

Energy Services models

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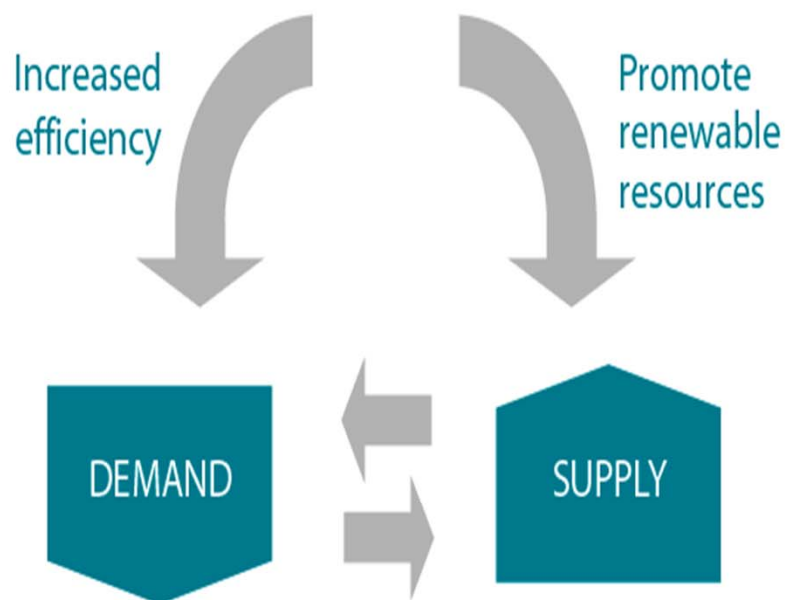


Mission...

...To play a leading role in transforming Ireland to a society based on sustainable energy structures, technologies and practices

Key objectives

- Energy efficiency first
- Low carbon energy resources
- Innovation and Integration



- **The challenge**
 - Public sector energy costs
 - National targets
 - Proven opportunities
- **Strategy and progress**
 - Public sector energy partnership and networks
 - Structured energy management
 - Specialist advice, tools, training
 - Smart investment – retrofit case studies
- **Constraints and response**
 - Access to finance, expertise, time
 - The third party offering – shared savings model
 - Sharing, learning, replicating practical experience
- **Establishing the solution**
 - Tackling the barriers
 - Creating a healthy competitive market



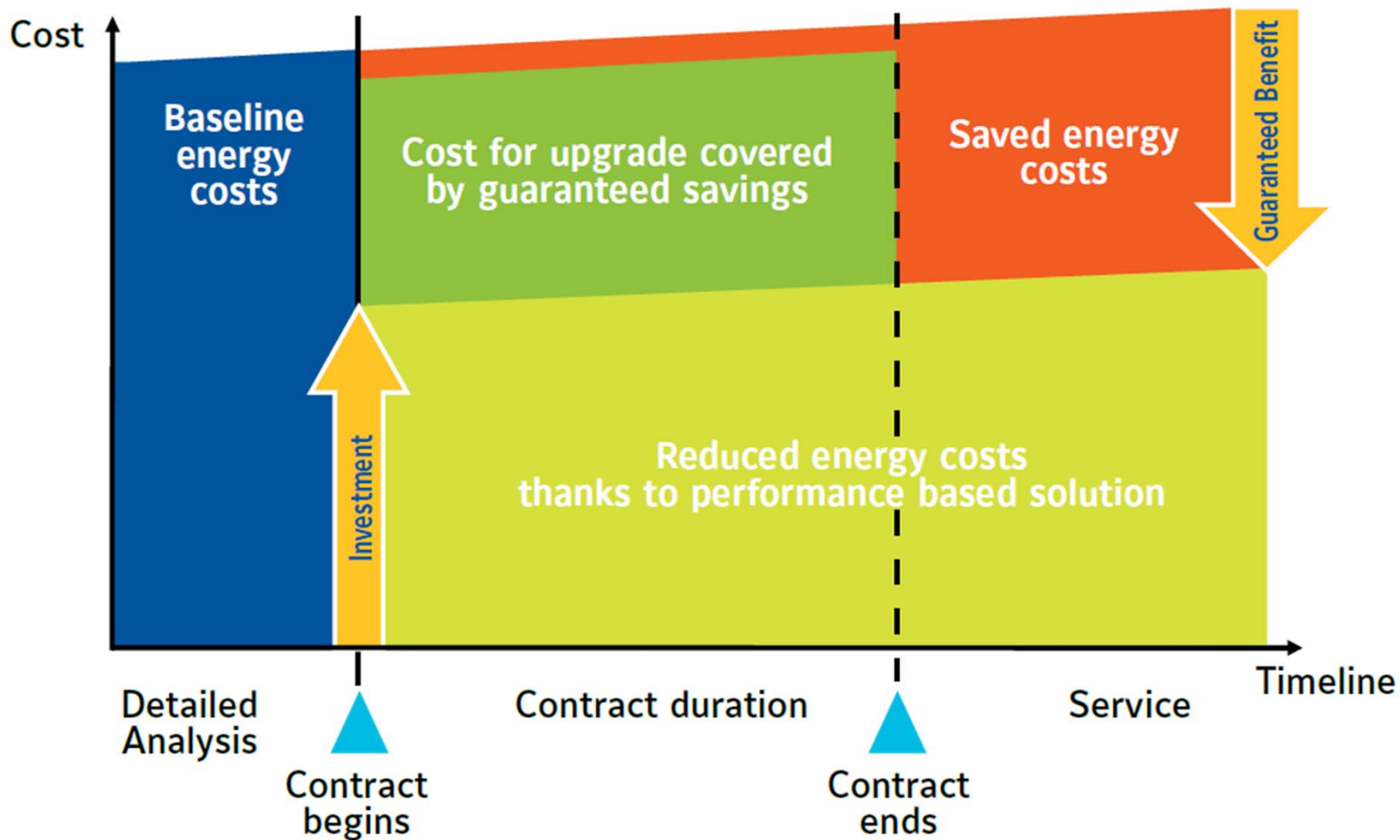
National Energy Efficiency Action Plan 2009-2020 and SI 542 of 2009

Responding to EU Energy Services Directive

- Overall energy efficiency improvement across all sectors: 20%
- **Overall energy efficiency improvement in public sector: 33%**
- This equates to:
 - a saving of **€165m/yr** at current prices
 - €1.2 billion net lifetime savings
- Public sector **leadership and exemplar** role
- Clear signal to support the development of energy services (ESCO) market

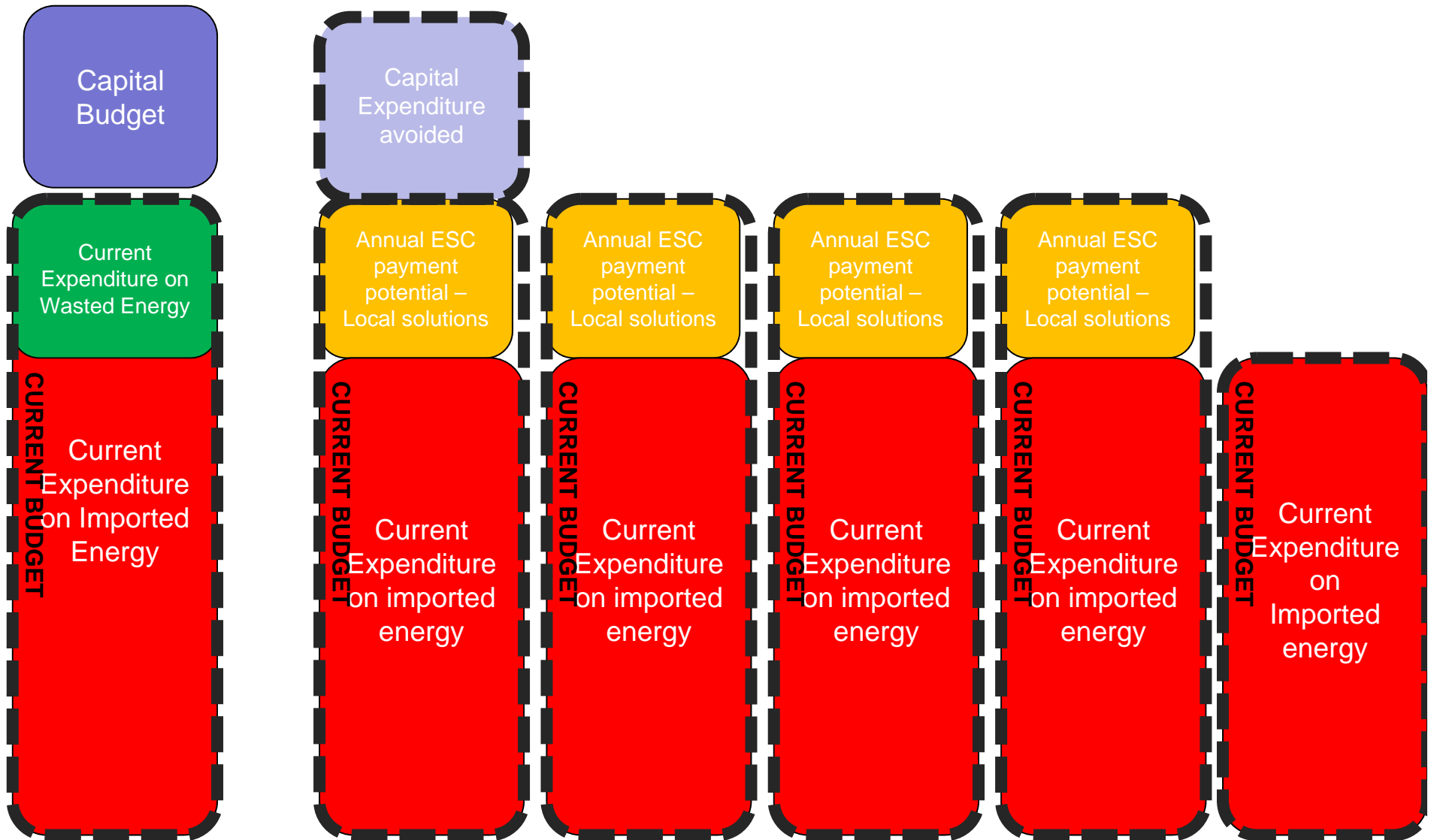
Programme for Government 2011 calls for introduction of **third party financing model** for energy efficiency investment in public buildings

The old model



Source: Institute for building efficiency (Johnson Controls)

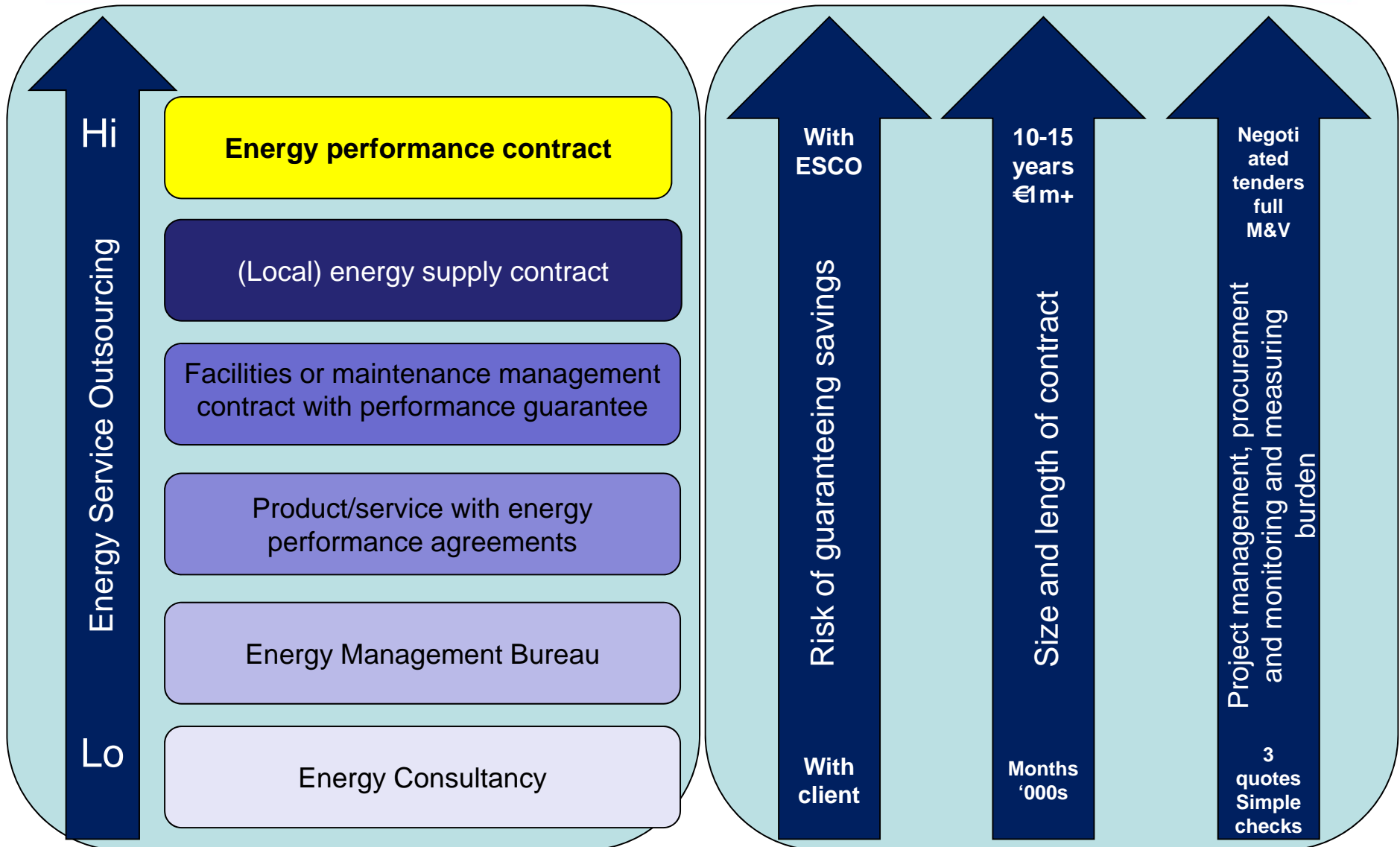
The new “Business Improvement Service”



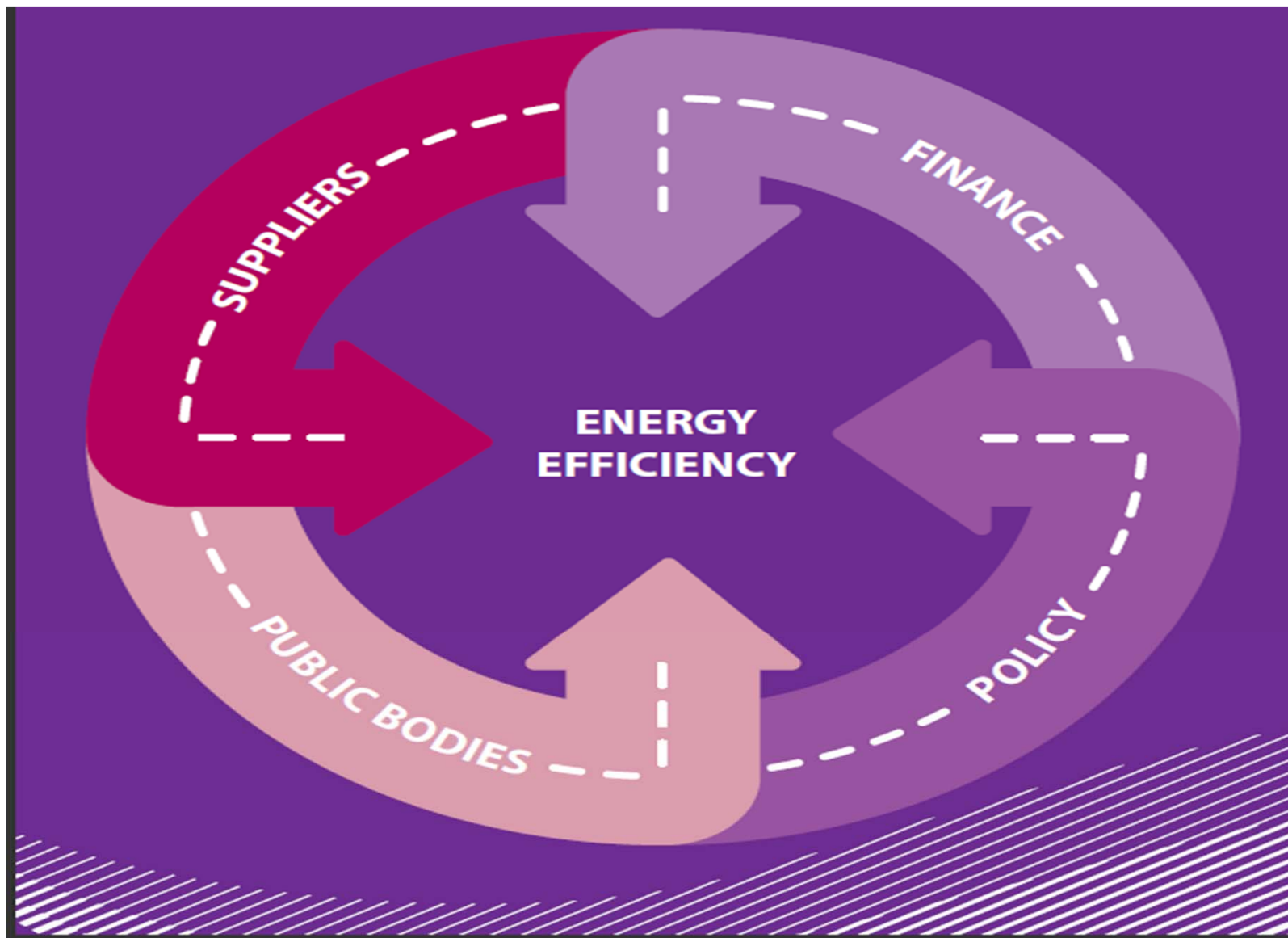
Energy Contracting

- Energy Supply contract – normal for many years
 - Utility Contracts
 - Guarantee of correct billing
- Energy contracting = facilities management contract
 - No performance guarantee
 - Standard O&M contracts
- Energy Performance Contract – PPP contracts
 - Investment contract
 - Supply contract
 - O&M contract

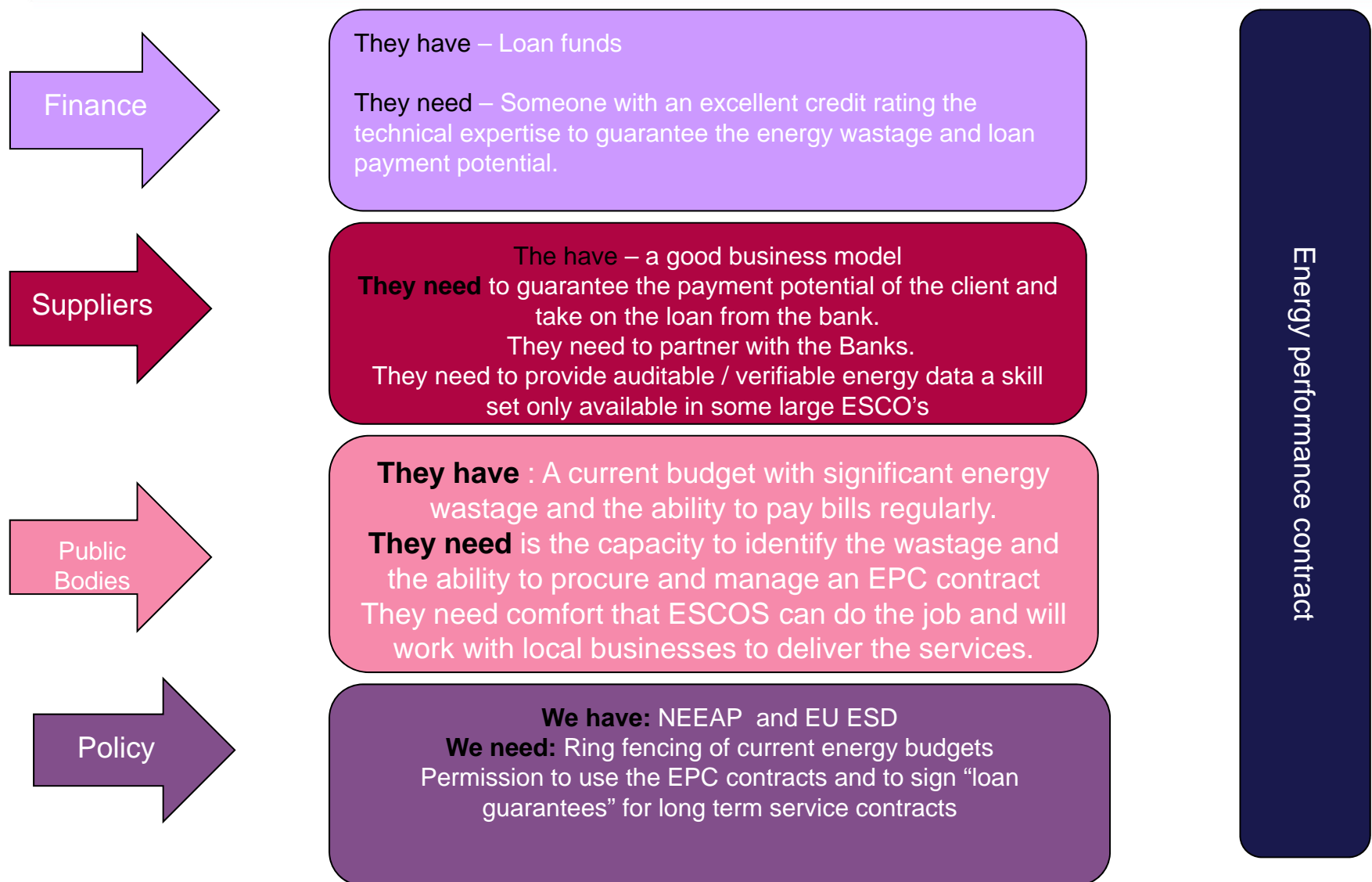
The Energy Service Ladder



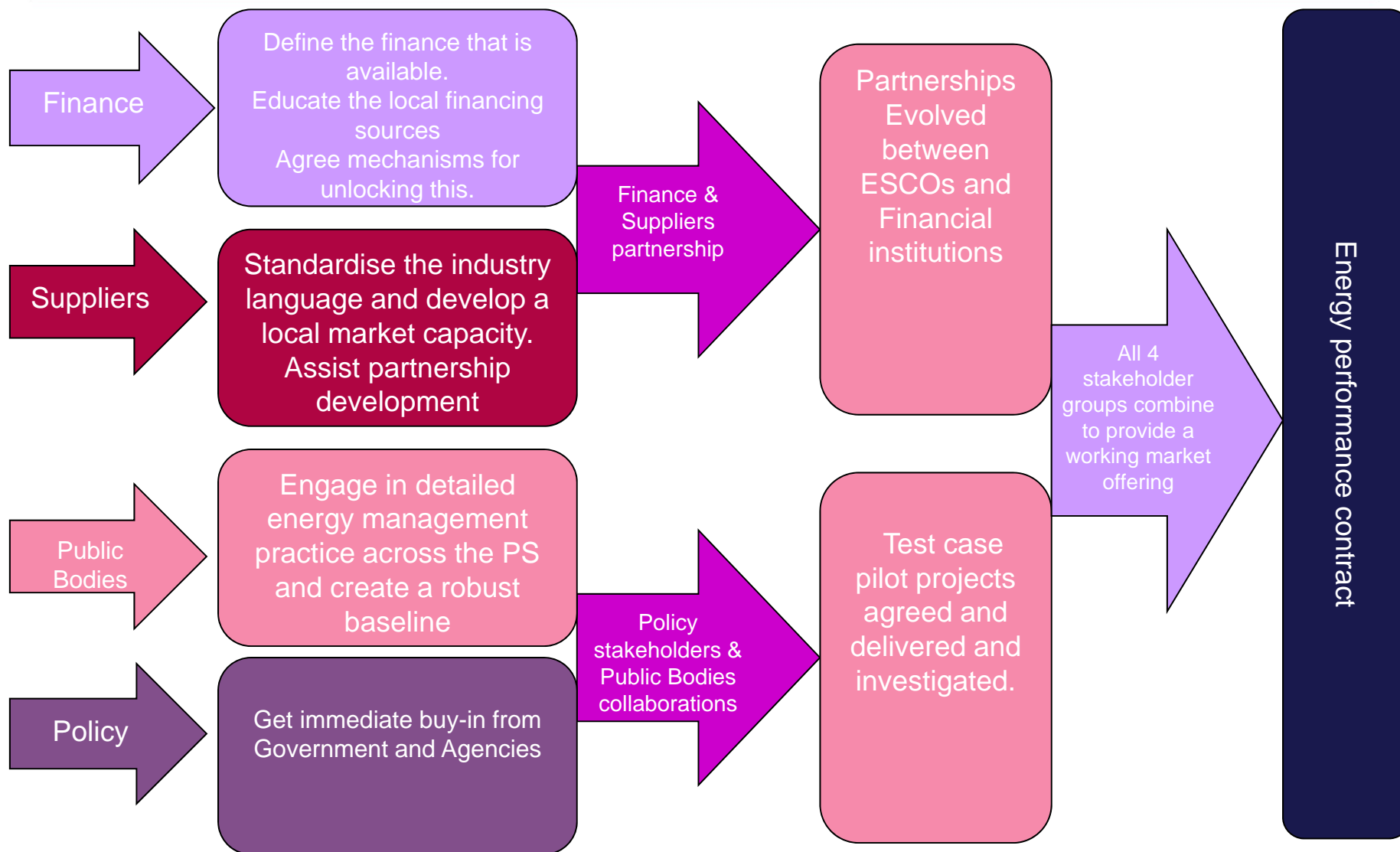
The Stakeholder Groups



The GAPS to address



ESCO Roadmap



	SEEEP 2009	EEF 2010	BEW 2011
Grant support €M	4.9	8.3	(11.5)
Number of Projects Approved	91	66	99
Energy Savings GWh	52	228	304
Tonnes CO₂ saved	10,753	47,140	63,800
€M Saved	2.6	8.7	12.1
Payback Years (average)	4.6	2.5	4.6
Government Contribution	41%	37%	27%

Summary

- Energy contracting is in place in basic forms for many years
- Access to finance is now the key driver
- PPP seems to be the best fit for the next model of EPC
- We need to build capacity in **all** sectors to deal with this.

Thank you