



**BUILD2LC**  
Interreg Europe



European Union  
European Regional  
Development Fund

# Professionalization on the Construction Sector

*Podkarpackie/Poland*

**Marek Duda**

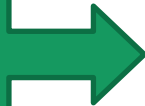
Rzeszow Regional Development Agency

[mduda@rarr.rzeszow.pl](mailto:mduda@rarr.rzeszow.pl)

# Action Plan Summary

*Action 1*

SUPPORT SCHEME  
FOR NEW NZEB-  
TYPE PUBLIC  
BUILDINGS



Podkarpackie  
Action Plan

*Action 2*

NZEB  
DEMONSTRATION  
PUBLIC BUILDING



Podkarpackie Region (Poland)



# Action 2: NZEB DEMONSTRATION PUBLIC BUILDING

- **Brief summary.**

*An action in which a new demonstration public building was developed.*

- **Good practices learnt / identified.**

*This action was **inspired** by lessons learnt from **Bračak Energy Centre in Croatia** as well as **Manantia: A+ eco-business building with Andalusian patio concept** by the BUILD2LC project partners.*



# Action 2: NZEB DEMONSTRATION PUBLIC BUILDING

**Beneficiary:** The Podkarpackie Chamber of Civil Engineers

**Name of the project:** *NZEB DEMONSTRATION PUBLIC BUILDING*

## FUNCTIONS

- **administrative centre** of the Podkarpackie Chamber of Civil Engineers;
- **training centre** - use of the building database enabling **training and exhibition**;
- **model object of passive construction**

## MAJOR STEPS

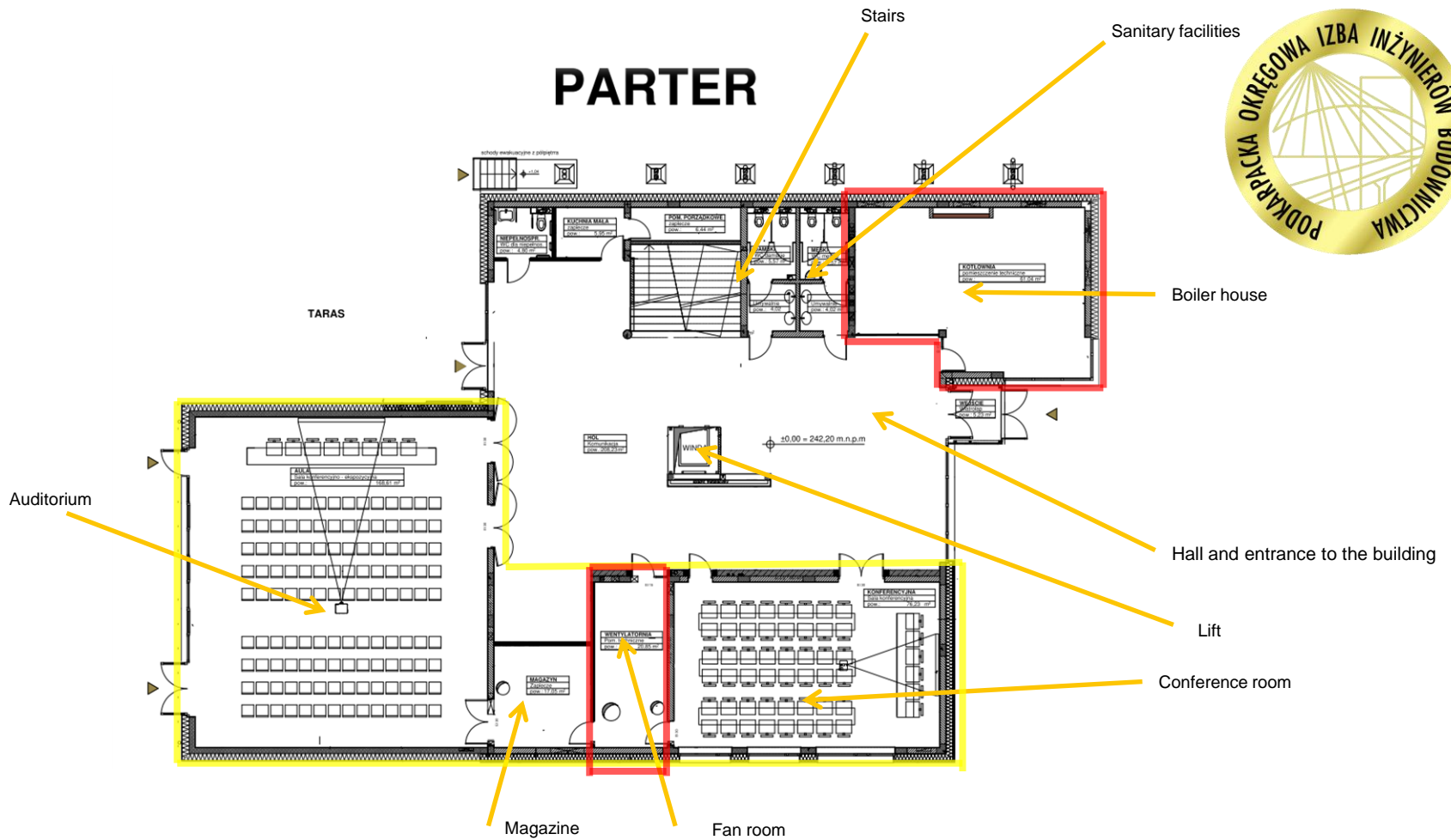
- Start of the project: **07.2017**
- Completion of the construction: **31.07.2019**
- Official opening: **20.09.2019**

## AIMS

- **Educational programmes** target the entire Podkarpackie region
- **Raise public awareness** on the efficient use of natural resources.



# Ground floor







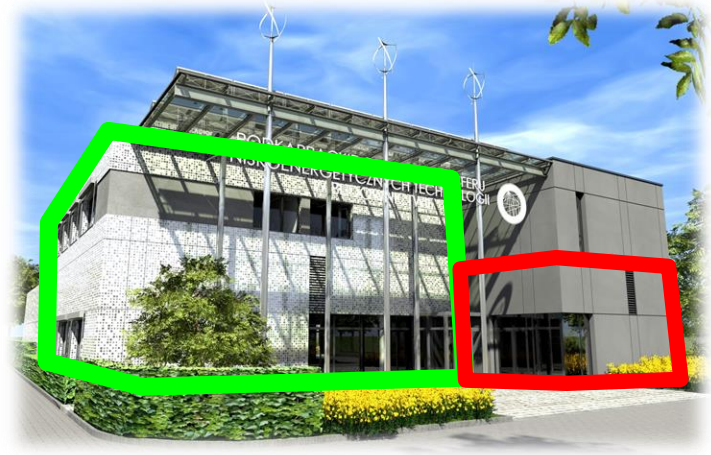
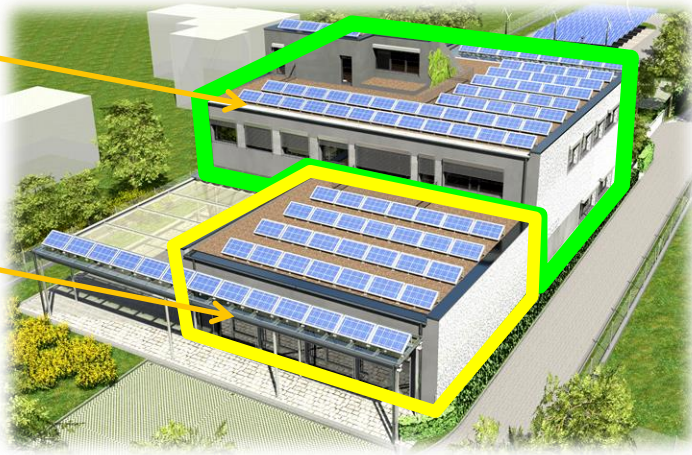
# BUILDING OPTIMIZATION - DEPENDENT ON FUNCTION



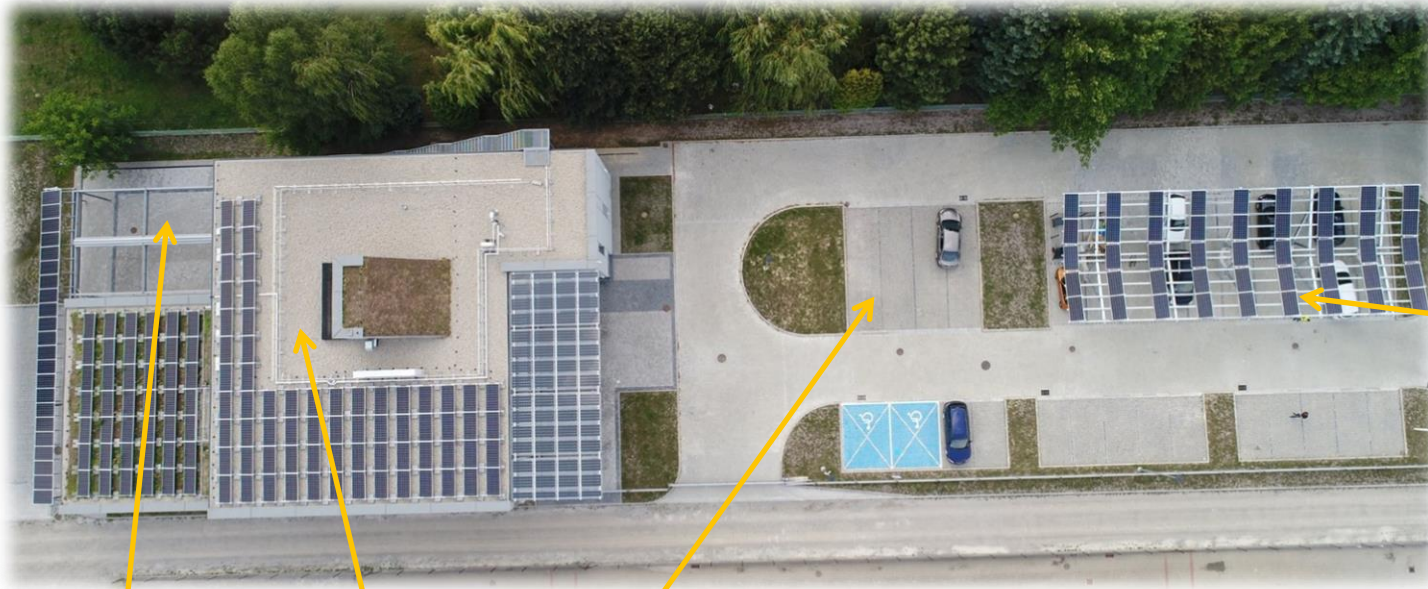
Technical part

Office Part

Conference part







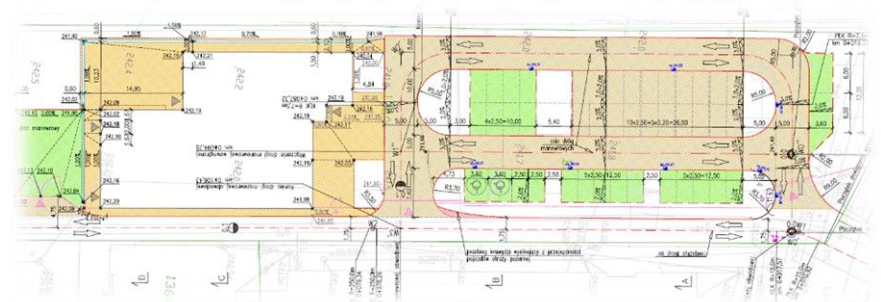
Solar panels for parking lot



TERRACE  
covered with an  
awning

- Photovoltaic panels on the  
roofs

Parking  
lots







Skylight - natural ventilation and lighting

Roof entrances - allowing visiting the RES exhibition

Photovoltaic cells - obtaining electricity from solar energy

Extensive greenery - reduction of the "hot island" effect, water from flat roofs is used as "gray water"

Triple-pane windows - with high insulation parameters, mounted in a layer of polystyrene / wool

External blinds - avoid overheating in summer and maximize profits in winter



Photovoltaic cells - obtaining electricity from solar energy

Extensive greenery - reduction of the "hot island" effect, water from flat roofs is used as "gray water"

External blinds - avoid overheating in summer and maximize profits in winter

Triple-pane windows - with high insulation parameters,

# Influence of demonstration building for profesionalisation construction sector

## Main aims of the building:

- **administrative centre**
- **the educational centre** - improved the skills of workers and professionals,
- **model object of passive construction**

## Influence for Region and regional society

- **educational programmes** target the entire Podkarpackie region
- **raise public awareness** on the **efficient use of natural resources** and the **importance of sustainable development** on a continuous basis.



# Influence of demonstration building for professionalisation construction sector

## Activitis of The Podkarpackie Chamber of Civil Engineers:

- **Trainings** for construction engineers
- **Technical tours** with a presentation of the facility and technologies used in the Chamber's building
- **Championship** of the Podkarpackie District Chamber of Civil Engineers
- **Events**, eg Construction of the Year of Podkarpackie
- **Granting building permits**
- **Construction Fairs**
- Knowledge and Building Skills **Olympics**
- **Competitions** for the most interesting works of **pupils and students**
- **Participation in open days** organized by the school/University
- **Honorary patronages**



# Ceremonial granting of building permits





# Olympiad of Knowledge and Building Skills



The Olympiad of Building Knowledge and Skills where high school students from the construction faculty compete in three-stage qualifying rounds.







# Competition for the most interesting own work of secondary school students on the subject of construction and energy





# Competition for the best diploma thesis of ENVIRONMENTAL ENGINEERING and CONSTRUCTION graduates



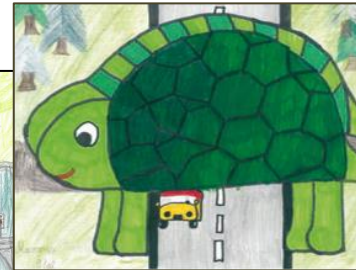
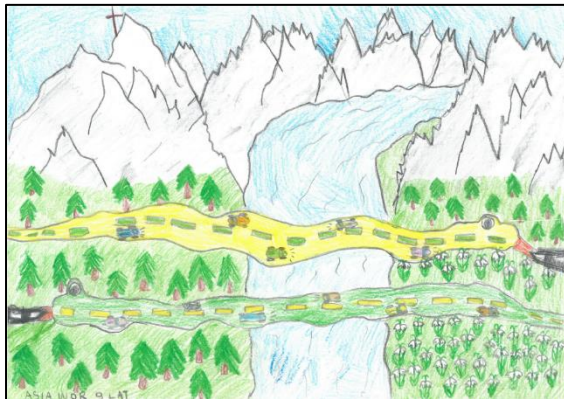
Diplomas for the winners of the competition and thesis supervisors





# „Roads, bridges, flyovers and motorways of the future”

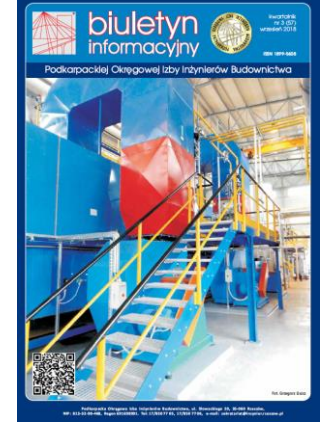
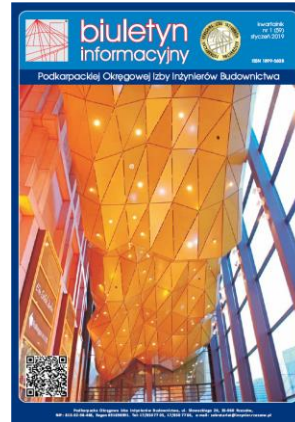
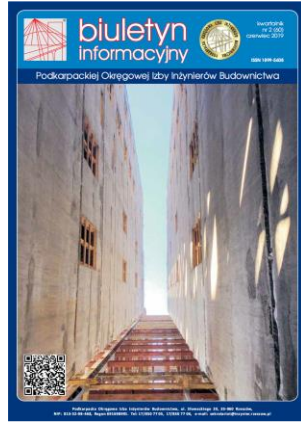
Every year Chamber organize a competition for children and grandchildren, the final of which takes place at the Construction Gala of the Year of Podkarpacie





# Chamber's publishing house

Systematically, the Chamber publishes the "Information Bulletin of the Podkarackie's Regional Chamber of Civil Engineers".



Cooperating technical associations:





**BUILD2LC**  
Interreg Europe



European Union  
European Regional  
Development Fund

Thank you!

Marek Duda  
[mduda@rarr.rzeszow.pl](mailto:mduda@rarr.rzeszow.pl)