



Gwasanaeth Ynni
Energy Service

Climate Innovation – DATGLOI – Arloesi Hinsawdd

Surgery event – Meddygfa

03/09/2026 14:00 – 16:00

DATGLOI

Beth yw DATGLOI?

- Rhaglen Arloesi Hinsawdd Llywodraeth Cymru ar gyfer 2026-2027.
- Cyfanswm y cyllid sydd ar gael: £750,000.
- Senario Cyllido Is: hyd at £125,000.
- Senario Cyllido Uwch: hyd at £250,000.
- Prosiectau i'w cyflawni erbyn mis Mawrth 2027.

Beth ydyn ni'n chwilio amdano?

Prosiectau sy'n:

- Mynd i'r afael â heriau hinsawdd sylweddol.
- Cynhyrchu tystiolaeth ymarferol a gwersi i'w dysgu.
- Datblygu modelau cyflawni neu lwybrau gweithredu.
- Gallu llywio polisi, buddsoddiad a chyflwyno yn ehangach yn y dyfodol.
- Dangos cydweithrediad ystyrlon.

What is DATGLOI?

- Welsh Government Climate Innovation Programme for 2026-2027.
- Total funding available: £750,000.
- Lower Funding Scenario: up to £125,000.
- Higher Funding Scenario: up to £250,000.
- Projects delivered by March 2027.

What are we looking for?

Projects that:

- Address significant climate delivery challenges.
- Generate practical evidence and learning.
- Develop delivery models or implementation pathways.
- Can inform future policy, investment and wider roll-out.
- Demonstrate meaningful collaboration.



Themâu

Rhaid i ymgeiswyr fynd i'r afael ag un neu fwy o bedair thema DATGLOI:

Datgarboneiddio coedwigaeth a'r sector pren

Cefnogi Strategaeth Ddiwydiannol ar gyfer Pren a datblygu cadwyn gyflenwi pren domestig.

Treuliad anaerobig amaethyddol

Cefnogi heriau trawsnewid cynaliadwy amaethyddol a rheoli maetholion.

Hybiau trafndiaeth a gwefru a rennir

Cefnogi ehangu seilwaith gwefru a modelau gwefru a rennir.

Systemau data hinsawdd a charbon integredig

Cefnogi gwneud penderfyniadau a arweinir gan dystiolaeth a systemau adrodd hinsawdd integredig

Themes

Applicants must address one or more of the four DATGLOI themes:

Forestry and timber sector decarbonisation

Support Timber Industrial Strategy and domestic timber supply chain development.

Agricultural anaerobic digestion

Support sustainable agricultural transition and nutrient management challenges.

Shared transport and charging hubs

Support charging infrastructure expansion and shared charging models.

Integrated carbon and climate data systems

Support evidence-led decision making and integrated climate reporting systems

1. Forestry & Timber Sector Decarbonisation

The problem to solve?	Outcome?	Why?
• Route to decarbonisation of forestry sector is currently not clear. • How green energy can replace diesel machinery/vehicles.	• Regulator-endorsed demonstrator model for forestry-linked green hydrogen or electrification in supply chain. • Clear guidance on planning routes, environmental safeguards, investment structures.	• Tech exists, but system of deployment does not, and needs innovation mindset to change. • Innovation would be institutional and delivery-focused, as well as combination of technologies/engineering.

2. Enabling Agricultural Anaerobic Digestion (AD) at scale

The problem to solve?	Outcome?	Why?
• Explore how AD in agriculture at scale looks in practice. • Currently shared by multiple policy teams in WG.	• 1 or 2 regulator-approved models for AD at scale, with clear guidance on planning routes, environmental safeguards, investment structures. • Recommended next steps beyond 2026-2027.	• Tech exists, but system of deployment does not. • Innovation here is institutional and delivery focussed.

3. Developing shared transport and charging hubs

The problem to solve?	Outcome?	Why?
• Charging infrastructure has been a barrier to roll-out of transition to EVs in public sector. • Missed opportunities to coordinate and share infrastructure.	• Two or more replicable 'hub blueprints' with clear guidance and suggested next steps. • 2-3 place-based charging hub pilots, clear governance models, evidence on grid, cost, uptake impacts	• Innovation lies in the place-based delivery and resolving coordination challenge – Shared use models: private/public fleets, integration with LAEPs, grid flexibility, etc.

4. Integrated Government systems carbon & climate related data for evidence building

The problem to solve?	Outcome?	Why?
- Carbon and climate-related data in Wales are fragmented, inconsistent and slow, limiting their usefulness for real policy, investment and delivery decisions. - Current approaches focus on organisational reporting rather than integrated, place based and cross sector decision support, constraining action as we approach Carbon Budget 4.	- A tested foundation for a national, integrated carbon and climate evidence framework. - WG-assured, standardised metrics across priority sectors. - A working digital prototype demonstrating integrated carbon, spatial and adaptation data to support live decisions.	- Innovative re-designing of public-sector data infrastructure so that climate action is faster, better targeted, and more accountable. - The Welsh Public Sector Net Zero Carbon Reporting Guide currently only addresses organisational reporting, not integrated decision-support across sectors, places, and policy domains.

Fframwaith Contractau Arloesi

Beth yw Contractau Arloesi?

- [Fframwaith caffael UKRI](#).
- Cefnogi ymchwil a datblygu arloesol.
- Llwybr caffael ar gyfer prosiectau DATGLOI.

Ar gyfer beth mae wedi'i gynllunio?

- Nid yw atebion caffael presennol yn ddigonol.
- Mae angen ymchwil neu ddatblygu pellach.
- Mae angen cynhyrchu tystiolaeth a'r hyn a ddysgwyd.

Manteision

- Cefnogi arloesedd a lleihau risg.
- Darparu llwybr caffael strwythuredig.
- Galluogi profi dulliau newydd.

Beth sydd angen i ymgeiswyr ei wneud

- Adolygu'r fframwaith Contractau Arloesi.
- Trafod gyda chydweithwyr caffael.

Contracts for Innovation Framework

What is Contracts for Innovation (Cfi)?

- [UKRI procurement framework](#).
- Supports innovative research and development.
- Procurement route for DATGLOI projects.

What is it designed for?

- Existing procurement solutions are not sufficient.
- Further research or development is needed.
- Evidence and learning need to be generated.

Benefits

- Supports innovation & reduces risk.
- Provides structured procurement route.
- Enables testing of new approaches.

What applicants need to do

- Review the Cfi framework.
- Discuss with procurement colleagues.



Contracts for Innovation

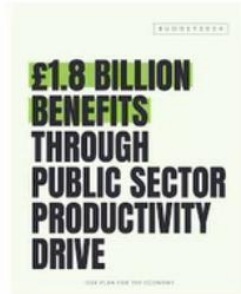
Tom Doyle – Contracts for Innovation Account Manager



Procurement of Innovation

Why would you want to procure innovation?

- Need different / better outcomes
- Increase efficiency / efficacy
- Increase Public Sector Productivity
- Increase the widespread adoption and diffusion of innovation
- Stimulate private sector innovation



What opportunities are there?

- Huge potential to drive innovation and enable growth of innovative businesses while increasing efficacy and efficiency of public services
- CST recommended 5% p/a (£20Bn) procurement budget spent on R&D - Innovate UK budget £1Bn p/a



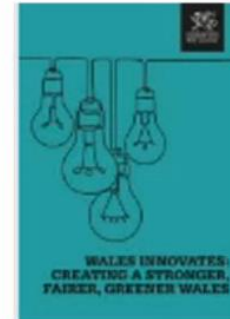
Public Procurement of Innovation and Pre-commercial Procurement

Public Procurement of Innovation - PPI

Public procurement of innovative solutions (PPI) happens when the public sector uses its purchasing power to act as early adopter of innovative solutions which are not yet available on large scale commercial basis.

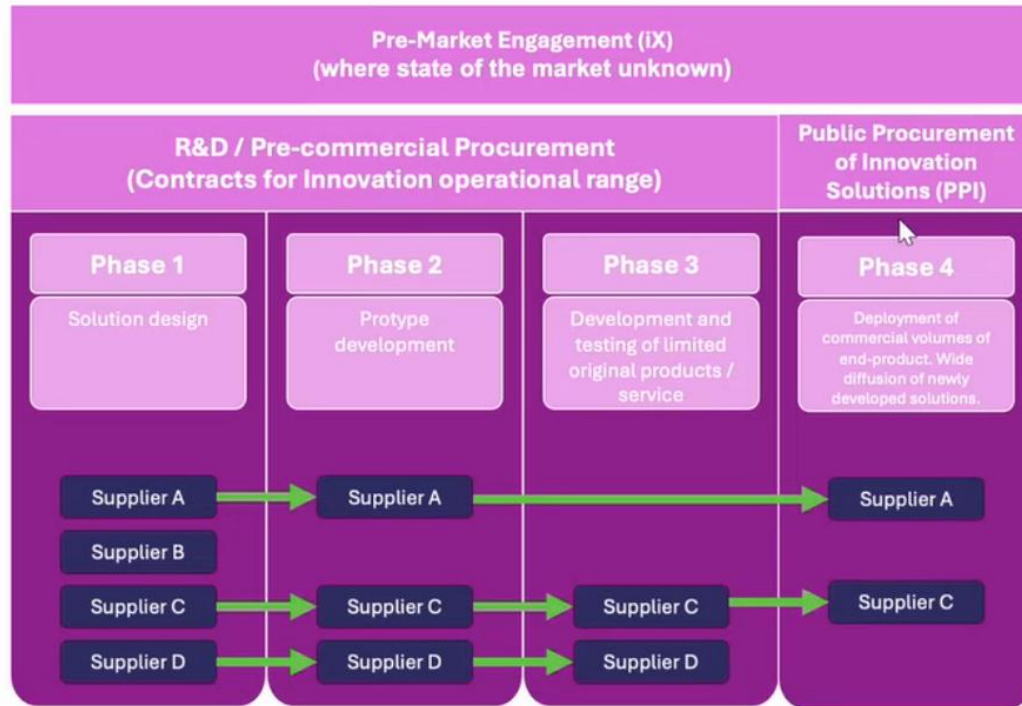
Pre-Commercial Procurement - PCP (in the UK this is Contracts for Innovation)

Consists of a procurement of research and development (R&D) services that involves risk-benefit sharing at market conditions and in which a number of companies develop in competition new solutions for mid- to long-term public-sector needs. The needs are so technologically demanding and in advance of what the market can offer that either no commercially stable solution exists yet, or existing solutions exhibit shortcomings which require new R&D. (European Commission)



The Process

The below is an example only. Contracts for Innovation can be applied anywhere from TRL 2-8 and can start/conclude anywhere along the process. For example, if grant investments already have already surpassed feasibility studies, a Contracts for Innovation challenge could start at prototype development.



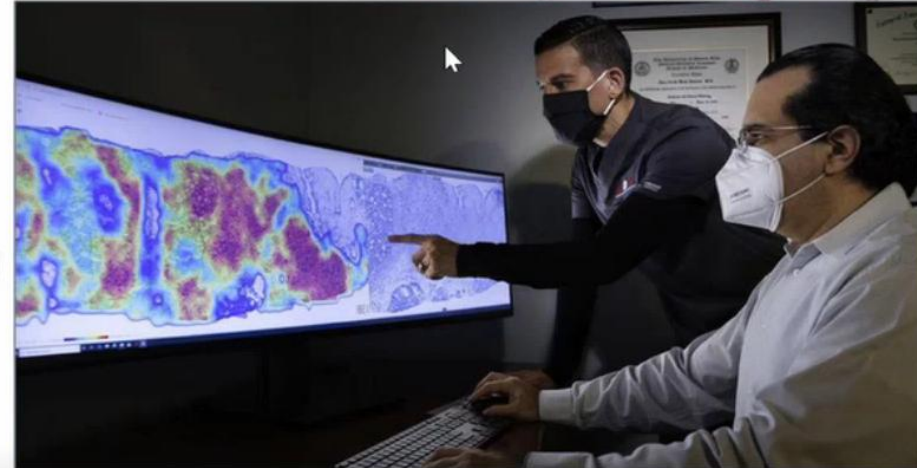
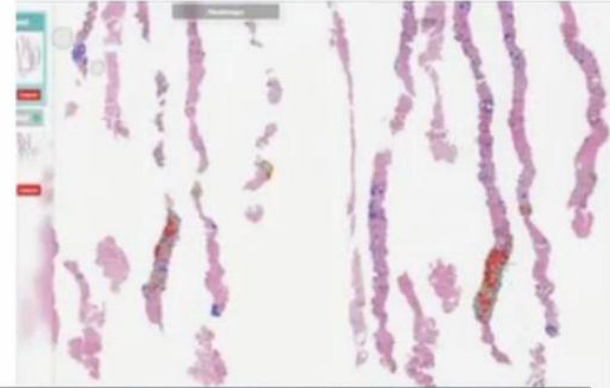
Case Study – Prostate Cancer Diagnosis

Challenge

- Pathologists review 4 million glass slides from 100,000 men each year
- Current backlog
- Number of men biopsied forecast to double by 2030
- Welsh Government funding, via NHS Wales via SBRI Centre of Excellence Wales

Solution

- More efficient use of pathologist's time
= 13% increase in cancer detection
- Estimated cost saving of £1582 per biopsy
- First adopted by Betsi Cadwaladr University Health Board, Swansea Bay University Health Board and Aneurin Bevan University Health Board
- Now being trialled in a further six health boards and on suspected breast cancer cases



Innovate
UK

Contracts for Innovation from 2008 - today



Spend through Contracts for Innovation - **£1.8Bn**



Originally designed by the [EC](#), IUK provide expert **support** and **delivery** as appropriate



[Independent evaluation](#) published 2022 which confirmed benefits, highlighted areas for improvement and advocated for wider use



Healthcare cost savings of:
£1.2bn - £1.8bn

The benefits to the businesses awarded the funding amount to around
1.5 to 4 times the cost
of the public sector investment



When might Contracts for Innovation be used?



Pre-commercial procurement
(doesn't exist currently)



Outcome-driven solutions
(any size or scale of challenge)



Requires a lead customer
(public sector challenge owner)



Well-defined challenges and outcomes
(TRL 2-8)



Consideration and 'buy-in' from the wider system

Contracts for Innovation

Key Features

Contracts

- 100% funded R&D (procurement contract for R&D Services)
- Payments made on completion of milestones
- Costs quoted must reflect actual costs and not include profit
- Contract with a single organisation - who may choose to sub-contract but remains accountable

IP rests with Supplier

- Certain usage rights for the Public Sector (licenses etc)

Eligibility

- Can be used to adapt technology or processes from other sectors as long as activity is at least 50% R&D
- Open to all organisations. There is no limit on the size or type of company.
- All organisations must demonstrate a route to market





DATGLOI yn gryno

Nod DATGLOI yw datgloi atebion ymarferol, cydweithredol sy'n canolbwyntio ar gyflawni, i rai o heriau hinsawdd mwyaf cymhleth Cymru, gan helpu i baratoi Cymru ar gyfer Cyllideb Garbon 4 a thu hwnt.

Diolch am gymryd rhan, rydym yn edrych ymlaen at dderbyn eich ceisiadau.

<https://www.llyw.cymru/cronfa-arloesi-hinsawdd-datgloi-canllawiau>

<https://www.llyw.cymru/cronfa-arloesi-hinsawdd-datgloi-ffurflen-gais>

DATGLOI in a nutshell

DATGLOI aims to unlock practical, collaborative and delivery-focused solutions to some of Wales' most complex climate challenges, helping prepare Wales for Carbon Budget 4 and beyond.

Thanks for participating, we are looking forward to your applications.

<https://www.gov.wales/climate-innovation-fund-datgloi-guidance>

<https://www.gov.wales/climate-innovation-fund-datgloi-application-form>