



## Marine-Friendly Bioplastics: the Glaukos Assessment Scheme

### PROBLEM:

- Conventional plastics accumulate in the environment because they are not biodegradable causing **aesthetical nuisance**
- Marine fauna get **entangled** in plastics and accidentally **ingest** them, blocking the digestive tract
- Degradation of plastics must not release **toxic chemicals** or persistent **micro or nanoplastics**

### SOLUTION:

- Produce polymers that biodegrade in environmental compartments: **potentially biodegradable plastics**
- Produce plastic materials that **mechanically degrade** in the environment, and thus do not trap or block fauna
- Use functional **additives** and degradable materials identified as innocuous in a prior **Ecotoxicological Risk Assessment**

