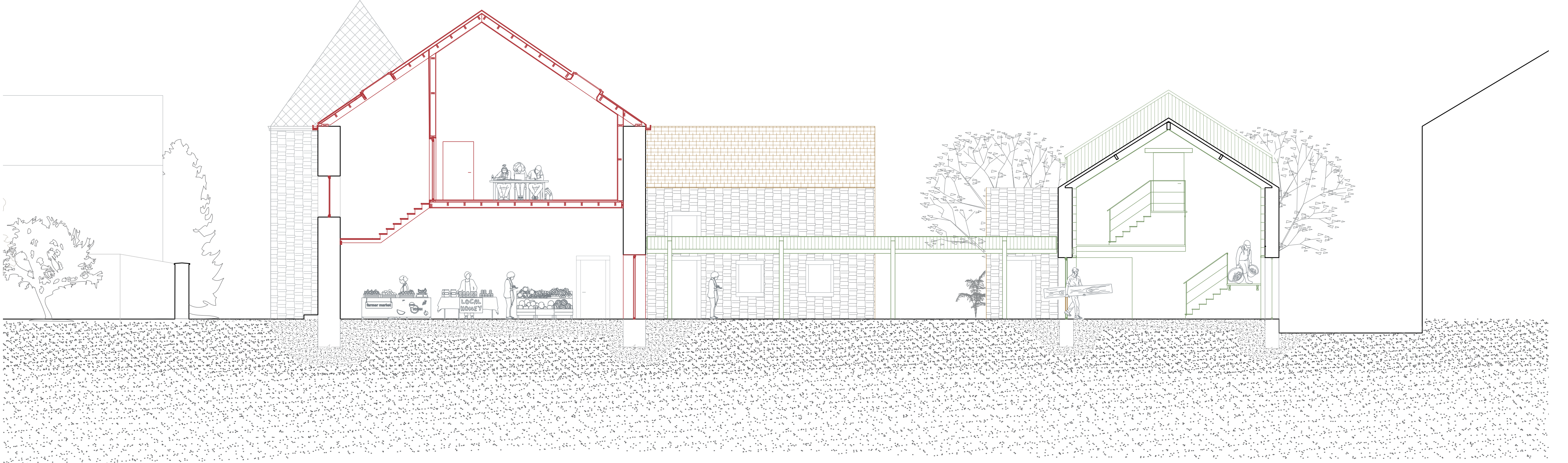
Plan 1%



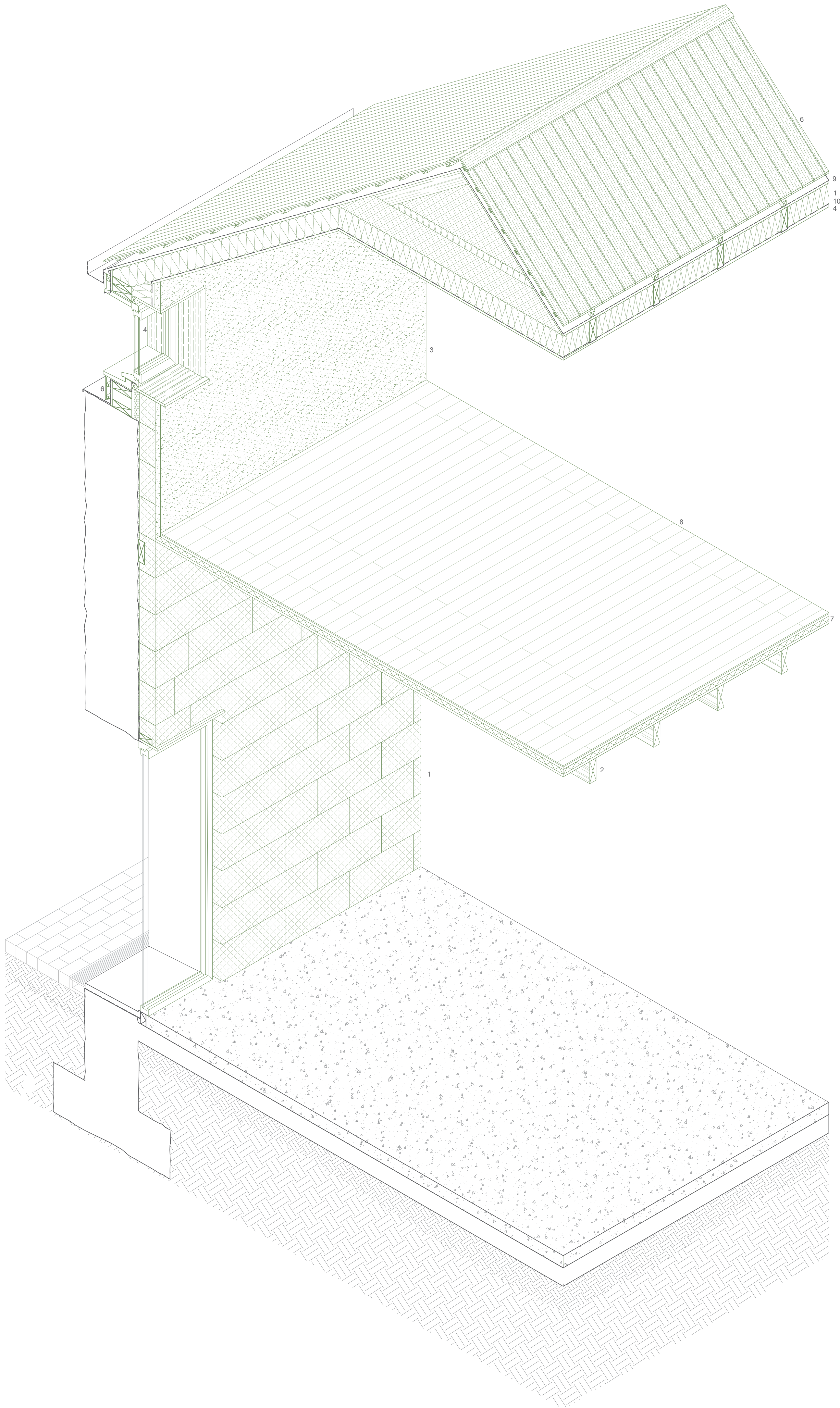
Coupe BB'



Coupe CC'



Coupe DD'



1. bloc de chanvre
2. chêne
3. enduit argile
4. panneau de bois
5. laine d'herbe
6. bardage bois verticale
7. liège expansé
8. parquet bois
9. pare-pluie
10. pare-vapeur