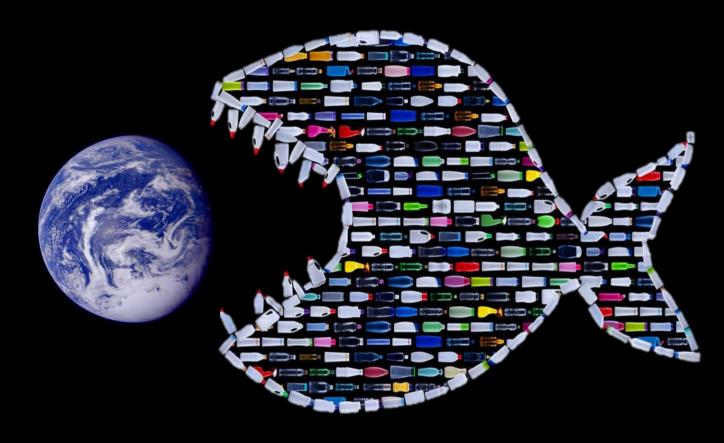
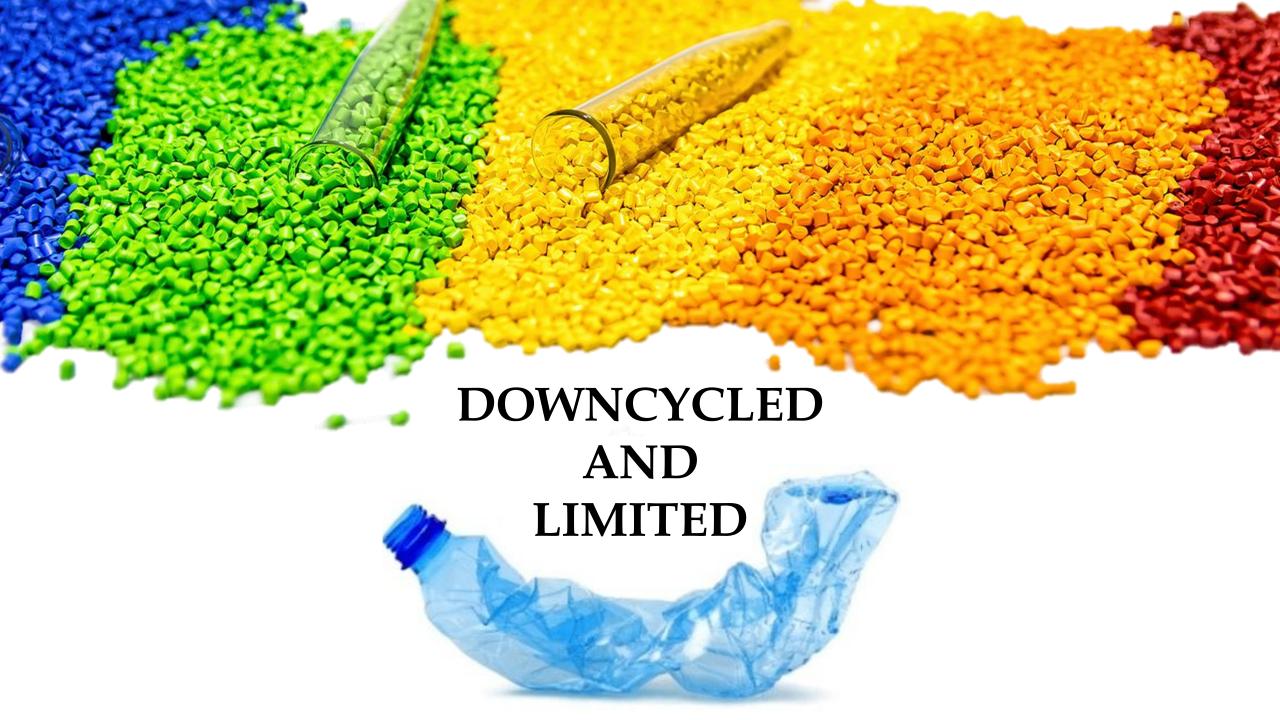
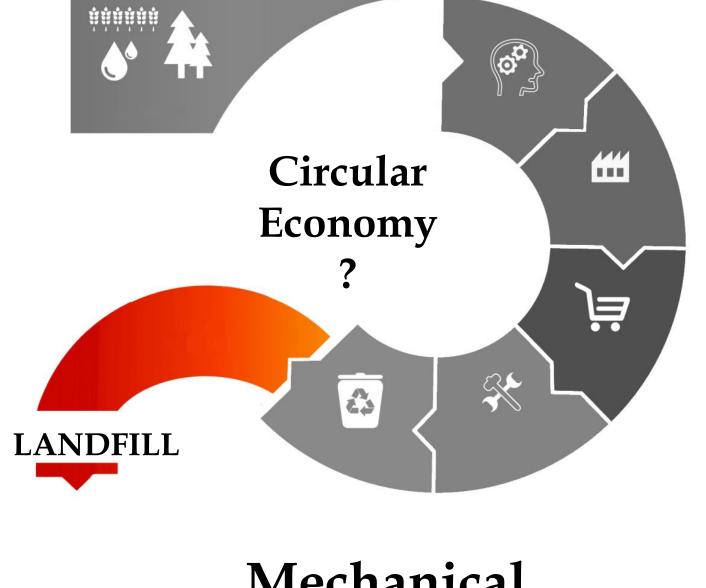
DYSTOPIA OF PLASTIC









Mechanical "Recycle"







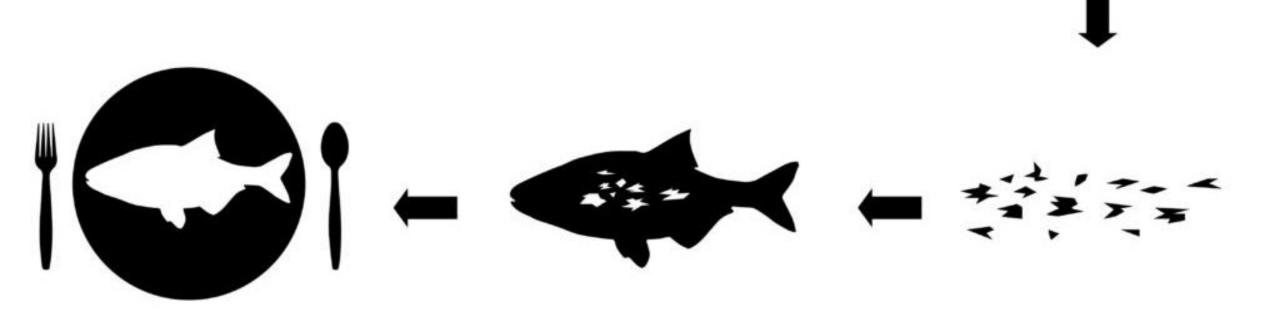


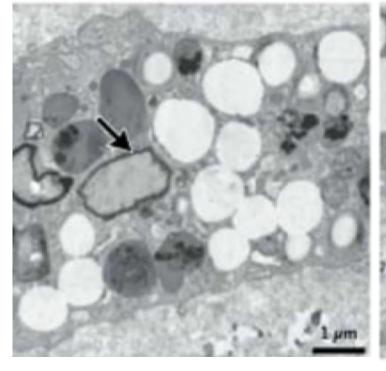


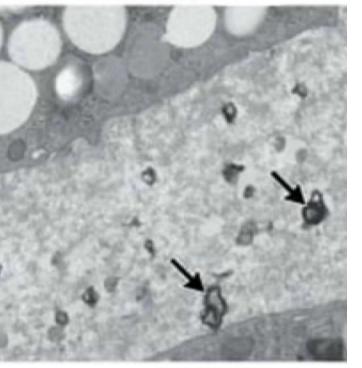








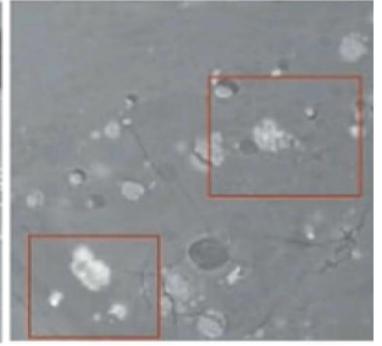




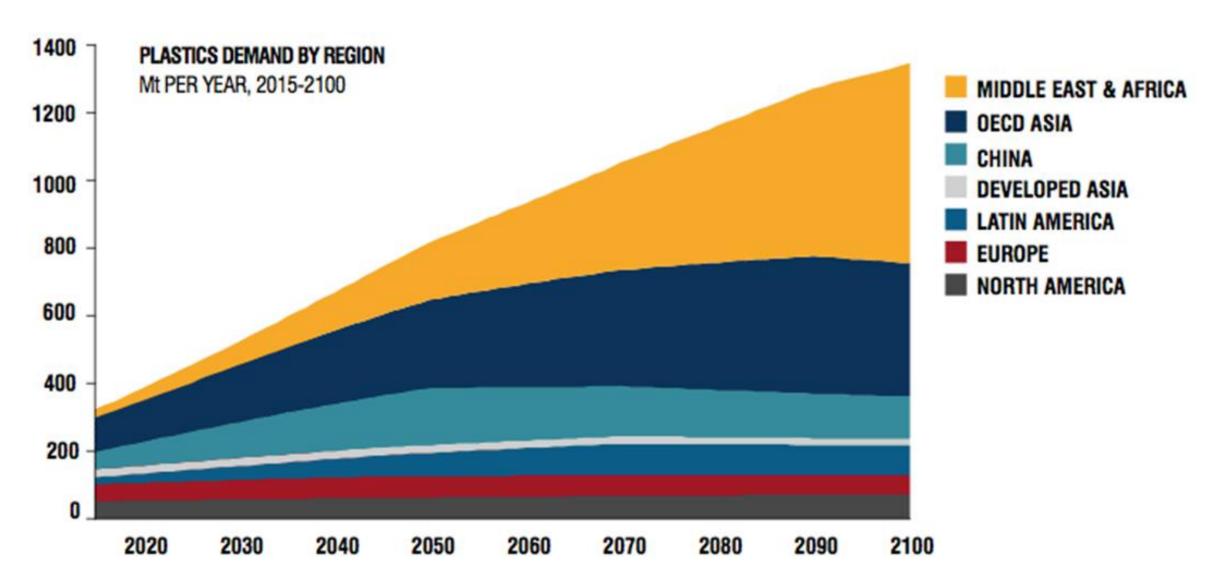
NEW ENGLAND JOURNAL OF MEDICINE

NANO PLASTIC INSIDE HUMAN TISSUES



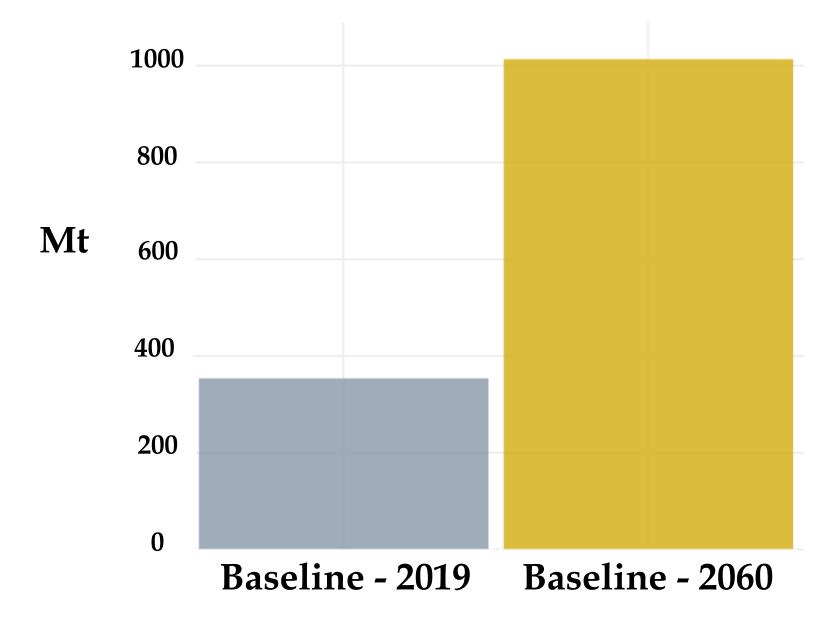


GLOBAL PLASTIC TREND

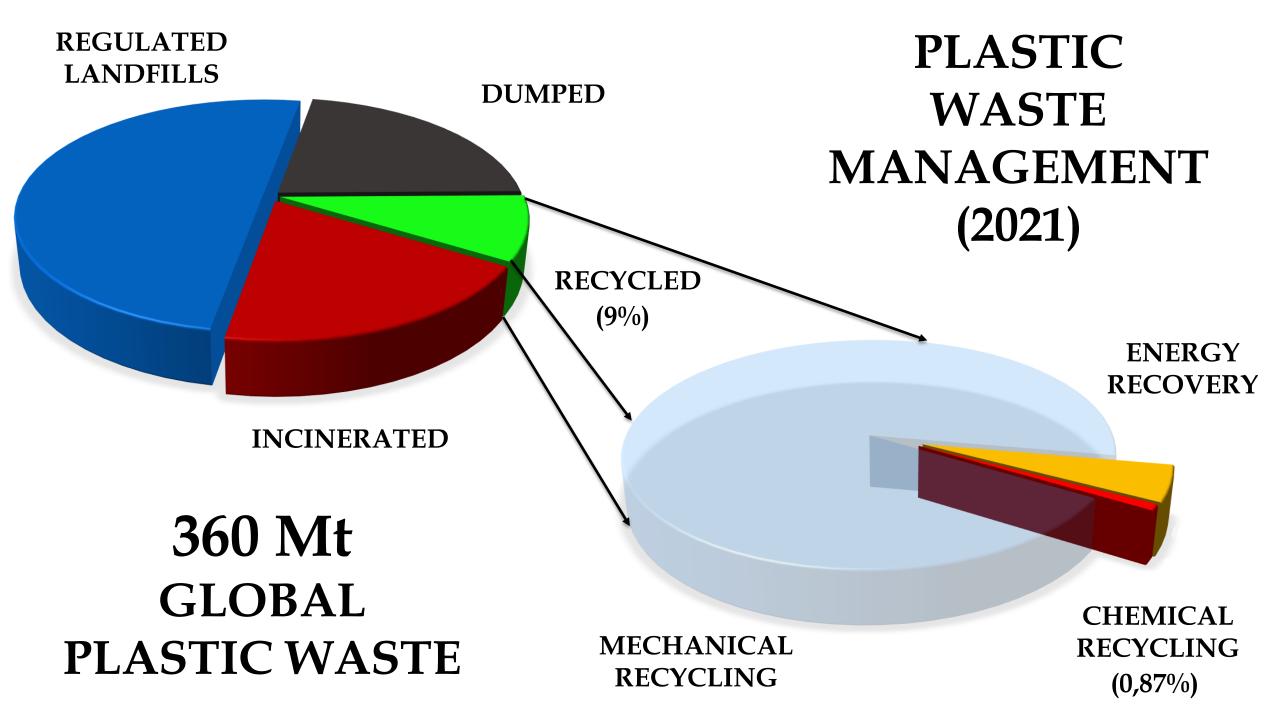


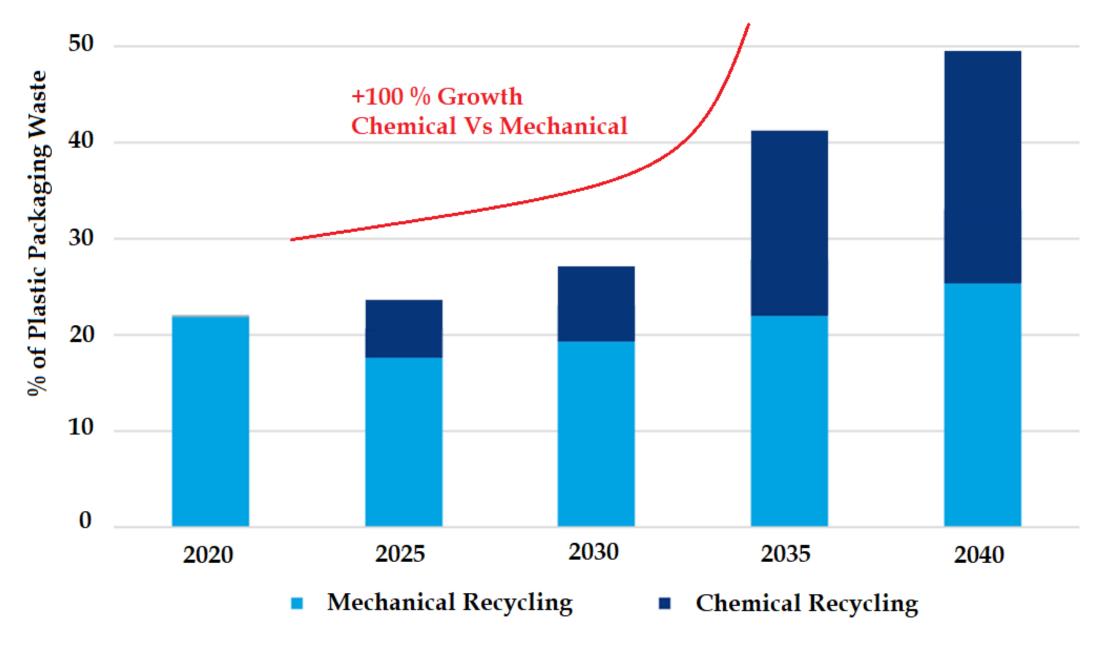
SOURCE MATERIAL ECONOMICS - THE CIRCULAR ECONOMY - A POWERFUL FORCE FOR CLIMATE MITIGATION (2018)

GLOBAL PLASTIC WASTE FORECAST



SOURCE OECD (2022), GLOBAL PLASTICS OUTLOOK: POLICY SCENARIOS TO 2060





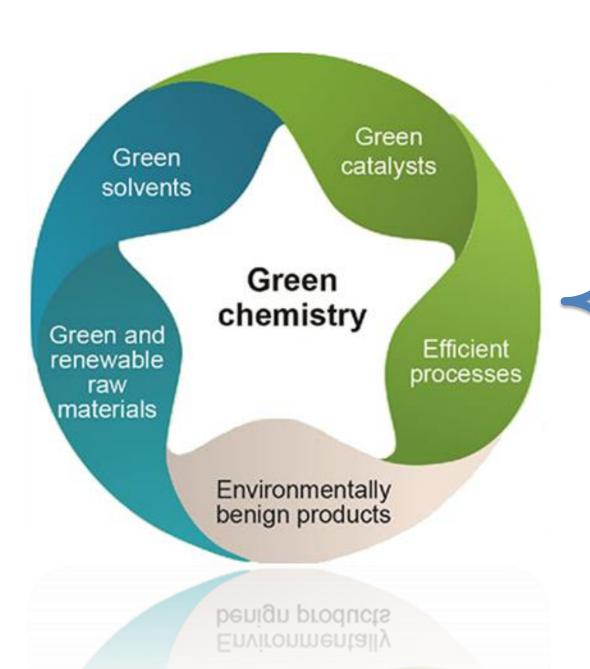
SOURCE DERIVED FROM WOOD MACKENZIE'S CROSS-POLYMER DEMAND MODEL

	LANDFILLS / INCINERATION	MECHANICAL RECYCLING	CHEMICAL RECYCLING
CAN HANDLE MIXED MATERIALS		×	
OFFERS SCALABLE RECYCLING	×	×	
CONTRIBUTES TO CURB DOWN THE OVERALL CO2 EMISSIONS	×		
FURTHER DEVELOPMENT POTENTIAL	×	*	



The Innovative
Catalyst
And
Process





ROOM TEMPERATURE

ROOM PRESSURE

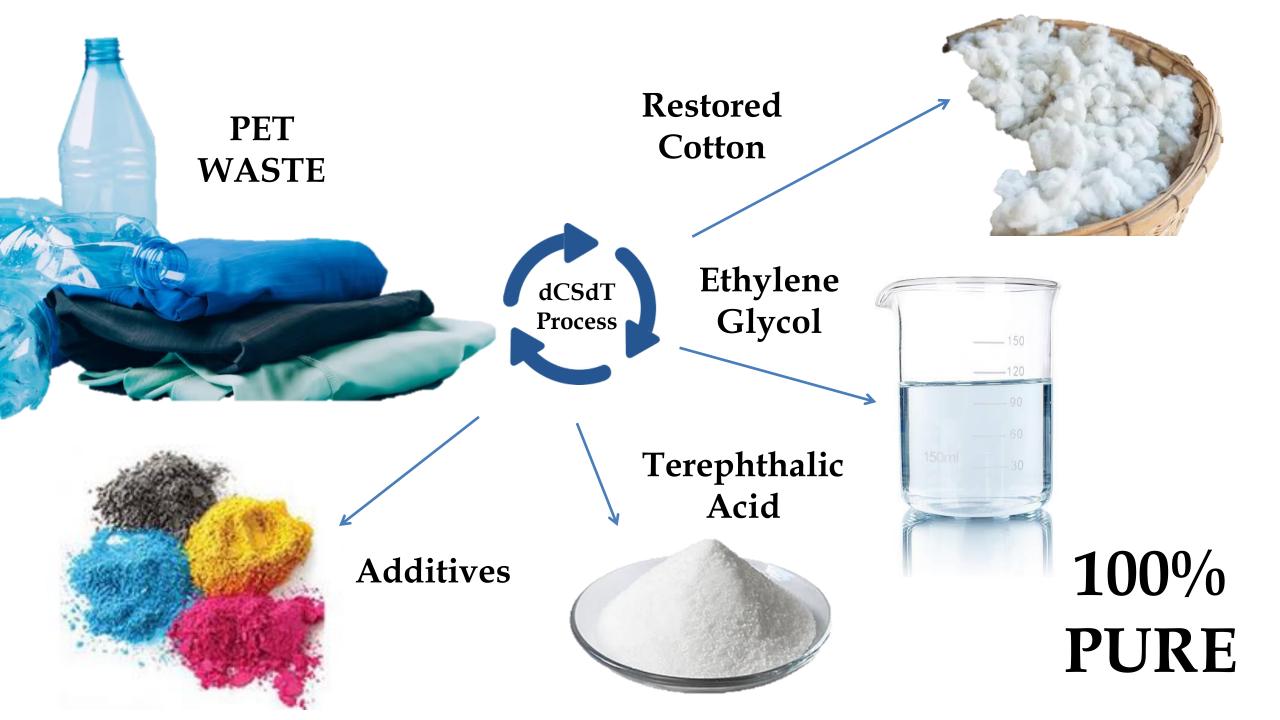
METAL FREE

BIODEGRADABLE

NO TOXIC

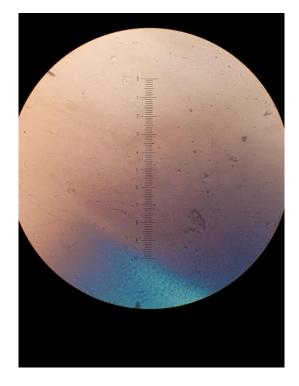
CHEAP

LOW ENERGY EXPENDITURE

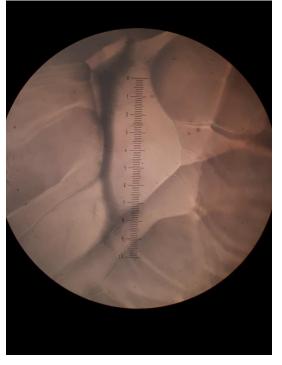


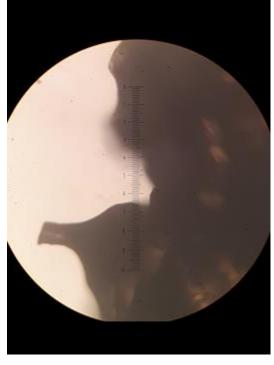
dCSdT ON PET PELLET

PRE APPLICATION dCSdT



POST APPLICATION dCSdT





SURFACE EDGE

SURFACE

EDGE

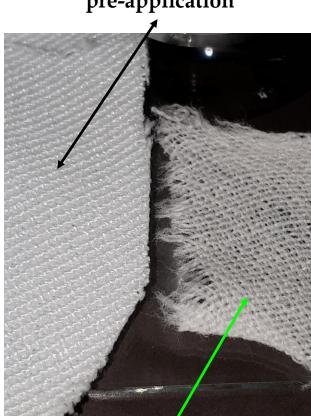
dCSdT ON TEXTILE FIBERS

Composite sample cotton + polyester fibres (PET) **pre-application**

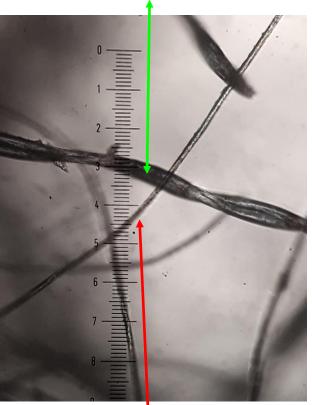
Cotton fibre **pre- application**, typical ribbon shape

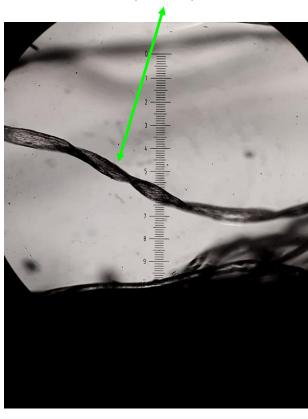
Cotton fibre during depolymerization process (intact)

Cotton fibre recovered **after** chemical **treatment** (**intact**)







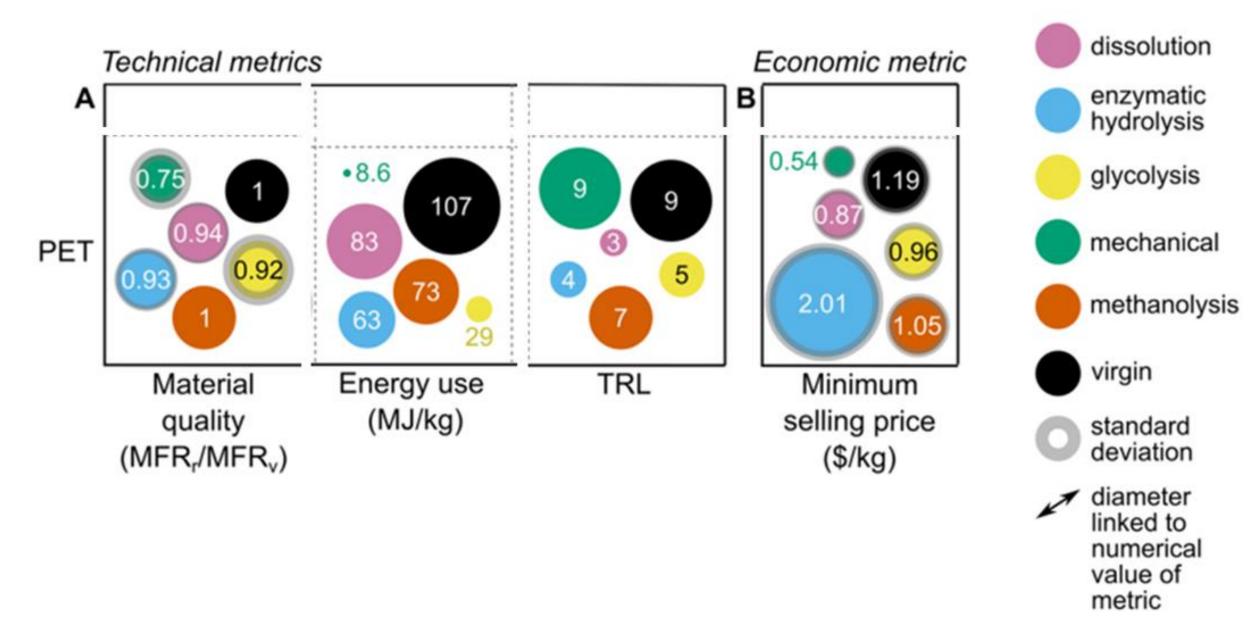


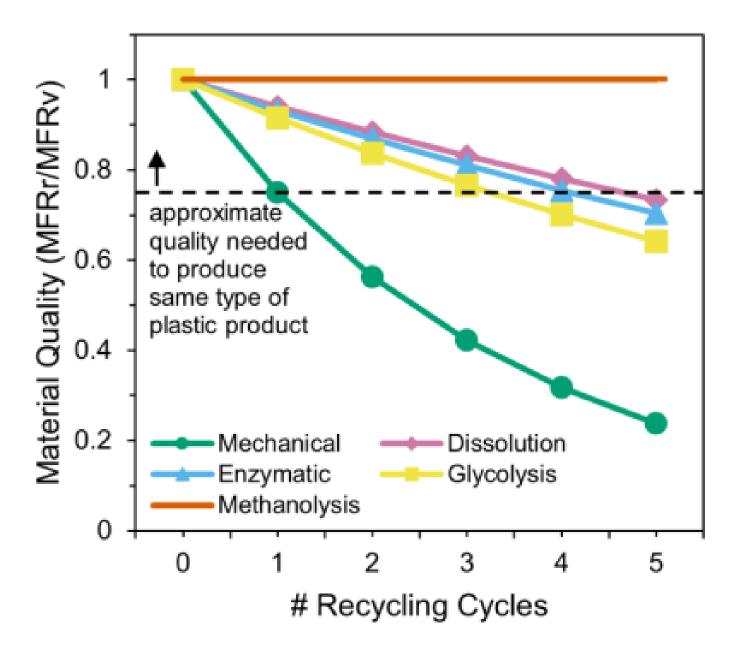
Composite sample cotton + polyester fibres (PET) **post-application**

Polyester fibre **preapplication**, typical tubular shape

Polyester fibre during depolymerization process (thinning)

All the polyester fibres are disappeared from the web of composite sample





SOURCE ACS SUSTAINABLE CHEM. ENG 2023, 11, 3, 965-978



Recycle of Polyethylenterephtalate with Enhanced Technology



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