

The French observatory of EPCs



Concerted Action on EED, March 2018

1) General introduction to EPC practices in France

- Differences in terminology
- The main steps
- The importance of M&V

2) Focus on the French EPC Observatory

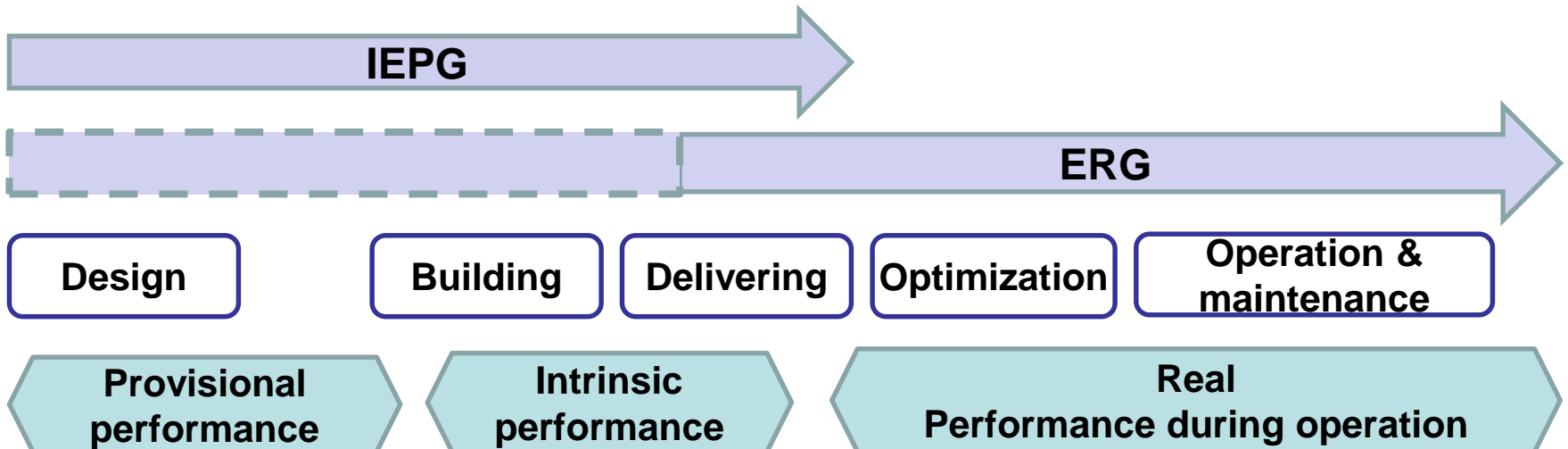
- Origin of the initiative & objectives
- A multiple steps implementation
- First results

The intrinsic energy performance guarantee (IEPG)

Scheme **guaranteeing a maximal level of energy consumption compared to a scenario** set by a contracting authority according to needs and parameters that can be different than hypotheses taken into account for regulatory calculations

The energy results guarantee (ERG)

Scheme **guaranteeing a maximal level of effective & measurable consumption**. The guarantee can cover the overall refurbishment phases or only a part of



Preparatory study

- Local strategy
- Energy audit
- Reference consumption
- Investment estimation
- Evaluation



Contracting

- Legal model selection
- Consultation & analysis
- Services provider selection
- Contracting

Works

- Design
- Work monitoring



Operation

Performance monitoring
(measure & verification)

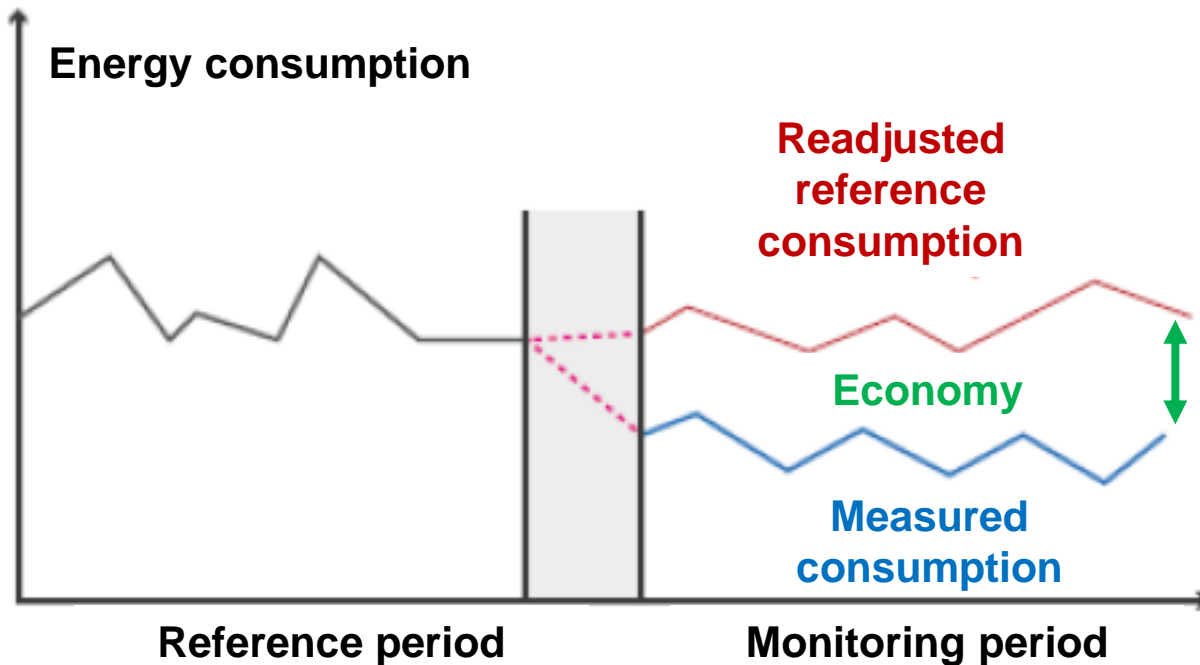


Project management a key role in the successful implement of EPC

Document preparation (energy audit, reference situation...)

Example of EE actions

- Behavior changes in use
- Works on building envelop
- Changes in hot water heating systems
- Ren promotion in efficient way



**What are the sources of energy reduction ?
 Energy perf. actions
 or external factors?**

Climate conditions,
 reduction in heating
 surface, low
 occupation rate...

For more information on tool & guide developed by ADEME and its partners to implement successful energy performance contracts:

www.ademe.fr/methodes-outils-garantie-resultats-energetiquesguaranteed
www.ademe.fr (focus on commissioning)



Focus on the French EPC observatory

An initiative led by 3 public stakeholders



The French agency for environment & energy management



The French center for expertise on risks, environment and mobility



The French building technical center

Objectives & main features

Data collection

- Centralized & reliable information
- Energy saving estimation
- Retours on experience collection

Inform the project ownership

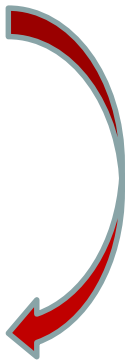


Training material

- Guide for implementation
- Examples sharing per types
- Information on contractual procedures

Mapping

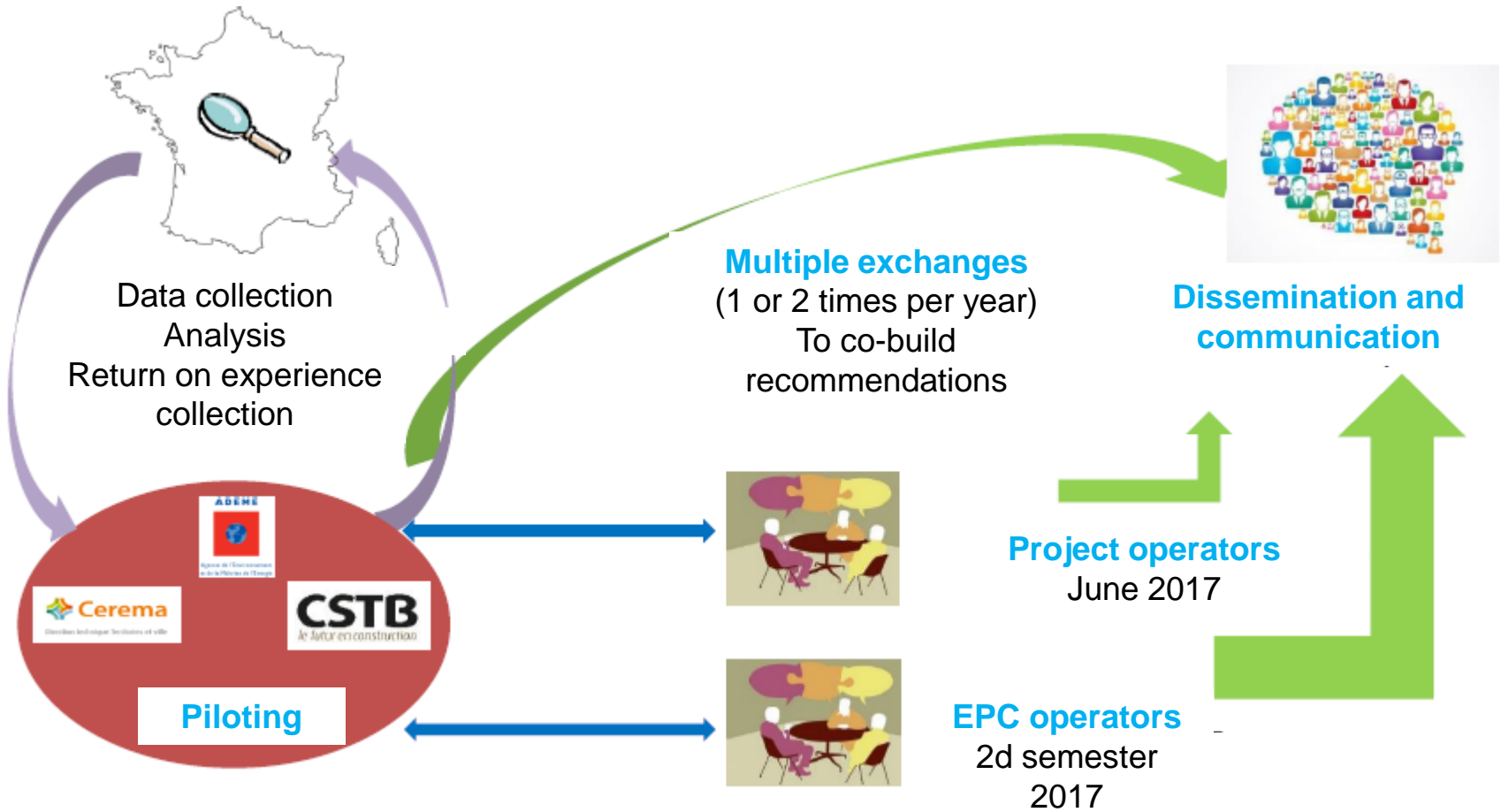
- Public/private
- Tertiary/Residential
- New building/Refurbishment
- Costs
- Actions implemented



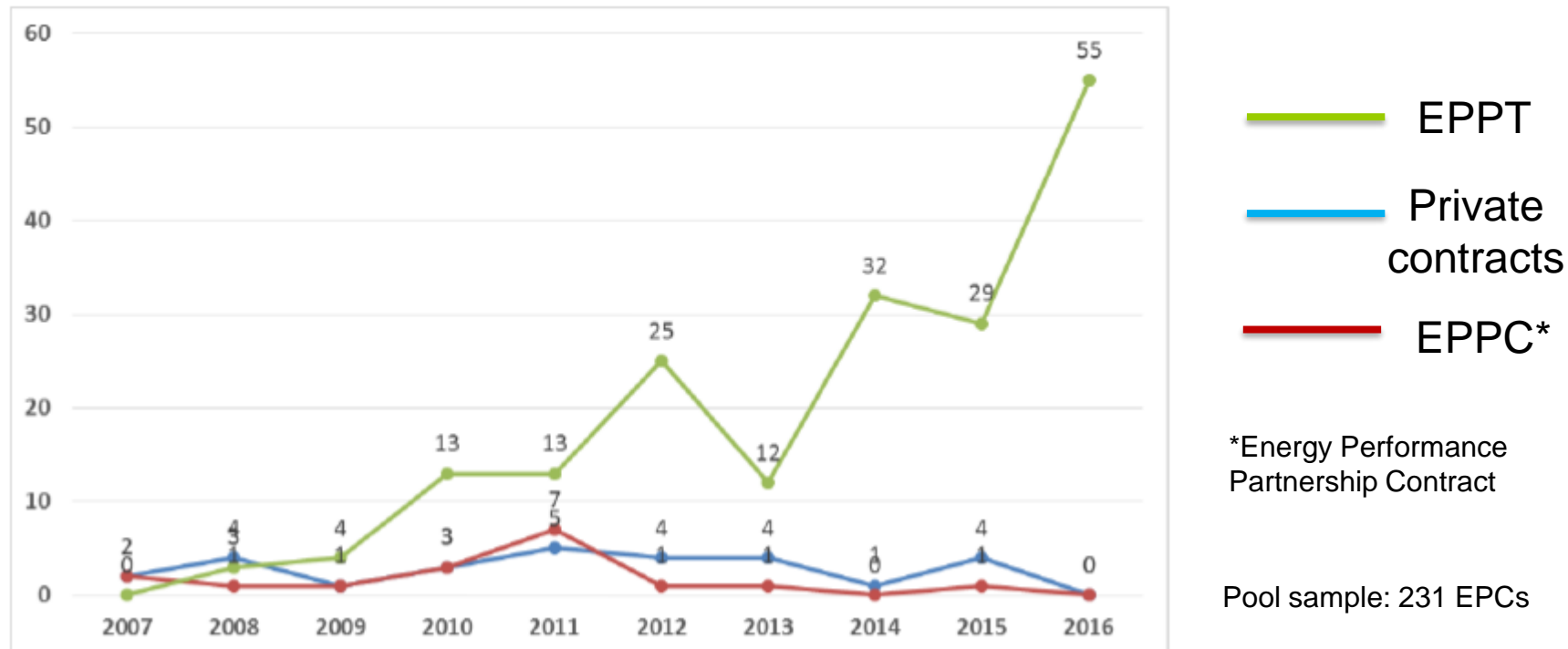
Guide public policies



A multiple steps implementation

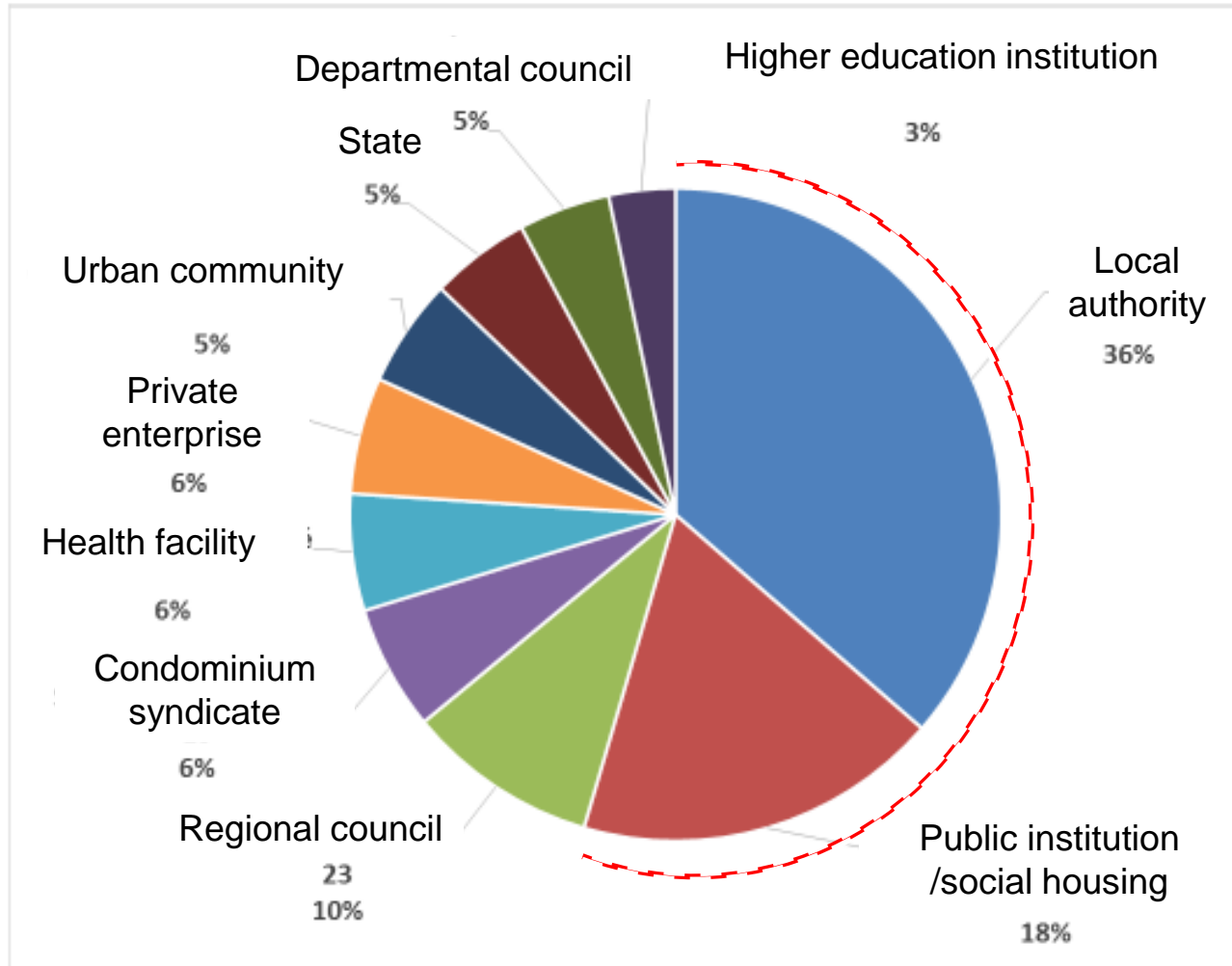


An increasing number of EPC covered by an EP public tender (EPPT) !



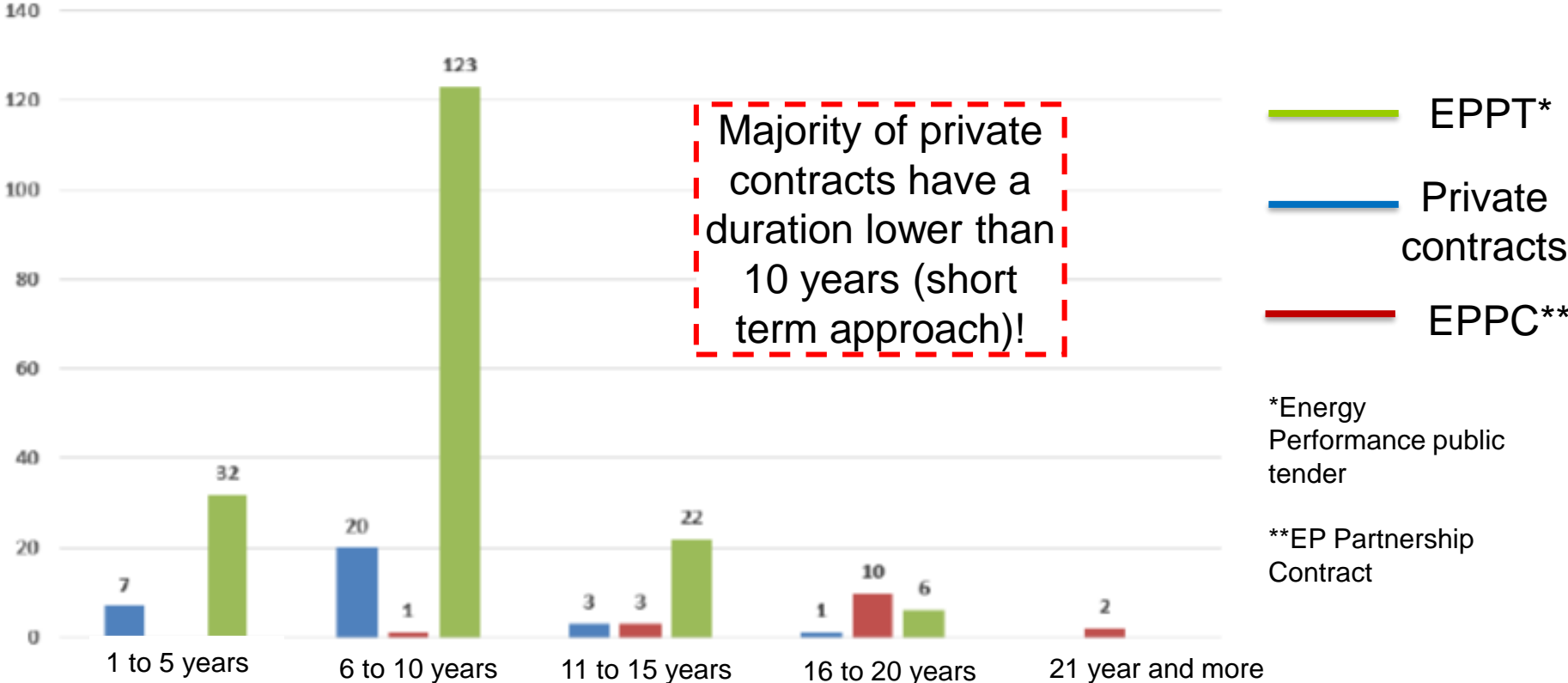
- EPC collected mainly from public procurement tenders results (→ 86% of the collected EPC regards public building)
- Analysis based on contractual data (not on operational phase + not necessary specific to building)
- Data collected by CSTB & CEREMA then consolidated by project holders

First results – distribution per beneficiary

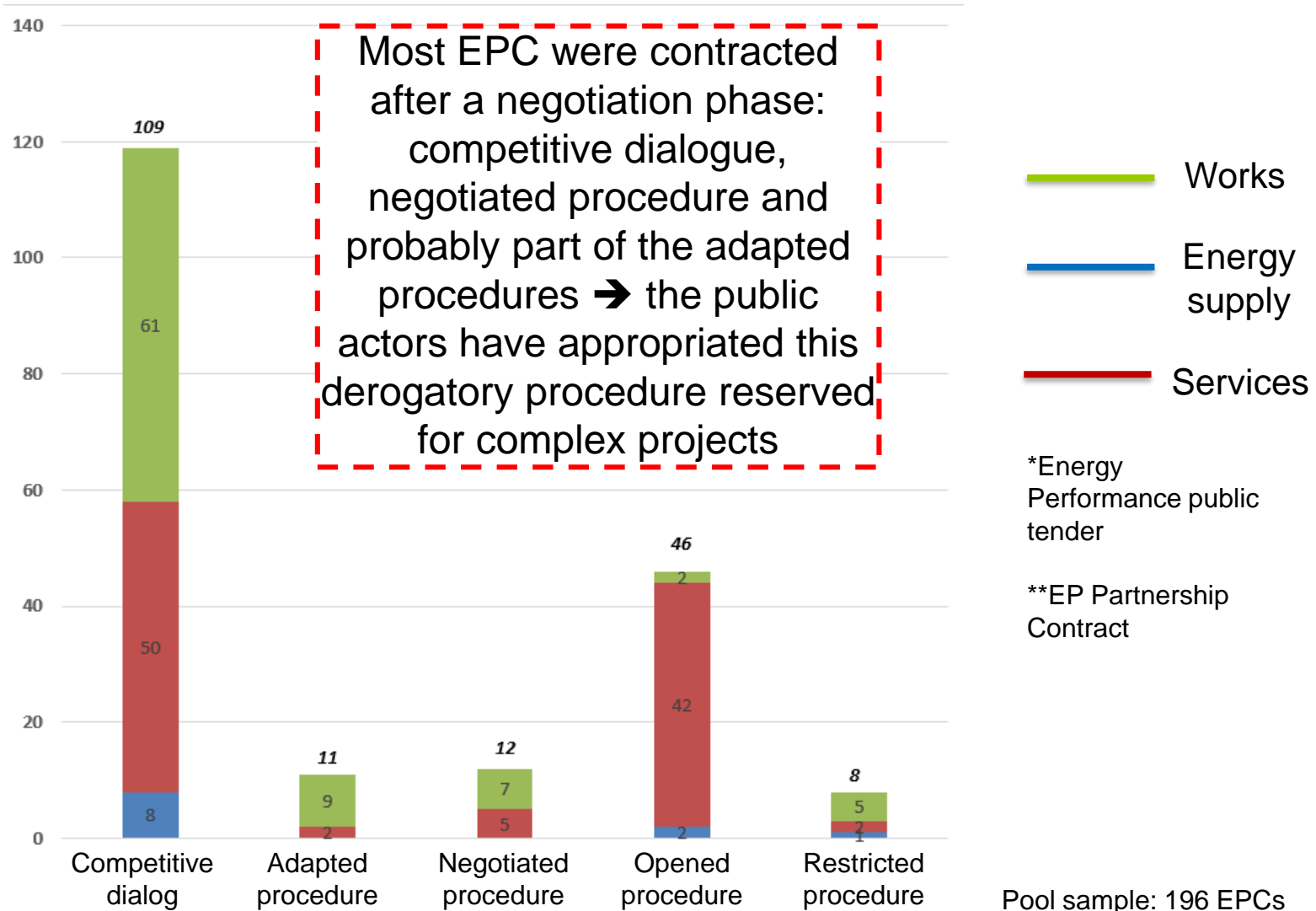


Majority of municipal assets, residential & education building !

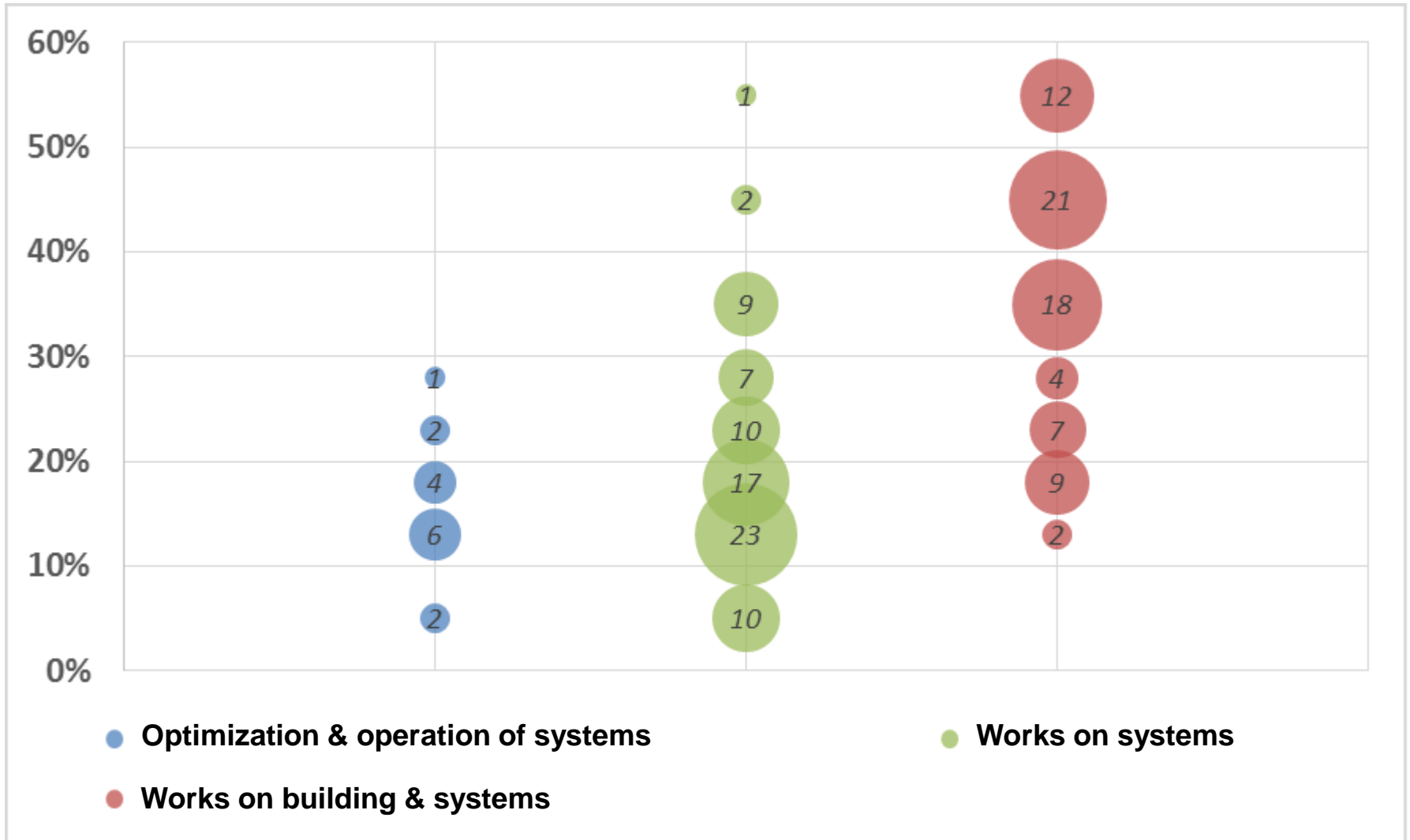
First results – distribution per duration



First results – distribution per public tender type



First results – distribution per energy saving target



Conclusion

- An increasing number of public EPC targeting mainly local authority, social housing & education building
- Majority of energy performance public tenders
- Negotiation mainly in the framework of competitive dialog

Perspectives

- Deep the analysis and include results from operational phase
- Enlarge the scope to private & new buildings
- Carry out detailed case studies
- Facilitation for pooling of resources for small towns

Thank you for your attention !

For more information on the first results of the EPC Observatory:

www.ademe.fr/sites/default/files/assets/documents/ocpe-novembre-2017.pdf

(updated on November 2017)

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