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GP presentation study case #8

Charleval's health center

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09 OCTOBER 2024 | Marseille

The project

Construction of a health center

- **Project features: construction of a 750 m² health center**
- **Projet owner : municipality of Charleval**
- **Architect : COMBAS**
- **Budget : 1,5 M€**
- **Delivery date : 2024**

Project funded by the Conseil Régional et Conseil Départemental



Environmental concerns

Decarbonizing construction

High environmental stakes for the construction sector

Limiting inputs

- aggregates from quarrying activities
- sand extracted from natural environment
- water consumption

Limiting output

- evacuation of excavated material

France
240 Mt waste / yr

Worldwide
23% CO2 emissions
40% of material extraction



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Our solution

Production of building materials by recycling excavation's resource

Near the worksite (3 km) thanks to mobile production units



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Results

Total excavation resources:
672 tons

- 572 T recycled as building materials (85%)
- 60 T topsoil used in landscaping (10%)
- 40 T disposed in landfill (5%)



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Results

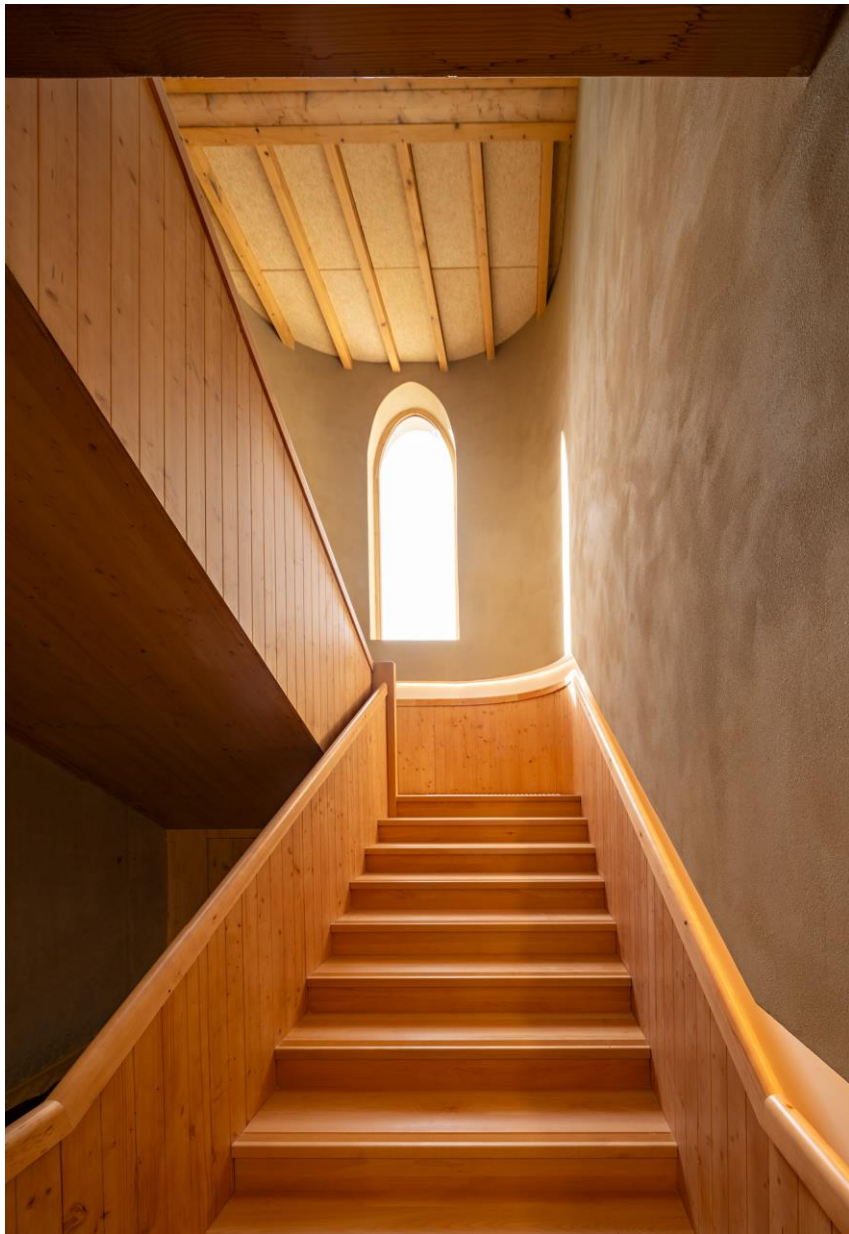
572 tons of resources recycled as building materials

- **435 T in perimeter walls : 435 m² of walls on two levels**
- **137 T in foundations, bedrock and backfill**

→ 85% of the excavated earth = 73% of the structural materials

If the project had included an additional basement 0.46 m deep, we would have been able to produce 100% of the structural materials.





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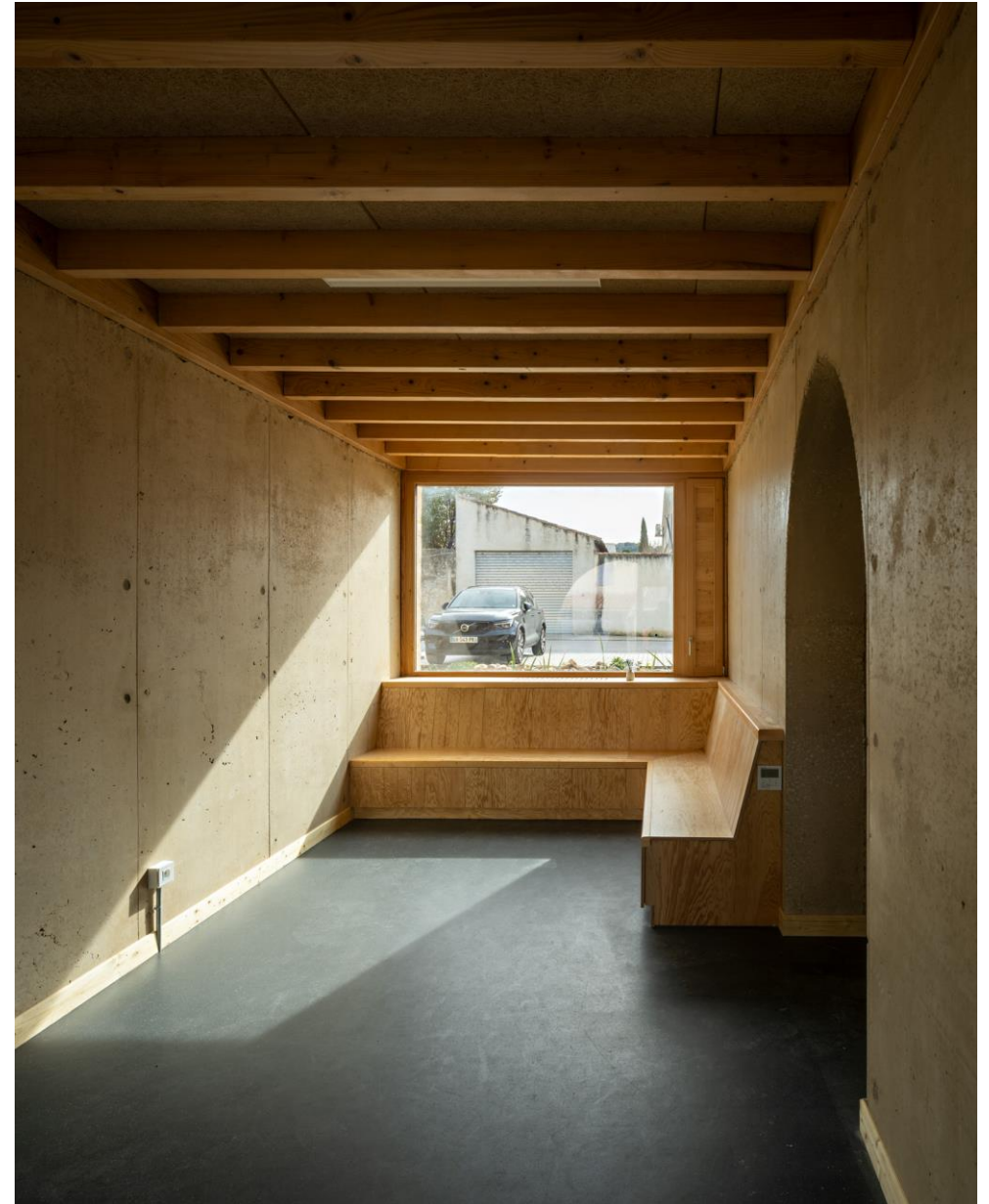
Practical feedback

Challenges

- Integrating innovation into a construction project
- Testing the production prototype
- Reassuring bureau de contrôle and insurance agencies

Key points

- Public policy support is crucial for this type of project.
- Need to support innovation throughout the entire project (design to realization)
- Project owner's motivation is the key



**Time for
questions**



Thank you!

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