

The World Environment Situation Room

A focus on Monitoring Marine Litter



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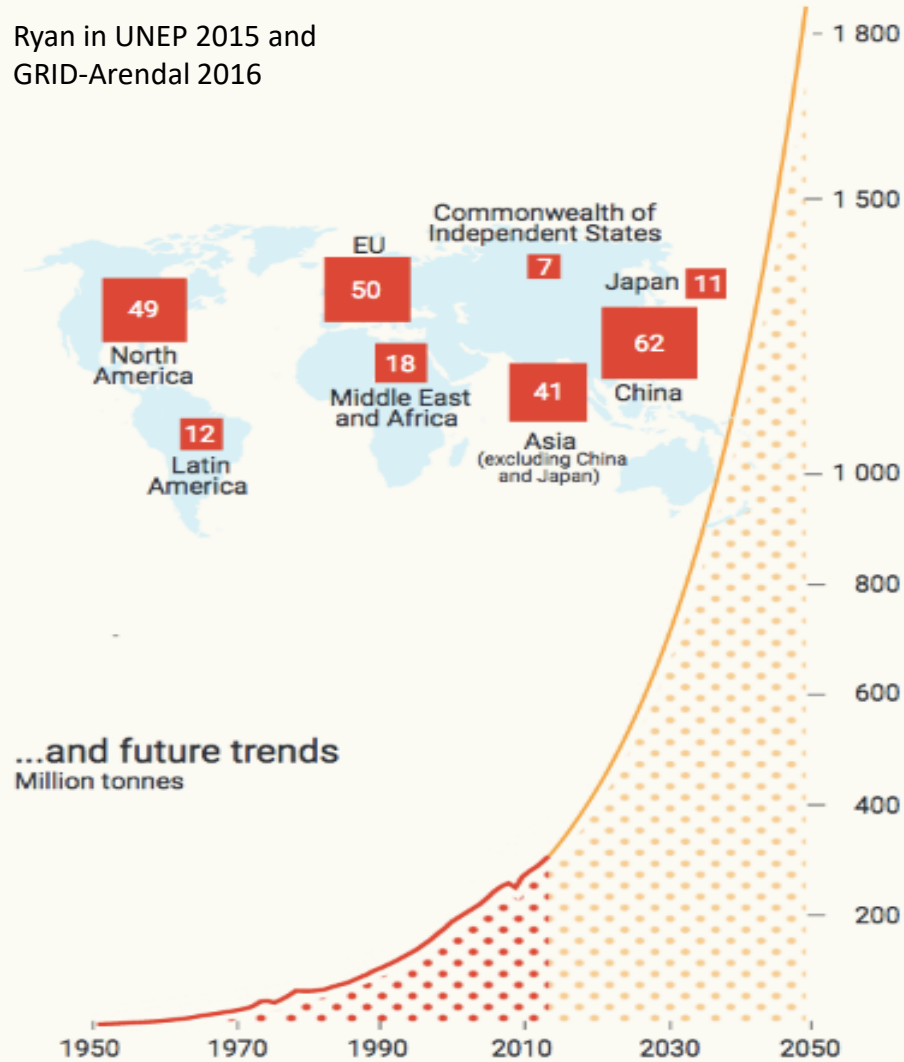
Monitoring Platform / Global Knowledge Hub
UNEA-4, Nairobi 12 March 2019



Global plastic production...

Million tonnes, 2013

Ryan in UNEP 2015 and
GRID-Arendal 2016



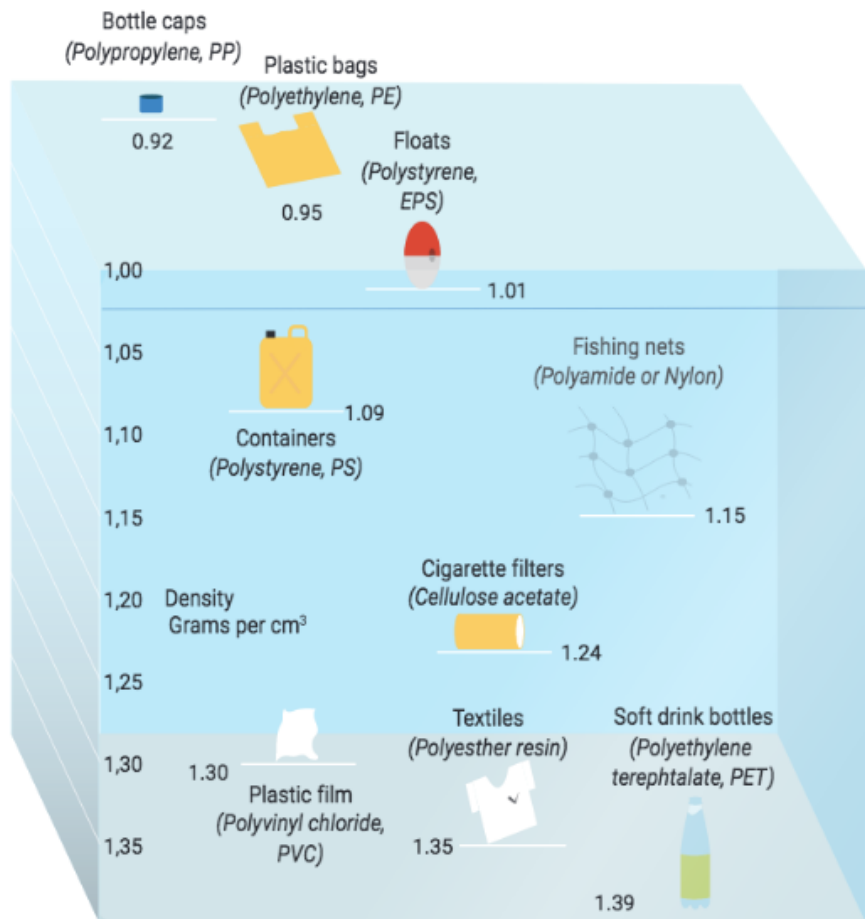








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Source: UNEP and GRID-Arendal 2016















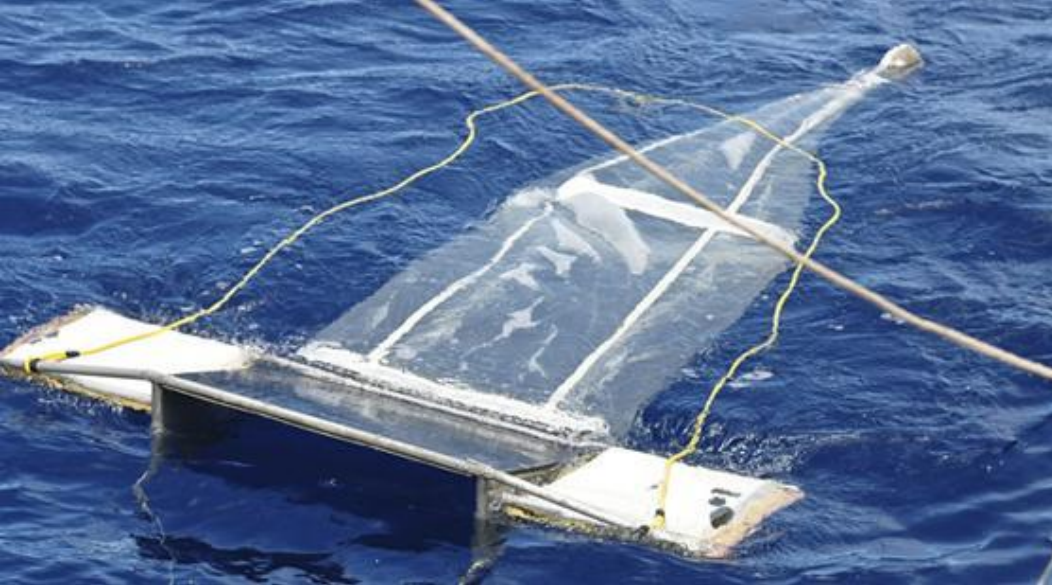


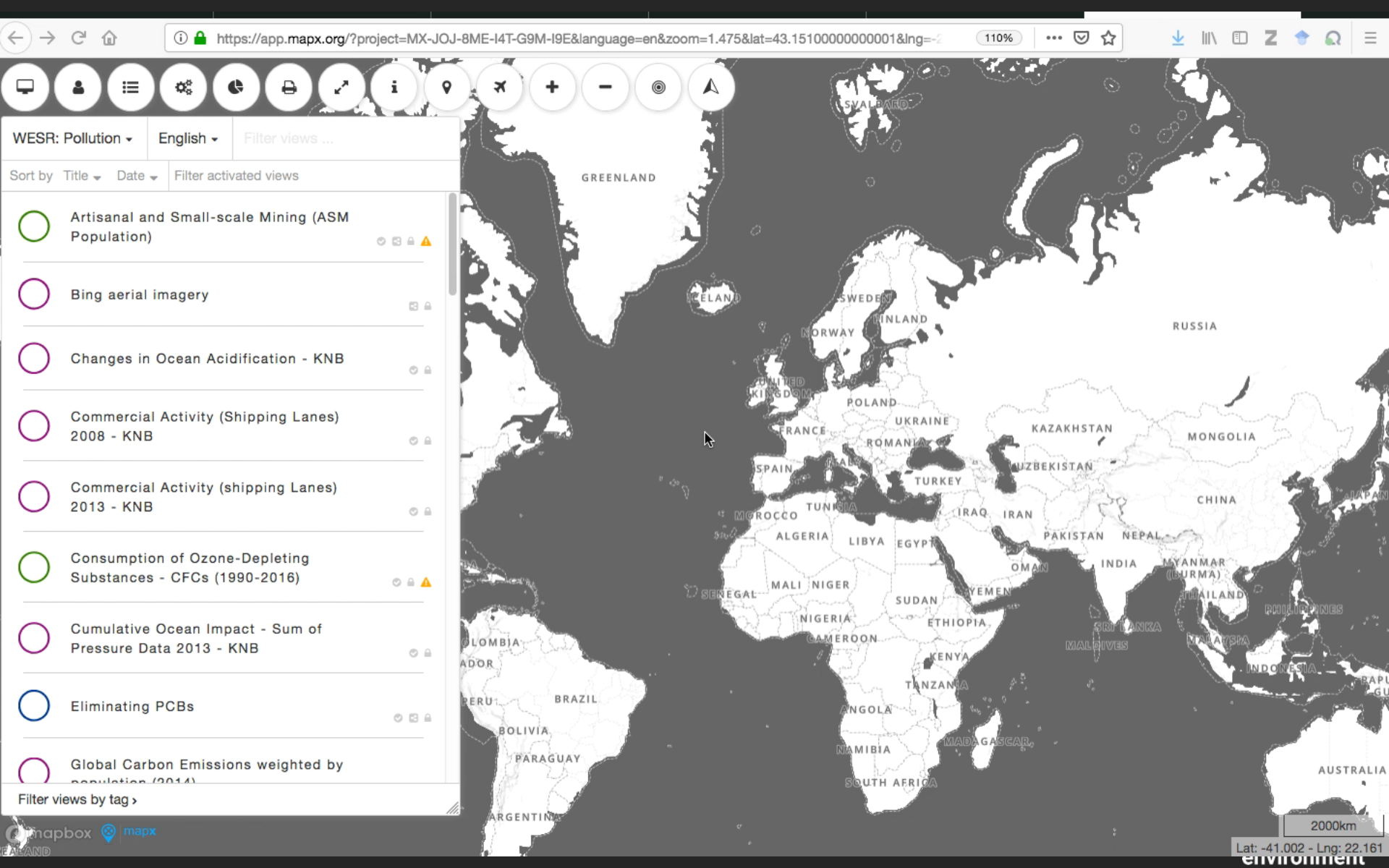
Monitoring plastics can be done in 4 ways

- Beach measurements (e.g. citizen science)
- Marine sampling (boats + lab)
- Statistics on production, consumption and wastes
- Modeling
- (ESA is researching at how orbital sensors can monitor plastics... on-going research)

Beach measurements (Citizen science)



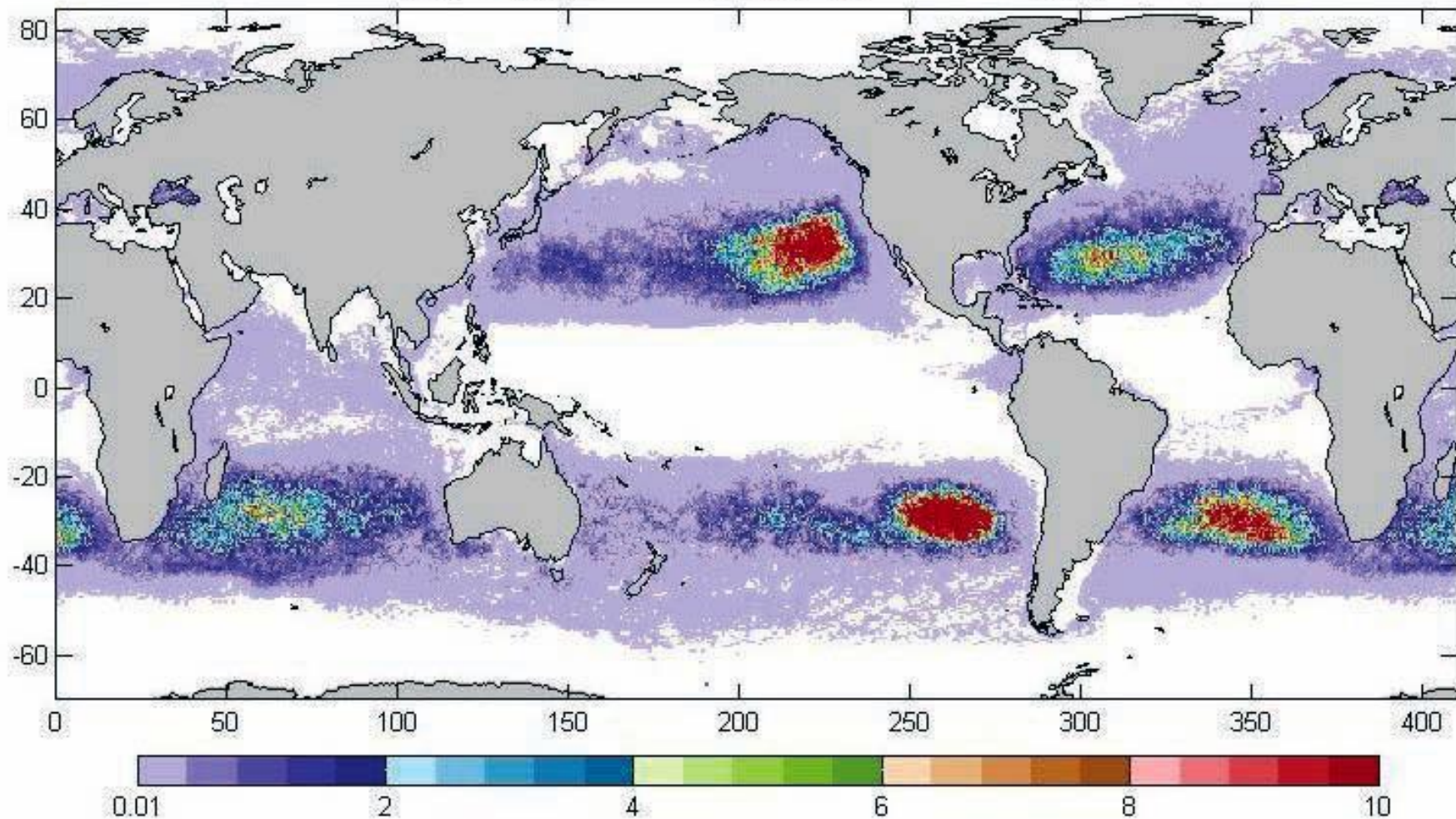




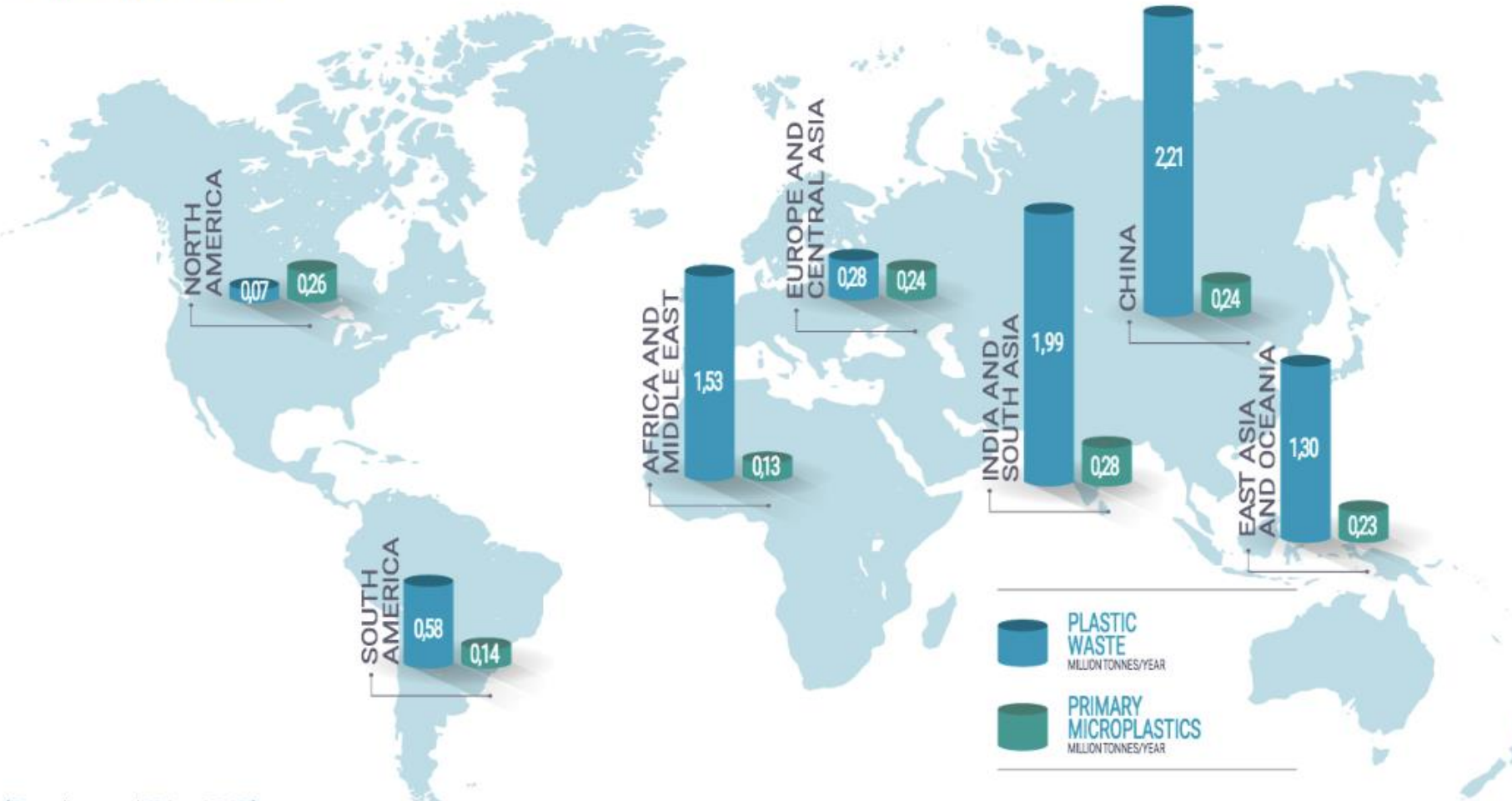
Day # 3650

Year # 10

70%



Global releases of plastics into the worlds oceans: A comparison of microplastics with plastics originating from mismanaged wastes



(Boucher and Friot 2017)

→ Remote sensing for
Marine Litter



Coastal Communities



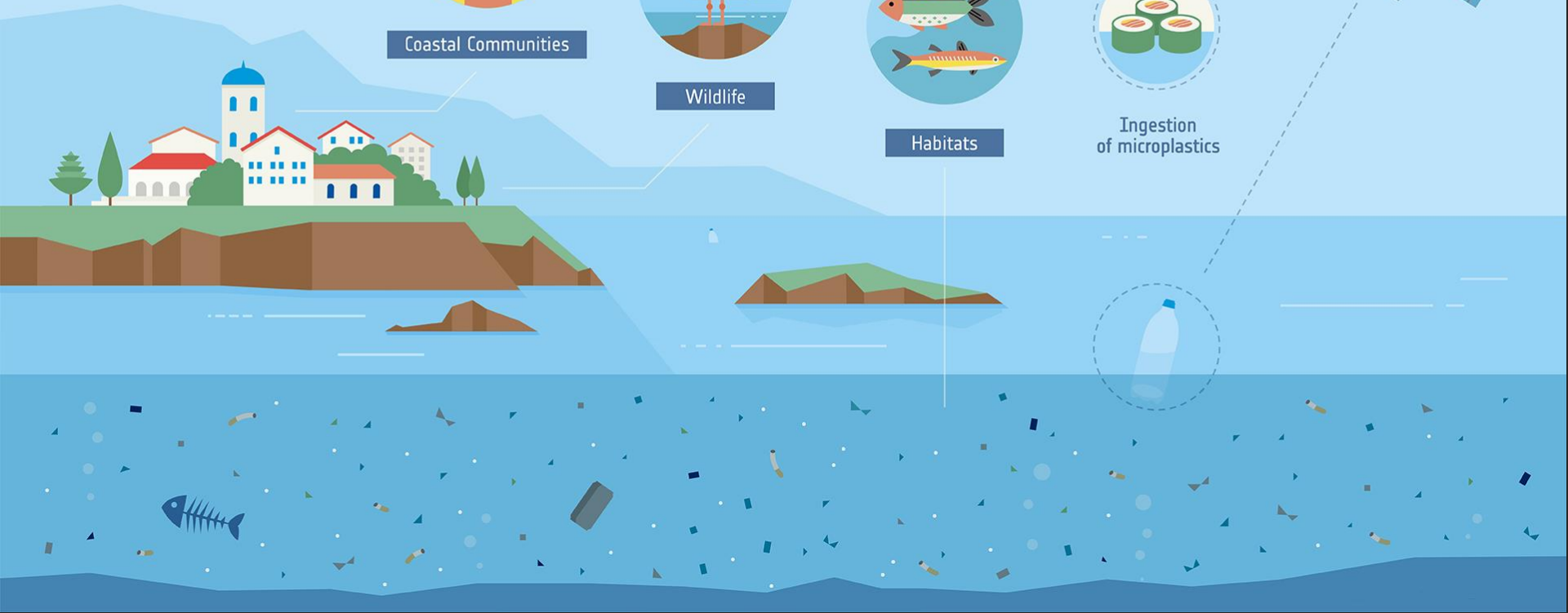
Wildlife



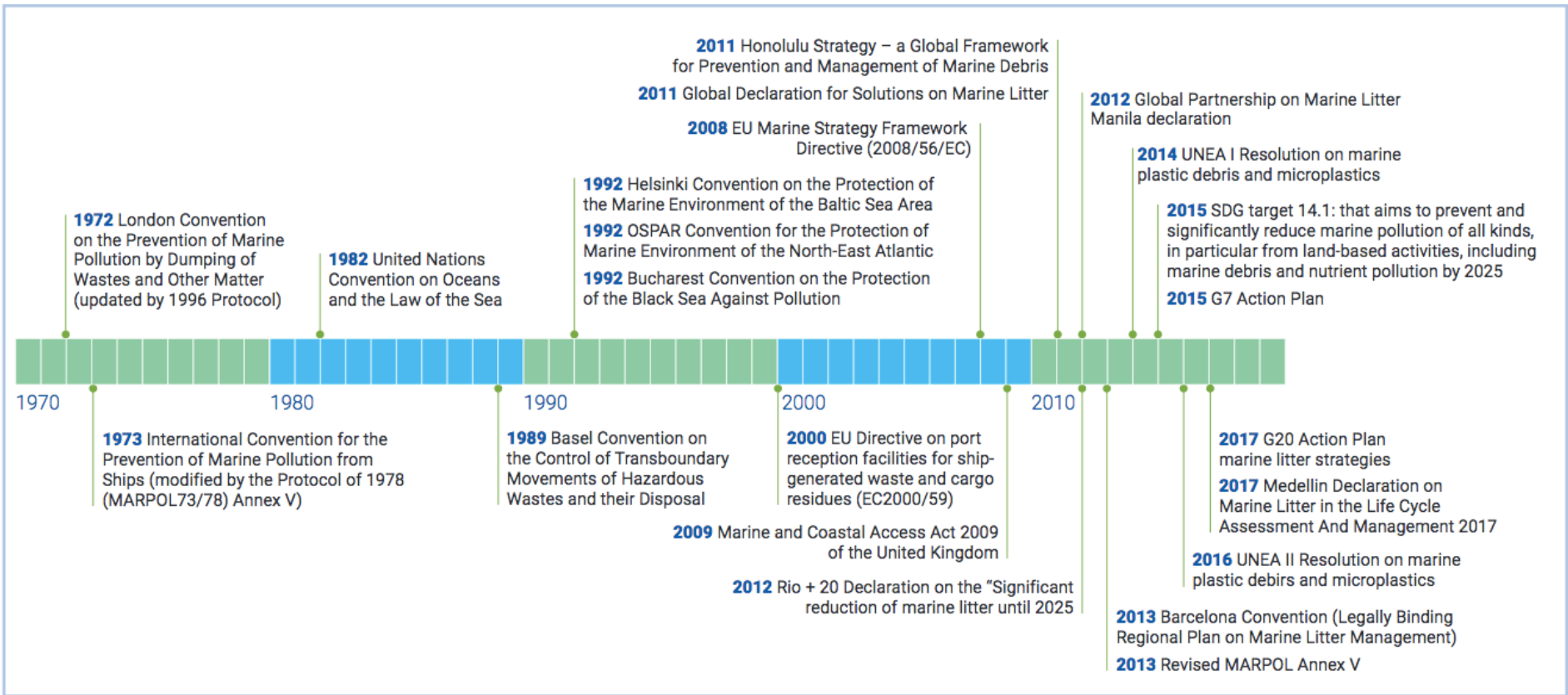
Habitats



Ingestion
of microplastics



Some international agreements, goals and strategies addressing marine litter



Source: GRID-Arendal 2016

