

# Challenges and pressures due to microplastics in the Danube watershed

**Gábor Bordós**

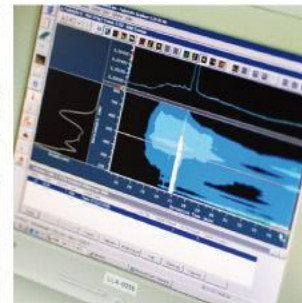
Projekt manager

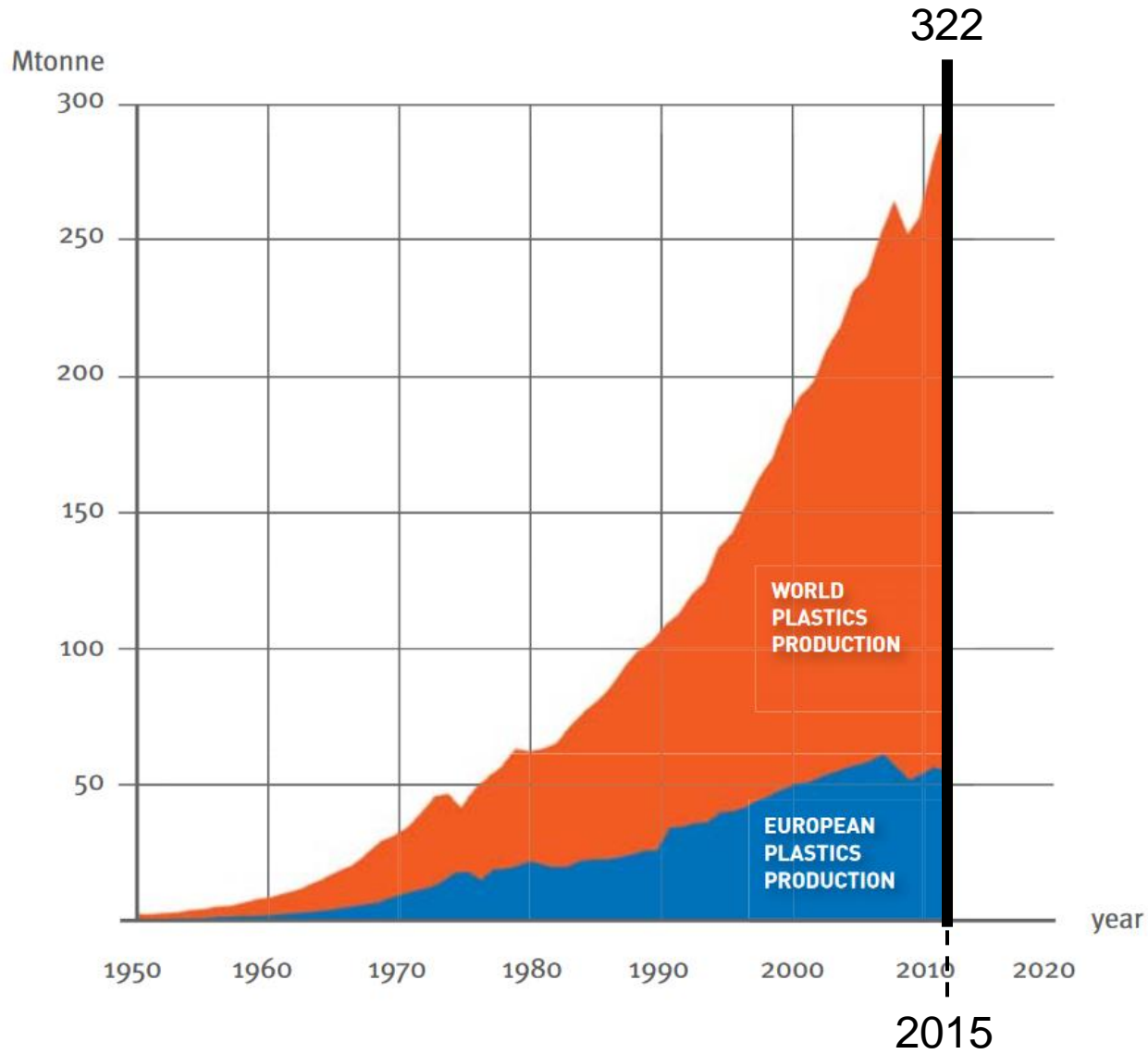
ANALYSIS

CONSULTANCY

PLANNING

SINCE 1983









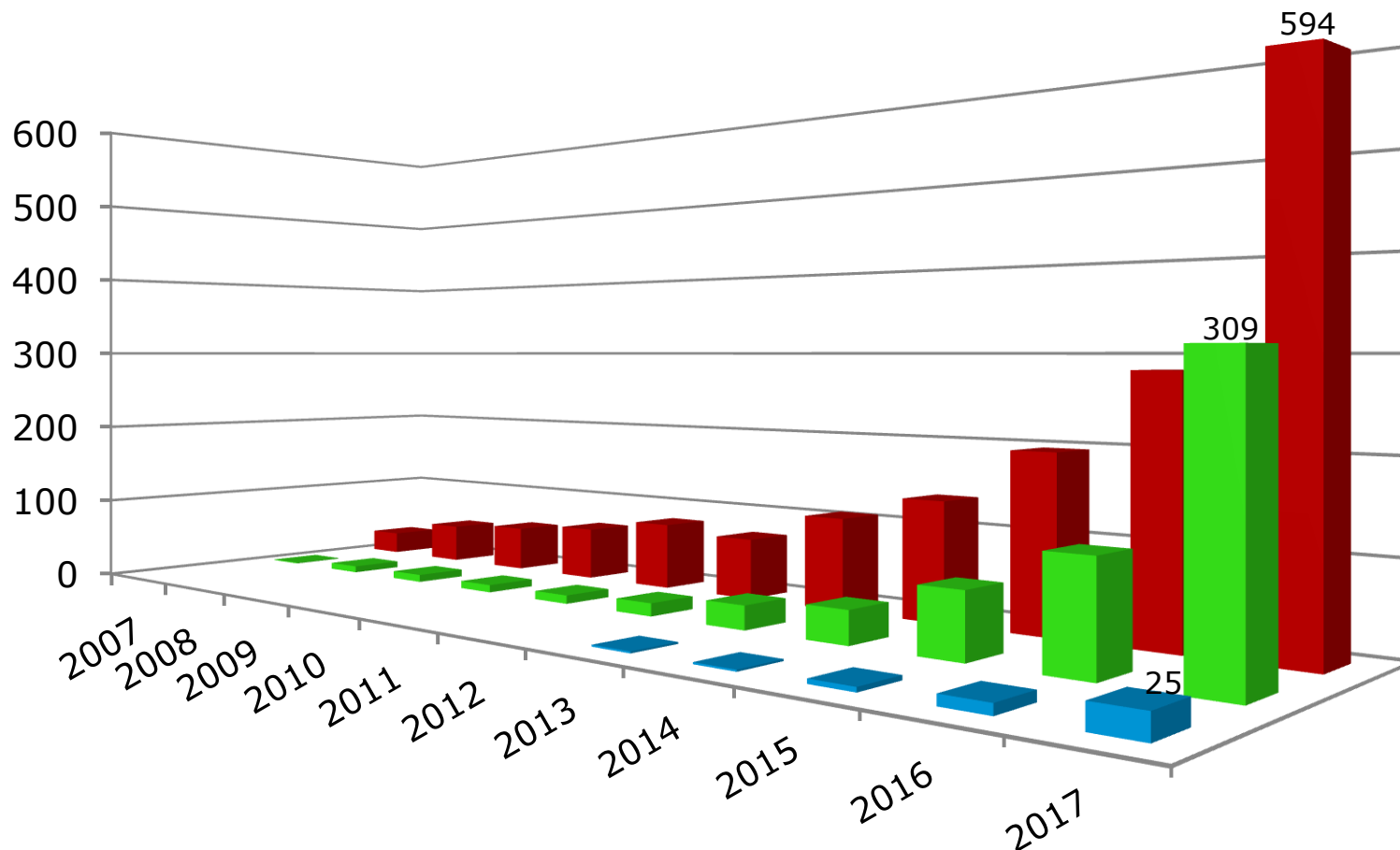
# About MPs in a nutshell



■ Microplastic AND freshwater  
- title, abstract, keyword

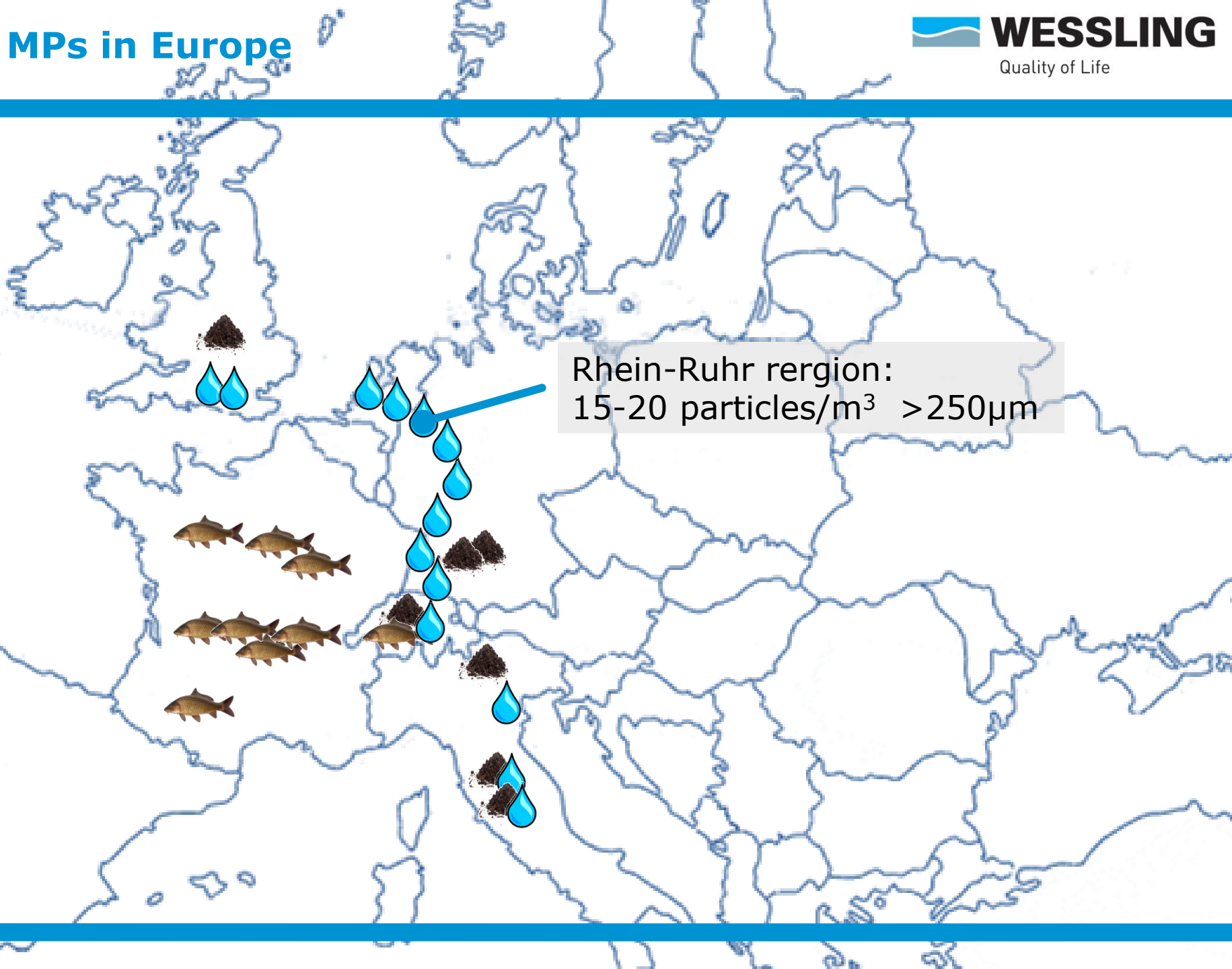
■ Microplastic  
- title, abstract, keyword

■ Microplastic  
- all files









0.3 particles/m<sup>3</sup> >500 μm

Environmental Pollution 188 (2014) 177–181

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**Environmental Pollution**

journal homepage: [www.elsevier.com/locate/envpol](http://www.elsevier.com/locate/envpol)

ELSEVIER

Short communication

The Danube so colourful: A potpourri of plastic litter outnumbers fish larvae in Europe's second largest river

Aaron Lechner<sup>a,\*</sup>, Hubert Keckeis<sup>a</sup>, Franz Lumesberger-Loisl<sup>a</sup>, Bernhard Zens<sup>a</sup>, Reinhard Krusch<sup>a</sup>, Michael Tritthart<sup>b</sup>, Martin Glas<sup>b</sup>, Elisabeth Schludermann<sup>a</sup>





ENVIRONMENT AGENCY AUSTRIA **umweltbundesamt**<sup>U</sup>

## PLASTIC AND MICROPLASTIC IN THE ENVIRONMENT

P. Hohenblum, B. Liebmann, M. Liedermann

REP-0551  
Vienna, 2015

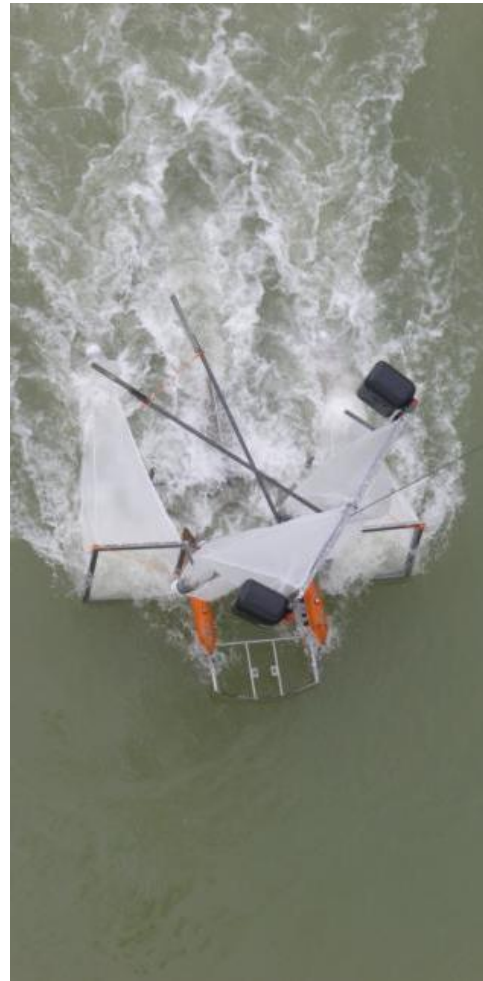
6-66 kg/day >250μm



# MPs in the Danube Region









4.9 particles/m<sup>3</sup> > 300 μm

62.5 particles/m<sup>3</sup> > 15 μm

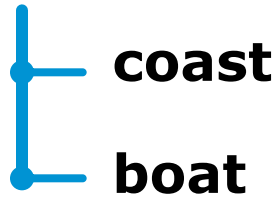
PP;PTFE;PE

1.76 particles/kg

PTFE; PS



- **Operation on universal platforms**



- **Enables sampling in different depth**

- **Fast & cost effective**

- **Easily transportable**

- **High sampling reproducibility**

- **High resolution (catches smaller particles)**

- **Good basis for standardisation**



# Effects...???



# Thank you for the attention.

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