

IMPACTPAPE**REC**

- Boosting separate paper collection -

Informative meeting
- Introduction of the project ImpactPapeRec

TRANSPORT & LOGISTICS RESEARCH CENTER

César Aliaga – ITENE

Brussels (Belgium), October 18-2017



Background



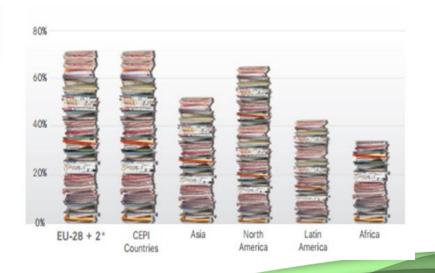


Collection of 59 Mt of paper and cardboard (households, commerce, industries and offices)

European paper Recycling



Worldwide paper Recycling



Source: CEPI 2016



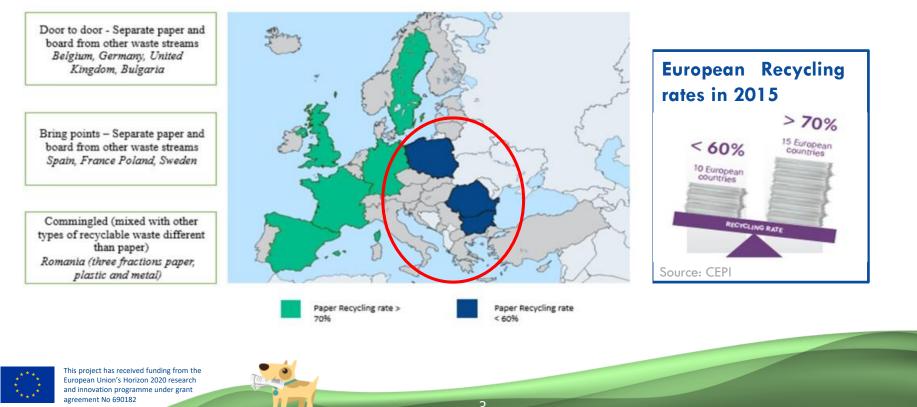
Problem



> LOW QUANTITY of Paper for Recycling (PfR) in Central and Eastern European countries.

> LOW QUALITY of PfR (not always meet the requirements of paper recycling).

Need \rightarrow Additional measures to keep up with the increases for the collection of PfR observed over the last few years



Why a project on that topic?

- Scientific knowledge is required to address quantitatively the problems...to find real solutions
- Involvement of stakeholders:
 - Municipalities
 - Citizens
 - Academia & research institutions
 - Paper Industry
 - Industry associations
 - Collectors & waste management companies
 - Expert consultancy
 - ...



IMPACTPAPEREC

Boosting separate paper collection.





This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 690182

Why IMPACTPapeRec?



Improvement the quantity and quality of PfR

- To create an innovative and common knowledge platform to enable cooperation between the key stakeholders
- Evaluation of the "best-in-class" separate paper collection systems
- Dissemination and promotion of best practices in PfR collection
- Development of innovative solutions:
 - ✓ Incentives
 - ✓ Decision-making process
 - ✓ Standardization
 - ✓ Business opportunities around PfR





Main outcome of IMPACTPapeRec Project





The "GOOD and BEST PRACTICES HANDBOOK" contains valuable information to assist EU regions to improve PfR collection and support them in the implementation of the best collection procedures



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The IMPACTPapeRec Project Consortium





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IMPACTPapeRec project overview

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WP2- Best Practice identification and assessment



Best practice territories not project partners

- Belgium: Liège
- Germany: Kempten/Oberallgäu/Lindau
- Slovenia: Ljubljana
- Spain: Cádiz
- Spain: Logroño

Task 2.1. Data collection on best • performing territories

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Boosting separate paper collection

• Task 2.2. Analysis, evaluation and presentation of results





Introduction

1.

6. 7.

- 2. Legislation, Standardisation, Incentives and Policy Measures
- 3. Collection systems
- 4. The good and best practices for collection of PfR
- 5. Evaluation of your perfomance in collection of PfR (tool)

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- Selection Tree (tool)
- Good and Best Practices Factsheets



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• Task 2.3. Good and Best practices Handbook

WP3- Validation of the models. Standards, Incentives and Policy Measures



- Task 3.1. Cluster definition and compilation of the information
- Task 3.2. Application of Best practices in each territory

• Task 3.3 Validation of the handbook by the Cluster regions.

• Task 3.4, 3.5., 3.6. Policy measures,

R R BG BG





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incentives and standards

Key identified problems in clusters



- Low quantity of collected paper and board
- Collection of mixed recyclables
- Low quality of paper and board (mainly because high level of impurities and moisture)
- Low motivation of citizens
- Vandalism at collection sites
- Littering around collection sites



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Relevance & causes of key identified problems



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												,			
Problem/causes	Relevant in	Lack of citizen motivation	Waste pickers	Lack info/education	Lack enviro. awareness	Vandalism	Contamination	Uncompressed material	Use for heating	Design containers/sites	Uncovered storage	Mixed collection	No availability	No standards	No/unclear reaulation
Low quantity of paper and board	All clusters except UK and FR	~							~	~		~			~
Mixed material	All clusters	×		√			×	×				√	~		
Low quality of paper and board by impurities	Al clusters						~						~	~	
Low quality of paper and board because of moisture	Duptnitsa (BG), Mezdra (BG), Mihai V (RO), Szczecin (PL)										~			~	
Low motivation of citizens	All clusters		~	~	~	~				~		~	~		~
Vandalism	Duptnitsa (BG), Mezdra (BG), Sfantu G (RO), Szczecin (PL)			~						~					
Littering around	All clusters	~	~		~	~		~		~			~		



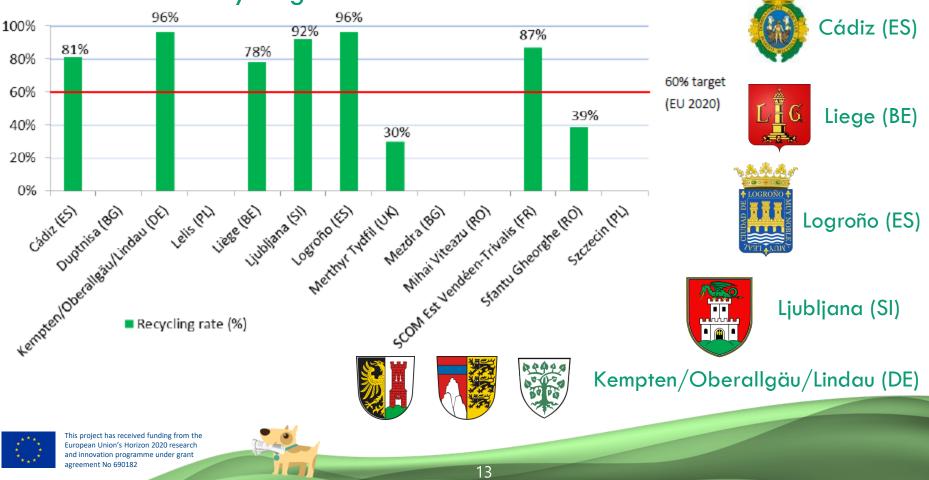
collection sites

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How to address these challenges to solutions (I)?



 By looking at best performing territories on paper and cardboard recycling



WP4- Innovation node







- Task 4.1. Identification of innovation needs
- Task 4.2. Innovation supporting activities
- Task 4.3 Potential for innovation transfer

Workshops

World coffee method CANVAS models

Generation of new business ideas



WP5- Dissemination, Communication and Exploitation



Project website	Press releases							
Poster/roll-up	Technical and mass media articles							
Project brochure	Newsletters							
Project video	Webinars							
Project conferences	e-learning modules							
Cluster workshops	informative meetings							
European workshop	workshops municipalities							
Social networks	EU workshops							
Interactive discussions	Workshops for entrepreneurs							
Events and conferences	Poster cities							
Guided tour to collection sites	Youtube video							





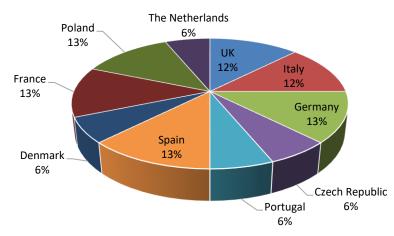


External Support Committee

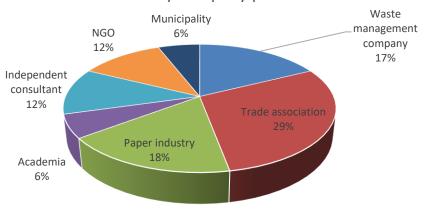


✓ Expert stakeholders in the paper and carboard value chain ✓ 10 EU Countries represented

IMPACTPapeRec External Support Committee members by Country



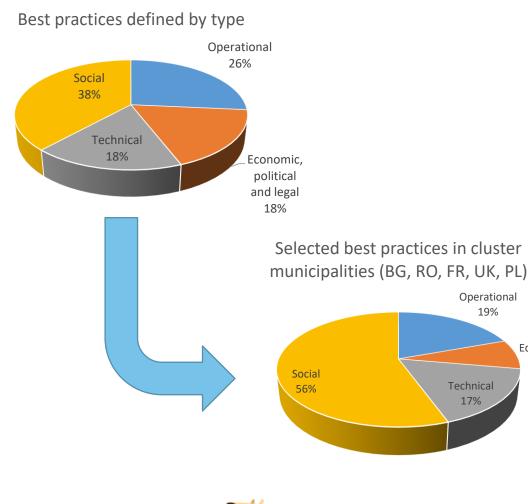
IMPACTPapeRec External Support Committee members by company profile





External Support Committee





 It clearly seems that most of the solutions to challenges are related to <u>social</u> followed to those related to <u>operational issues</u>

Economical 8%

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A great group of experts working for PfR





Visit to Hamburger Recycling Paper Mill in Dunaújváros (Hungary) Sep 27 2016





Thanks for your attention

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