DECENTRALISED ENERGY ENABLING PROJECT (DEEP)

 DEEP within the context of Mayoral priorities and new London Environment Strategy -

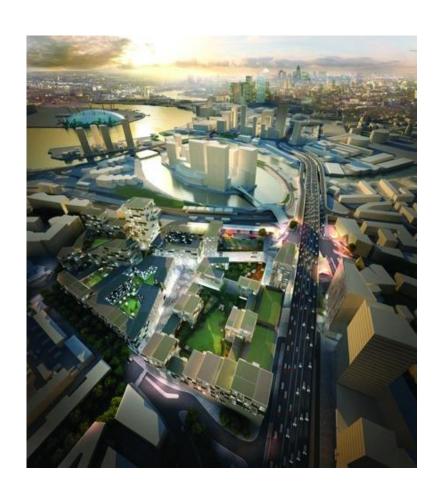




GREATER LONDON AUTHORITY

Future Cities

- 70% of the world's population will be living in cities by 2050
- London's set to rise to 11 million
- Growing pressure on resources and infrastructure
- Means we need to become more efficient and identify new lower carbon sources of supply
- Needs to be managed flexibly so that we are always utilising the lowest carbon and cheapest energy





The City Challenge

- To adapt current energy systems into more sustainable ones, less dependent on imported fuels
- Based on a diverse mix of energy sources, in particular renewables, energy carriers and non polluting sources
- Addressing the challenges of security of supply and climate change, whilst maintaining competitiveness
- Enhance energy efficiency, by rationalising use and storage of energy





Mayor of London – Key Manifesto Commitments

- 2050 target committing London to be a zero-carbon city by 2050.
- Establish Energy for Londoners, a notfor-profit company providing:
 - Help Londoners generate more low-carbon energy and increase their energy efficiency,
 - Support local and community energy enterprises,
 - Buy clean energy generated across the city, using it to power GLA and TfL facilities.

- Lead on work to cut energy bills for Londoners: explore the business case for savings on bills by bulk-buying energy.
- Solar strategy energy generation to make the most of the city's roofs, public buildings and land owned by TfL.
- Reduce energy demand by working with the industry to accelerate the rollout of smart meters.
- Back district heating schemes that make the most of waste heat from the Tube, such as that in Bunhill, Islington.



A CITY FOR ALL LONDONERS

Vision: "for London to be the greenest of all global cities"

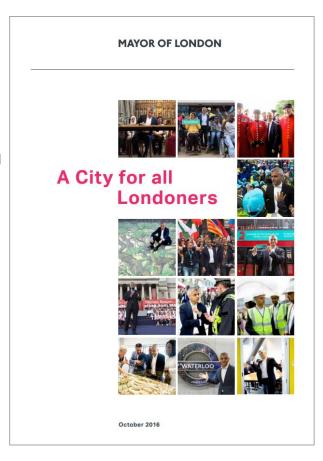
Objectives: "My environmental objectives can be broken down into two key areas – making the city healthy, resilient and fair, and making it resource efficient, low carbon and green."

Target: Net Zero Carbon by 2050

Approach - Energy for Londoners

Commitment to produce a London Environment Strategy and London Plan





MAYOR OF LONDON

Fundamentals for DE Remain the Same

Nearly 80% of our emissions comes from buildings

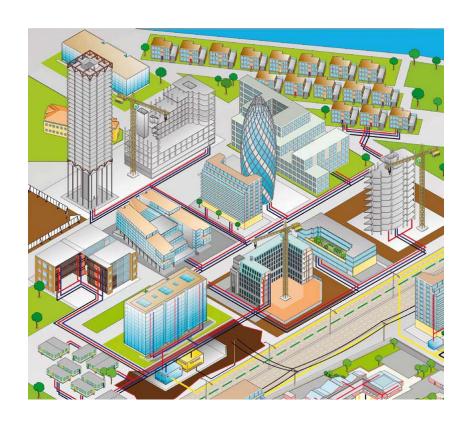
30% of London's CO₂ emissions – and approximately 50% of its energy demand - are attributable to heat (mostly mains gas)

Great opportunity for CO₂ reduction within London is to reduce demand for heat through building retrofit and low carbon, local (decentralised) heat supply

Focus on connecting to medium and large scale heat networks

Decarbonising heat networks

- Transition increasingly to renewable and secondary heat sources
- Lower temperature supply temperatures





Thankyou for listening



London Environment Strategy launched summer 2017.

Ambitious carbon reduction targets driving future e.g. London Plan policy (projected launch Autumn)

Continued support for DE with a focus on Heat

Would encourage you to get involved in the consultation on the GLA website.

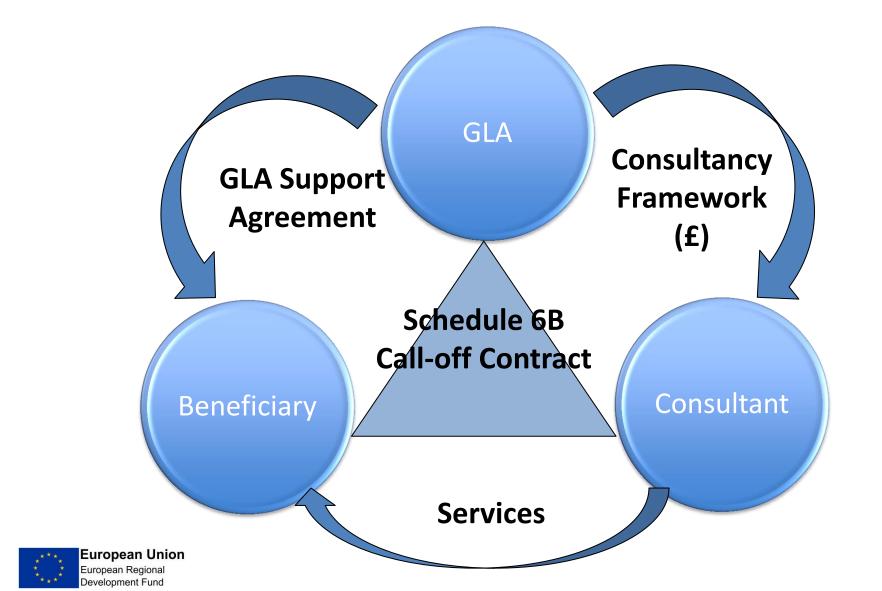






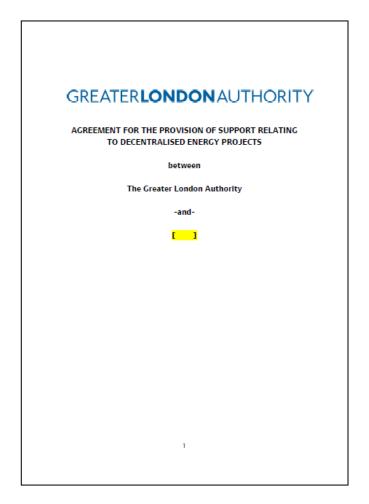
MAYOR OF LONDON

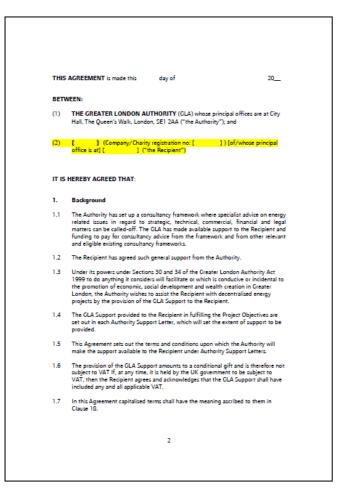
Tripartite Relationship



MAYOR OF LONDON

Support Agreement







MAYOR OF LONDON

Framework Agreement

MAYOR OF LONDON [SUBJECT TO AGREEMENT] Agreement Reference Number: Date: Framework Agreement for the Provision of Services Greater London Authority [Name of Service Provider] Version:

SCHEDULE 6B - CALL-OFF CONTRACT TEMPLATE

[NOTE TO USERS: TO BE USED WHEN THE GLA IS FUNDING THE SERVICES]

[NOTE TO USERS: It is IMPORTANT to ensure the call-off contract includes any specific Support Agreement / ERDF requirements if applicable]

Framework Number:

Call-Off Contract Number:

THIS CALL-OFF CONTRACT is made the day of

BETWEEN:

- 1) [] ("the Authority");
- (2) [], a company registered in England and Wales (Company Registration Number [] whose registered office is at [] ("the Service Provider"); and
- (3) THE GREATER LONDON AUTHORITY whose principal offices are at City Hall, The Queen's Walk, London, SE1 2AA ("the Contracting Authority").

RECITALS:

- A. The Contracting Authority and the Service Provider entered into an agreement dated [] which sets out the framework for the Service Provider to provide certain Services to the Contracting Authority or the Authority ("the Agreement").
- B. The Authority wishes the Service Provider to provide the specific Services described in this Call-Off Contract pursuant to the terms of the Agreement and this Call-Off Contract and the Service Provider has agreed to provide such Services on those terms and conditions set out in the Call-Off Contract.
- C. The Contracting Authority has agreed to fund or part fund the Services being provided to the Authority and shall make some or all the payments on the behalf of the Authority as set out in this Call-Off Contract.

THE PARTIES AGREE THAT:

- 1. CALL-OFF CONTRACT
- 1.1 The terms and conditions of the Agreement shall be incorporated into this Call-Off Contract.

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Decentralised Energy Enabling Project (DEEP)

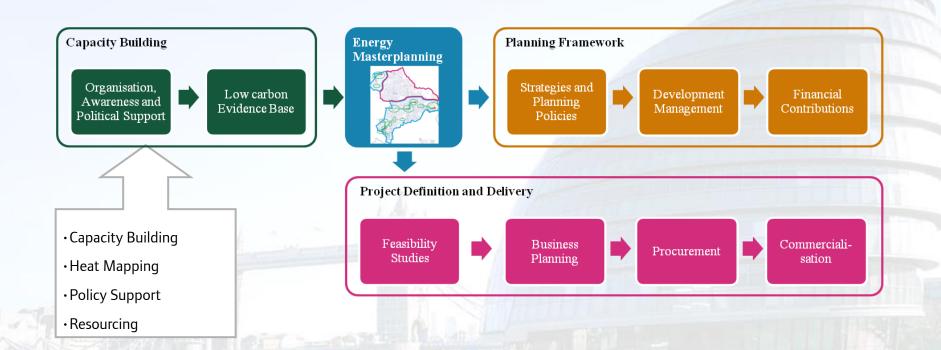
EXAMPLES OF HOW THE GLA HAS HELPED





GREATER LONDON AUTHORITY

DEEP Project Support



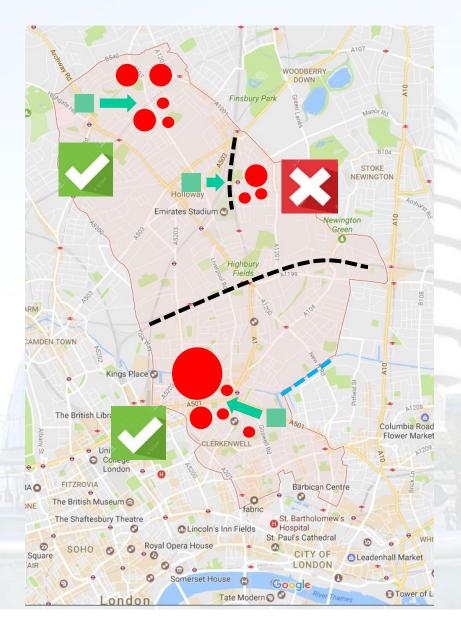
GLA role

- 1. Identifies with the beneficiary the short, medium and long term ambitions of the project
- Agrees with the beneficiary the scope of work, timescale and level of support provided through DEEP
- 3. Supports the beneficiary in writing the technical specifications as part of their procurement process
- 4. Supports the beneficiary in the evaluation of the technical part of their tender
- 5. Steers the beneficiary following award of contract, attend progress meetings, review draft and final reports
- 6. Ensures that project outputs and outcomes meet GLA and ERDF requirements
- 7. Pays ©
- 8. Makes the project outputs publicly available (London.gov and London Heat Map)



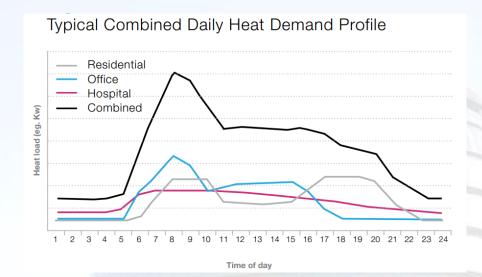
Energy Masterplans

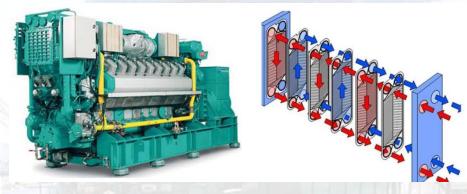
- Focus on a confined geographical area
- Identify and map current and future:
 - Energy demand and supply points
 - Barriers and constraints
 - Location and size of potential Energy Centres
 - Potential routes for heat networks
 - Secondary heat sources
- Determine high level technoeconomic appraisal of DE options
- Inform policies and further studies

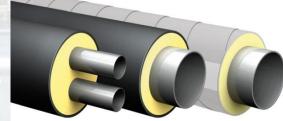


Feasibility Studies

- Focus on a specific DE opportunity or cluster
- Assess in details:
 - Energy demand and load profiling
 - Likelihood of connection
 - CAPEX, OPEX and revenues
- Include detailed design of:
 - Energy Centre, generating assets & ancillaries
 - Heat Network and Heat Substations
- Determine sound financial appraisal of preferred option(s)
- Inform Business Planning



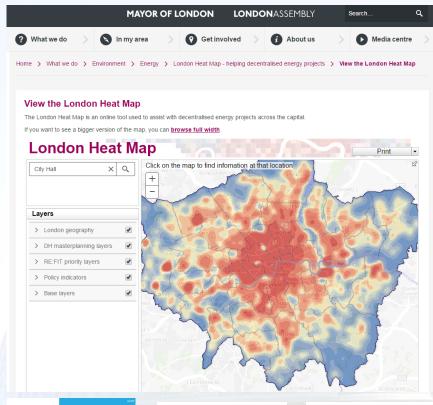




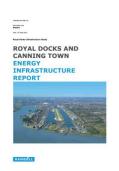


London Heat Map

- The London Heat Map has recently been incorporated into the London.gov website
- More slim and user friendly
- It will be subject to an update & upgrade to be procured via the DEEP framework over the Summer
- Outputs of all DEEP studies will be uploaded were applicable
- All studies and reports produced under DEEP will be made publicly available in the Resource Library @ London.gov
- 13 EMPs and various other reports are currently available to download











Thankyou for listening



Roberto Gagliardi La Gala Senior Project Officer Greater London Authority

roberto.gagliardilagala@london.gov.uk

@ldn_environment

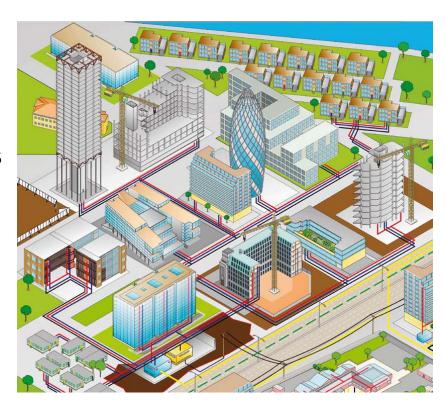






Presentation Content

- Who's providing the funding?
- My role
- How can I access what the project is providing?
- What is the process for procuring support?
- What are the requirements on project beneficiaries in return for receiving support?





Who is funding the £3.5 million project?

50% from:



- 2014-2020 Funding Call
- Priority Axis 4: Supporting the shift towards a low carbon economy in all sectors
- Investment Priority 4a: Promoting the reduction and distribution of energy derived from renewable sources



Who is funding the £3.5 million project?

50% from:

GREATER LONDON AUTHORITY



My role as Project Manager

- Day to-day responsibility
- Interface between project and our funders
- Point of contact for beneficiaries
- Submitting claims
- Submitting evidence for audits
- Ensuring there's no funding claw-back
- Managing budget





Organisational structure

Ensures work of project aligns with priorities and policies of the Mayor

 Monitors progress against programme and KPIs.

- Responsible for the overall direction and operation of the programme
- Ensures the rationale for intervention is developed and maintained.
- Decides whether to support projects

GLA Investment and Performance Board (Programme Sponsor)

Project Director

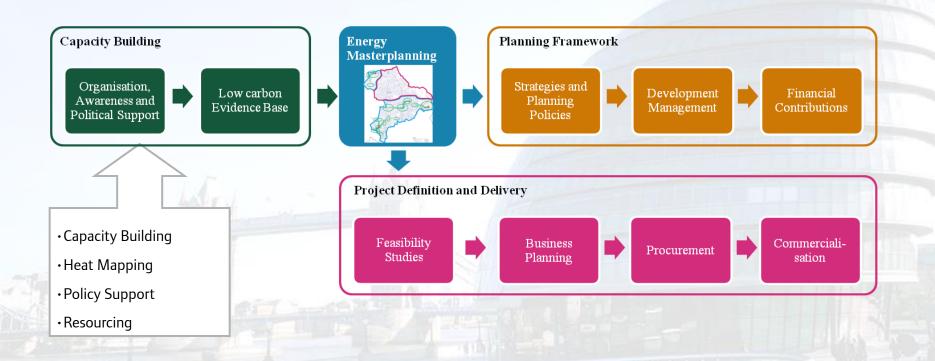
- Responsible for the day-to-day operation of the project
- Manages budget
- Completes all work required between project and funders (claims, evidence collection)

Project Manager Strategic/ Technical Advisor

Energy consultancy framework

- Provides advice to Project Director assessing projects to support
- Preliminary evaluation of project prospects for further support (go/no go)
- Co-writes specification

DEEP Project Support

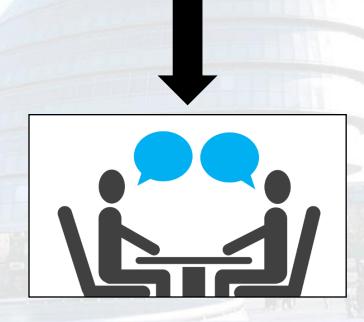


Accessing DEEP Support

 Borough/potential beneficiary to initiate contact with DEEP team deep@london.gov.uk



Meet to discuss project & ascertain that potential projects aligns with DEEP outputs





Programme Outputs

Renewable Energy Capacity (MW)

CO₂ reductions (tonnes of C02)

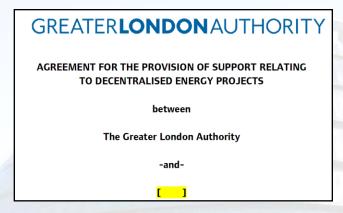
Capital investment levered (£87.5m)



Accessing DEEP Support

3. GLA & beneficiary to sign a Support Agreement

4. Beneficiary & GLA to jointly write specification to ensure its fit for purpose and includes Mayoral objectives







GLA Decentralised Energy Consultancy Framework (GLA80814)

FRAMEWORK	LEVEL 1 (Lot)	LEVEL 2 (Sub-Lot)
DECENTRALISED ENERGY Advisory Services	1. TECHNICAL	1.1 ENERGY GENERATION. ENERGY CENTRE DESIGN AND CONTROLS
		1.2 ENERGY TRANSMISSION. DISTRICT HEATING NETWORK DESIGN AND CONTROLS
		1.3 ENERGY DISTRIBUTION & SUPPLY IN BUILDINGS. SECONDARY SYSTEMS DESIGN AND CONTROLS
		1.4 FESIBILITY STUDIES FOR DE PROJECTS
		1.5 TECHNICAL SPECIFICATIONS & COSTING OF DE PROJECTS
		1.6 ENERGY ICT
	2. COMMERCIAL & FINANCIAL	2.1 BUSINESS CASE/PLAN FOR ENERGY PROJECTS
		2.2 DELIVERY VEICHLES, OWNERSHIP & FUNDING STRUCTURE FOR ENERGY PROJECTS
		2.3 COMMERCIAL DOCUMENTATION FOR ENERGY PROJECTS
		2.4 FINANCIAL MODELS FOR ENERGY PROJECTS
		2.5 PROJECT DOCUMENTATION FROM INCEPTION TO MARKET FOR ENERGY PROJECTS
	3. LEGAL	3.1 LEGAL DOCUMENTATION FOR ENERGY PROJECTS
		3.2 EU AND UK ENERGY REGULATION, ELECTRICITY & HEAT MARKETS AND LICENSING
	4. STRATEGIC	4.1 ENERGY STRATEGIES & MASTERPLANNING
		4.2 ENERGY POLICY, MARKETS AND PLANNING FOR DE AND CHP IN THE UK AND LONDON

How does a beneficiary procure support?

Beneficiary to procure by running mini-competition from framework



Beneficiary can jointly with DEEP team evaluate returned tenders and appoint consultant



Framework Agreement for the Provision of Services

between

Greater London Authority

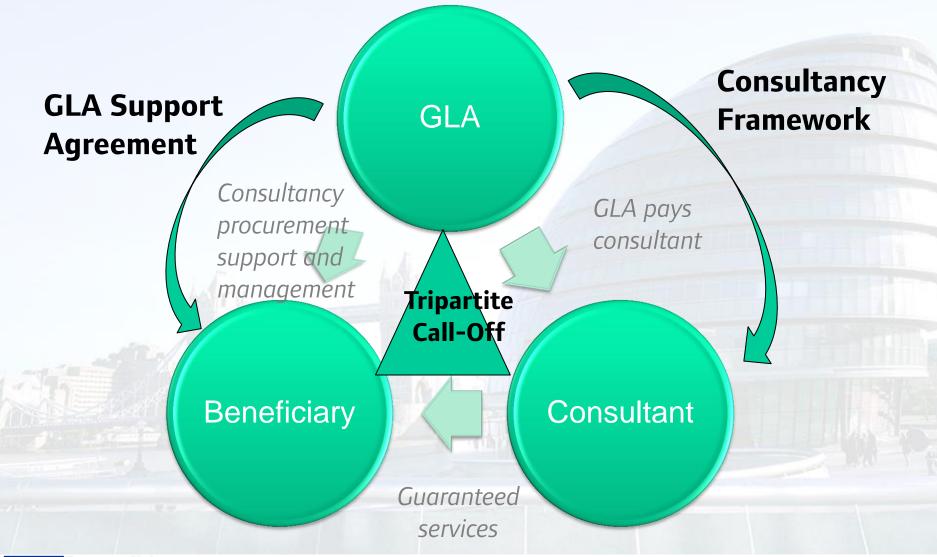
and

[Name of Service Provider]



MAYOR OF LONDON

DEEP Agreements





How does a beneficiary procure support?

Signing of Call-Off Contract

SCF	EDULE 6B - CALL-OFF CONTRACT TEMPLATE		
[NO	TE TO USERS: TO BE USED WHEN THE GLA IS FUNDING THE SERVICES]		
	[NOTE TO USERS: It is IMPORTANT to ensure the call-off contract includes any specific Support Agreement / ERDF requirements if applicable]		
	Framework Number: Call-Off Contract Number:		
Call	Off Contract Number:		
	Off Contract Number: S CALL-OFF CONTRACT is made the day of		
THIS			
THIS	S CALL-OFF CONTRACT is made the day of		
THIS	S CALL-OFF CONTRACT is made the day of WEEN:		

This Call-Off Contract has been signed by duly authorised representatives of each of
the Parties.
SIGNED For and on behalf of the [Authority]
Signature:
Name:
Title:
Date:
SIGNED For and on behalf of [the Service Provider]
Signature:
Name:
Title:
Date:
<u> </u>
4101150
SIGNED For and on behalf of the Contracting Authority
Signature:
Name:
Title:
Date:

How does a beneficiary procure support?

Beneficiary to contract manage services through to completion



Work complete - beneficiary to issue GLA a work completion certificate (Schedule 9 of Support Agreement).

GLA to pay the net amount of the invoice issued by the supplier.



Project sponsor to pay the VAT amount to the supplier.

*payment arrangement established to address the issue that the project is not giving out grants but rather on behalf of project sponsors paying for services.



Requirements on project beneficiaries in return for receiving support?

 GLA will be audited multiple times randomly for different bits of spend undertaken between now and the project end in September 2019

 The GLA can be audited on spend from the project at any time until <u>2031</u>



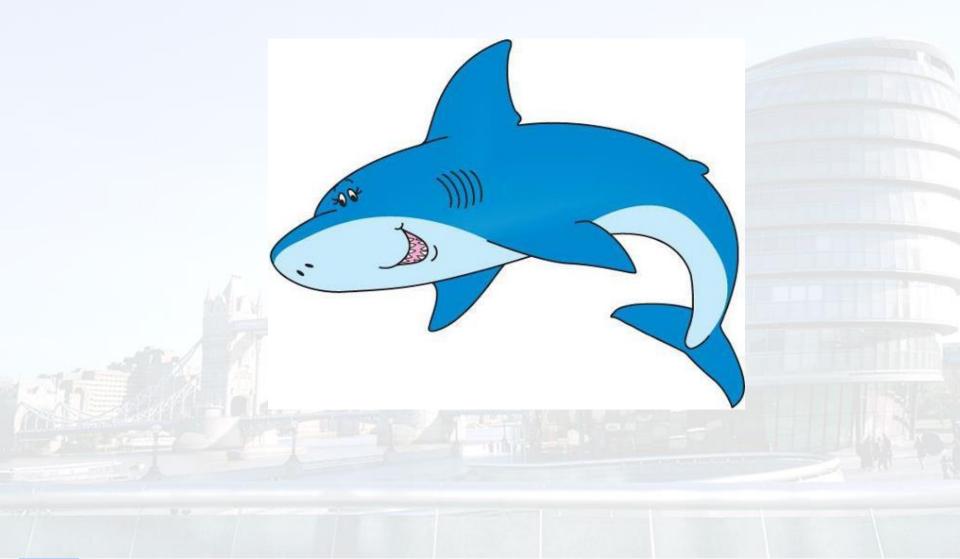
Who will audit the project?

The Project can at any time be audited by:

- 1. ESIF Compliance team
- 2. Audit Authority team
- 3. European Commission audit team
- 4. European Court of Auditors
- *(Next slide borrowed from a fellow ERDF Project Manager!)



Article 125 Audit – What does that look like?



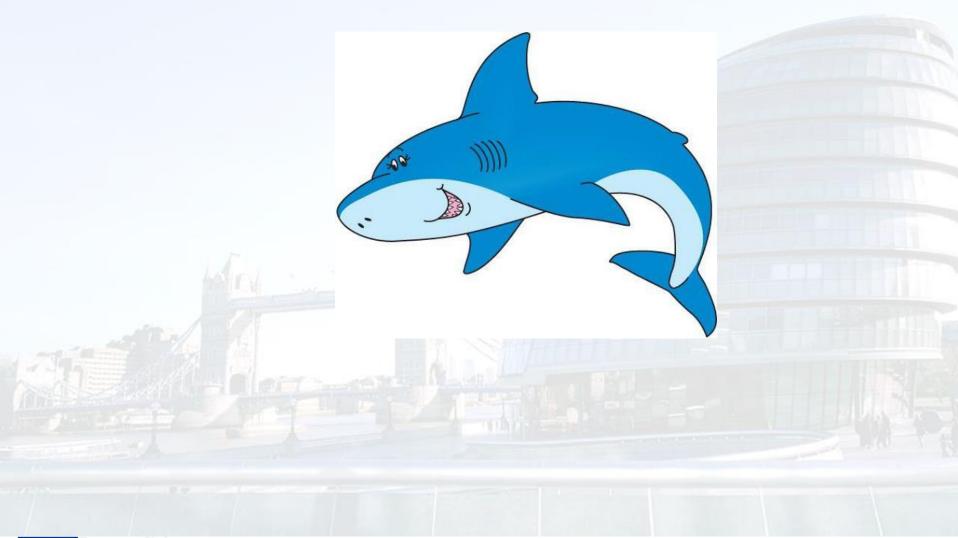


Article 125 Audit – Do not be fooled, it has teeth!





Article 127 Audit – What does that look like?





Article 127 Audit – Do not be fooled, it has teeth!





For every procurement exercise the beneficiary must provide to the GLA (who must pass onto the ERDF Managing authority) as soon as available:

- Copy of tender specification with <u>clear</u> award criteria
- Log sheet for all tenders received (time and date)
- Tender evaluation matrix



For every procurement exercise the beneficiary must provide to the GLA (who must pass onto the ERDF Managing authority) as soon as available:

- Summary sheet of tender scores from 2 evaluators
- Copy of OJEU award notice
- Copy of letters to unsuccessful tenderers giving appropriate standstill period (where appropriate)
- Copy of award letter
- Tender evaluation report (record of procurement process)



Additionally if an audit is under taken by any of the **4 different auditors** further documentation must be provided by beneficiary to GLA:

- Lists of expressions of interest
- Copy of all tenders
- Copy of tender score sheets dated and signed by two people



Additionally if an audit is under taken by any of the **4 different auditors** further documentation must be provided by beneficiary to GLA:

- Copy of correspondence (inc. interview questions) and clarification questions where appropriate
- Signed contact
- Copy of notes from inception meeting



Other requirements from ERDF

 Publicity requirements – standard guidelines on use of logos on all project materials (including procurement material)

Output evidence requirements



Final comments

- Bear with us as a project team in initial stages
 - it's a new project with new ways of working
- Be proud of your projects
- Thanks to all those who've been closely involved in getting the project ready up to this stage



Thankyou for listening



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@ldn_environment

www.london.gov.uk/environmentnewsletter



Questions and answers



