



CONCERTED ACTION  
ENERGY EFFICIENCY  
DIRECTIVE

# Future EPC developments: Horizon 2020 projects EPC+, GuarantEE, QualitEE

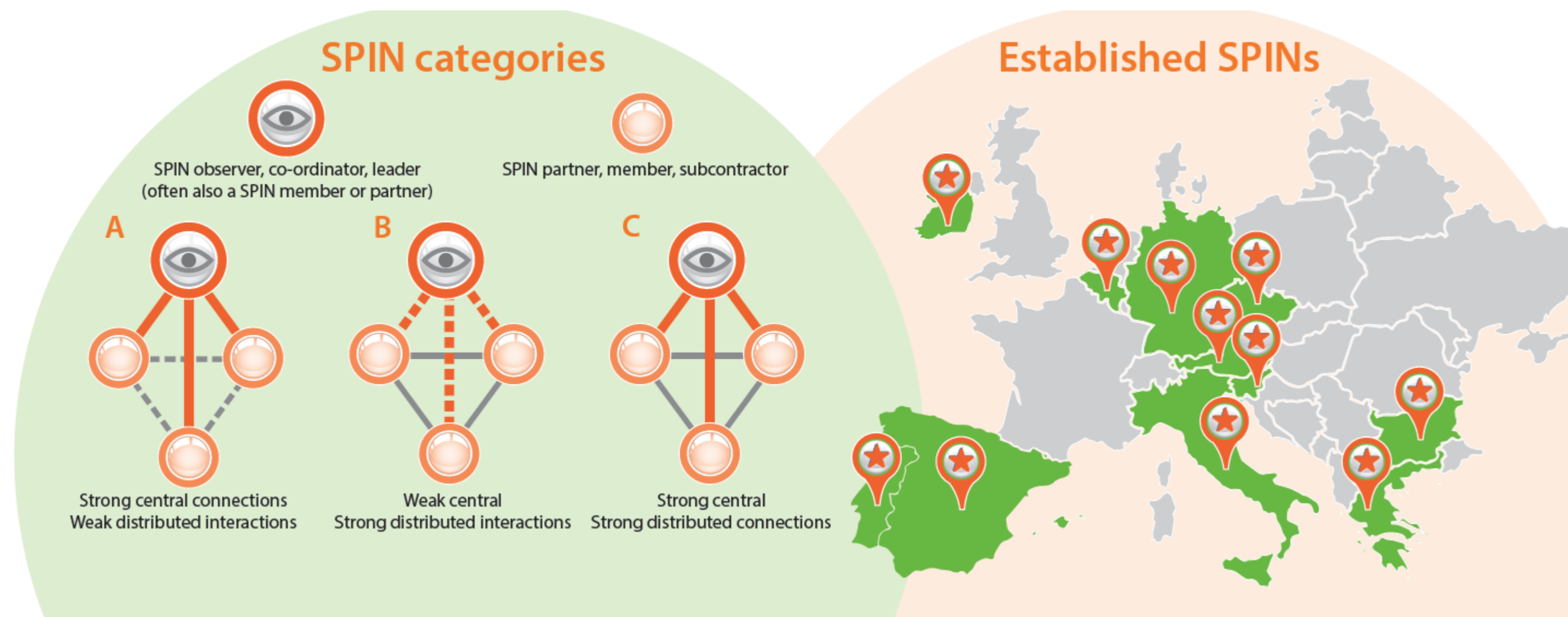
Damir Staničić  
Jožef Stefan Institute, Energy Efficiency Centre

CA EED Study Visit: Energy Performance Contracting in Slovenia

Ljubljana, 8. November 2018

# The Energy Performance Contracting Plus (EPC+)

(2015-2018) <http://epcplus.org/>



**(A) Simple SPIN** is a formal organisation with one leading partner, referred to as the “principal” and partners, referred to as the “associates”, but without (much) interactions between these associates.

**(B) Complex SPIN** is a more informal, self-organising, network of several SMEs, referred to as the “members”. One actor, referred to as the “coordinator” in the SPIN takes the initiative to facilitate and strengthen interactions in the network. This kind of organisation is a complex adaptive structure.

- Standardized energy performance measures with simplified measurement and verification procedures
- Elaboration of simplified EPC model contracts and financing solutions

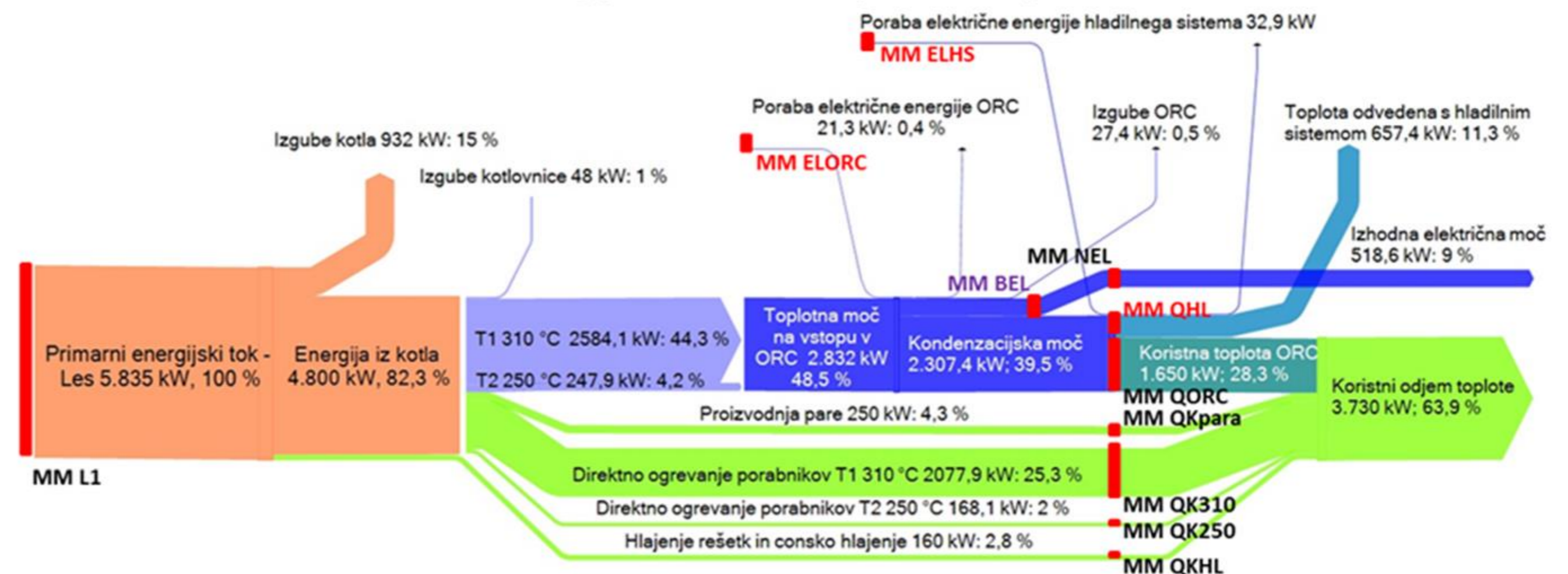
**(C) Complicated SPIN** is a formal collaborative network of SMEs with strong connection strengths between all parties, referred to as “partners”, and a collective central control. Responsibilities and tasks are split and allocated to the different partners in the SPIN.

# EPC+ Project Best Practice: Upgraded energy management in wood processing plant

COUNTRY:	Slovenia
MEASURES:	Design of Energy Performance Indicators (EnPIs) and provision of energy efficiency consultancy build on continuous monitoring and targeting (M&T) analysis of the EnPIs
INVESTMENT:	74,800 EUR (Energy Information System)
EPC CONTRACT:	< 10,000 EUR/year
ENERGY SAVINGS:	<ul style="list-style-type: none"> <li>• 207 MWh<sub>electricity</sub>/year</li> <li>• 529 MWh<sub>thermal</sub>/year</li> </ul>
PAYBACK PERIOD:	4.6 years
CO <sub>2</sub> SAVINGS:	109.5 tons/year
CONTACT:	ENEKOM, Inštitut za energetska svetovanje



## Določitev merilnih mest in energijske bilance Soproizvodnja ORC ESOL\*



## Energy Efficiency with Performance Guarantees in the Private and Public Sector

guarantEE

Contract number: Horizon2020 696040  
Project duration: April 2016 – March 2019

<https://guarantee-project.eu/>



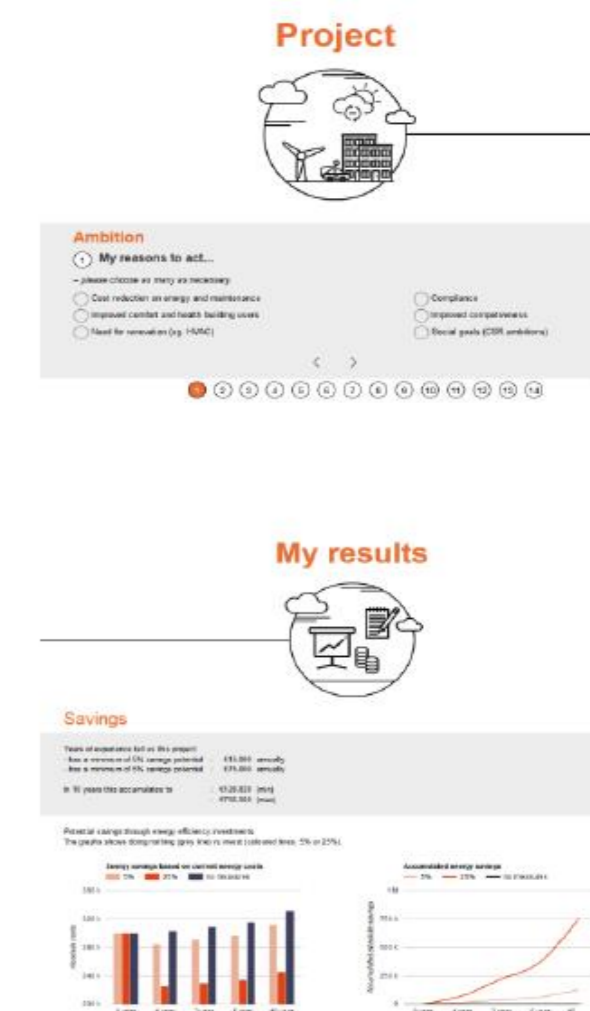
This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 696040.

[www.guarantEE-project.eu](http://www.guarantEE-project.eu)

guarantEE   
Building Energy Services in Europe

### EPC online pre-check

- ▶ Easy to use online tool
- ▶ Good first indication, if EPC could be a suitable instrument
- ▶ Target group: building owners/managers
- ▶ Objectives:
  - ▶ promoting EPC
  - ▶ create a link to national EPC facilitators



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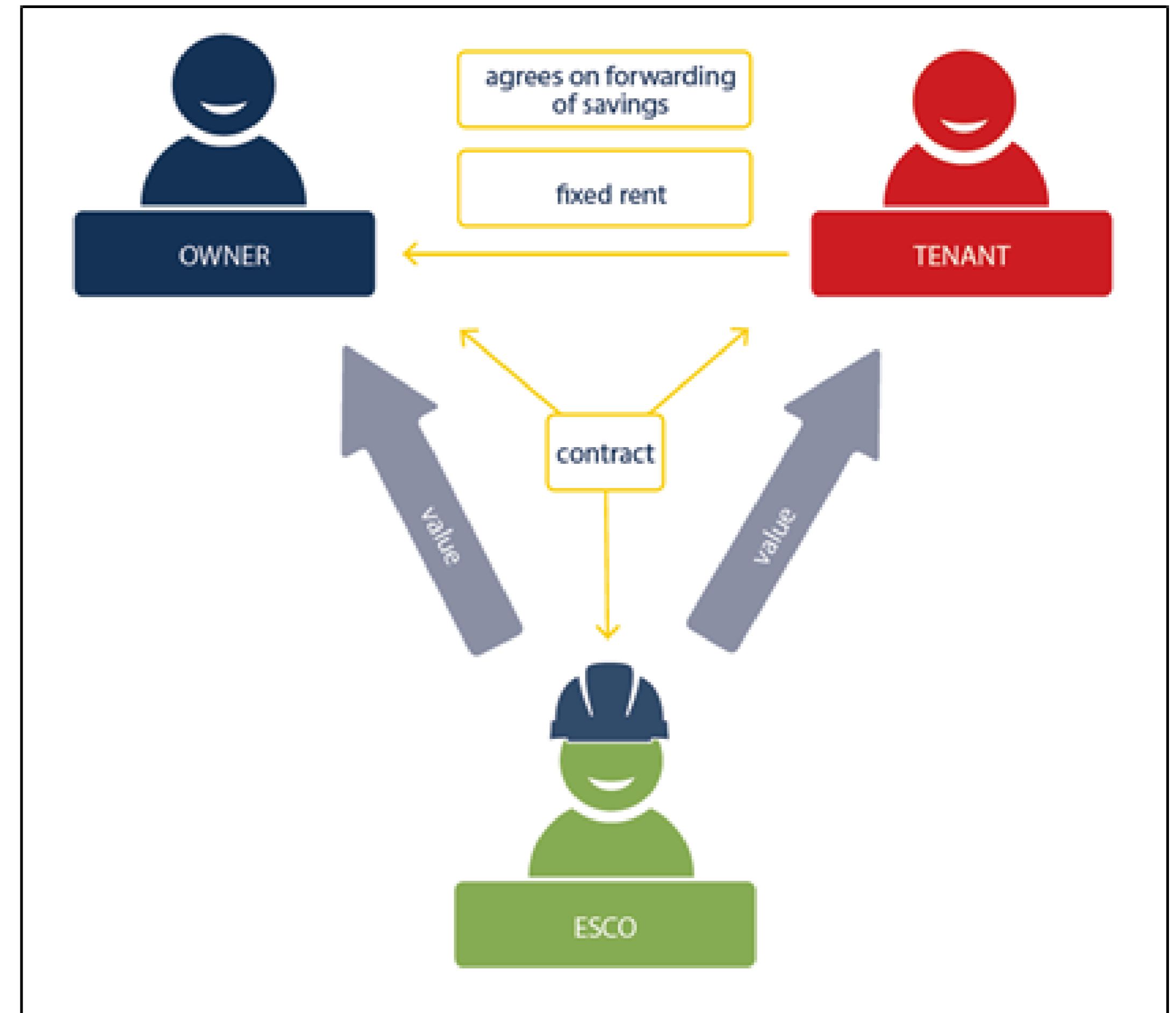
[www.guarantEE-project.eu](http://www.guarantEE-project.eu)



Energy Performance Contracting  
**Triple-Win-Solutions**  
for the Split-Incentive-Dilemma



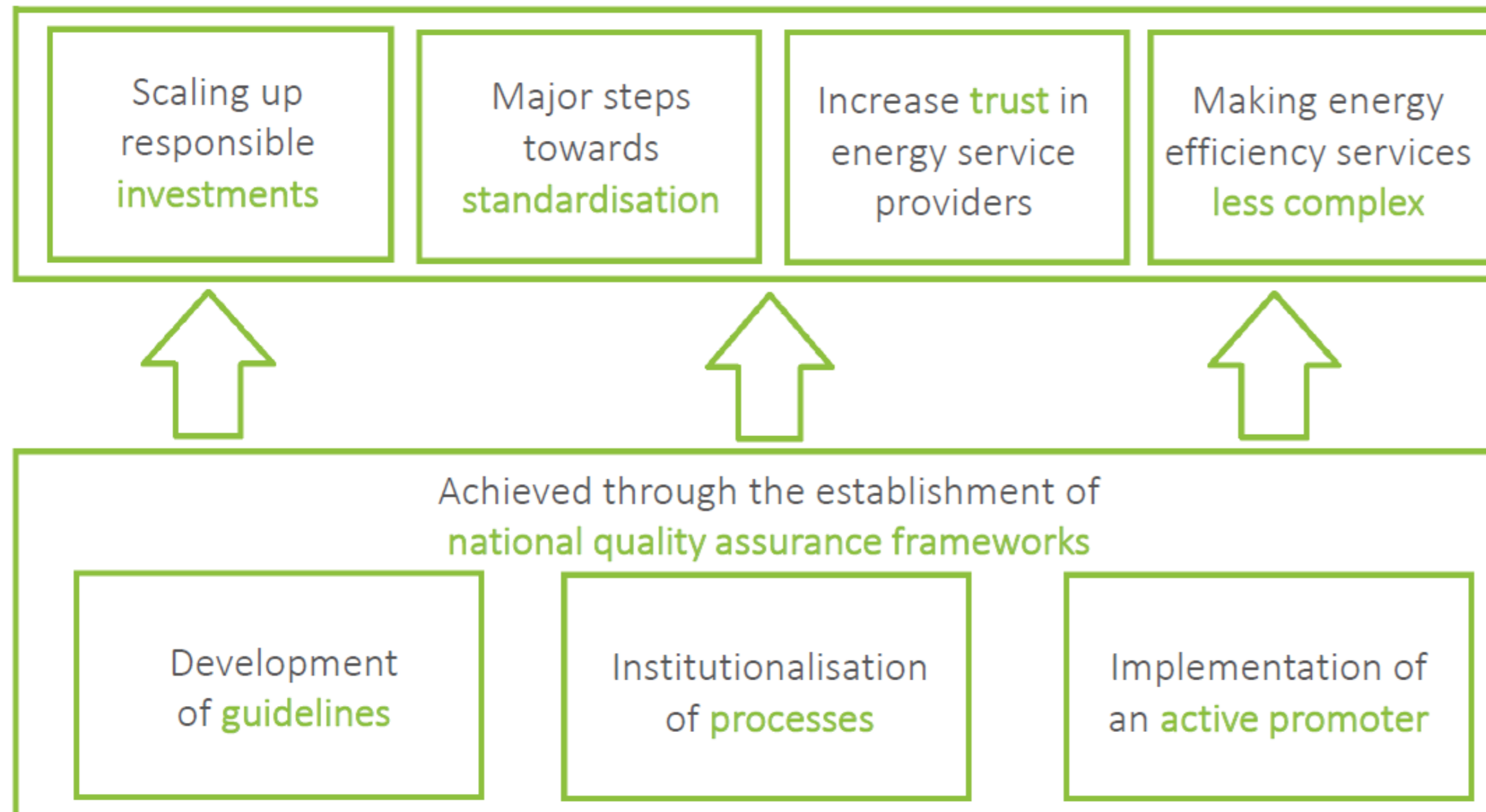
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CASE 1: Owner and tenant concluding an EPC-contract with an ESCO



## QualitEE Project Objectives



# QualitEE

Quality certification frameworks for Energy Efficiency services to scale up responsible investment in the building sector

<https://qualitee.eu/>

This project receives funding from the European Union's Horizon 2020 research and innovation programme.

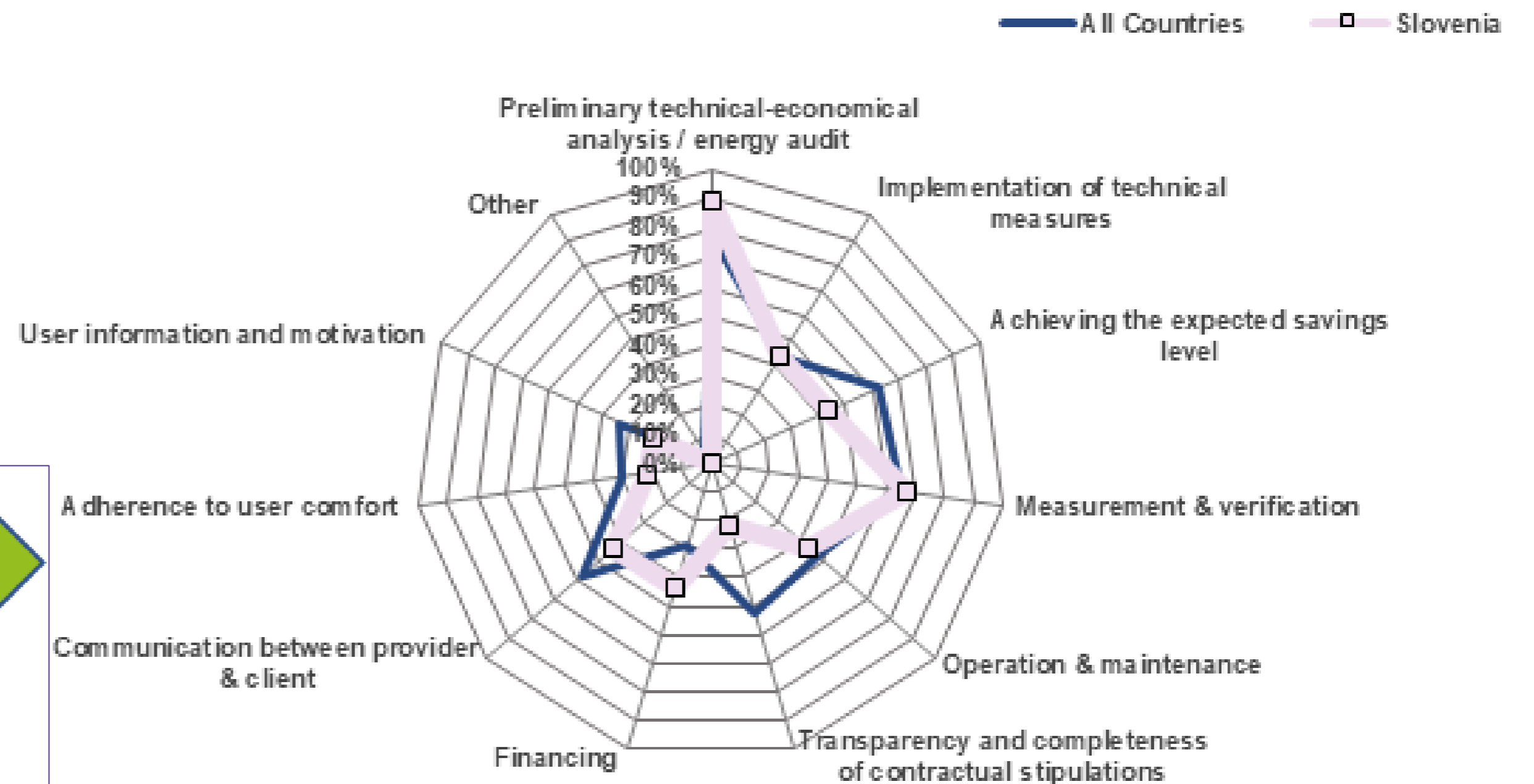


## 2017 - 2020



#### DESCRIPTION OF THE PROCESS

- The Ministry for Infrastructure (Mol) sets the QA scheme for deep energy renovation of buildings and delegates its implementation to the programme implementation unit (PIU)
- The Mol establishes QA Evaluators Team
- The Mol establishes a list of qualified EPC/EE providers
- The PIU establishes QA criteria and incorporates them in the public calls for tenders and standard contracts
- The PIU evaluates tenders and compliance with the QA criteria
- The QA Evaluators Team approves EPC/EE provider qualification
- After successful bid, the EE/EPC provider is labeled as "Qualified Provider"
- **The qualification is re-evaluated after 3 years**
- **If the EPC/EE provider does not meet the quality criteria, the Mol is allowed to revoke the provider's qualification**



#### The most important determinants of quality in EPC projects

# Thank you!

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