

Silesian University of Technology 10¹¹ INTERNATIONAL CONFERENCE ON SUSTAINABLE SOLID WASTE MANAGEMENT

21 - 24 June 2023, Chania, Crete, Greece

Towards sustainable community – the evaluation of the local municipal waste collection centers by residents – a case study of Poland

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Scope and goal of this study

- Direct survey at municipal waste collection centers
- To identify sources of information about separated waste collection
- To explore methods of disseminating information about waste collection – key communication channels
- To identify attitude and awareness of environmental protection by recovery of secondary raw materials by individuals

But, why local collection centers are so important?

It is an obligation in the EU policy And you can bring in almost any waste to the center



Piotr Nowakowski

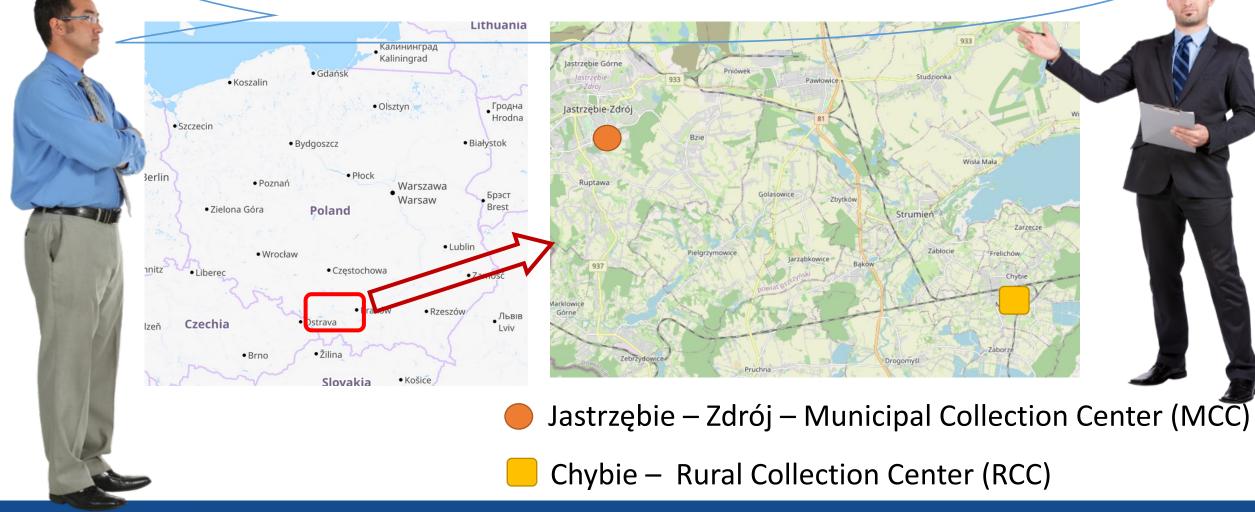
It is also a challenge for researchers! It combines environmental policy, social attitude, education, promotion and communication issues

Target group

- Target group are the residents disposing of the waste in the municipal/communal waste collection centers,
- The group of individuals is directly involved in the waste collection/transportation process to guarantee the reliability of the results,
- The data collection is not easy due to low willingness of individuals to participate in the questionnaires.



Location of the waste collection centers – South of Poland



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View of the waste collection centers Jastrzębie – Zdrój Chybie MCC RCC

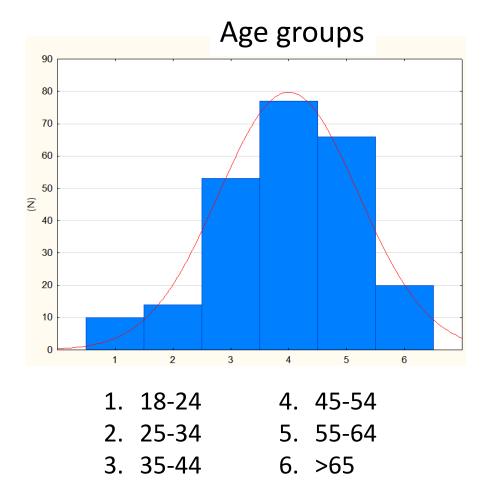
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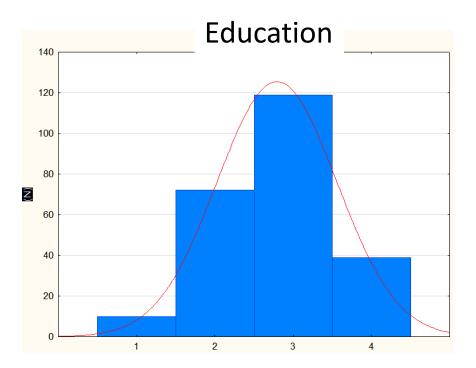
Piotr Nowakowski

Survey – questionnaire details

- Questionnaire in paper form
- Profile of individuals (general data)
- Sources of information about waste collection and collection centers
- Opinions and attitude towards environment and waste collection
- Sources of education in the above mentioned subjects
- Proposals for improvement of the operation of the waste collection centers

Profile of respondents in Chybie RCC



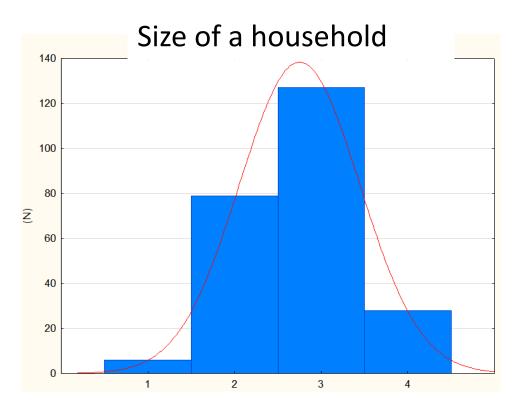


- 1. Primary education
- 2. Vocational education
- 3. Secondary education
- 4. Higher education

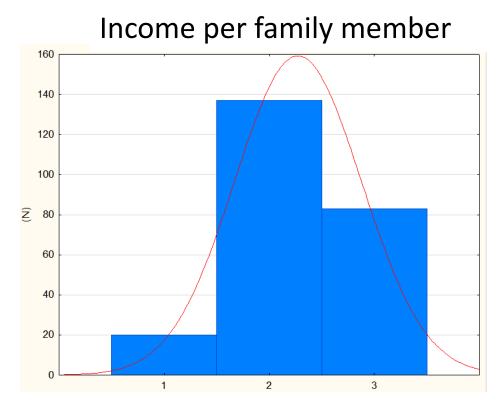
N=240



Profile of respondents in Chybie RCC

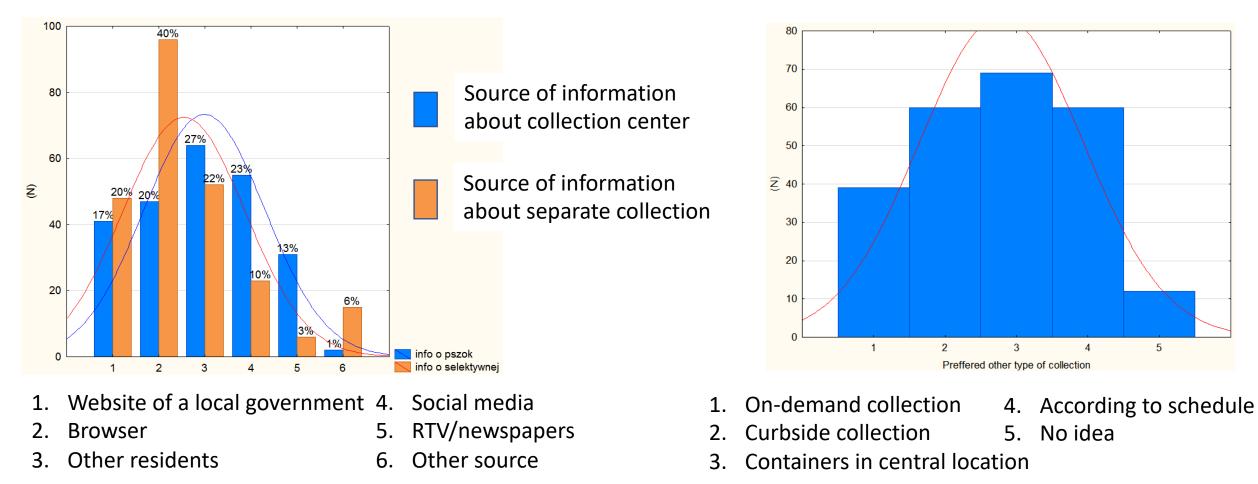


- 1. Single person family
- 2. Two persons family
- 3. Three-four persons family
- 4. Five and more persons family

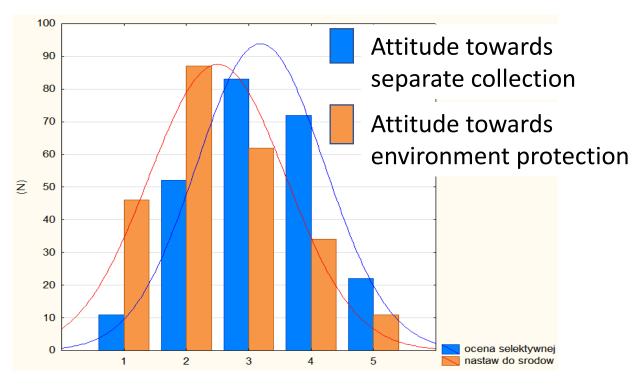


- 1. Low income
- 2. Middle income
- 3. High income

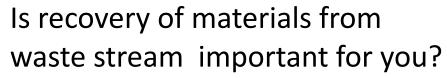
Results: Chybie RCC - source of information, possible improvement

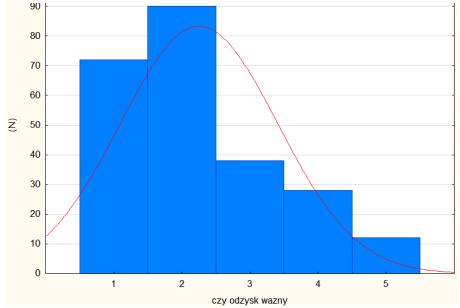


Results: Chybie RCC: Attitude of individuals towards waste collection, environment and recovery of materials



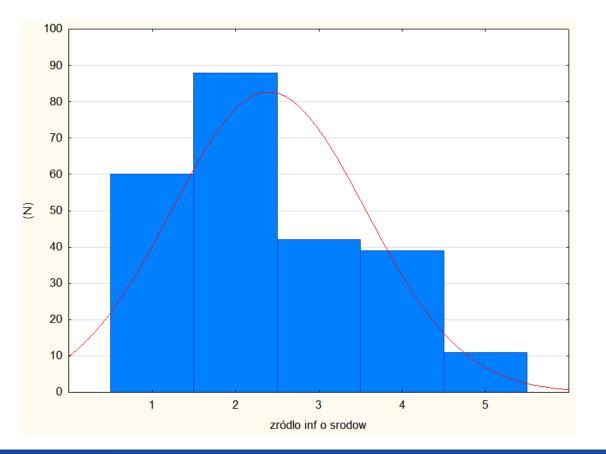
- 1. Strongly agree
- 2. Agree
- 3. Neutral





- 4. Disagree
- 5. Strongly disagree

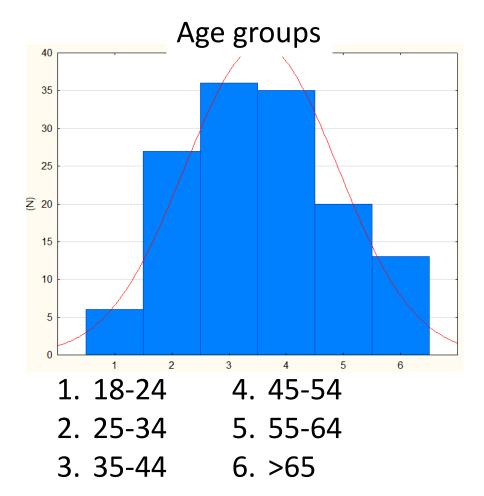
Results - Chybie RCC The main source of information about environmental protection

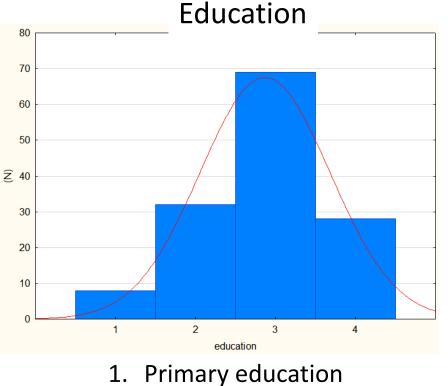


- 1. Education at school
- 2. Courses/workshops
- 3. Educational programmes
- 4. Internet, other media
- 5. Friends, relatives



Profile of respondents in MCC Jastrzębie (ruble and renovation waste)



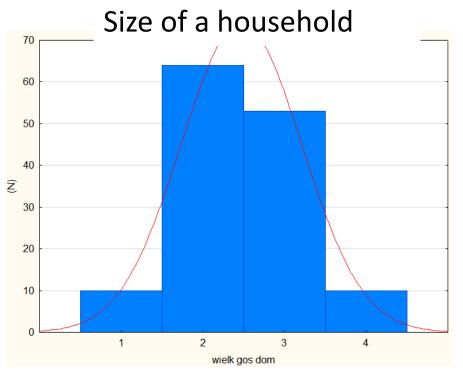


- 2. Vocational education
- Secondary education 3.
- 4. Higher education

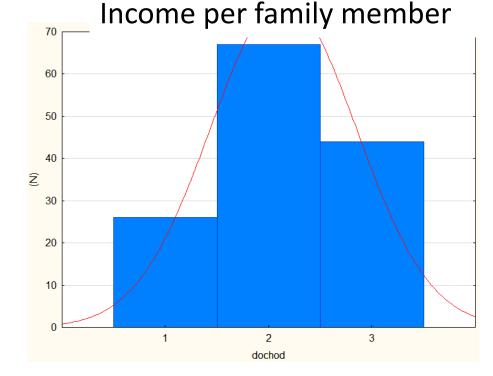
N=140



Profile of respondents in MCC Jastrzębie

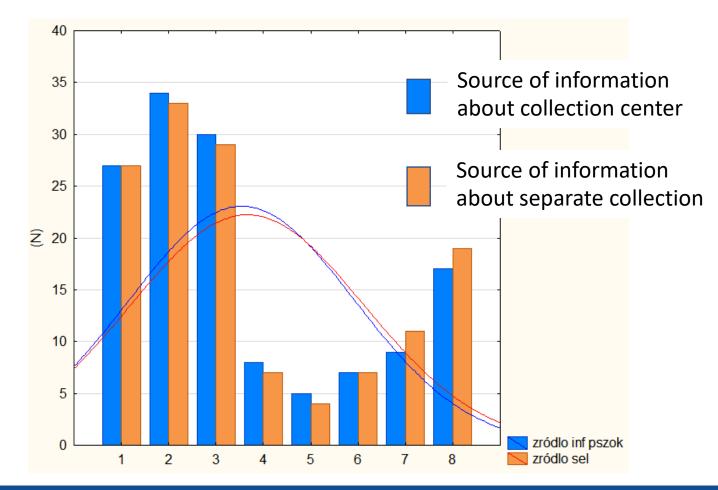


- 1. Single person family
- 2. Two persons family
- 3. Three/four persons family
- 4. Five and more persons family



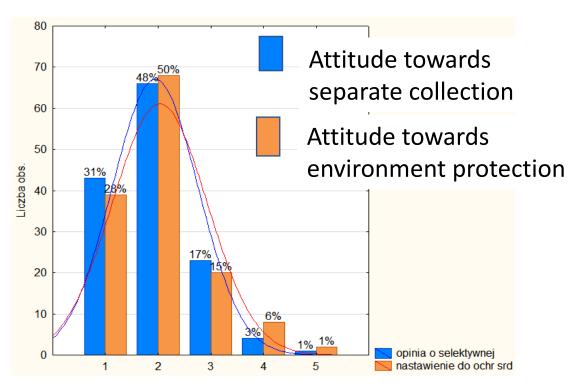
- 1. Low income
- 2. Middle income
- 3. High income

Results: Jastrzębie MCC source of information



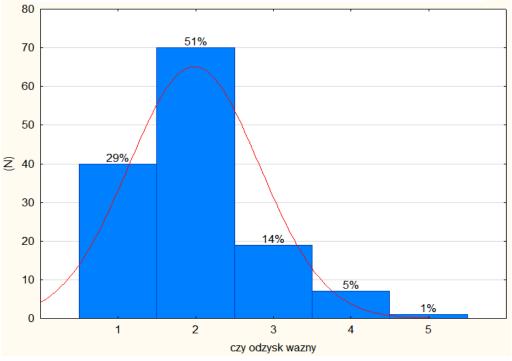
- 1. Website of a local government
- 2. Browser
- 3. Other residents
- 4. Social media
- 5. RTV/newspapers
- 6. Eco-schedule
- 7. Promotion leaflets
- 8. Other source

Results: Jastrzębie MCC - Attitude of individuals towards waste collection, environment and recovery of materials



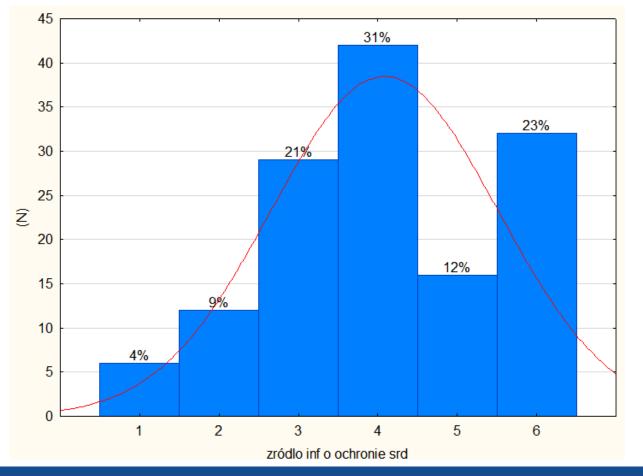
- 1. Strongly agree
- 2. Agree
- 3. Neutral

Is recovery of materials from waste stream imortant for you?



- 4. Disagree
- 5. Strongly disagree

Results - Jastrzębie MCC The main source of information about environmental protection



- 1. Education at school
- 2. Courses/workshops
- 3. Educational programmes
- 4. Internet, other media
- 5. Friends, relatives
- 6. Educational campaigns and other events



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Conclusions

- The main goals have been achieved and data for detailed analysis has been collected
- The results indicate high percentage of Internet sources for waste collection related information
- The attitude towards environment protection and separated waste collection is leaning towards high awareness by residents of importance of these activities
- The individuals propose some measures for improvement of the waste collection
- Deeper analysis will be provided in the article after the conference



Thank you for your attention

Σας ευχαριστώ για την προσοχή σας







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