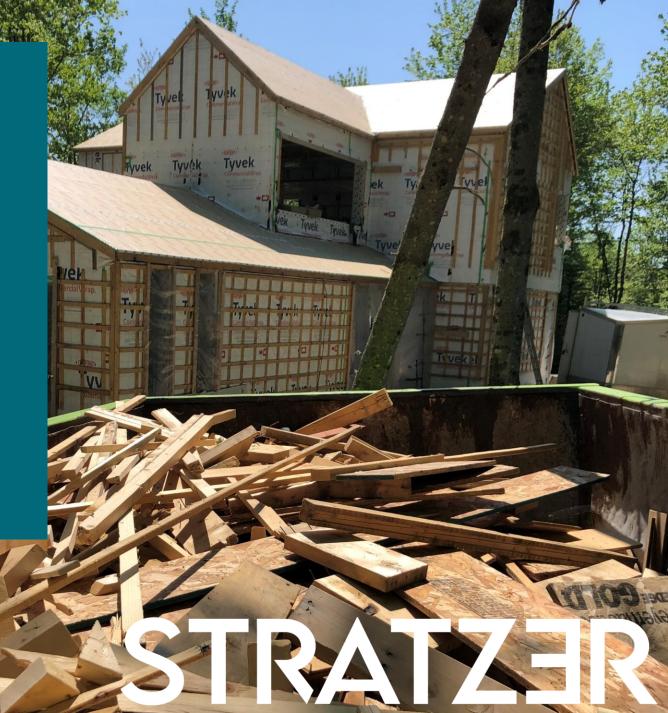
ON-SITE SORTING AND TRACEABILITY: A look back at two projects for better C&D management

Mathieu Painchaud Stratzer Consulting



April 4th, 2024



ABOUT STRATZER

- 25 years +
- Four offices (QC/ON)
- 90 professionals
- 6 departments





C&D WASTE MANAGEMENT IN QUÉBEC



INTENTIONS VS REALITY

Source : RECYC-QUÉBEC (2021)



Recycle and recover 70% of construction, renovation and demolition waste

Expected obligation :

Send C&D waste to sorting facilities

1/3 Of landfill are C&D





NOT ALL SORTING FACILITIES ARE THE SAME

39 facilities

- 15 recognized by RECYC-QUÉBEC (government)
- 10 non-compliant sites

Recycling and waste-to- energy diversion rate	Number of C&D sorting facilities at this level
Less than 20%	6
Between 20% and 39%	14
Between 40% and 59%	9
Between 60% and 80%	5
Over 80%	1



WHY THOSE PROJECTS?



ON-SITE SORTING PROJECT

JANUARY TO DECEMBER 2023





METHODOLOGY AND OBJECTIVES

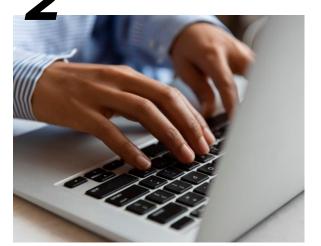
Test feasibility and measure impacts



Kickoff meeting

- Milestones of the project
- C&D waste generated

→ 11 worksites involved STRATZBR



Research

- Collectors
- Conditions for collection



C&D waste management plan

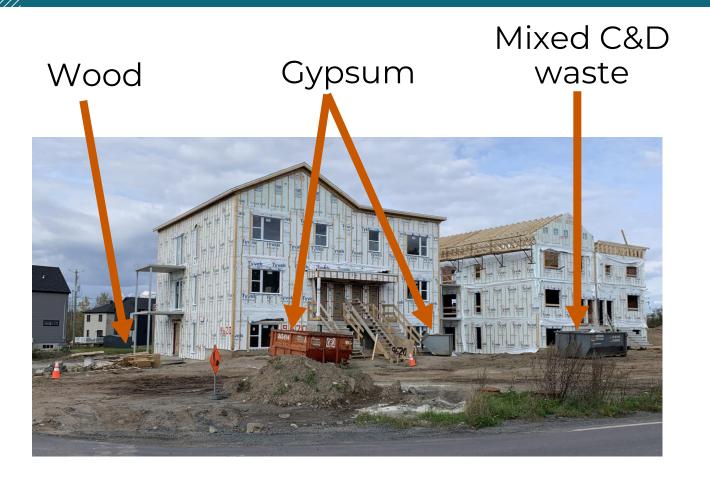
 Description of the waste management approach



Follow-up

- Support the implementation
- Data collection and feedbacks

WHAT DOES IT LOOK LIKE?





RESULTS



+25 %



+0,1 %



FINDINGS



- Sort by profession
- Adapt containers
- Communicate





Reuse



• Collection of garbage, recyclables and organics

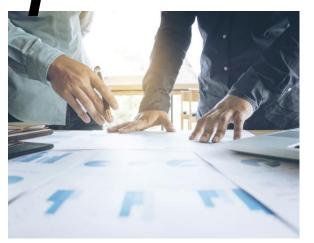


RECYC-QUÉBEC Québec * *



METHODOLOGY AND OBJECTIVES

Develop and test a traceability system adapted to C&D waste



Development

• App development with our partner





Recruitment

- Different scales of projects
- Users training
 - ➔ 15 worksites involved



Operation

- Day to day on-site activities
- Data collection
 - → 379 tracked routes



Continuous improvement

- Functional analysis
- Users feedback

HOW IT WORKS

Web-based app

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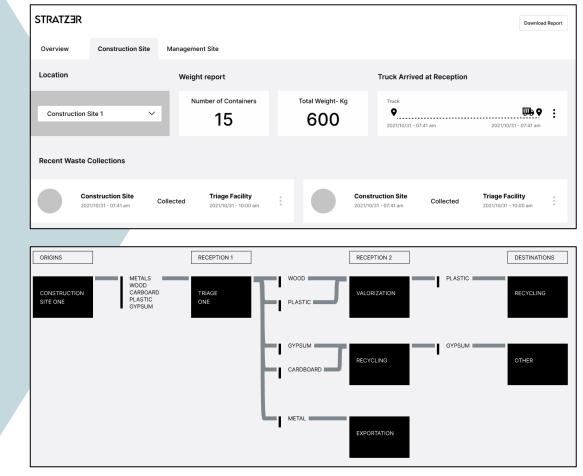




Dans le cadre d'un projet RECYC-QUÉBEC réalisé par

STRATZER

Dashboard



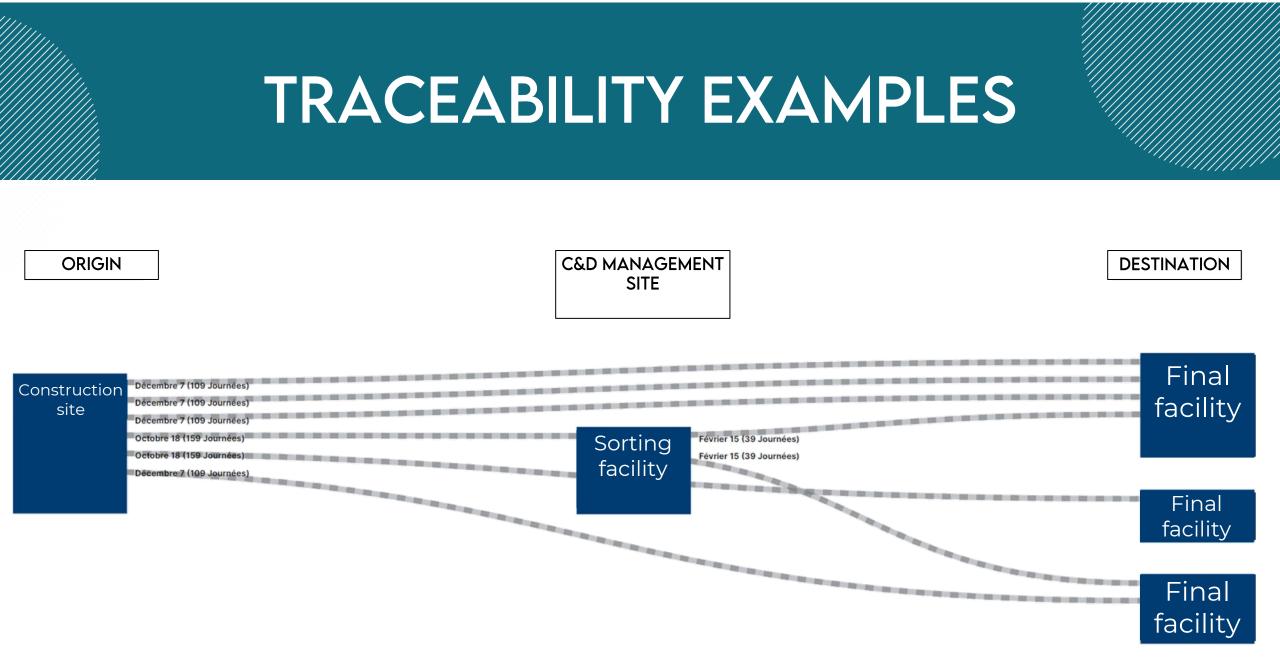
HOW IT WORKS

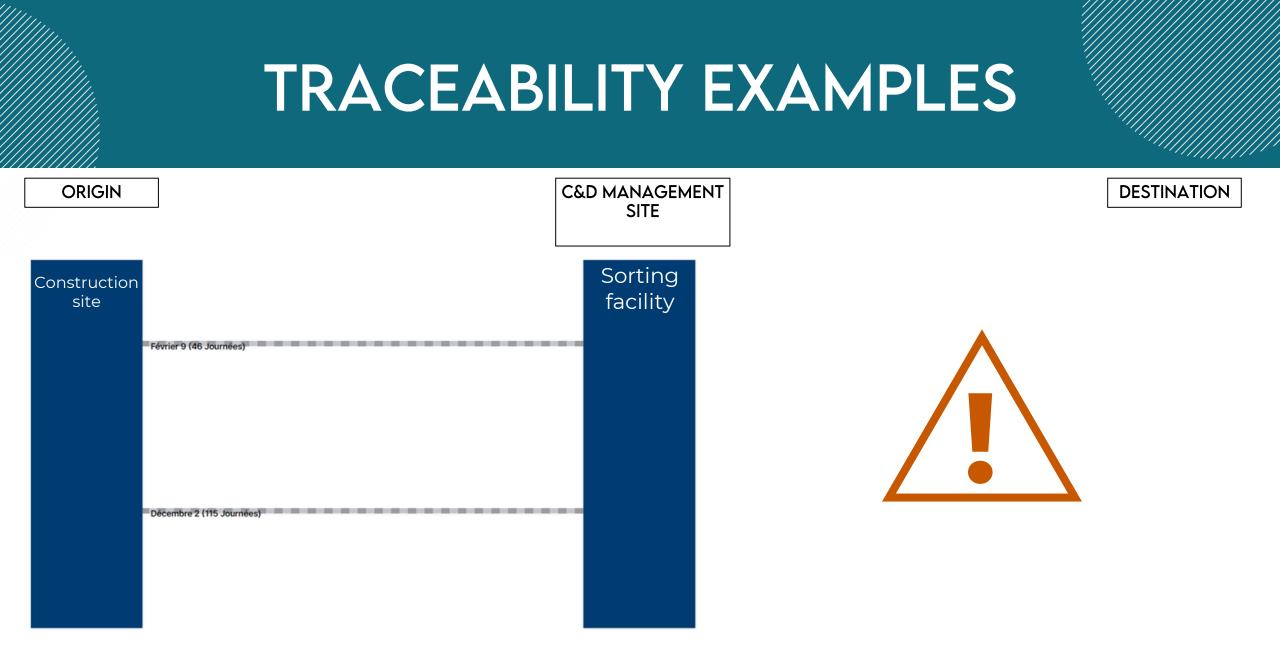


Final facility confirmation for each received shipment









FINDINGS



- User friendly
- Quick



- Requires initial training
- User support



Entire value chain

 Involvement of all stakeholders is needed



- Quick identification of bad practices
- Real time data collection and control

CONCLUSION

On-site sorting

- Important increase in diversion rate
- Low impact on time and costs
- Impact assessment needed for sorting facilities before expansion

Traceability

- Effective for tracking C&D waste
- User friendly system
- Available for specific needs : TR C3R

Thank you for your attention!

Questions or comments?

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stratzer.ca

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