



CARBON TO  
VALUE INITIATIVE

# CATALYZING THE CARBONTECH ECOSYSTEM

*Frederic Clerc - Opening Remarks - National Academies of Sciences  
Committee on Carbon Utilization Committee - June 27, 2023*

A COLLABORATION BY

**URBAN** FUTURE LAB  
NYU TANDON



Greentown Labs



**Fraunhofer**  
USA

# Frederic Clerc - Brief Career Overview

Director, Carbon to Value Initiative at the **Urban Future Lab**  
(2020-current)

- Longest running Climatetech incubator in New York

## Background:

- Project Manager at EnVertis Consulting (2014-2020)
  - Biorefinery business strategies/Biomass-to-X technologies
- Co-founder of non-profit Climatable (2017-2019)
  - Led ClimateLaunchpad business idea competition in Canada
- Master in Energy and Sustainable Development at Polytechnique Montreal, Chemical Engineering (2011-2013)
- Career in Europe before working on climate solutions (2005-2011)
  - Management consultant at BearingPoint
  - Product engineer at Assima (growth-stage startup)
  - Bachelor and Master of Engineering, Computer Science Major, INSA Rennes, France

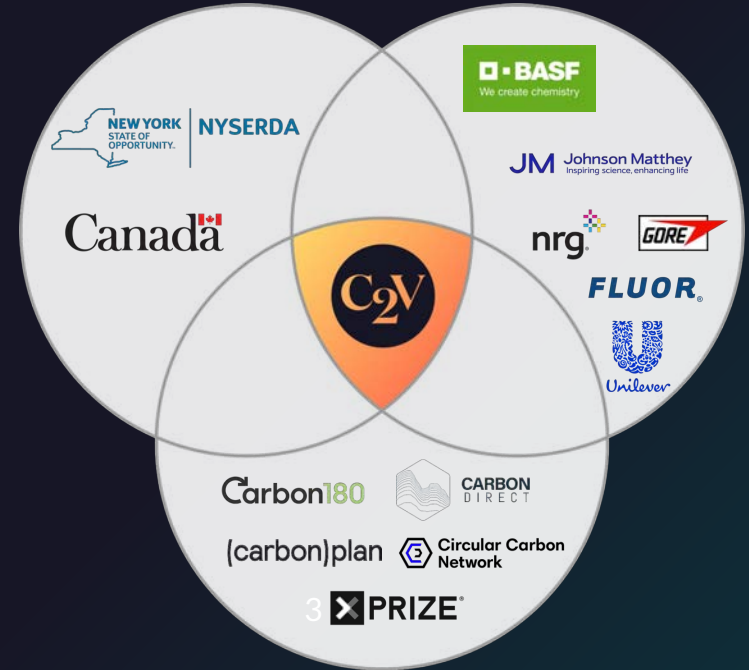


# WHAT IS THE CARBON TO VALUE INITIATIVE?

- 3-year multi-stakeholders open innovation program to catalyze carbontech
- 2 core missions
  - Ecosystem Building
  - Fostering Partnerships, esp. between startups and corporates
- Carbontech Leadership Council work closely with startups and foster commercialization opportunities

GOVERNMENT

CORPORATES







CARBONTECH EXPERTS

# SUPPORTING CARBONTECH INNOVATIONS



Credit: Carbon180

## CARBON WASTES

-  CO<sub>2</sub>
-  Biomass
-  Manure
-  Garbage

## CONVERSION TECHNOLOGIES

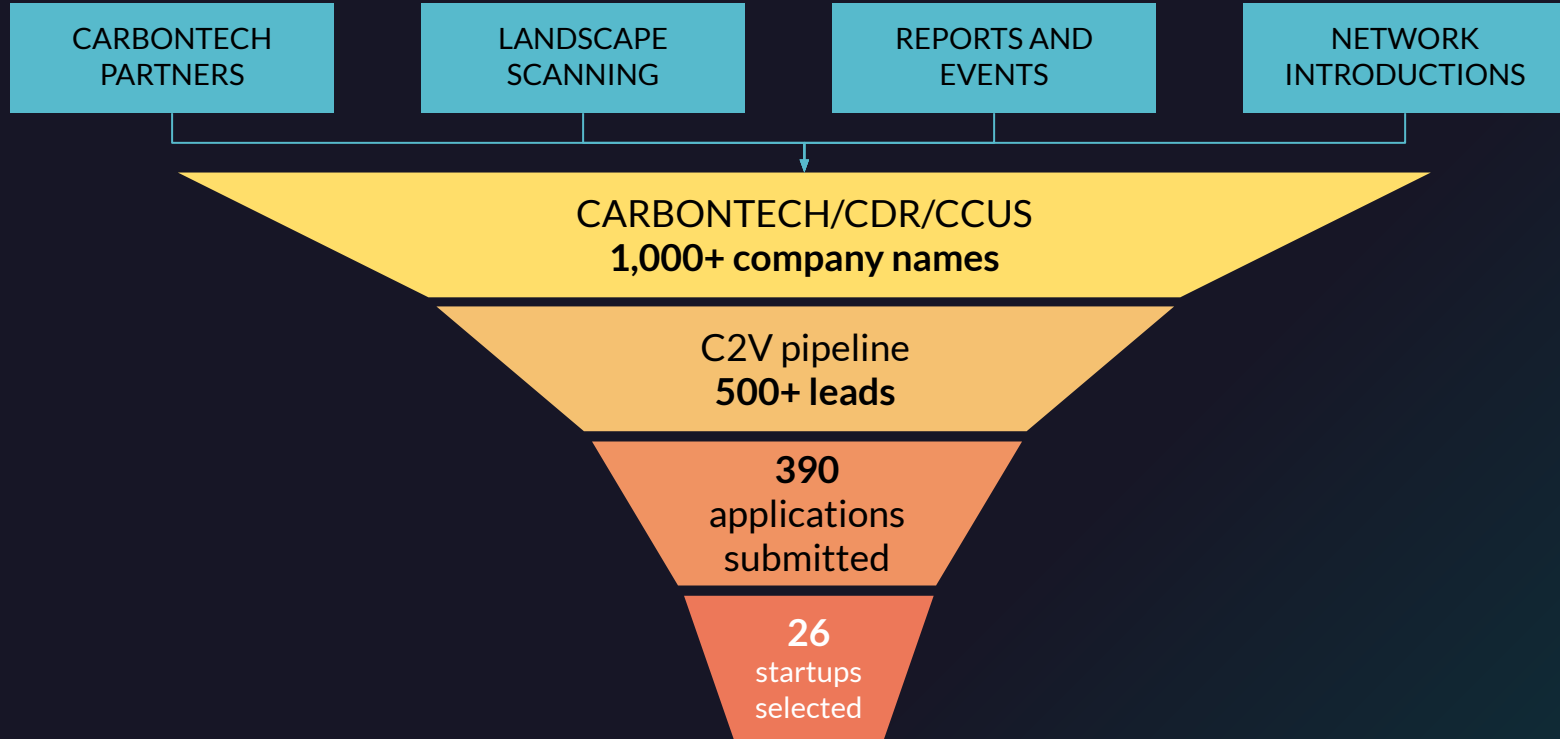
-  Electrochemical
-  Photochemical
-  Thermochemical
-  Bio-catalyzed
-  Photosynthetic

## PRODUCTS & SERVICES

-  Fuels
-  Building Materials
-  Plastics
-  Chemicals

Credit: Carbon180

# CARBON TO VALUE PROCESS (YEAR 1-3)



# CARBON TO VALUE COHORT STARTUPS (YEAR 1-3)

## Point source capture



## Direct and Ocean Air Capture



## Carbon conversion to fuels and chemicals

AIR COMPANY.



## Carbon Mineralization



Carbfix



Carbon Upcycling Technologies



CAPTURE6

## Biomass & Biochar



## Carbon conversion to advanced materials



## Enabling Technologies



# STARTUP ACCELERATION, PARTNERSHIPS AND ECOSYSTEM BUILDING OUTCOMES (To date; Year 1&2)



Read the [Year 1 results article](#) and the [Year 2 results article](#) for more details.





# CARBON TO VALUE INITIATIVE

## THANK YOU!



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