



CENTRAL & EASTERN EUROPEAN
ENERGY EFFICIENCY FORUM

13–16 JUNE 2018

SEROCK, POLAND



RENOVATION PROGRAMMES & STRATEGIES

Energy renovation of multi-apartment buildings – Trends in Croatia

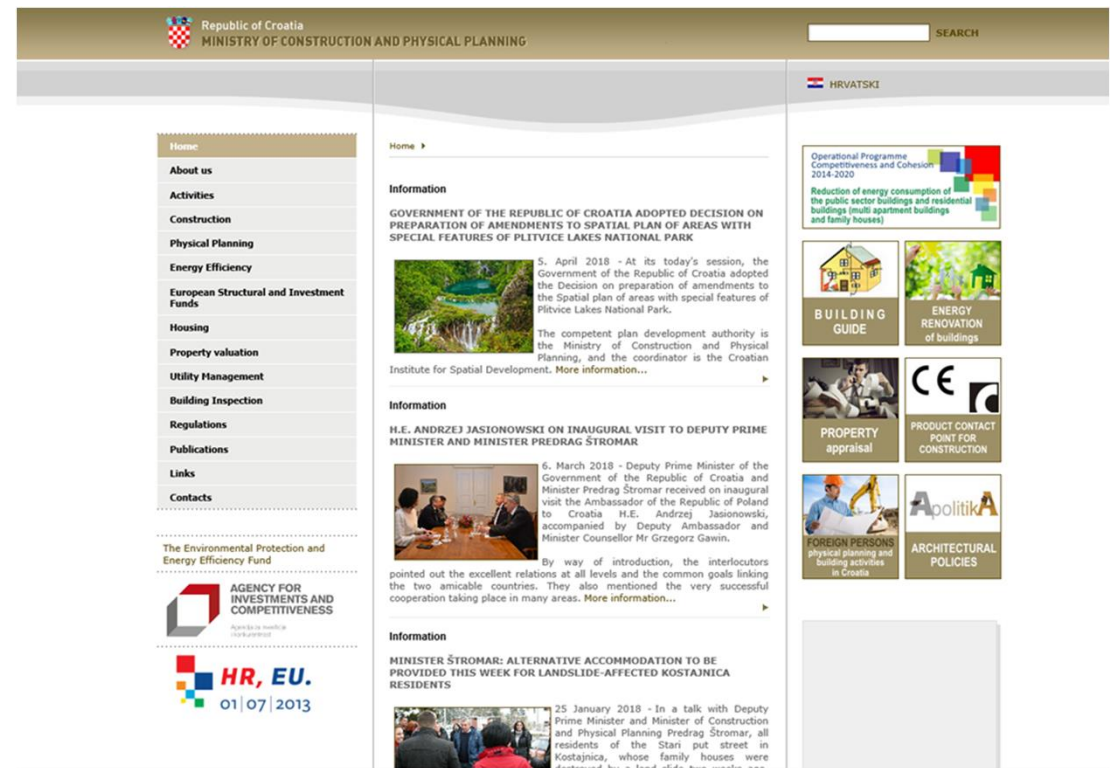
Irena Križ Šelendić | Ministry of Construction and Physical Planning | Croatia

Serock, 14.6.2018.

About us

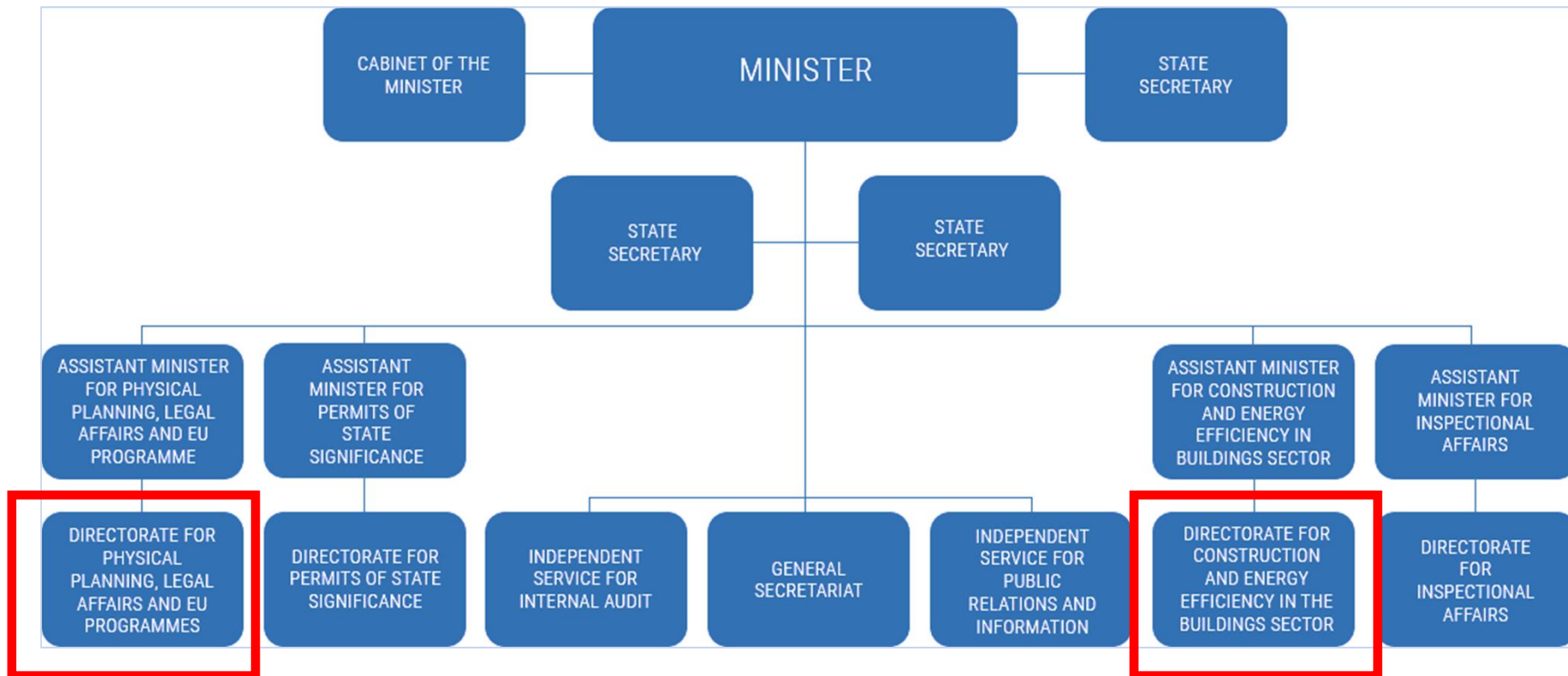
Republic of Croatia Ministry of Construction and Physical Planning

- Performs administrative and other tasks related to construction, physical planning and housing
- Participates in the development and implementation of programmes from European Union funds and other forms of international assistance in these fields
- Responsible for energy efficiency in the buildings sector

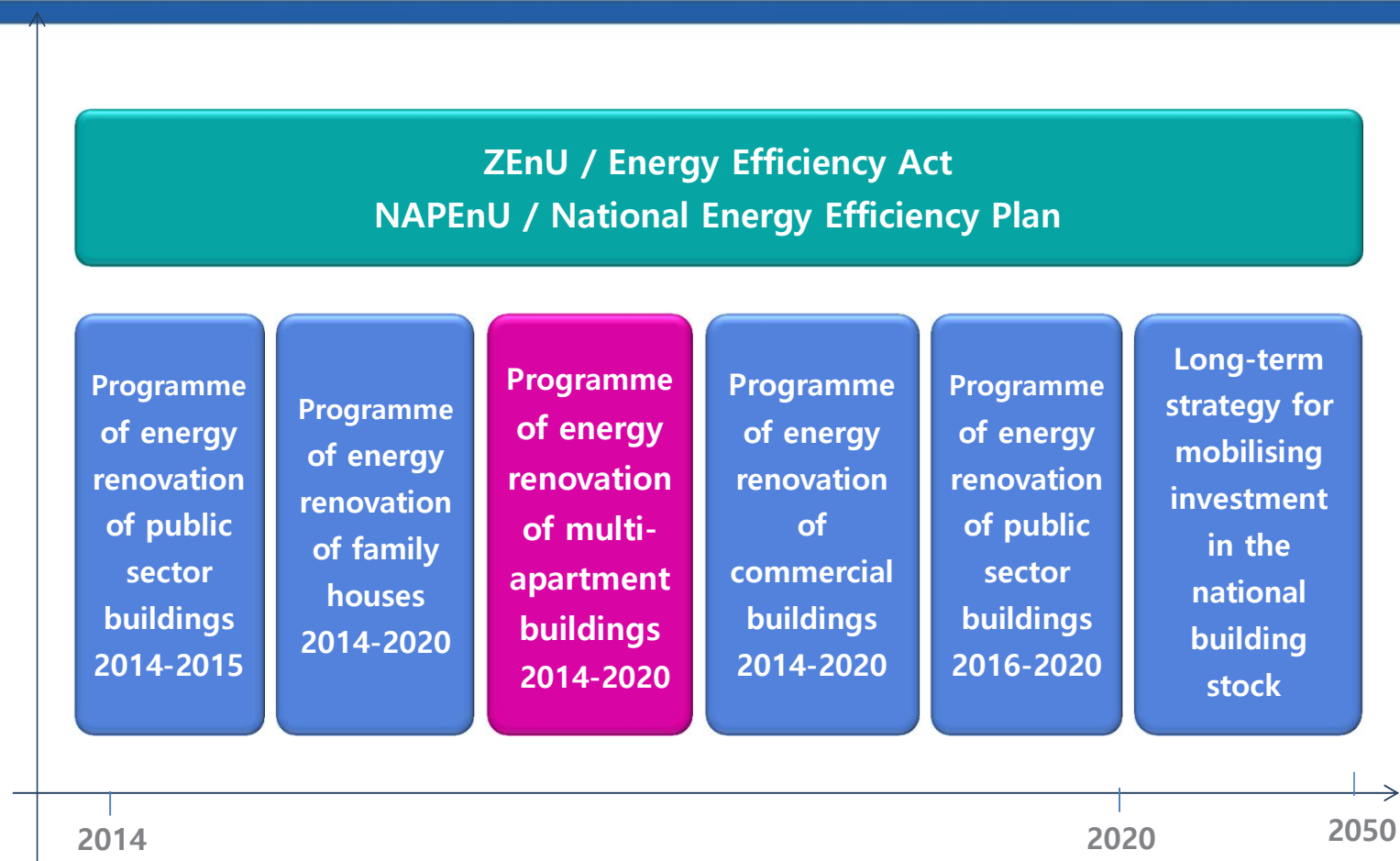


www.mgipu.hr

MCPP – energy efficient refurbishment

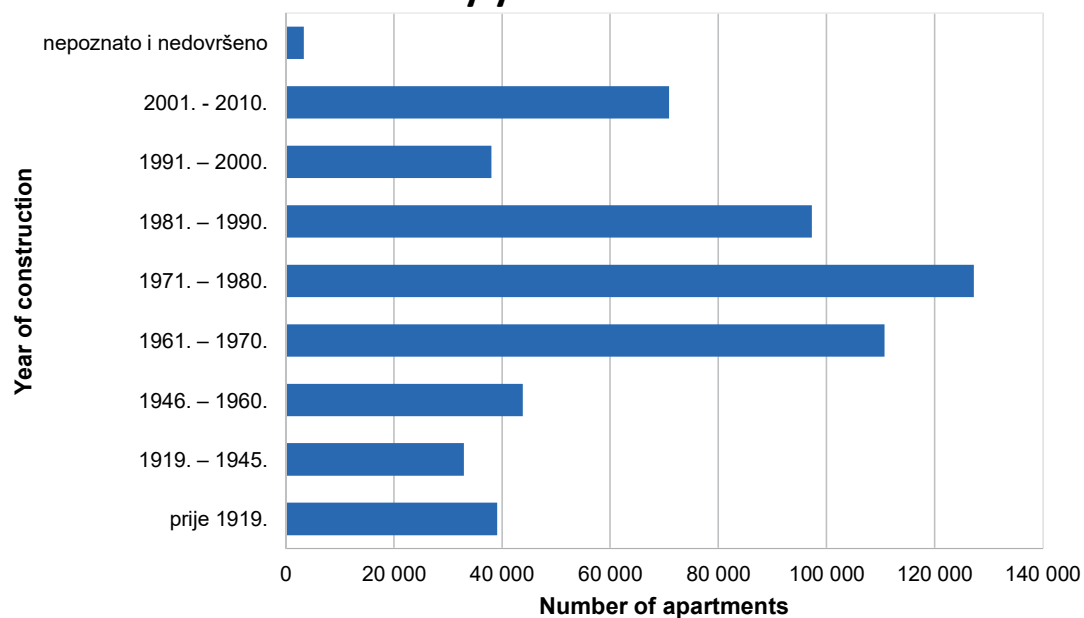


National Programmes of energy renovation of buildings in the Republic of Croatia

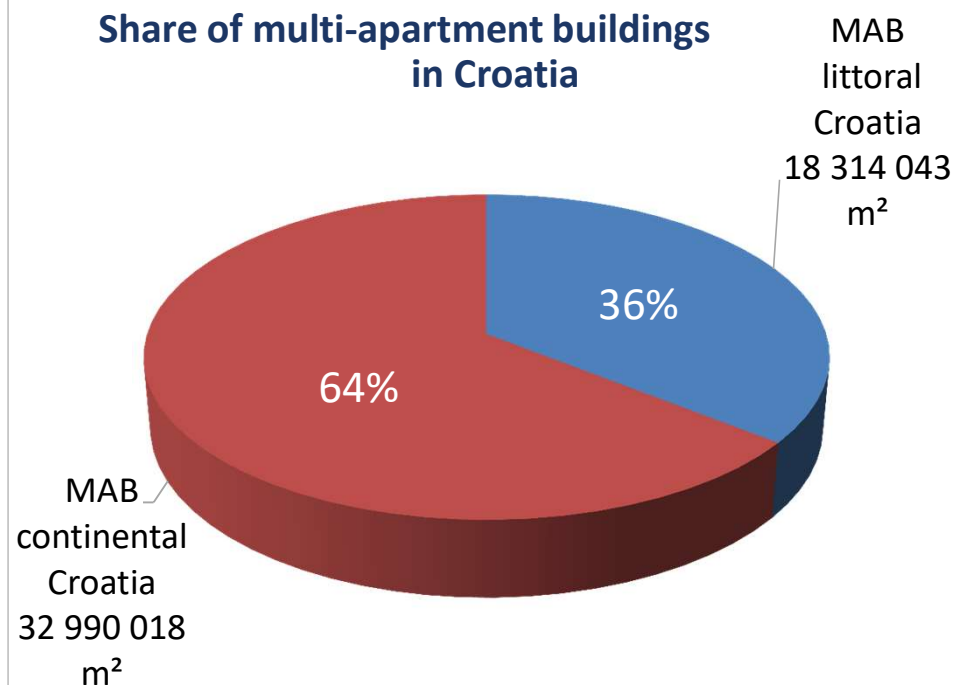


Apartments in Croatia, statistical data

**Number of apartments in multi-apartment buildings
by year of construction**



**Share of multi-apartment buildings
in Croatia**



Energy renovation of MAB 2014-2016

Programme of energy renovation of multi-apartment buildings 2014-2020 [HR financing](#)

- National co-financing (ECO fond) by grants 40-80% started in 2014.
- In 3 years : insured 268 mil KN/27 mil. € - for 257 multi-apartment buildings
- Total value 461 mil. KN /62,3 mil. €
- **To facilitate the renovation of MAB it was necessary to adopt new legal provisions !**
- **Now approval requires a simple majority (51%) of residents** (whereas previously such decisions needed to be unanimous)

[What was co-financed:](#)

- ✓ Energy audit and energy performance certificate (co-financed 40,60,80%)
- ✓ Project documentation for energy reconstruction of the building (100%)
- ✓ Energy reconstruction of buildings (co-financed 40,60,80%)
- ✓ Installation of devices for individual measurement (co-financed 40,60,80%)

[Requirement:](#) Minimum 30% savings in heating energy - Q_{Hnd}

Operational programme competitiveness and cohesion

CONNECTION OF OPCC WITH ENERGY RENOVATION OF BUILDINGS

ALLOCATION

<p>PA 4</p> <p>Promoting energy efficiency and renewable energy sources</p>	<p>531.810.805 EUR</p>
<p>IP 4c</p> <p>Supporting energy efficiency, smart energy management and renewable energy use in public infrastructure, including in public buildings, and in the housing sector</p>	<p>411.810.805 EUR</p>
<p>SO 4c1</p> <p>Reduction of energy consumption of public sector buildings</p>	<p>211.810.805 EUR</p>
<p>SO 4c2</p> <p>Reduction of energy consumption of residential buildings (multi apartment buildings and family houses)</p>	<p>100.000.000 EUR</p>



6,881 bil EUR

Transition to EU financing

SO 4c2 – residential buildings

Total EFRD allocation for SO 4c2: 100.000.000 EUR

RESIDENTIAL BUILDINGS

Amendments to Regulation
(EU) No 1303/2013 of the
European Parliament and
Council of 17 December 2013
and
SIMPLIFICATION OF
PROCEDURES

FH - FAMILY HOUSES

228.000.000 HRK (30M €)

INDICATIVE DISTRIBUTION
70% MAB - 30% FH

CALL 4c2.2.

LAUNCHED 17.10.2016
CLOSED 31.1.2017

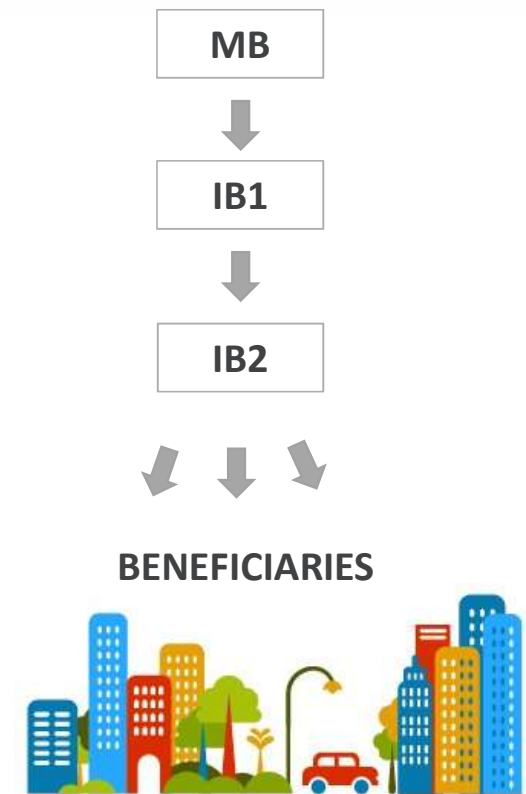
**MAB – MULTI-APARTMENT
BUILDINGS**

532.000.000 HRK (70M €)

Institutional organisation - Institutions work together!

FUNCTIONS OF BODIES UNDER THE OPCC MANAGEMENT AND CONTROL SYSTEM

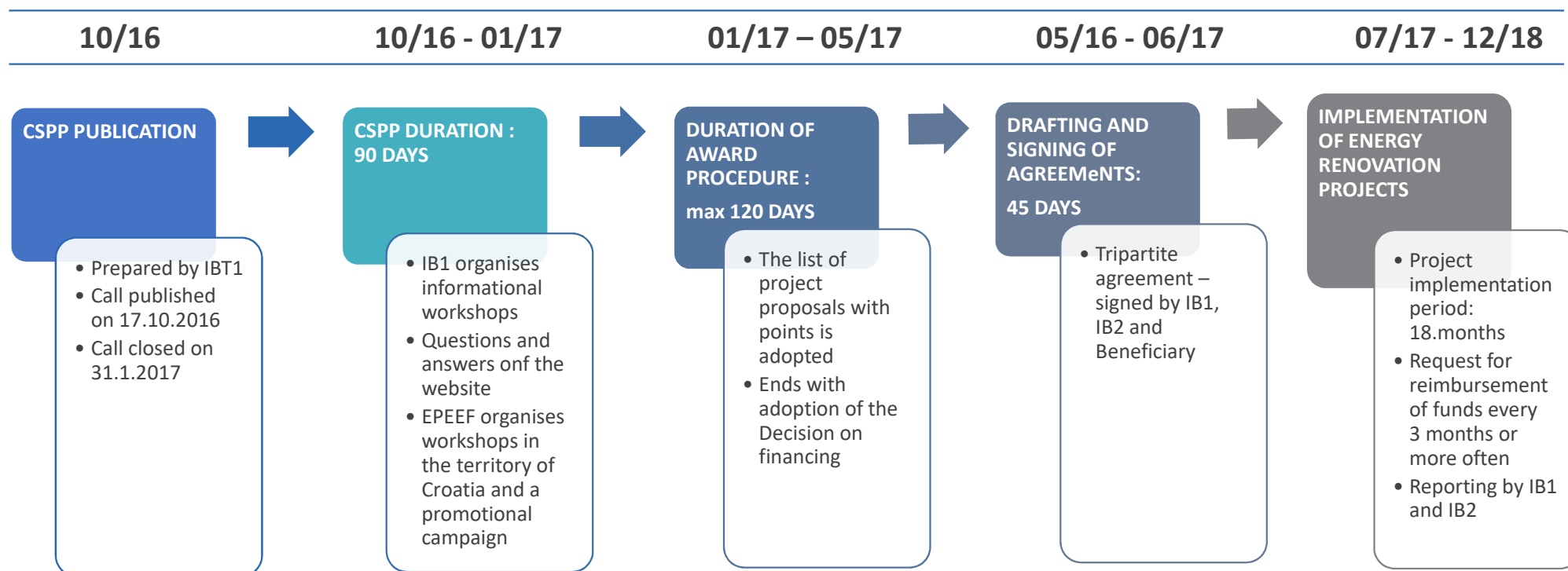
MANAGEMENT BODY MB	INTERMEDIATE BODY LEVEL 1 IB1	INTERMEDIATE BODY LEVEL 2 IB2
<ul style="list-style-type: none">• Manages and is responsible for overall OPCC implementation	<ul style="list-style-type: none">• Plans funds• Prepares tender documents• Participates in project selection• Participates in payments	<ul style="list-style-type: none">• Participates in preparation of tender documents• Participates in project selection• Cooperates with beneficiary• Verifies fulfilment of contractual obligations
Ministry of Regional Development and EU Funds	Ministry of Construction and Physical Planning	Environmental Protection and Energy Efficiency Fund
		<ul style="list-style-type: none">• Support to Beneficiaries• project visibility and promotion of the call



CALL 4c2.2 – illustrative review of CSPP implementation

CSPP – Call for submission of project proposals

Energy renovation of multi-apartment buildings – Open procedure of grant awards in the modality of repeated temporary calls



CALL 4c2.2. – grant amount

Grant amount for eligible expenditures :

- Minimum amount 100.000,00 kuna
- Maximum amount 13.000.000,00 kuna



ACTIVITY	CO-FINANCING RATE	MAXIMUM IGRANT AMOUNT
Energy audit and energy certificate, before and after renovation	85%	Maximum grant amount is 7 kn/m ² of gross surface area, with a maximum of 30.000,00 kuna
Main design of energy renovation (studies, if applicable)	85%	Maximum grant amount is 25 kn/m ² of gross surface area, with a maximum of 200.000,00 kuna
Implementation of energy efficiency measures and use of renewable energy sources and horizontal measures	60%	Maximum grant amount is 600 kn/m ² of gross surface area, with a maximum of 12.600.000,00 kuna
Professional supervision of construction / designer supervision / coordinator of occupational safety	60%	The maximum grant amount may not exceed 5% of the total value of works, with a maximum of 150.000,00 kuna
Project management and administration	85%	The maximum grant amount is 170 kuna per hour (gross amount iznos), with a maximum of 7.650,00 kuna

CALL 4c2.2. – applicants

Eligible applicant (beneficiary):

Authorised representative of building co-owners (co-owner representative)

or

building manager on behalf and for account of co-owners of the multi-apartment building



Multi-apartment building:

①

building in which at least 66% of useful floor area of the building is used for housing

②

which has three or more housing units

③

which is administered by the building manager

④

which constitutes a unique architectural whole – a constructional, functional and shape-related whole consisting of one or more dilatations.

CALL 4c2.2. – eligible activities

ENERGY AUDIT OF THE BUILDING, REPORT ON THE ENERGY AUDIT AND ENERGY CERTIFICATE

DESIGN DOCUMENTATION - MAIN DESIGN

RENOVATION OF THE BUILDING ENVLOPE

INSTALLATION OF NEW HIGH-EFFICIENT HEATING SYSTEM

REPLACEMENT OF THE EXISTING SANITARY WATER HEATING SYSTEM WITH A SYSTEM USING RES

REPLACEMENT OF INTERNAL LIGHTING OF COMMON PREMISES BY A MORE EFFICIENT ONE

INTRODUCTION OF A SYSTEM OF BUILDING AUTOMATISATION AND MANAGEMENT

PROMOTION OF RENEWABLE ENERGY SOURCES USE

PROFESSIONAL SUPERVISION OF CONSTRUCTION

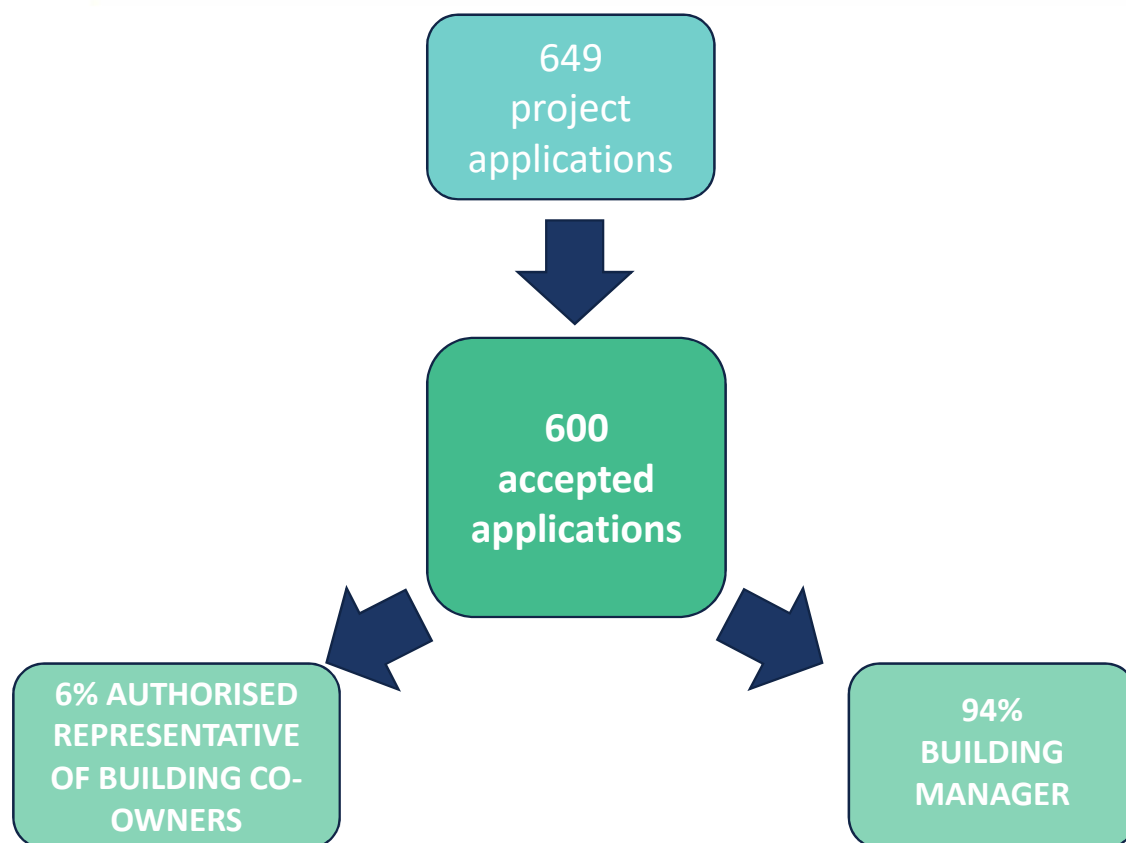
DESIGNER SUPERVISION

SERVICE OF THE COORDINATOR FOR OCCUPATIONAL SAFETY

IMPLEMENTATION OF ACCESSIBILITY ELEMENTS FOR PERSONS WITH DISABILITIES

PROJECT MANAGEMENT AND ADMINISTRATION

CALL 4c2.2. – project applications



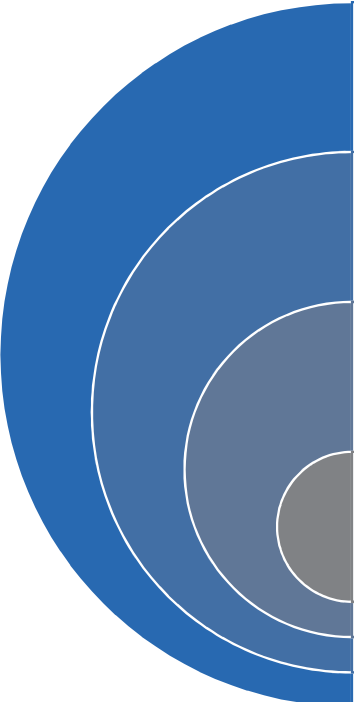
92% acceptance



ENVIRONMENTAL PROTECTION
AND ENERGY EFFICIENCY FUND



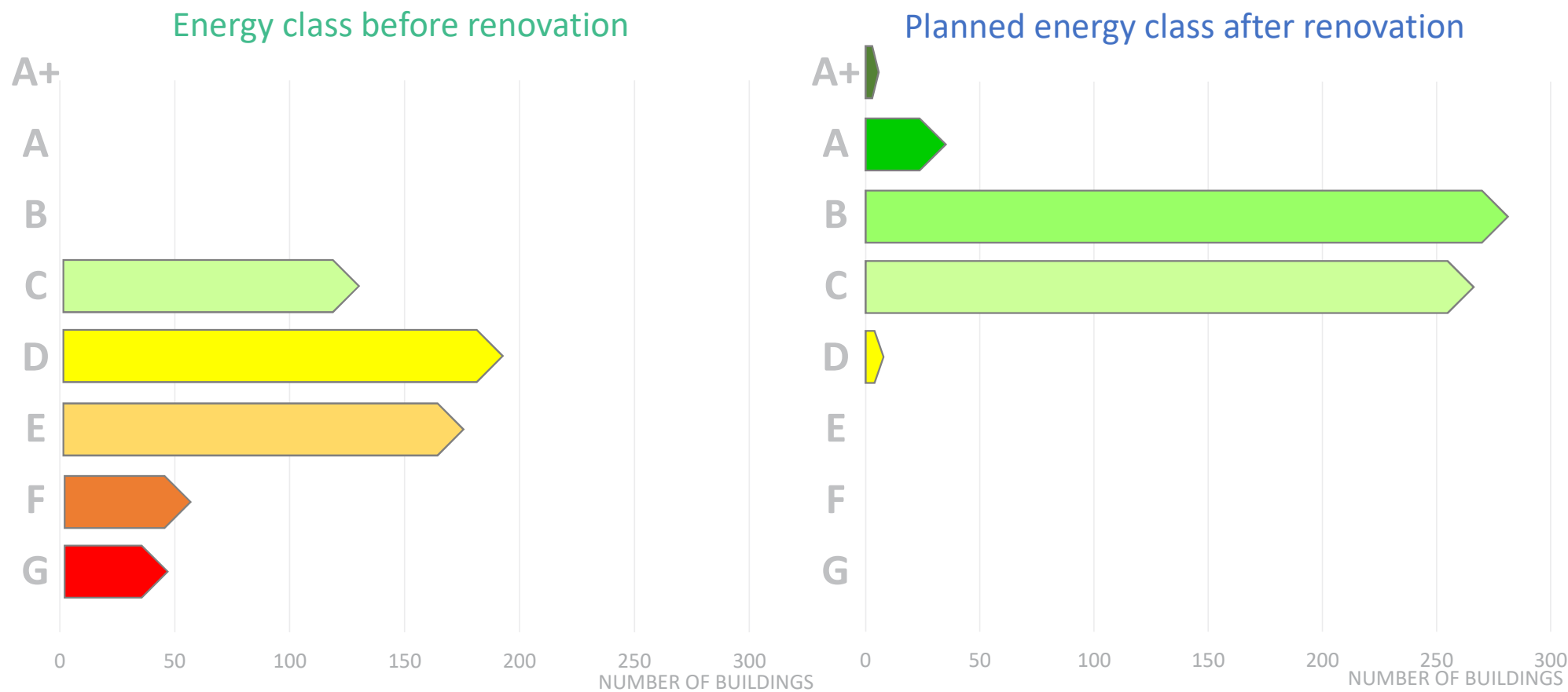
CALL 4c2.2. – results of call



NUMBER OF AGREEMENTS	• 576
CO-FINANCING RATE	• 60-85%
GRANTS	• 547.789.668,46
AVERAGE ENERGY SAVING	• 66%

Works have begun on **85** buildings,
and were completed on **5** buildings.

CALL 4c2.2. – energy class



Good practice example

CALL 4c2.2. –SJENJAK 101, OSIJEK

first multi-ap building under renovation!



PROJECT:

**Energy renovation multi-apartment building
Sjenjak 101, Osijek**

User:

K.I. - Representative co-owners

Total project value:

5.812.751,69 kn

Contracted Grants:

3.398.223,96 kn

Co-financing rate: 60%

Number of apartment units: 133

Year of construction: 1979.

building area: 11.636,46 m²

Energy class before renovation: D

POZIV 4c2.2. – VSZ SJENJAK 101, OSIJEK

planned energy class: B

projected savings 68 %



AVERAGE REQUIRED HEATING ENERGY
[kWh/m²]:

STARTING VALUE	ACHIEVED VALUE	CONTRIBUTI ON
114,05	35,90	78,15



LESSONS LEARNT & RECOMMENDATIONS

- ✓ **Well-established strategic and legislative framework**
- ✓ **Detecting legislative barriers and their removal**
- ✓ **High co-financing rate**
- ✓ **Permanent communication with users, fieldwork**
(workshops at the ministry were held every week + the country tour of the ministry and the fund)
- ✓ **Free Customer Service - Technical Assistance by the Fund**
(complete review of the documentation before submitting the tender - statement - large number of accepted entries)
- ✓ **Teamwork of all involved institutions and beneficiaries**



Republic of Croatia took over the Presidency of
the Central European Initiative (CEI).
from 1 January to 31 December 2018.

The Ministry of Construction and Physical Planning organizes a professional conference:
„Energy Efficiency in Buildings - for Better Tomorrow "- **September 26 and 27, 2018**

Save the date!

Thank you for your attention !



Irena Križ Šelendić M.C.E.
Head of Sector for energy efficiency in buildings
Directorate for construction and energy
efficiency in the building sector
Ministry of Construction and Physical Planning
Zagreb, Croatia
Web: www.mgipu.hr
Email: irena.kriz.selendic@mgipu.hr