

COLLECTORS

WASTE COLLECTION SYSTEMS ASSESSED AND GOOD PRACTICES IDENTIFIED

INTRODUCTION

Malta, 26 September 2018

Tjerk Wardenaar, PhD
PNO Consultants

OUR HOST



OUR CONSORTIUM



OUR PROGRAMME

PART I: Experts' points of view (EU projects experiences)

Contributions by Sven Grieger (EARN) & Michele Giavini (A.R.S. Ambiente)

PART II: Round table

Waste management on islands and remote areas – challenges, solutions?

Contributions by Wasteserv Malta, Ballaeric Islands, Epirus Region

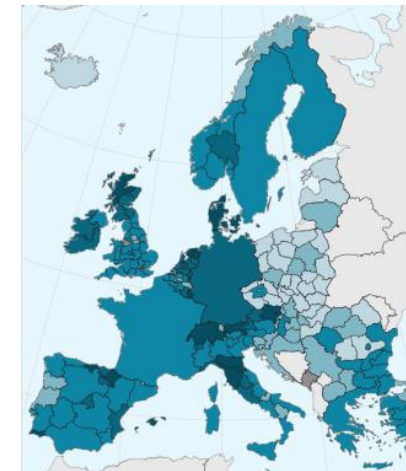
PART III: Round table

Re-shaping waste management systems to boost performances

Contributions by Zagreb, Warsaw, Stavanger, Vilnius

Moderator: Jean-Benoît Bel (ACR+)

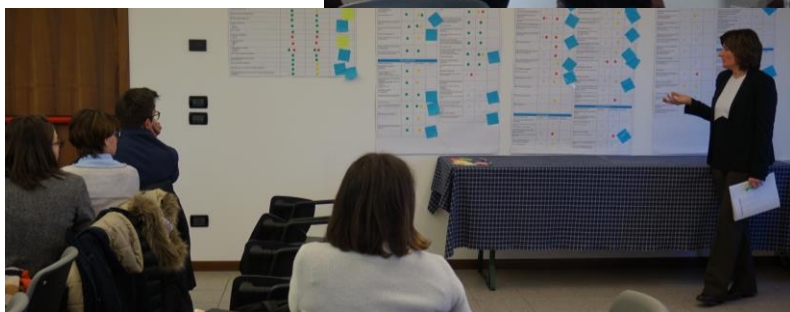
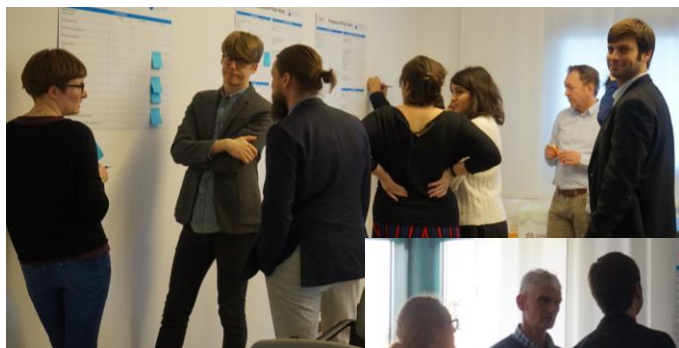
“The COLLECTORS-consortium is convinced that good performing regions and cities have the potential to serve as good practice examples for **regions with similar local contexts**”



COLLECTORS

PHASE ONE: INVENTORY OF WASTE COLLECTION SYSTEMS

DECEMBER 2017 – OCTOBER 2018



Use the filter option to find sources with specific characteristics: specific language / country / waste stream / author / ...

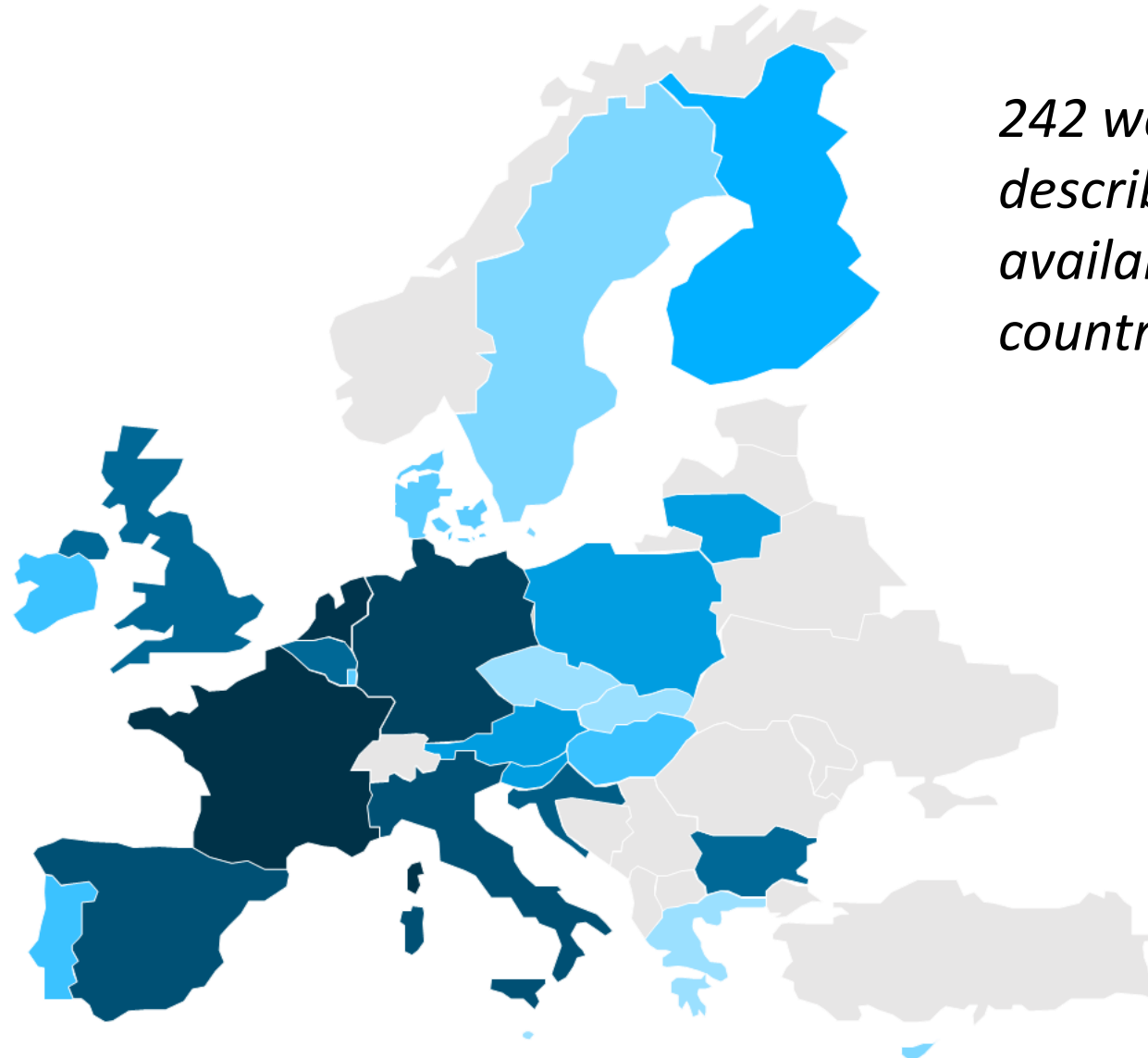
Short ref.	Title	Date	Author/publisher	Country	Language	PPW	CDW	WEEE
2015, Ministry Of Environment, SI National	Program Waste Management and the years 2016 - 2026	2015	Ministry Of Environment SI	SI	English	X	X	X
2015, Ministerium für Klimaschutz, DE NRW	Abfallwirtschaftsplan Nordrhein-Westfalen - Teilplan Siedl	2015	Ministerium für Klim	DE	German	X	X	X
2015, Deloitte, BE CDW Factsheet	Screening template for Construction and Demolition Wast	2015	Deloitte	BE	English	--	X	--
2015, BiPRO, UK London Capital factsheet	Capital factsheet on separate collection - London, UK	2015	BiPRO	UK	English	X	--	--
2015, BiPRO, SK Bratislava Capital factsheet	Capital factsheet on separate collection - Bratislava, SK	2015	BiPRO	SK	English	X	--	--

You can find the respective documents by looking at Short ref., which is the file name of the document, and the waste stream.

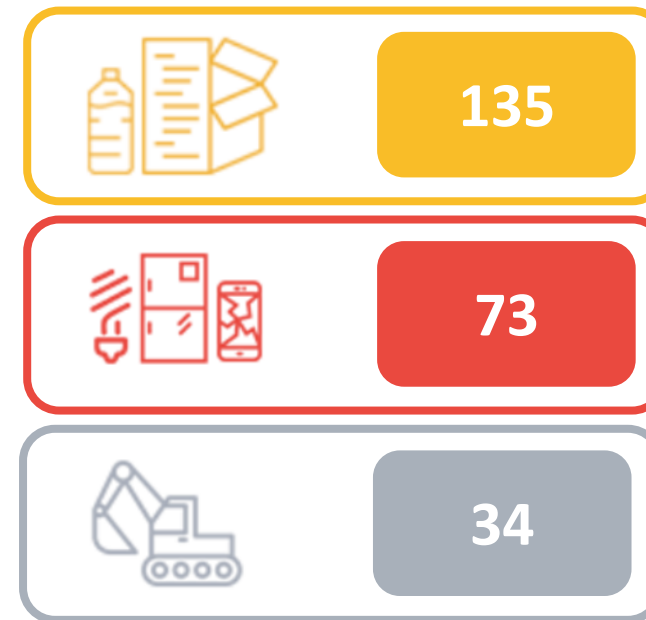
Here you can find the files, which are listed in the literature database

Name	Uploaded By	Creation date	
Literature for CDW waste stream	tber@ramboll.com	17/05/2018 09:09:34	⚙
Literature for PPW waste stream	tber@ramboll.com	17/05/2018 09:09:49	⚙
Literature for WEEE waste stream	mdr@ramboll.com	16/05/2018 15:54:27	⚙
Task 1.2 Literature Database.xlsx	mdr@ramboll.com	16/05/2018 15:53:27	⚙

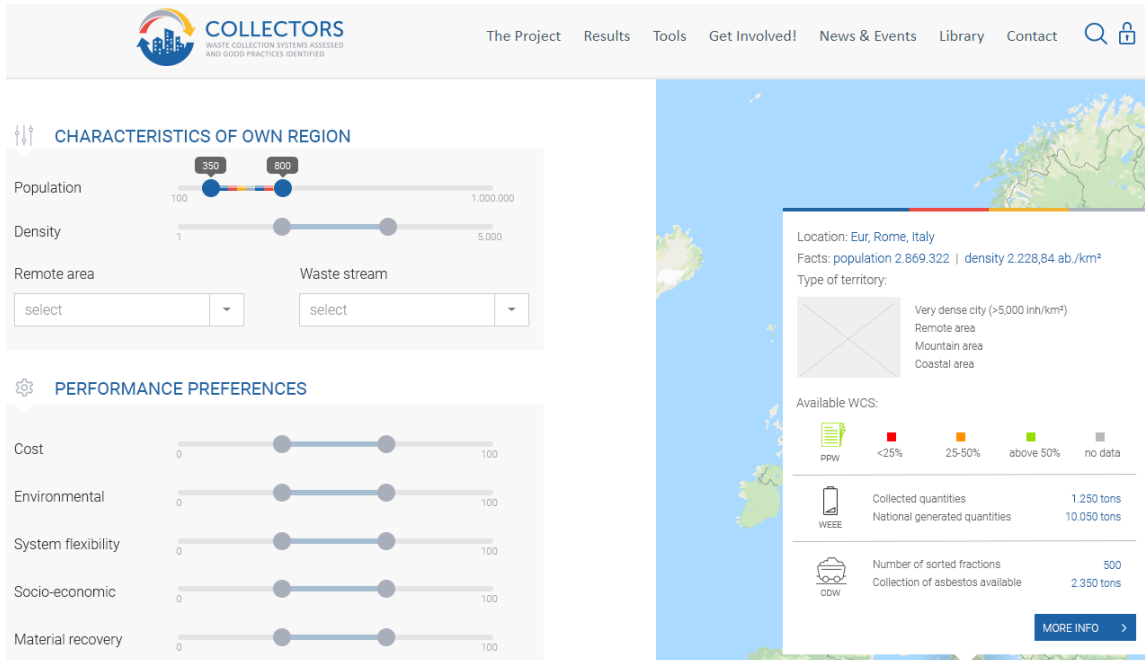
Literature Database – provides an overview of collected sources



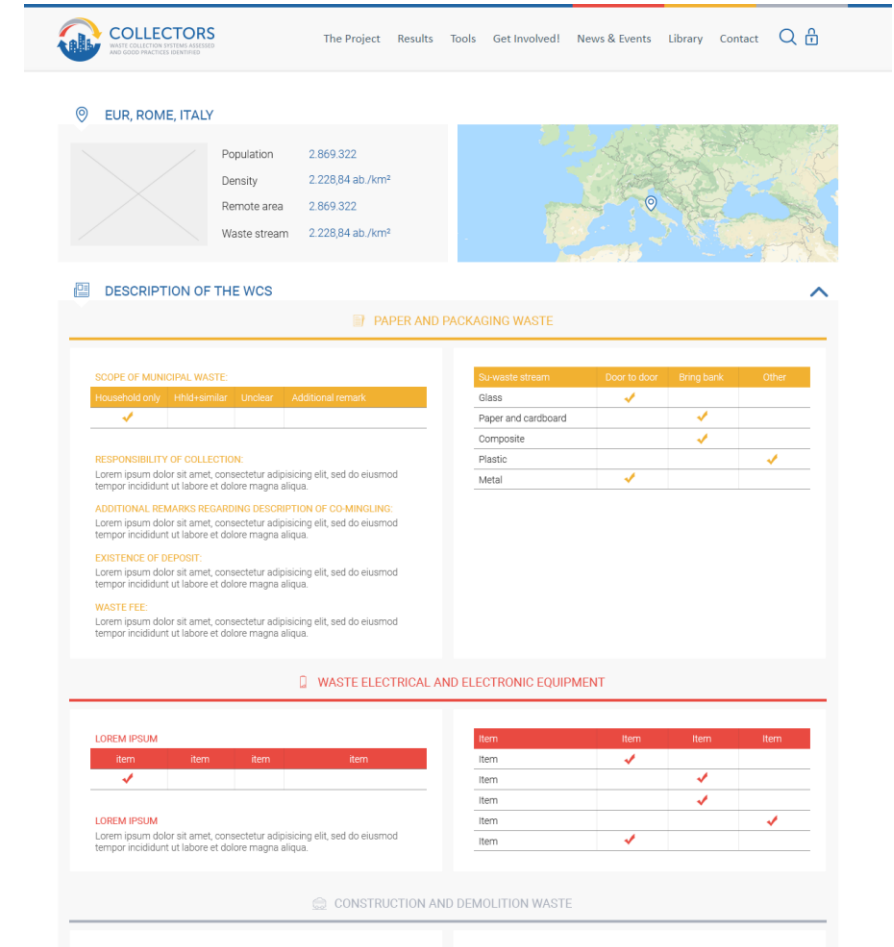
242 waste collection systems identified and described on ~30 parameters (depending on available information); covering 25 European countries



COLLECTORS webportal making available inventory results with factsheets on individual systems and a document library



The screenshot shows the COLLECTORS webportal interface. At the top is the navigation bar with links: The Project, Results, Tools, Get Involved!, News & Events, Library, and Contact. Below the navigation bar is a map of Europe with a location pin over Italy. A pop-up window displays details for 'Eur, Rome, Italy', including population (2,869,322), density (2,228.84 ab./km²), and waste stream (2,228.84 ab./km²). To the left of the map are two sections: 'CHARACTERISTICS OF OWN REGION' with sliders for Population, Density, Remote area, and Waste stream; and 'PERFORMANCE PREFERENCES' with sliders for Cost, Environmental, System flexibility, Socio-economic, and Material recovery.

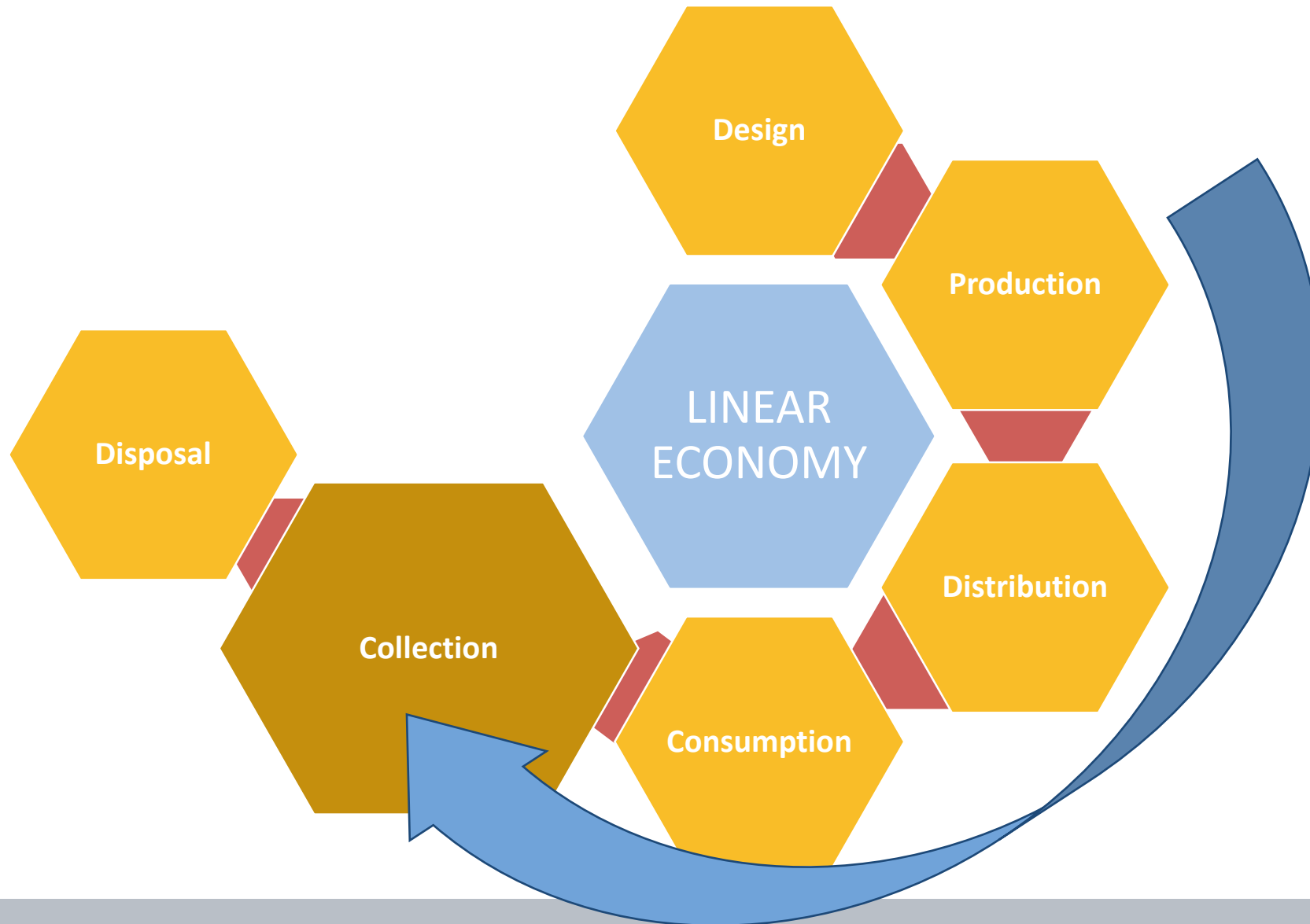


The screenshot shows the 'DESCRIPTION OF THE WCS' page for 'EUR, ROME, ITALY'. The page is divided into several sections: 'SCOPE OF MUNICIPAL WASTE' with a table for waste stream types (Household only, HH&S similar, Unclear, Additional remark); 'RESPONSIBILITY OF COLLECTION' with a table for collection methods (Door to door, Bring bank, Other); 'ADDITIONAL REMARKS REGARDING DESCRIPTION OF CO-MINGLING'; 'EXISTENCE OF DEPOSIT'; 'WASTE FEE'; 'WASTE ELECTRICAL AND ELECTRONIC EQUIPMENT' with a table for item types (item, item, item, item); and 'CONSTRUCTION AND DEMOLITION WASTE'.

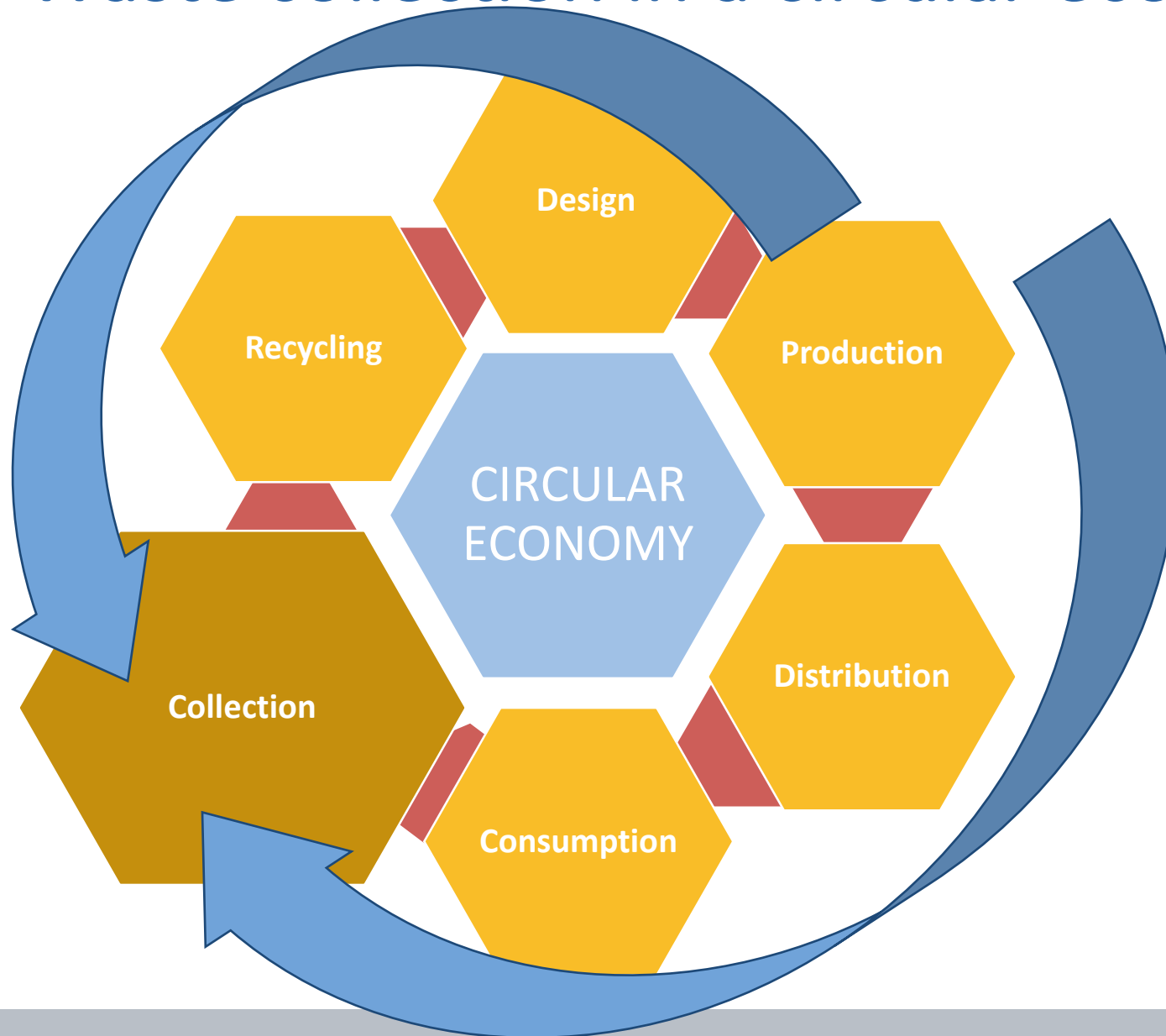
COLLECTORS

PHASE TWO: ASSESSMENT OF WASTE COLLECTION SYSTEMS

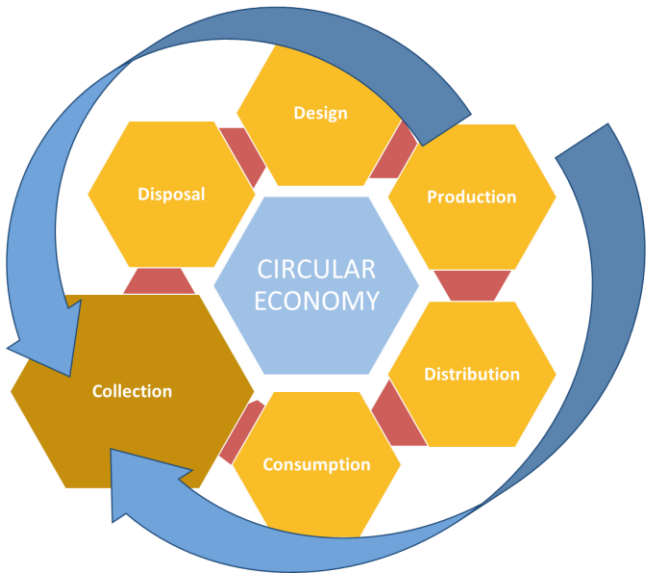
OCTOBER 2018 – SEPTEMBER 2019



Waste push dominates the waste collection process, thus focus on quantities and efficiency.



Waste push is complemented with a material pull, thus an increase in focus (also quality and effectiveness)



Assessment of performances on:

- *Material quality for recycling*
- *Societal acceptance (citizens)*
- *Economic performance (CBA)*
- *Environmental performance (LCA)*

Identification of complementarities, trade-offs, and opportunities.

COLLECTORS

PHASE THREE: IMPLEMENTATION SUPPORT OF WASTE COLLECTION SYSTEMS

SEPTEMBER 2019 – JUNE 2020

“The amount of materials recovered by theoretical waste collection systems is rather low”

- Development of generalized criteria to support authorities and PROs
- Formulation of guidelines and recommendations for successful implementation of better-performing systems
- Webinars and capacity building on technical and operational aspects

Thank you!

Tjerk Wardenaar
PNO Consultants

tjerk.wardenaar@pnoconsultants.com

For more info about the project visit the COLLECTORS website at www.collectors2020.eu