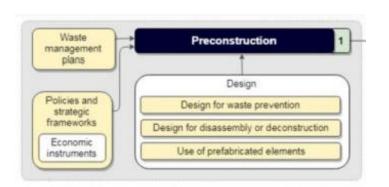
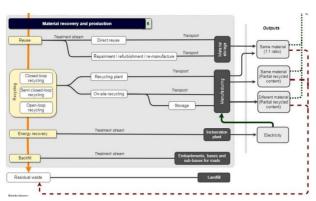


Urban Mining and the CDW Circular Economy (URR.9) December 13, 2022

On Tuesday, December 13, 2022, Town+Gown hosted its 9th Urban Resource Recovery (URR) event. This event brought the Town+Gown community and the URR Working Group (URR WG) together on the topic of closing construction + demolition waste (CDW) material loops for the first time since October 13, 2021, when we revealed the URR WG's Closing Loops City Program Initiative (CLCPI) (see https://www1.nyc.gov/assets/ddc/downloads/town-and-gown/AgendaandPrecis.Final10-12-21.pdf). The CLCPI outlines public policy and operational steps necessary for NYC to "lead by example" and leverage its capital projects to transform CDW from a "waste" to a resource by increasing CDW recovery and re-use and closing CDW material loops.

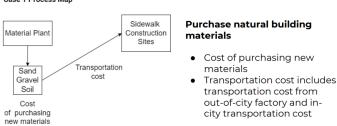
Prof. Thanos Bourtsalas of Columbia open the event by connecting "big picture" concepts of urban mining and circular CDW economy to NYC construction projects. Of particular importance for the CLCPI are the pre-construction design phase, which can include prefabricated elements, and the logistics of material recovery and production. Full presentation at https://www.nyc.gov/assets/ddc/downloads/town-and-gown/ProfBourtsalas urbanminingpresentation 12132022.pdf



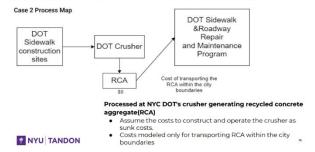


The Fall 2022 NYU/Tandon-MOT capstone team presented on a two-part conceptual Cost-Benefit Model for the recovery and re-use of concrete, as recycled concrete aggregate, in both direct and indirect manners envisioned by the CLCPI, with NYC DOT's crusher operations for sidewalk projects as the case study. Full presentation at https://www.nyc.gov/assets/ddc/downloads/town-and-gown/TandonMOTCapstonepresentation-Dec132022.pdf

Cost-Benefit Model - Elements for Case Study Case 1 Process Map



Cost-Benefit Model - Elements for Case Study



There were lively discussions among "in person" participants and the presenters (with an information exchange party going on among the remote participants), which will lead to future research and symposium events.