

Sustainable Construction Best practices

Centre of Excellence in Construction (CEC),
Republic of Moldova

LILIA ZESTREA

10.09.2024



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CENTRE OF EXCELLENCE IN CONSTRUCTION REPUBLIC OF MOLDOVA



Specialties:

- 9 of the IV ISCED level
- 1 of the III ISCED level

Statistics:

- Founded in 1932
- 1450 pupils
- COOP NET network – 21 VET institutions



Training courses:

- 5 courses for teachers and employees from VET institutions and employees from construction companies

Validation and certification:

- 15 occupations in construction area

Organized training courses from 2016-2024

560

Teachers

from 21
professional
schools, Moldova

348

Employers

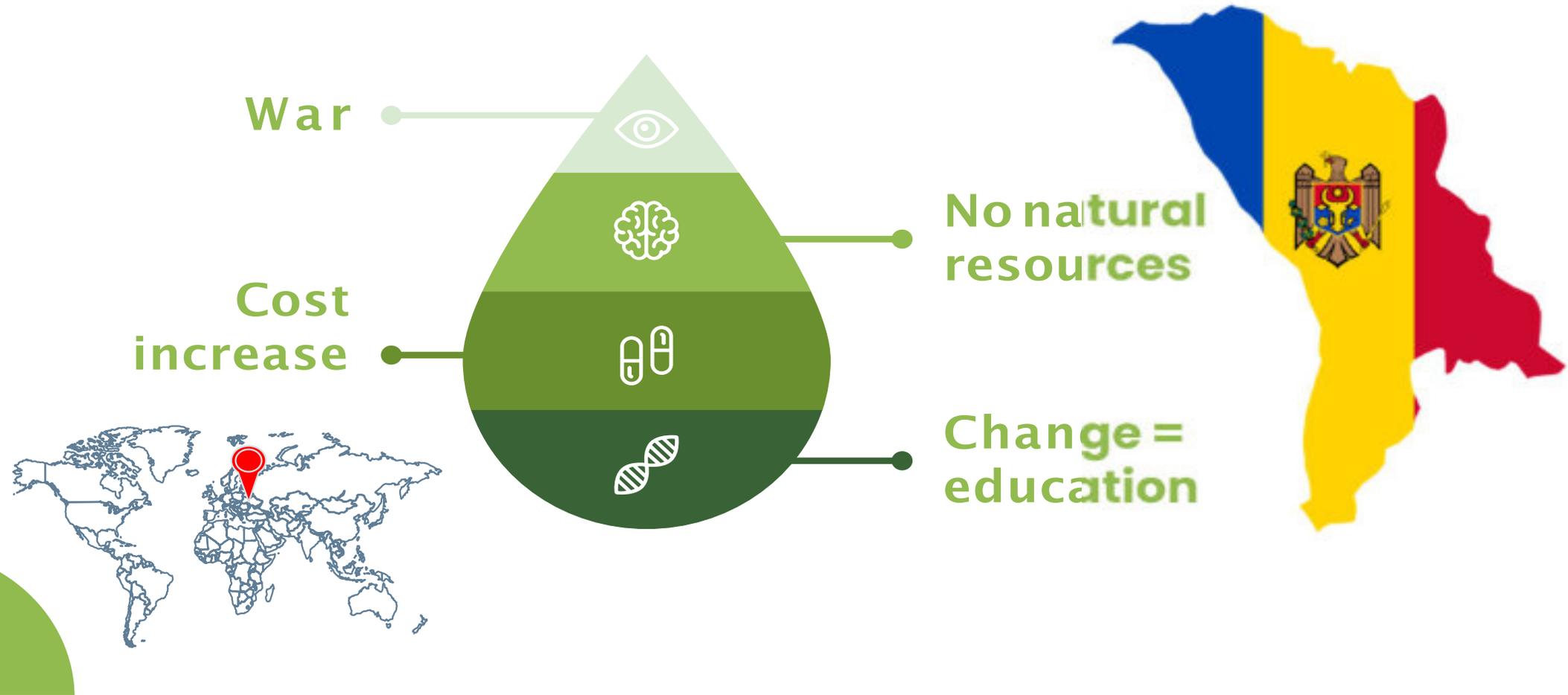
from companies,
construction area

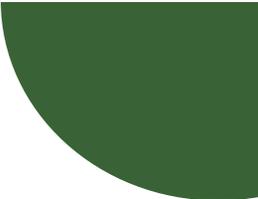
240

Youth

in different topics: woodworking,
entrepreneurship, digitalization,
financial education...

Why greening the construction sector?





**What we have
done?**



Modernized curricula in construction and energy efficiency



Workshop with companies

In road and civil construction, instalations

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Working at the greening curricula

- 2022 – from 1 and 2 courses
- 2023 – from 3 and 4 courses
- 2024 – Finalize the process



COLLABORATION – FEDERATION OF EMPLOYERS IN CONSTRUCTION and TRADE UNIONS

Meetings

With representatives of companies, ministries and other entities

Exchange of best practices

Danemark, Austria, Romania



The Training Needs of Construction Companies' Employees, 2023



Confederația Națională
a Patronatului
din Republica Moldova



COLLABORATION – CONSTRUCTION COMPANIES



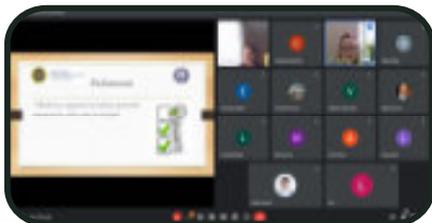
Workshops



Questionnaire



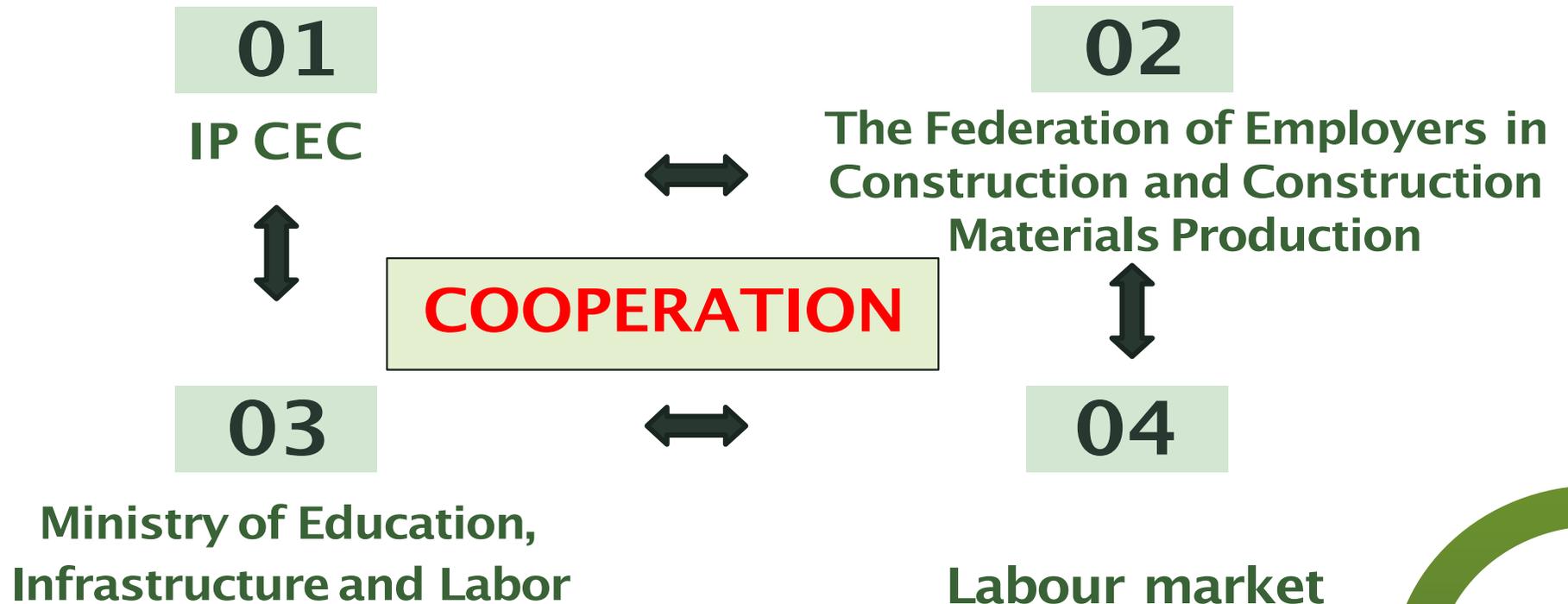
On-line meeting



Visit on site



What are the experienced factors for robust skillseco systems ?



World recycling day

Exhibition at the Center of Excellence in Construction

- emphasizes the need to comply with waste sorting rules
- the use of ecological materials in construction, in interior design
- the importance of recycling and sustainability



Conferences

Environmental protection starts with me

28.X.2021, online,
25 presentations
From 10 VET
Live stream, factbook



Environmental protection starts with me

26.X.2023, online
20 presentations
from 15 VET



Organizing the training courses for:

Teachers



Utilization of eco-friendly materials, waste, and sustainable methods in construction and energy efficiency

From 1 day to 3 months, 300 hours

Youth



Carpentry and woodworking, entrepreneurship, digitalization, financial education

From 1 day to 3 months, 8 to 360 hours

Employees



- Heating systems and solar equipment installer.
- Biomass boiler room operator.
- Installer of opaque thermal insulation systems for buildings.

From 1 day to 3 months, 8 to 540 hours

Duration, hours



For TEACHERS

Utilization of Eco-friendly Materials, Waste, and Sustainable Methods in Construction and Energy Efficiency

03.2022–05.2022 – 100 teachers

10.2023–01.2024 – 50 teachers



For EMPLOYEES

Thermal Insulation Systems Installer for Buildings

2022-2024 - 33 employees

Biomass boiler operators

2022-2024 - more than 280 employees

Heating systems and solar equipment installer

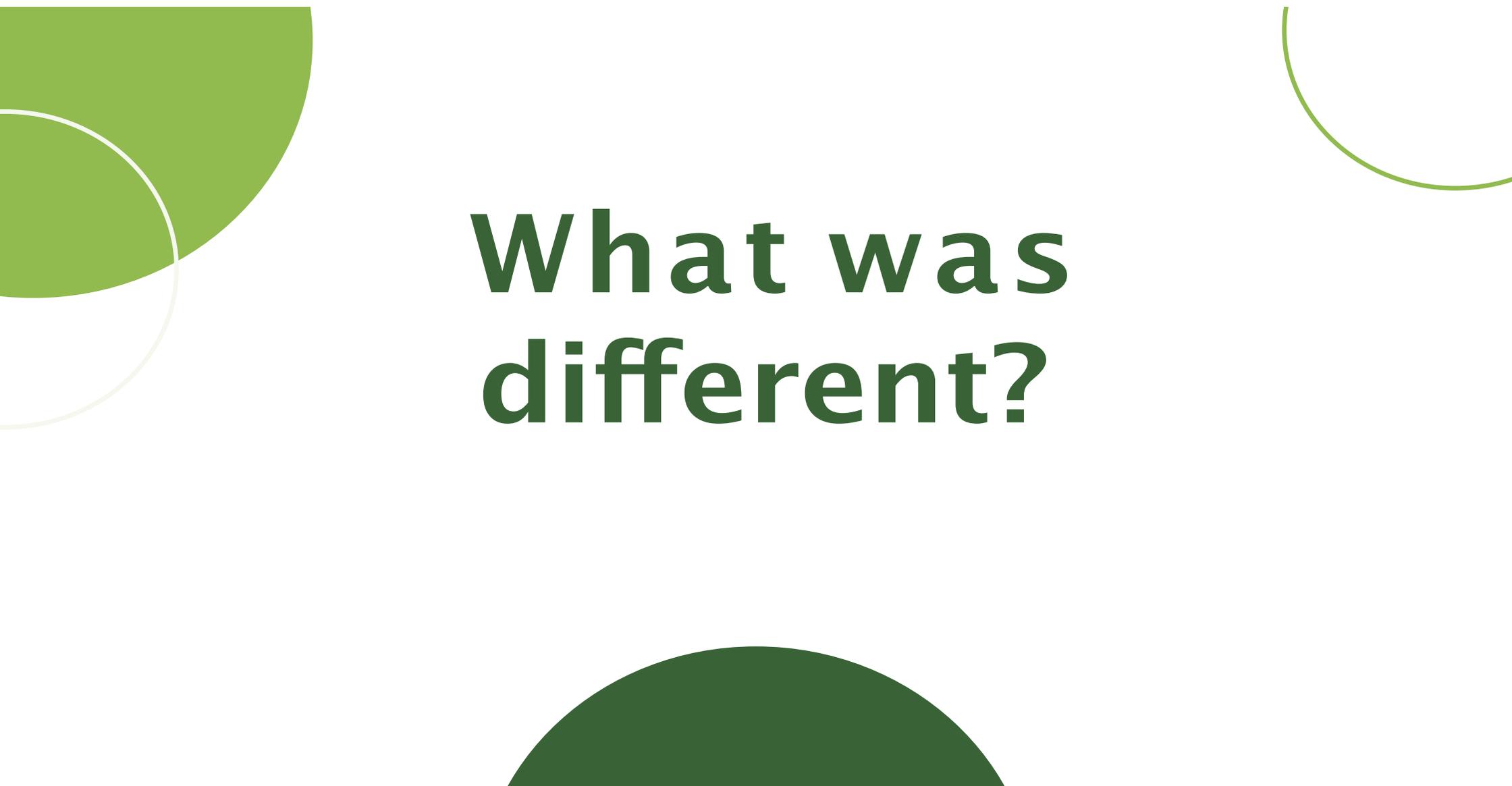
2022-2024 - more than 35 employees and
unemployed



For YOUTH

Carpentry and woodworking

03.2024-05.2024 - 60 youth



**What was
different?**

Involved construction companies which promoted:



Energy
efficiency



Passive
house
(net-zero)



Renewable
energy



Thermal
insulation



Interaction
with business
environment



Natural material
of construction

Lafarge Moldova



Promoting green concret

Utilization of Eco-friendly Materials, Waste, and Sustainable Methods in Construction and Energy Efficiency



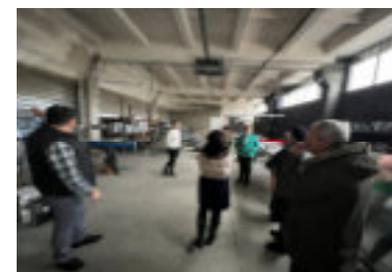
Renastere Rurală

Promoting industrial hemp and built the first guesthouse from this material



Atrea Moldova

Promoting heat recovery ventilation



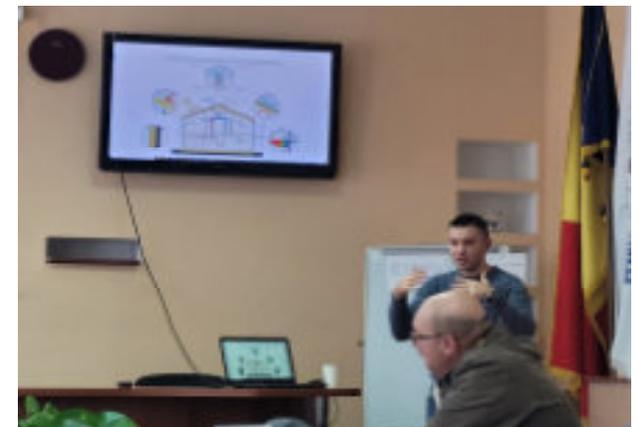
Scandinavian Smart House

Promoting the modular building wooden houses



Premium house

Design of Passive Houses, NZEB, and Low-E



What is the next?

Developing new green occupation

Developing new training courses about:



Concept
of
passive
houses



Modular
building
wooden
houses



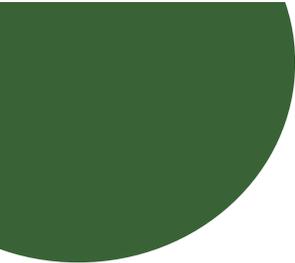
Geother
mal heat
pumps



Building
Restoration



New
online
training
courses



Thank You

Do you have any questions?

liliazestrea.cec@gmail.com, +373 79770068 | www.ccc.md

<https://www.linkedin.com/in/lilia-zestrea/>

