UN PIANETA SOFFOCATO DALLA PLASTICA



LE RADICI DEL PROBLEMA: LA RIVOLUZIONE INDUSTRIALE

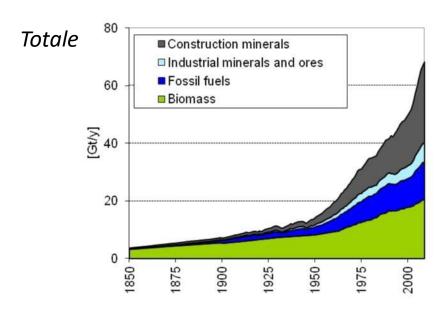
Crescita della popolazione e dell'economia (dal 1769: 250 anni)

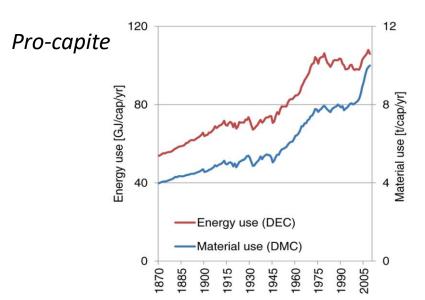
■ Popolazione mondiale: 9,2 volte

Economia globale: 134 volte

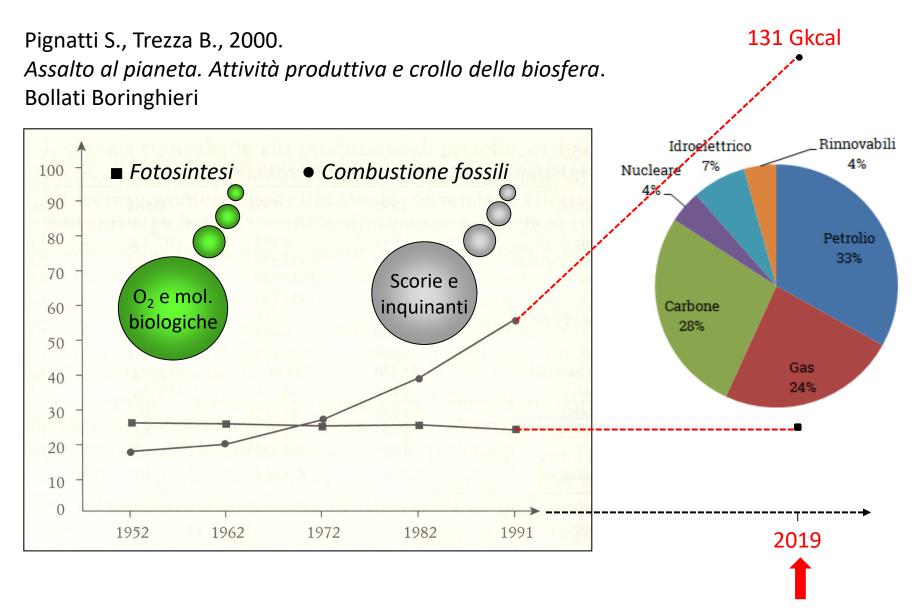
Reddito pro-capite: 14,6 volte

Crescita dei consumi di materia ed energia (170 anni)





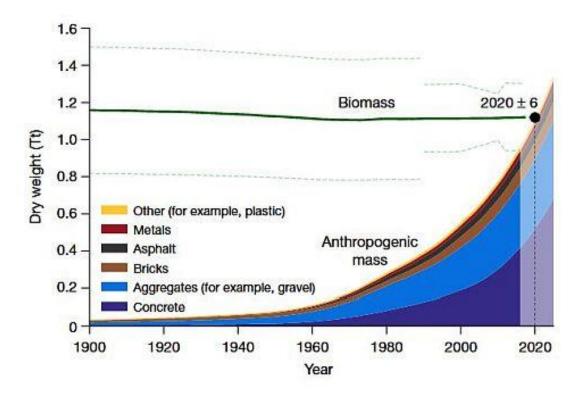
ANNO 1972



Energia tecnologica/Energia fotosintetica: 5,5

ANNO 2020

Elhacham E. et al., 2020 Global human-made mass exceeds all living biomass. Nature, 588, 442-444.

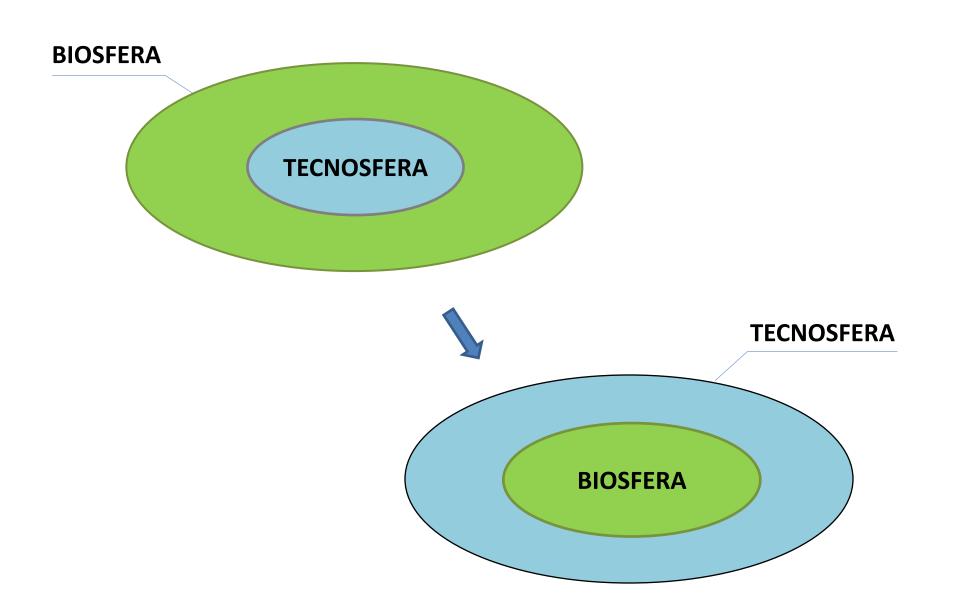


Nel 2020 la tecnosfera materiale (senza contare i rifiuti) ha superato la biomassa del pianeta in s.s. (1 teratonnellate = 1.000 miliardi di t).

Agli inizi del Novecento era solo il 3%.

Nell'ultimo secolo è raddoppiata ogni vent'anni, crescendo a un ritmo doppio della popolazione. Proseguendo così nel 2040 sarà il triplo della biomassa.

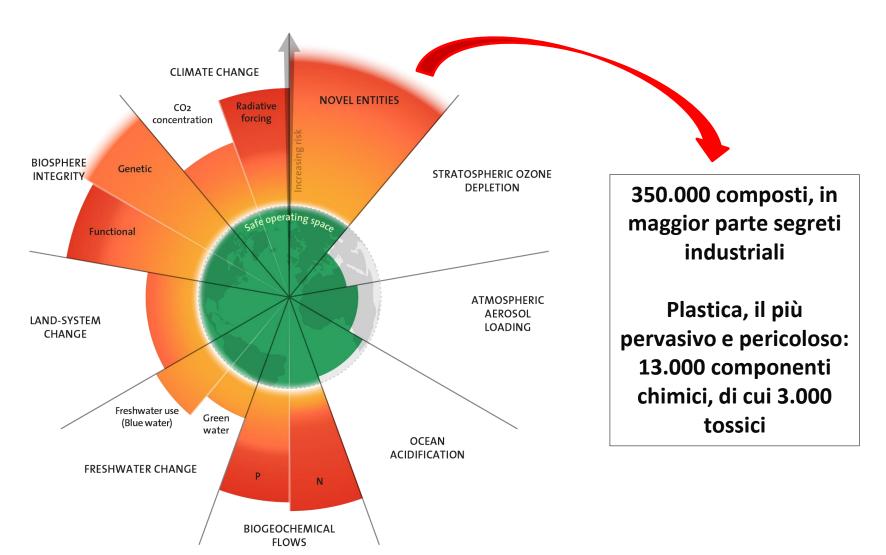
LA CRISI AMBIENTALE



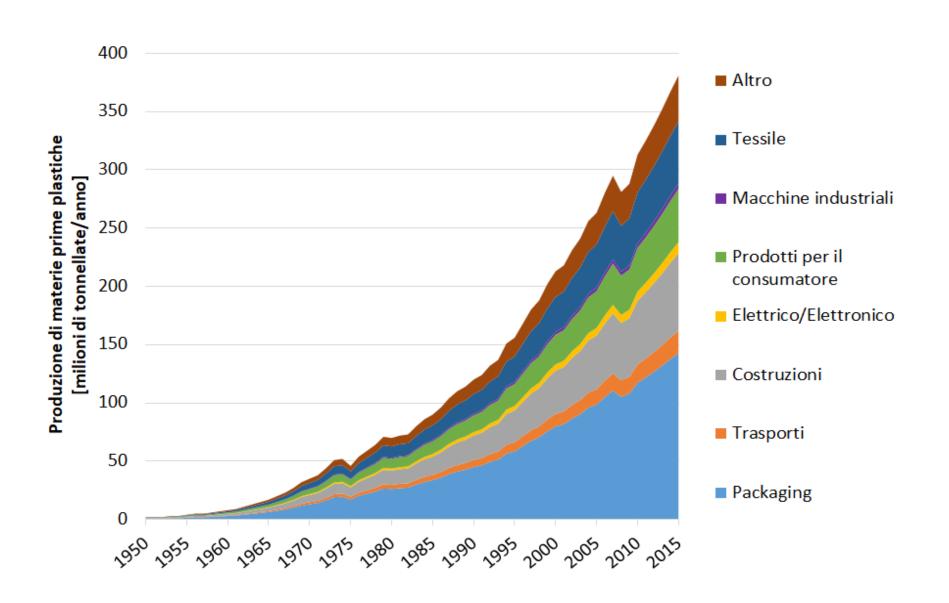
I LIMITI PLANETARI

Johan Rockström

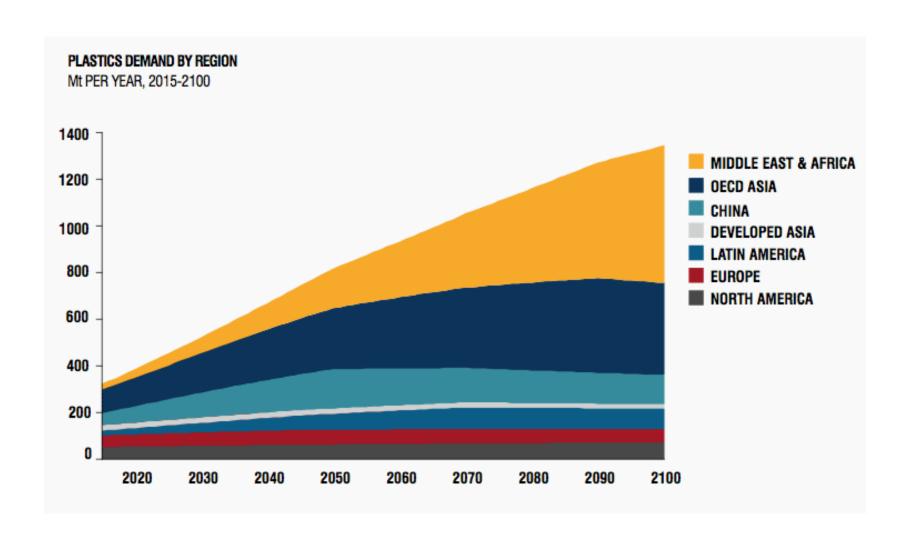
(Stockholm Resilience Center. Potsdam Institute for Climate Impact Research)



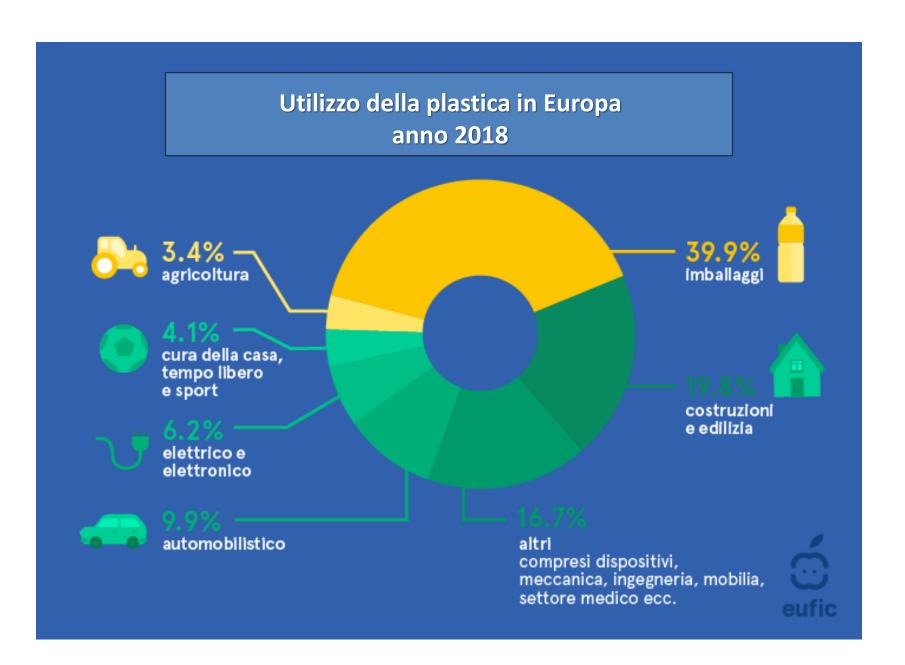
PRODUZIONE MONDIALE DI PLASTICA



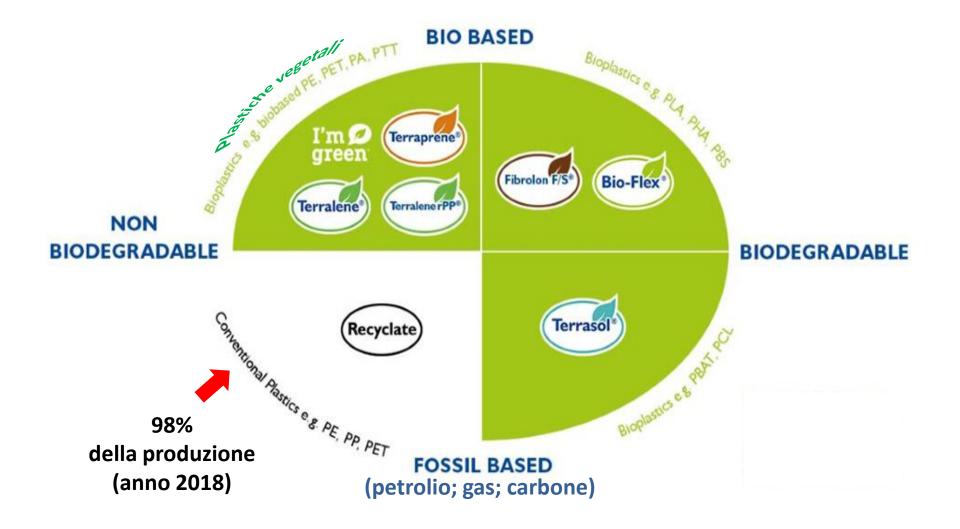
PREVISIONE FUTURA



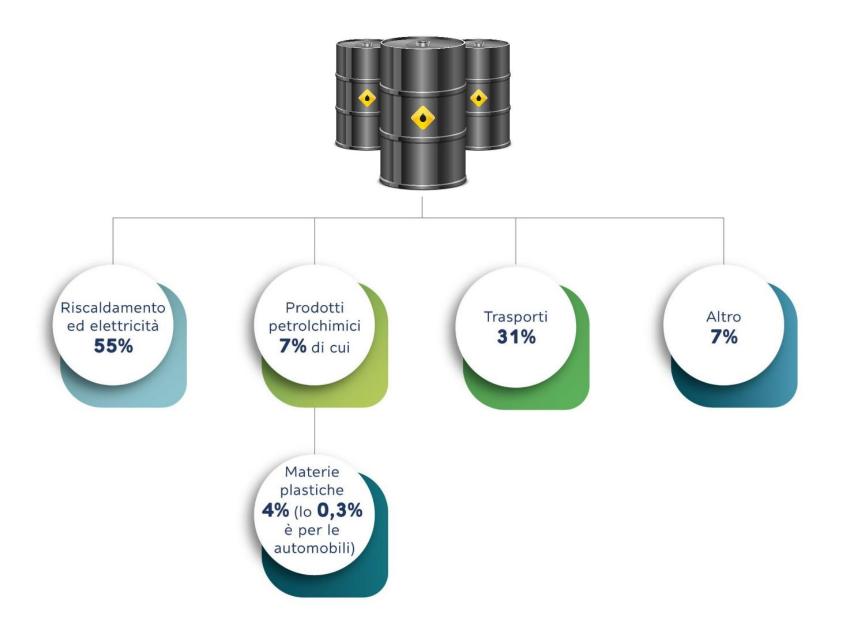
UN MATERIALE DAI MILLE USI



QUATTRO TIPI GENERALI DI PLASTICA



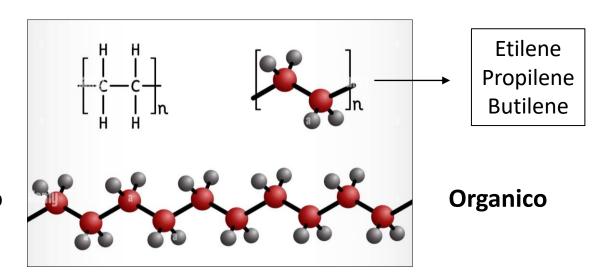
UN LEGAME INSCINDIBILE



CARATTERISTICHE CHIMICHE

Sintetica





Polimero

CODICI IDENTIFICATIVI PER IL RICICLO

PETE	L23 HDPE	233 PVC	LDPE	25 <u>></u>	<u></u>	OTHER
Polyethylene Terephthalate	High-Density Polyethylene	Polyvinyl Chloride	Low-Density Polyethylene	Polypropylene	Polystyrene	Other
Common products: soda & water bottles; cups, jars, trays, clamshells	Common products: milk jugs, detergent & shampoo bottles, flower pots, grocery bags	Common products: cleaning supply jugs, pool liners, twine, sheeting, automotive product bottles, sheeting	Common products: bread bags, paper towels & tissue overwrap, squeeze bottles, trash bags, six-pack rings	Common products: yogurt tubs, cups, juice bottles, straws, hangers, sand & shipping bags	Common products: to-go containers & flatware, hot cups, razors, CD cases, shipping cushion, cartons, trays	Common types & products: polycarbonate, nylon, ABS, acrylic PLA; bottles, safety glasses, CDs, headlight lenses
Recycled products: clothing, carpet, clamshells, soda & water bottles	Recycled products: detergent bottles, flower pots, crates, pipe, decking	Recycled products: pipe, wall siding, binders, carpet backing, flooring	Recycled products: trash bags, plastic lumber, furniture, shipping envelopes, compost bins	Recycled products: paint cans, speed bumps, auto parts, food containers, hangers, plant pots, razor handles	Recycled products: picture frames, crown molding, rulers, flower pots, hangers, toys, tape dispensers	Recycled products electronic housing auto parts,
				70		8

Solo 9% riciclata



IL RICICLO È SOLO UNA PARTE (SECONDARIA) DELLA SOLUZIONE



LA TERRA NON È LA NOSTRA MINIERA, NÉ LA NOSTRA DISCARICA

