

ON THE EDGE OF AN ERA: BIOPLASTICS

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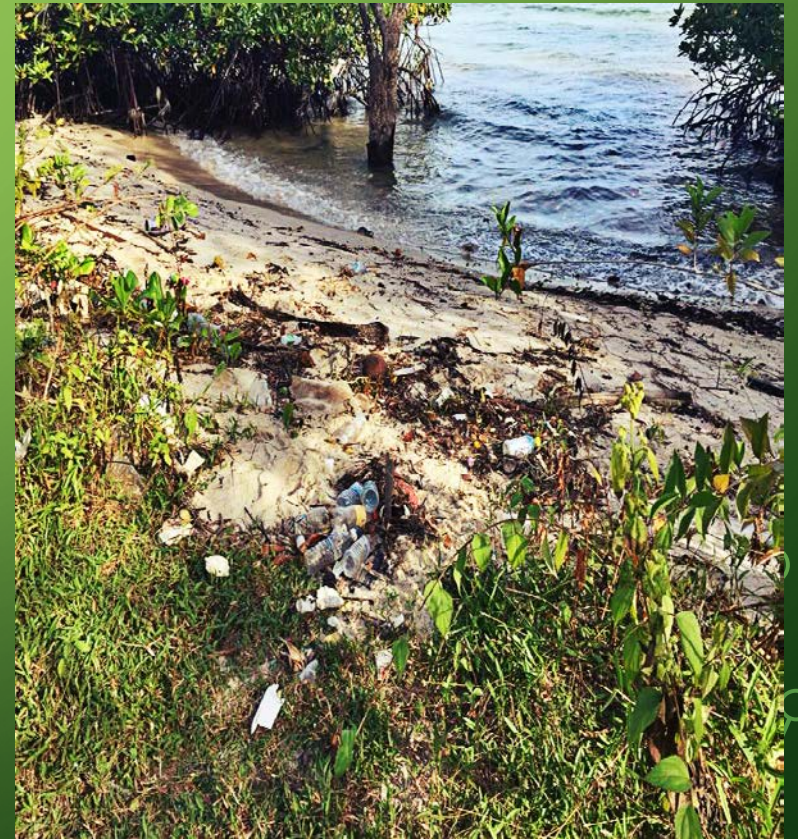
WHAT ARE WE FACING?

- ANTHROPOCENE- EPOCH OF SIGNIFICANT HUMAN IMPACT ON EARTH
- GROWING POPULATION, DEMAND
- INCREASING PLASTIC POLLUTION
- GLOBAL WARMING
- FOSSIL FUEL DEPENDENCY
- INFORMATION ASYMMETRY





HOW DID THE PARADISE TURN INTO THE HELL?

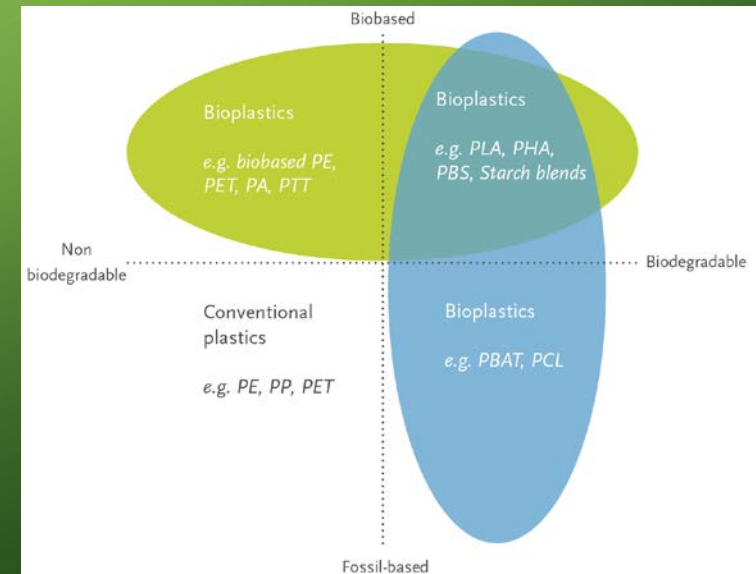






ON THE EDGE: PLASTIC & BIOPLASTIC MATERIALS

- PLASTICS BENEFITED SOCIETY, CRUCIAL FOR MODERN SOCIETY
- CONVENTIONAL PLASTICS MADE OF NONRENEWABLE FOSSIL SOURCES
- BIOPLASTICS: ALTERNATIVE, MADE OF RENEWABLE SOURCES- BIOMASS
- BIOBASED, BIODEGRADABLE OR BOTH
- SOME BIOPLASTIC ALSO COMPOSTABLE
- PACKAGING, MEDICAL APPLICATIONS, MULCH FILMS, AUTOMOTIVE INTERIORS, TOYS...
- DEVELOPMENT: ELECTROACTIVE BIOPLASTICS



ECONOMICS, ENVIRONMENT, ETHICS & BIOPLASTICS

- COST, PERFORMANCE AND RECYCLING REMAIN PROBLEMATIC
- USAGE FAVOURABLE IF SUPPORTED BY REGULATIONS (ITALY)
- COMPETITION: FOOD X FEED X ENERGY X MATERIAL
- POTENTIAL DEVELOPMENT OF BIOTECHNOLOGIES: USE OF ALGAE, CO₂
- INCREASED LAND DEMAND & COMPETITION: MARGINAL, ABANDONED
- NOT UNIVERSAL BIODEGRADABILITY EVEN IF CLAIMED
- STILL LITTLE KNOWN ABOUT THE IMPACT ON MICROORGANISMS



(BIO)PLASTICS USE: A TASK FOR CONSUMERS

- GREEN PURCHASING
- DO CONSUMERS RECOGNIZE WASTE OF CONVENTIONAL x BIOPLASTICS?
- CONSUMERS BEHAVIOR: LABELED AS BIODEGRADABLE ENDS UP IN NATURE
- EDUCATION NEEDED NOT ONLY IN CASE OF BIOPLASTICS
- RETHINKING PACKAGING: WHAT IS REALLY NEEDED?
- PAY-BACK SCHEMES, DEPOSIT RETURNS
- NEW TREND: ZERO WASTE LIFESTYLE
- PLASTIC ATTACK:



<https://www.facebook.com/bbcradiobristol/videos/1720447941345638/UzpfSTE2OTU2ODI0MjQwNTMwNjY6MjA0MzY1NDQ1NTkyMjUyNg/?query=PLASTIC%20ATTACK>

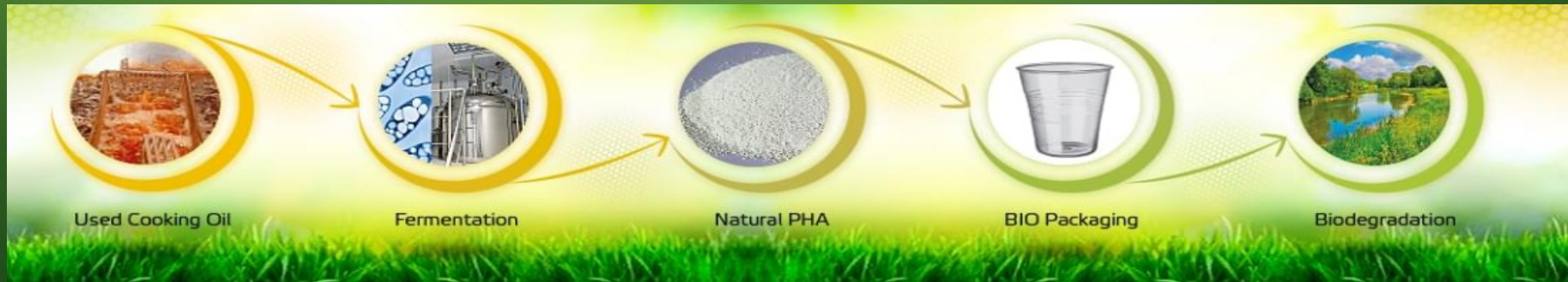


Tom Harvey je v 📍 Brighton and Hove Seafront.
12. prosinec 2017 · Instagram

New rule: Any, and every, time you visit a beach between now and the day you die you must pick up at least 3 pieces of plastic. See it as just a thing you have to do if you want to enjoy the beach and the sea. No-one else is going to do it, so all of us have to. It's not even that much of an effort. Yaz and I have been doing this with every beach we visit, even if only for 5mins, and just see it as a beach 'tax' that helps us enjoy the beach even more knowing that we did a bit of good. We won't allow ourselves to leave without our 3 pieces of plastic. I THINK this is baby Leopard Shark on the beach in Brighton, England, and just one unfortunate example of millions.

BIOPLASTICS IN THE CZECH REPUBLIC

- FRUSACK - COMPOSTABLE PLA FROM CORN STARCH
 - DEDICATED AS ALTERNATIVE FOR MICROTENE
 - LAUNCHED THROUGH CROWDFUNDING
- HYDAL CORPORATION- USED COOKING OIL TO PHB, JOINT VENTURE
 - NAFIGATE CORP. (CZ) + PANARA (SK)
 - 2018- LAUNCH LARGE-SCALE PRODUCTION



A decorative background featuring a light green gradient with a white circuit board pattern of lines and nodes. The pattern is most prominent in the corners and along the sides, framing the central text.

**THANK YOU FOR YOUR
ATTENTION!!!**