

STRATEGIC MATERIALS FOR A LOW-CARBON FUTURE: FROM SCARCITY TO AVAILABILITY

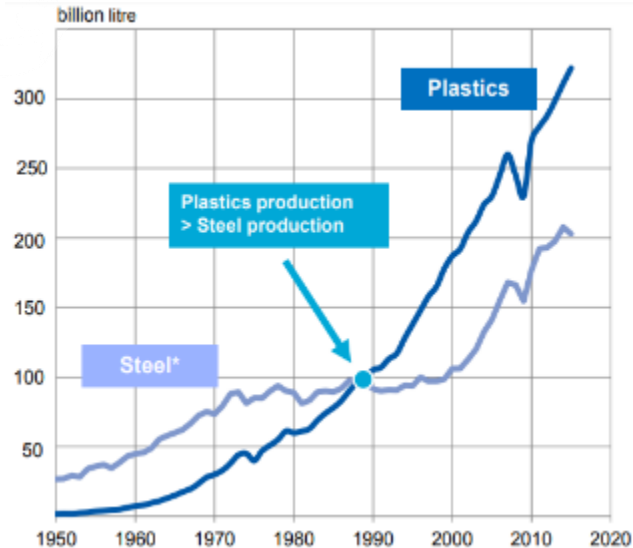
2-3 November 2017
Oxford, UK

Veolia approach to take up the challenge on plastics

Pascal PESLERBE

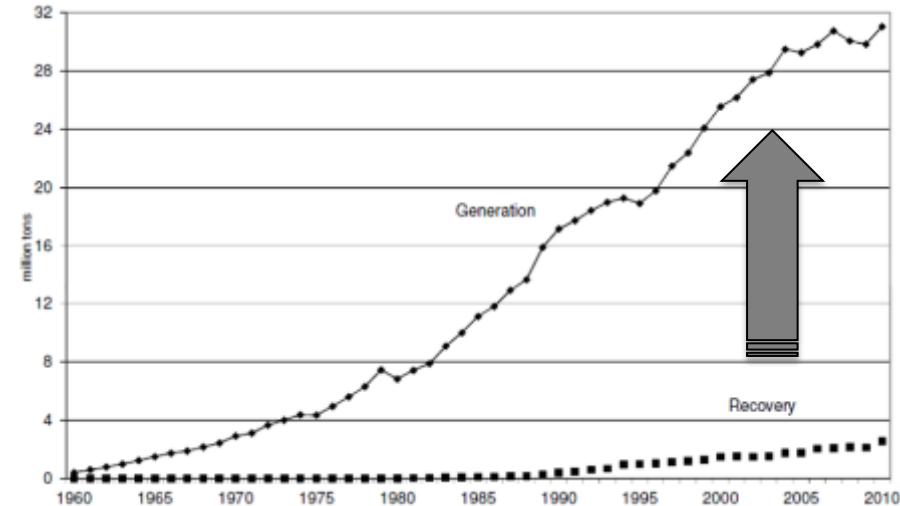
CONTEXT

Explosion of plastic demand



Source: Plastic Europe, Berlin,
August 2016

Need to develop plastic recycling



Plastic generation & recovery
Source : EPA, 2010

CHALLENGES



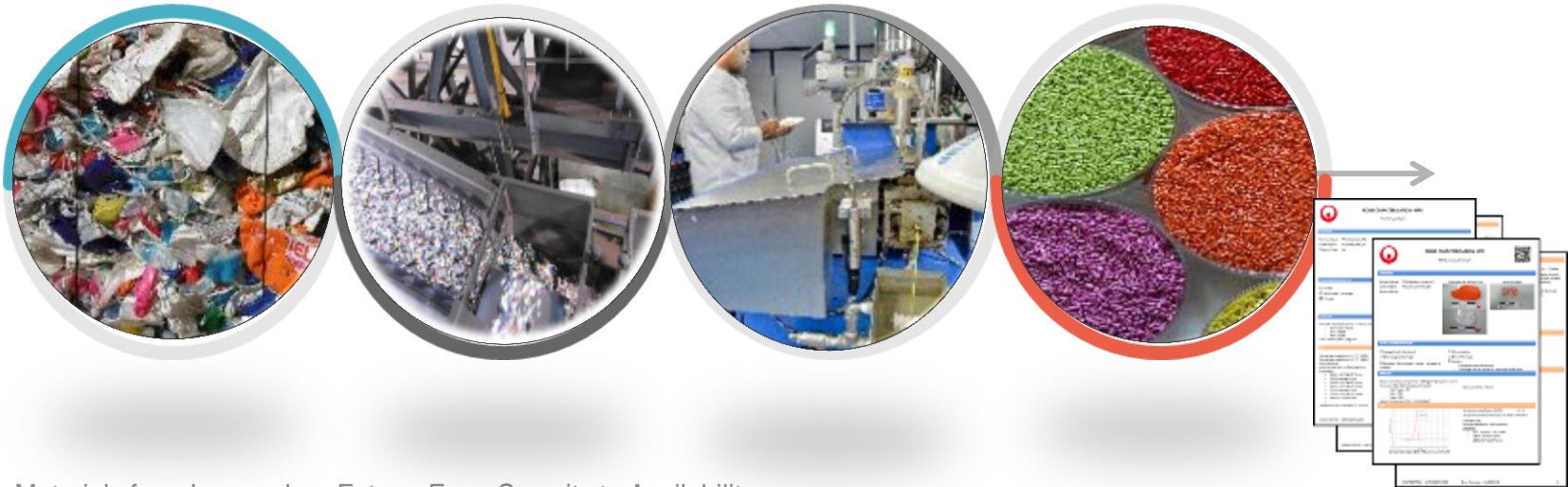
**Control of quantity and
quality of recycled materials**



**Control of
process steps**

From mixed-stream waste to recycled material with their own properties

Source separation | Sorting | Shredding | Cleaning | Blending | Compounding



METHOD



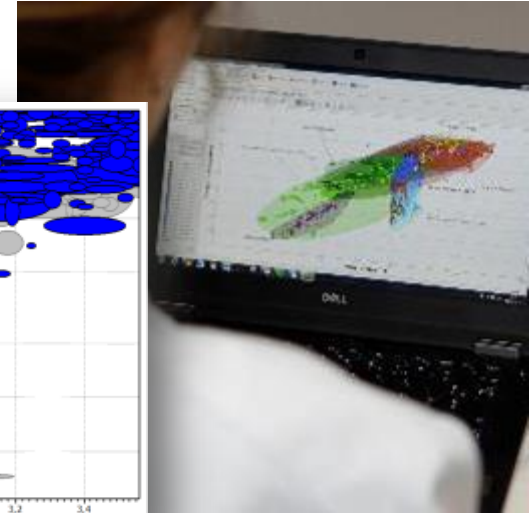
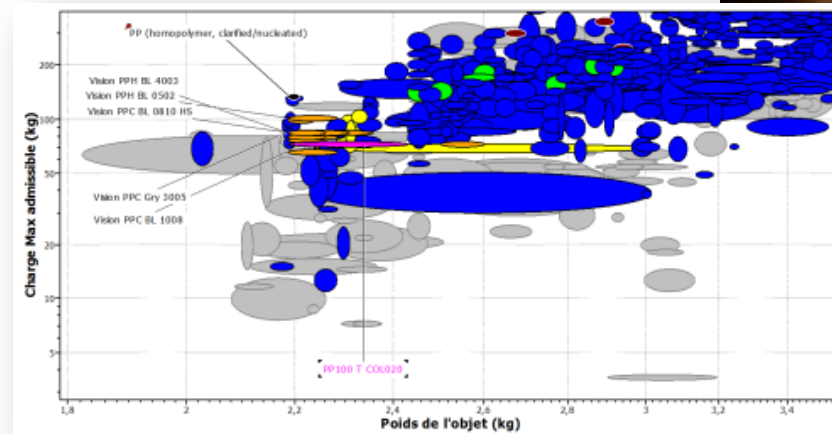
Design, with recycled materials
(can be new materials)



Support the industrial
demand

Adapt to demand

Function
Performance
Quantity
Cost



TOWARDS UPCYCLING



Key success factors

Industrialisation

- Traceability, from upstream to downstream
- Quality commitment
- Quantity commitment
- Environmental benefit

Ecodesign

