

CIUK 2025

Eva Fernandez Amez,  
*Community Manager for  
Digital Research  
Infrastructure*

# SHAREing

***faster** delivery of  
**faster** science workflows using  
**faster** hardware building blocks*

This project has received funding through the UKRI Digital  
Research Infrastructure Programme [grant number  
UKRI1801 (SHAREing)].

## Lead Institution



Durham University

## Consortium members



Cardiff University



Queen Mary University of London



CoSeC



The University of Manchester



University of Sheffield



Swansea University

# SHAREing's Focus Areas



**Pillar 1:  
Performance & Machine  
Assessments**

**Pillar 2:  
Training & Skills**

**Pillar 3:  
Ecosystem & Community**

# SHAREing's Focus Areas



## Pillar 1: Performance & Machine Assessments

It focuses on developing a consistent, UK-wide methodology that helps researchers and SMEs:

- Evaluate whether their code has a real acceleration potential
- Identify which parts of the workload matter most
- Select appropriate hardware or mixed architectures
- Understand performance bottlenecks in advance

Create a **service where researchers and SMEs can submit their code** and receive a **performance assessment report**.

# SHAREing's Focus Areas



## Pillar 2: Training & Skills

### Technical skills

- Performance analysis
- Parallelisation strategies
- Programming for accelerators
- Optimisations and profiling
- Version control and collaborative workflows

### Professional skills

- Communication and stakeholder management in an academic setting
- Leadership in technical contexts
- Project planning
- Working effectively in mixed teams (RSEs + domain scientists)

SHAREing aims to create a coherent training landscape, where researchers can see a clear pathway from newcomer to advanced practitioner

After developing the Performance Assessment Methodology (Pillar 1), we will create training materials based on it, enabling researchers to practise the method themselves and assess their own workflows with confidence.

# SHAREing's Focus Areas



## Pillar 3: Ecosystem & Community

SHAREing aims to:

- Build a national overview of testbeds that allows people to find and use resources that make sense for their work
- Support community events, cross-institution collaborations, links to the other DRI projects and visibility for RSE work across domains

**Pillar 1:  
Performance &  
Machine  
Assessments**



The diagram consists of three rounded rectangular boxes arranged horizontally. The first box on the left is blue and contains the text 'Pillar 1: Performance & Machine Assessments'. Below it is a white bracket. The middle box is orange and contains the text 'Pillar 2: Training & Skills'. A white bracket is positioned below the first and second boxes, spanning their combined width. The third box on the right is green and contains the text 'Pillar 3: Ecosystem & Community'. Below it is a white bracket. In the top right corner, there is a small icon of three overlapping circles with arrows indicating a clockwise cycle.

**Pillar 2: Training & Skills**

**Pillar 3:  
Ecosystem &  
Community**



**Pillar 1:  
Performance &  
Machine  
Assessments**

WP1: Performance  
assessment

**Pillar 2: Training & Skills**

WP2:  
Technical Training

WP3:  
Professional skills

**Pillar 3:  
Ecosystem &  
Community**

WP4: Outreach,  
stakeholder engagement  
and capacity building



## Pillar 1: Performance & Machine Assessments

### WP1: Performance assessment

WP1.1: Deliver acceleration assessments

WP1.2: Develop scientific methodology to benchmark and assess accelerated computing codes or platforms

WP1.3 Develop and implement accelerator landing page

WP1.4: Host special interest group and workshops on hardware horizon scanning

WP1.5 Develop case studies from assessed codes on how accelerate compute enables accelerated sciences and a better utilisation of DRI

## Pillar 2: Training & Skills

### WP2: Technical Training

WP 2.1: Identify and curate educational pathways

WP2.2: Establish and curate didactic best practices

WP2.3 Develop e-learning content that is not covered elsewhere yet essential for accelerate computing

WP2.4: Organise bootcamps, workshops and hackathons to accompany the virtual training delivery with in-person events

WP2.5: Liaise with industry, professional bodies and academia to map learning outcomes onto a points-based accreditation and learning outcomes for MScs and CDTs

WP2.6: Establish research culture focus group ensuring that EDIA values, culture and objectives are taken into account for material delivery and design

WP2.7: Engage in Knowledge Exchange DRI initiative

WP2.8: Identify and publish a series of case studies how DRI teams contribute towards core University values and objectives. This is a key piece of information to allow local institutions to establish a clear RTP career pathway

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## Pillar 3: Ecosystem & Community

### WP4: Outreach, stakeholder engagement and capacity building

WP 4.1: Liaise with compute centres, RTP communities, and lobby groups

WP 4.2: Liaise with vendor, industry and business representatives for bidirectional knowledge exchange regarding upskilling.

WP 4.3: Marketing and brand-building in collaboration with the knowledge exchange DRI grant. This includes establishing a presence at international flagship conferences (e.g. ISC, SC) as well as UK events (e.g. CIUK, HPC Days and RSECon).

WP 4.4: International outreach focus group with links to EU initiatives and US partners.



## Pillar 1: Performance & Machine Assessments

### WP1: Performance assessment

WP1.1: Deliver acceleration assessments

WP1.2: Develop scientific methodology to benchmark and assess accelerated computing codes or platforms

WP1.3 Develop and implement accelerator landing page

WP1.4 Develop and implement a virtual training delivery with in-person events

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WP3.9 Develop and implement a virtual training delivery with in-person events

## Pillar 3: Ecosystem & Community

### WP4: Outreach, stakeholder engagement and capacity building

WP4.1: Work with academia, industry, and policy groups

WP4.2: Work with academia, industry and business representatives for industrial knowledge exchange regarding computing

WP4.3: Marketing and brand building in collaboration with the knowledge exchange UK agent. This includes establishing a presence at international flagship conferences (e.g. ISC, SC14) as well as UK events (e.g. CluG, HPC Days and HPCcon)

WP4.4: HPC training outreach focus group with focus to EU researchers and UK partners

Visit SHAREing's website



<https://shareing-dri.github.io/>

Work Packages



# Visit each of the Work Packages



<https://shareing-dri.github.io/>

## Work Packages

WP1:  
Performance  
Assessment

WP2:  
Technical  
Training

WP3:  
Professional  
Skills Training



# Each Work Package is divided into subgroups



<https://shareing-dri.github.io/>

## Work Packages

WP1:  
Performance  
Assessment

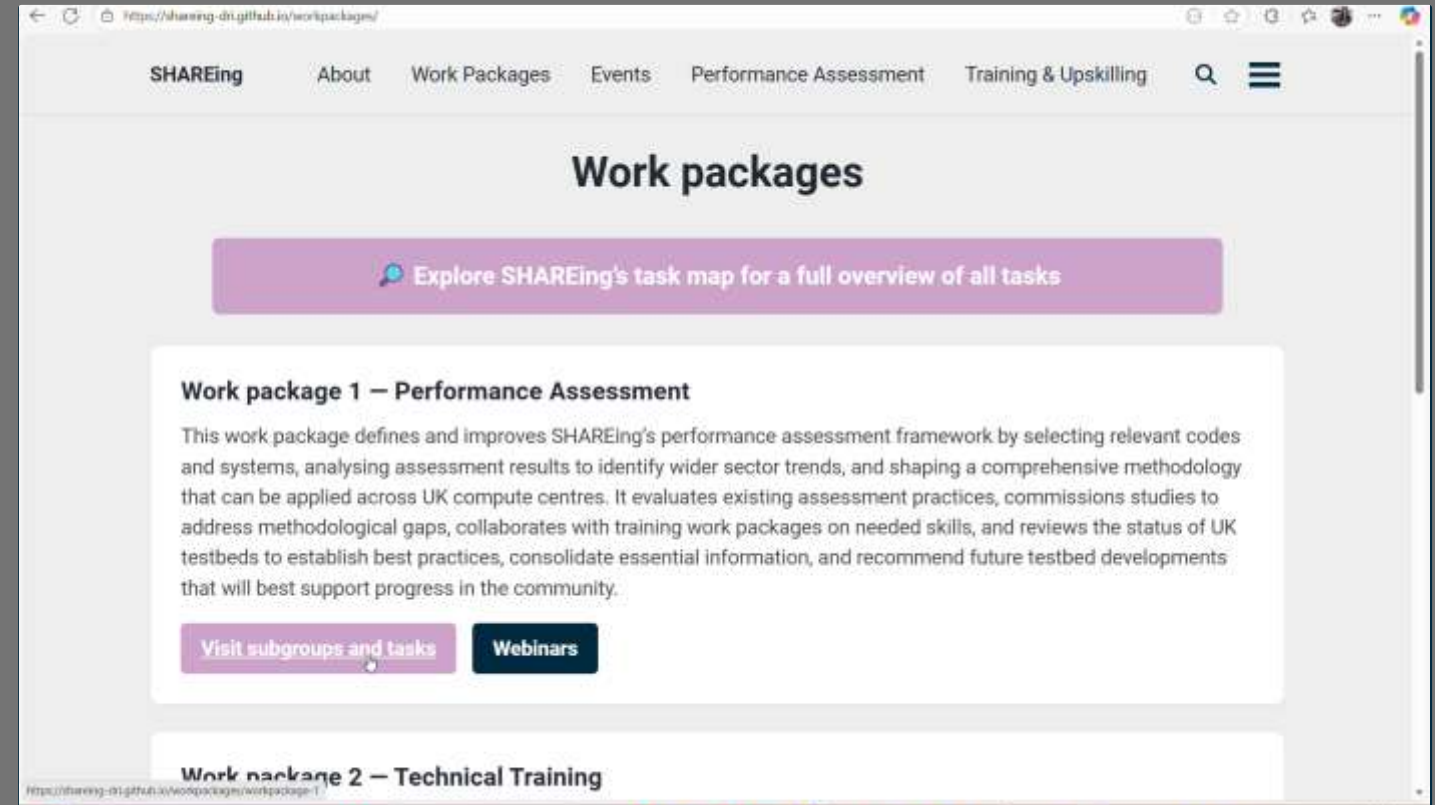
WP2:  
Technical  
Training

WP3:  
Professional  
Skills Training

Subgroups

Subgroups

Subgroups



<https://shareing-dri.github.io/>

## Work Packages

WP1:  
Performance  
Assessment

WP2:  
Technical  
Training

WP3:  
Professional  
Skills Training

Subgroups

Open Tasks

Subgroups

Open Tasks

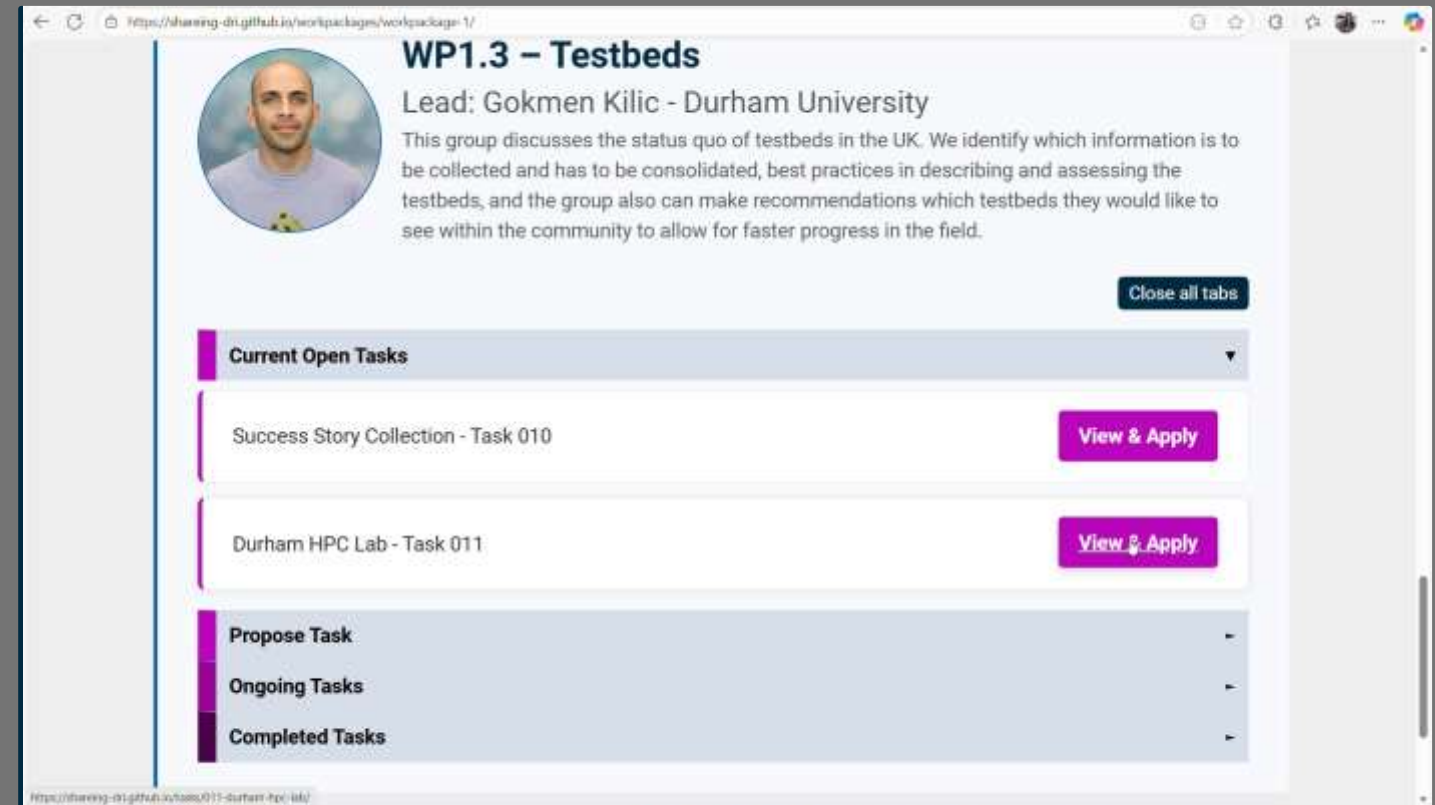
Subgroups

Open Tasks

RTPs members of the  
consortium institutions

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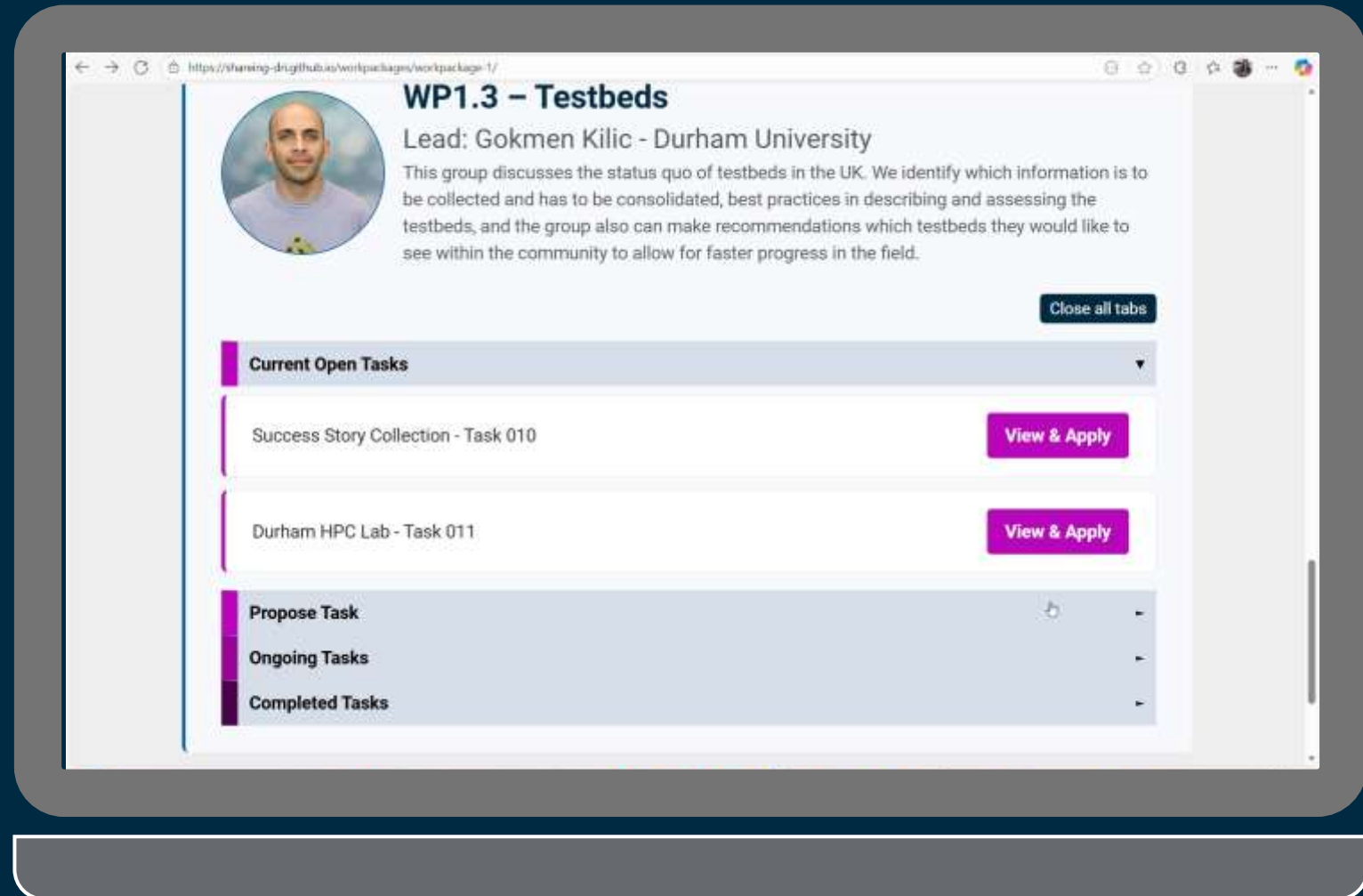
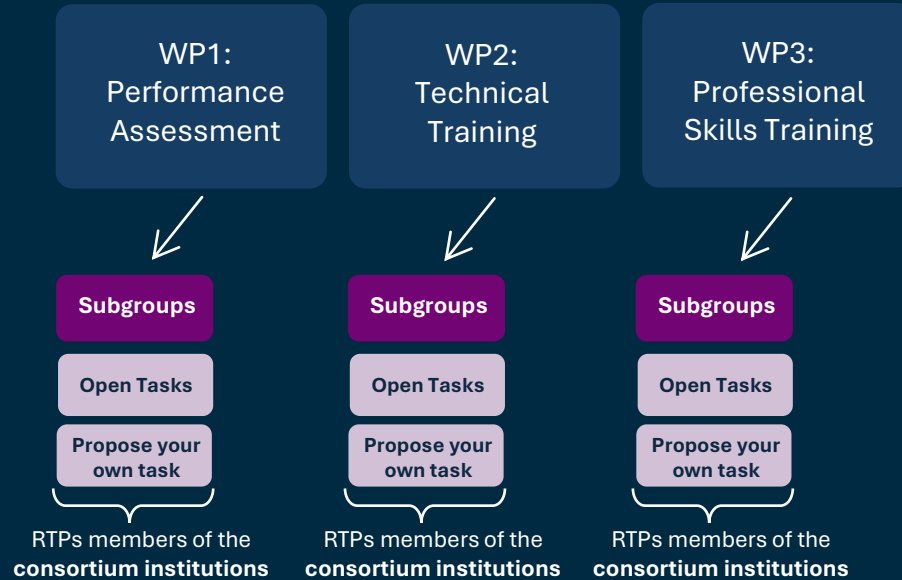




# Propose Your Own Task

<https://shareing-dri.github.io/>

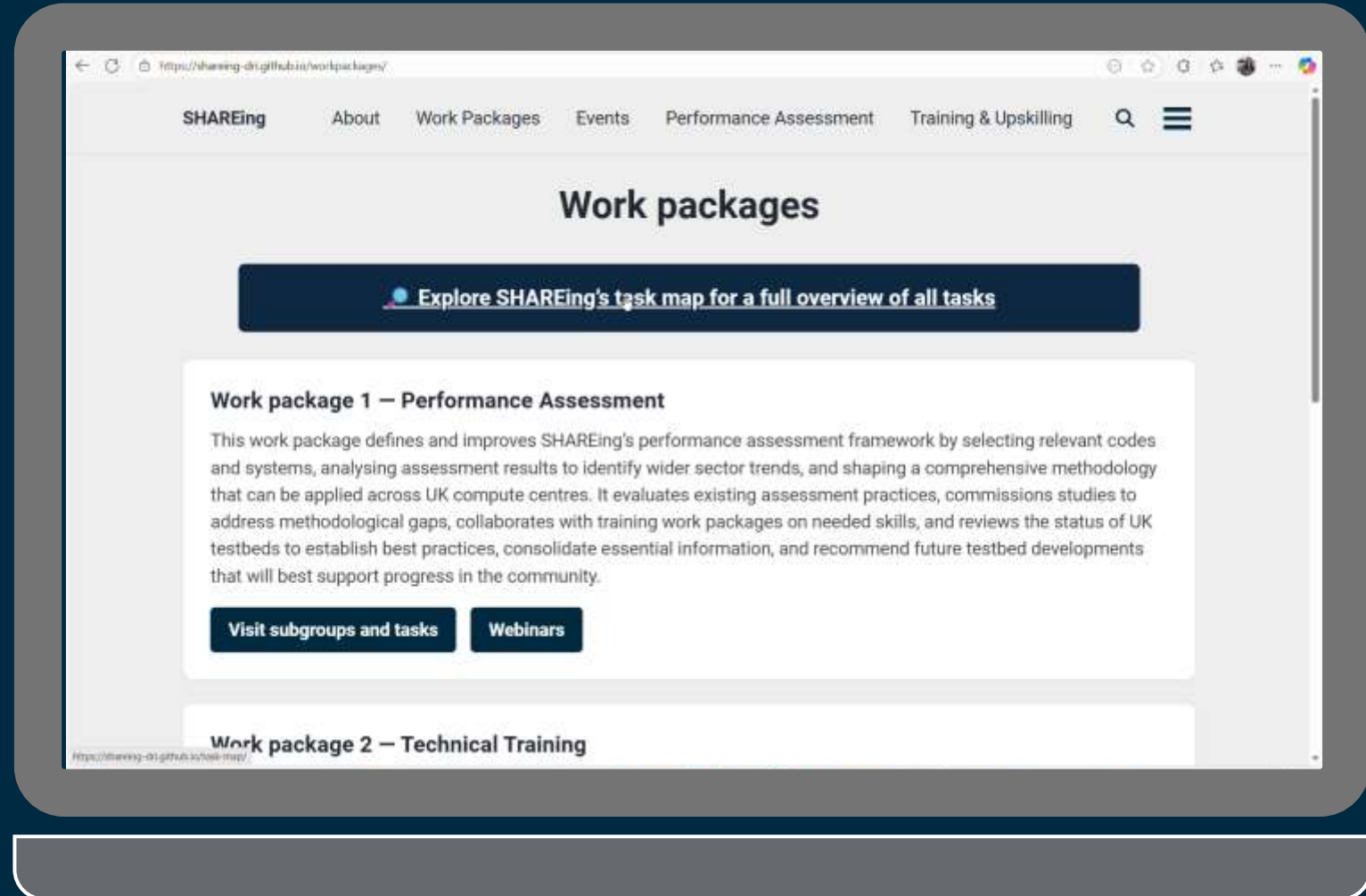
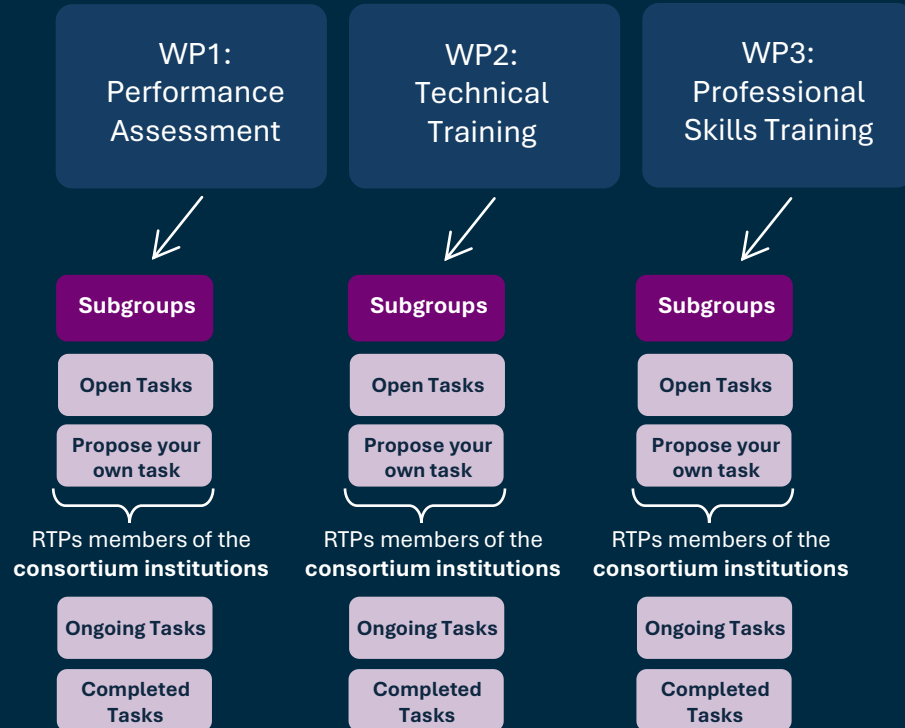
## Work Packages



# Visit Ongoing and Completed Tasks

<https://shareing-dri.github.io/>

## Work Packages

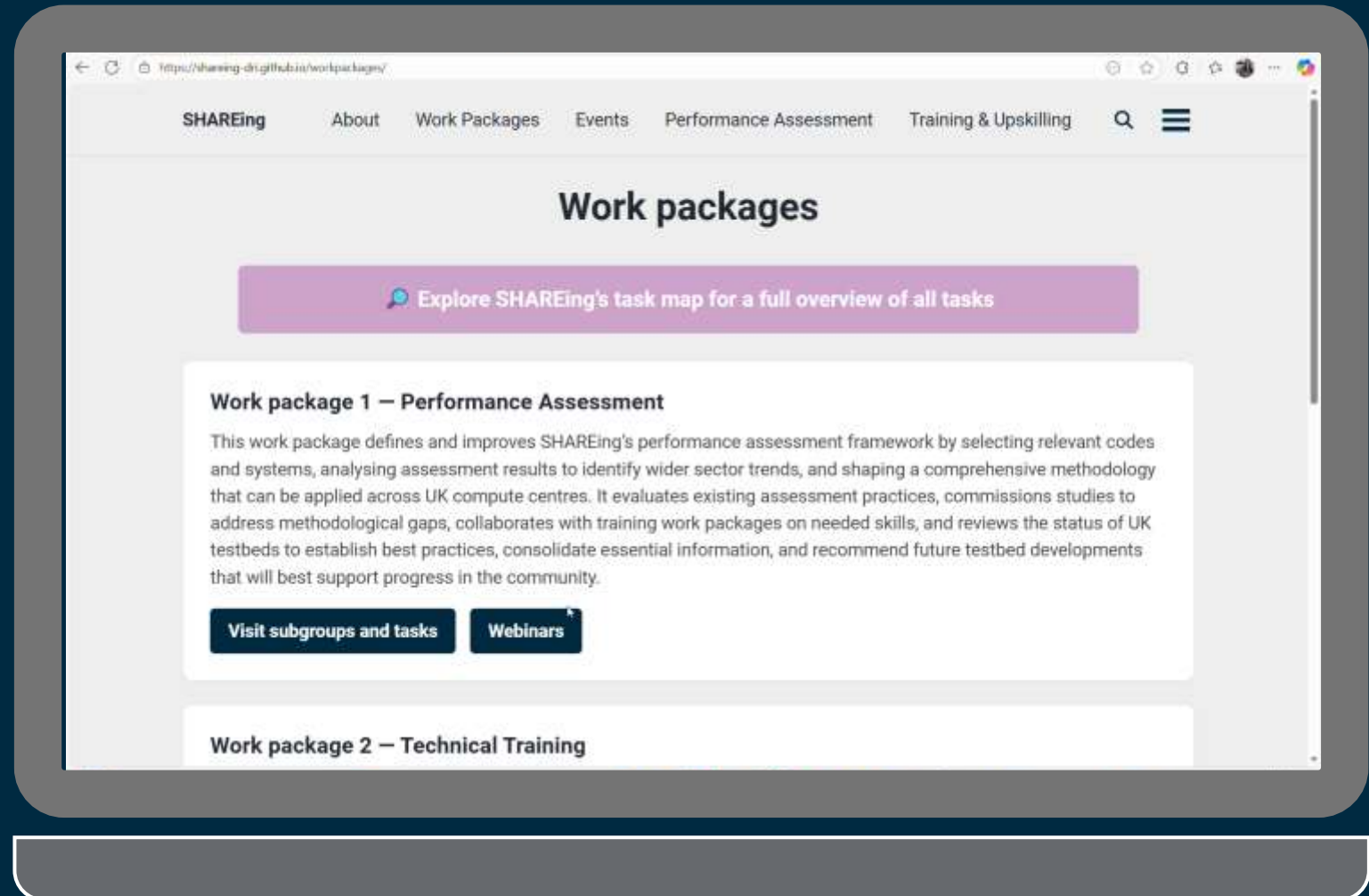
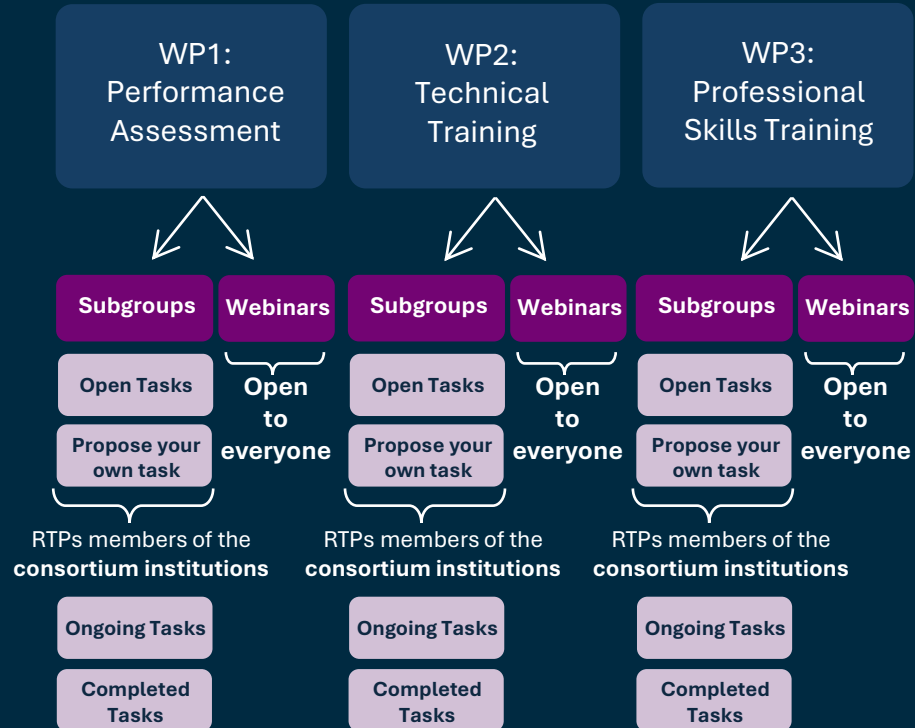




# Visit SHAREing's website

<https://shareing-dri.github.io/>

## Work Packages





# Get in touch!

SHAREing's Website

<https://shareing-dri.github.io/>



SHAREing's LinkedIn



SHAREing's Bluesky





**15<sup>th</sup> – 19<sup>th</sup> June 2026**



**Registration is  
now open!**



**Call for sessions  
closing on the  
31<sup>st</sup> of January**