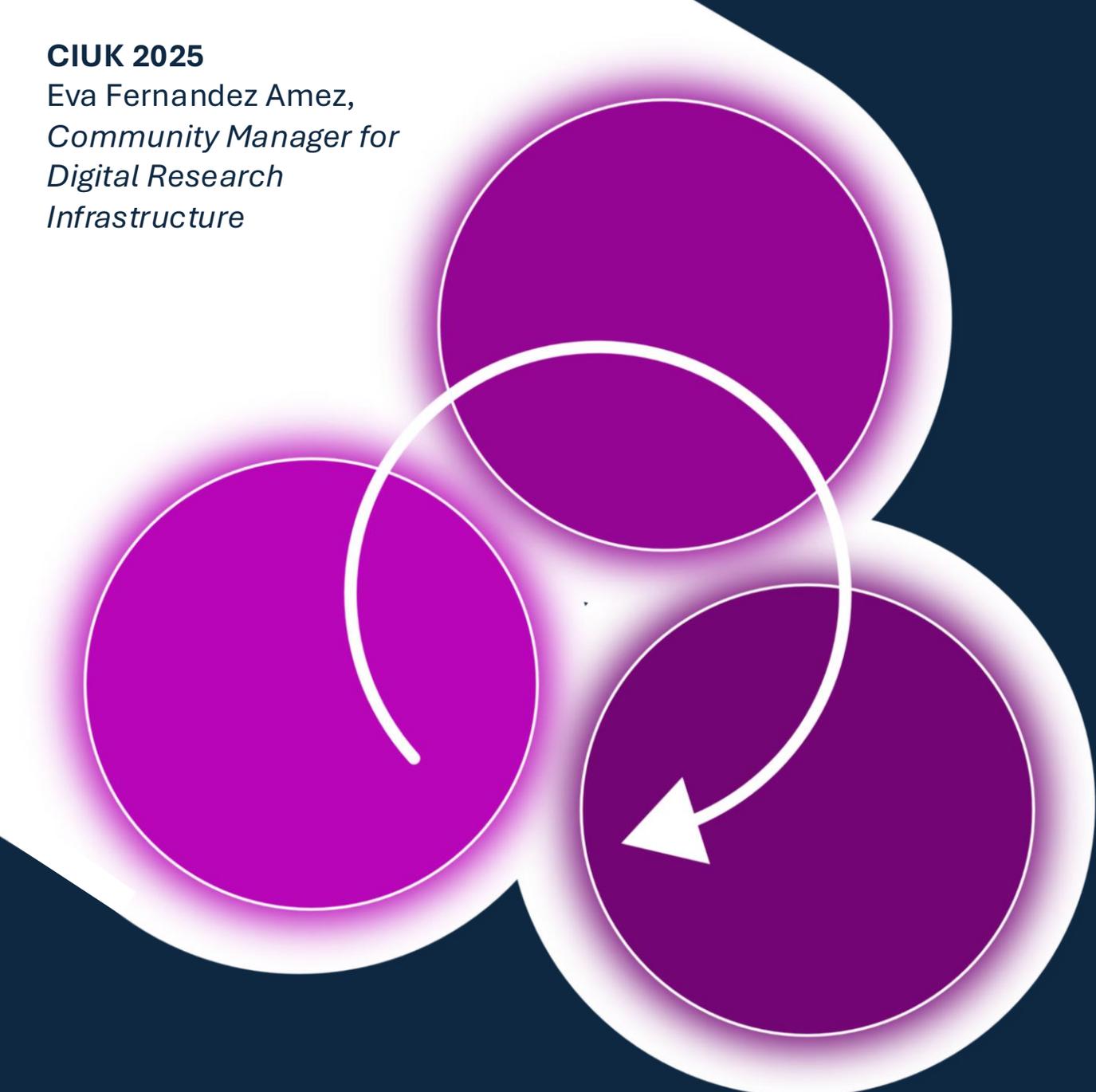


CIUK 2025

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

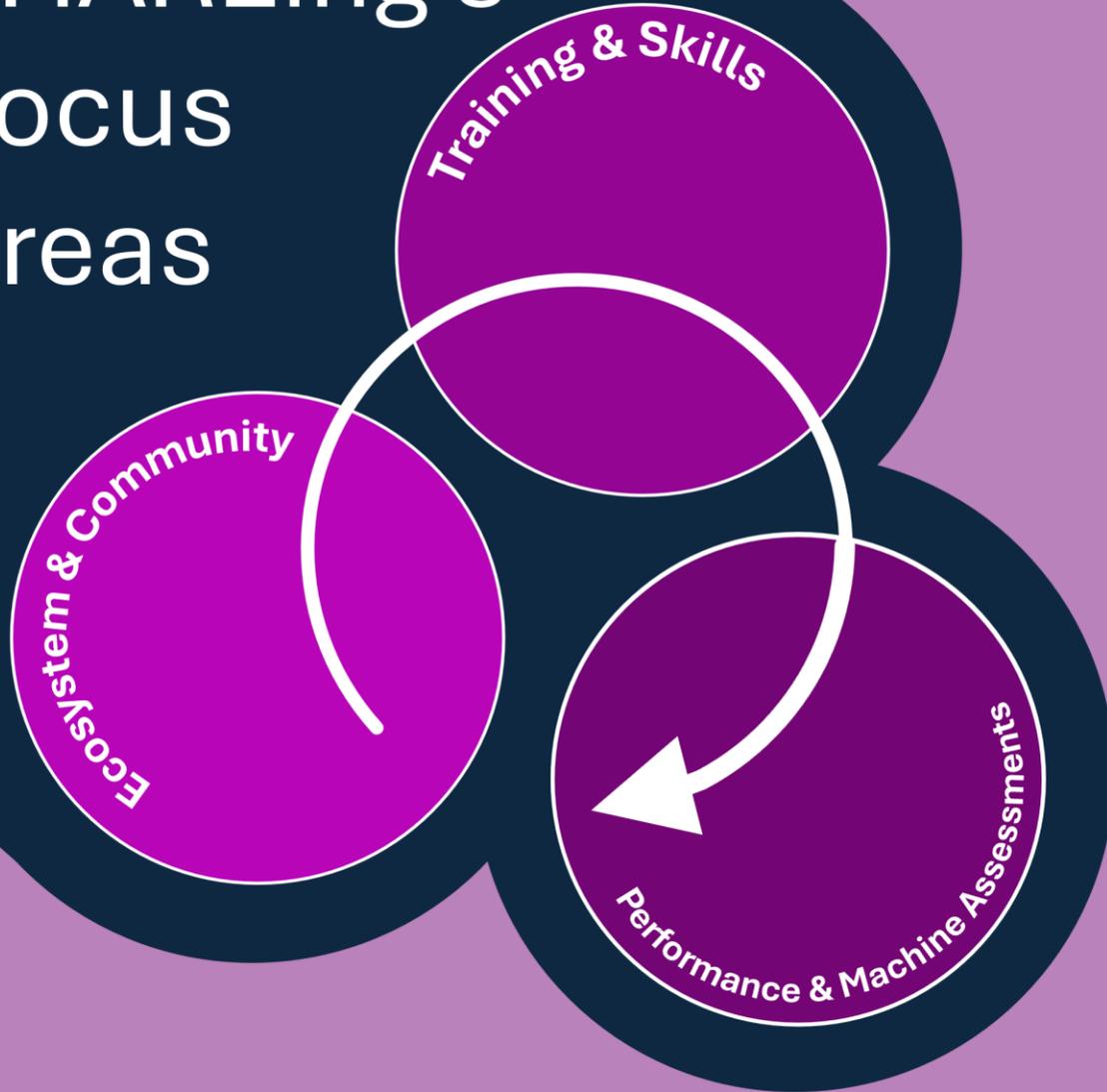


University of Sheffield



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

KEEP
CALM
KEEP
SHAREing

Let's have a
cuppa and
do some
SHAREing
shall we?

Universities of the
United Kingdom



**Pillar 1:
Performance &
Machine
Assessments**

Pillar 2: Training & Skills

**Pillar 3:
Ecosystem &
Community**





**Pillar 1:
Performance &
Machine
Assessments**

Pillar 2: Training & Skills

**Pillar 3:
Ecosystem &
Community**

WP1: Performance
assessment

WP2:
Technical Training

WP3:
Professional skills

WP4: Outreach,
stakeholder engagement
and capacity building



Pillar 1: Performance & Machine Assessments

WP1: Performance assessment

WP 1.1: 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

WP3: Professional skills

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WP3.7: Engage in Knowledge Exchange DRI initiative

WP3.8: 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

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: Host special interest group and workshops on hardware/hybrid computing

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

Pillar 2: Training & Skills

WP2: Technical Training

WP2.1: 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

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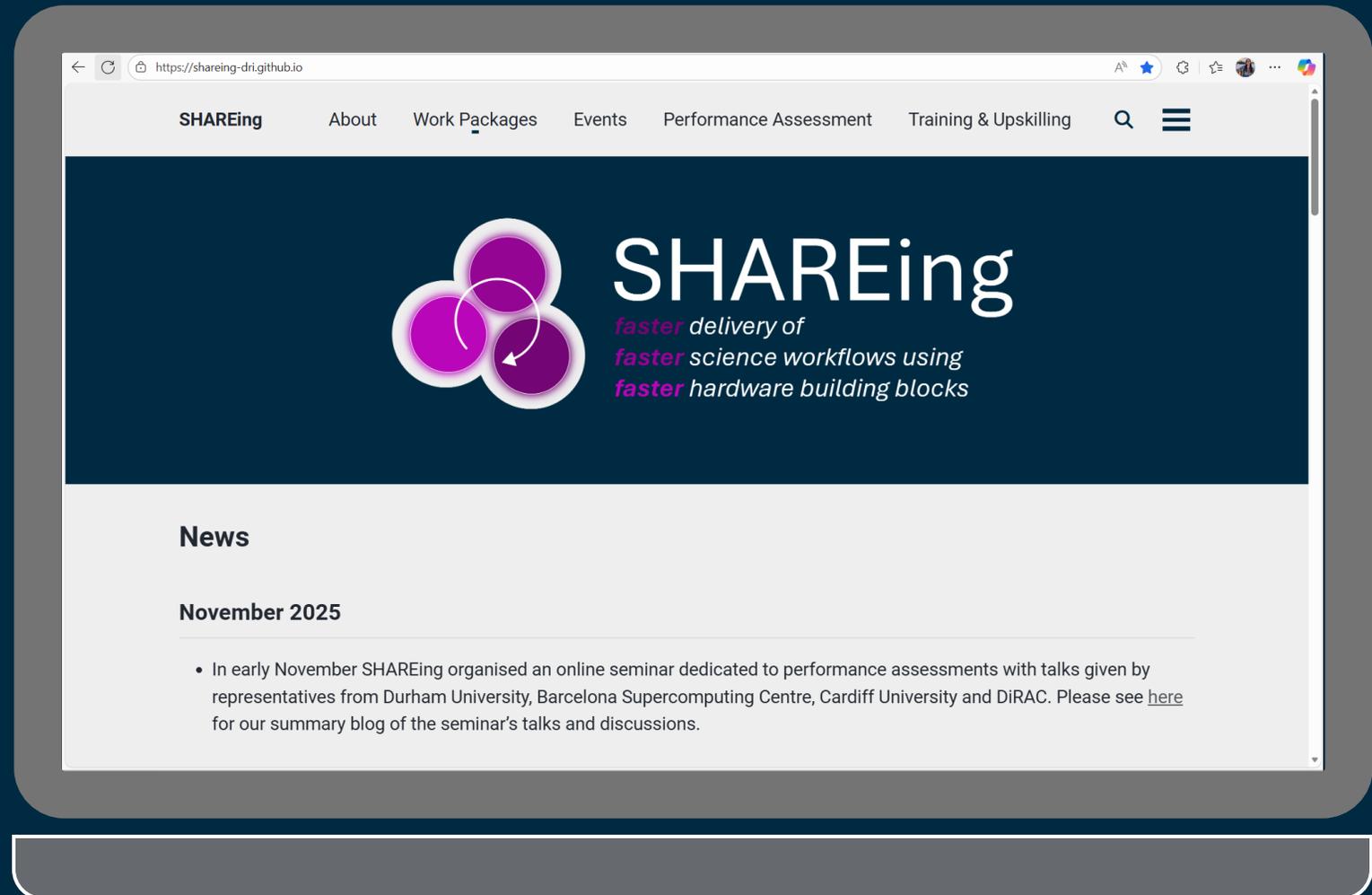
WP4.4: International outreach focus group with links to EU initiatives and US partners.

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

The screenshot shows the SHAREing website homepage. At the top, there is a navigation menu with links for 'SHAREing', 'About', 'Work Packages', 'Events', 'Performance Assessment', and 'Training & Upskilling'. The main header features the SHAREing logo, which consists of three overlapping purple circles with white arrows forming a cycle. To the right of the logo, the text reads 'SHAREing' in large white letters, followed by the tagline 'faster delivery of faster science workflows using faster hardware building blocks' in smaller white text. Below the header, there is a 'News' section with a sub-heading 'November 2025'. A single news item is listed: 'In early November SHAREing organised an online seminar dedicated to performance assessments with talks given by representatives from Durham University, Barcelona Supercomputing Centre, Cardiff University and DiRAC. Please see [here](#) for our summary blog of the seminar's talks and discussions.'

Each Work Package is divided into subgroups



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

Work Packages



SHAREing About Work Packages Events Performance Assessment Training & Upskilling

Work packages

[Explore SHAREing's task map for a full overview of all tasks](#)

Work package 1 – Performance Assessment

This work package defines and improves SHAREing's performance assessment framework by selecting relevant codes and systems, analysing assessment results to identify wider sector trends, and shaping a comprehensive methodology that can be applied across UK compute centres. It evaluates existing assessment practices, commissions studies to address methodological gaps, collaborates with training work packages on needed skills, and reviews the status of UK testbeds to establish best practices, consolidate essential information, and recommend future testbed developments that will best support progress in the community.

[Visit subgroups and tasks](#) [Webinars](#)

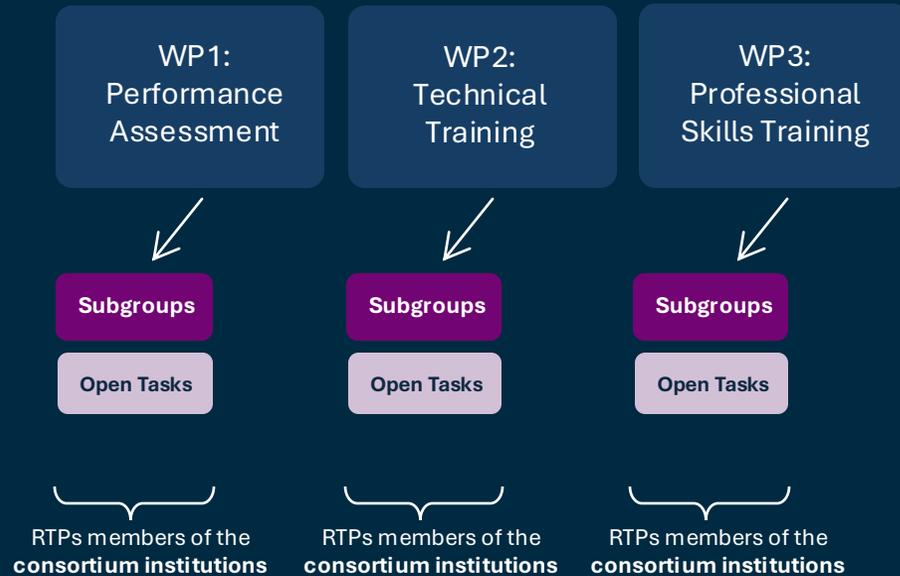
Work package 2 – Technical Training



Apply to Open Tasks

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

Work Packages



WP1.3 – Testbeds
 Lead: Gokmen Kilic - Durham University
 This group discusses the status quo of testbeds in the UK. We identify which information is to be collected and has to be consolidated, best practices in describing and assessing the testbeds, and the group also can make recommendations which testbeds they would like to see within the community to allow for faster progress in the field.

Close all tabs

Current Open Tasks

- Success Story Collection - Task 010 [View & Apply](#)
- Durham HPC Lab - Task 011 [View & Apply](#)

Propose Task

Ongoing Tasks

Completed Tasks

<https://shareing-dri.github.io/tasks/011-durham-hpc-lab/>

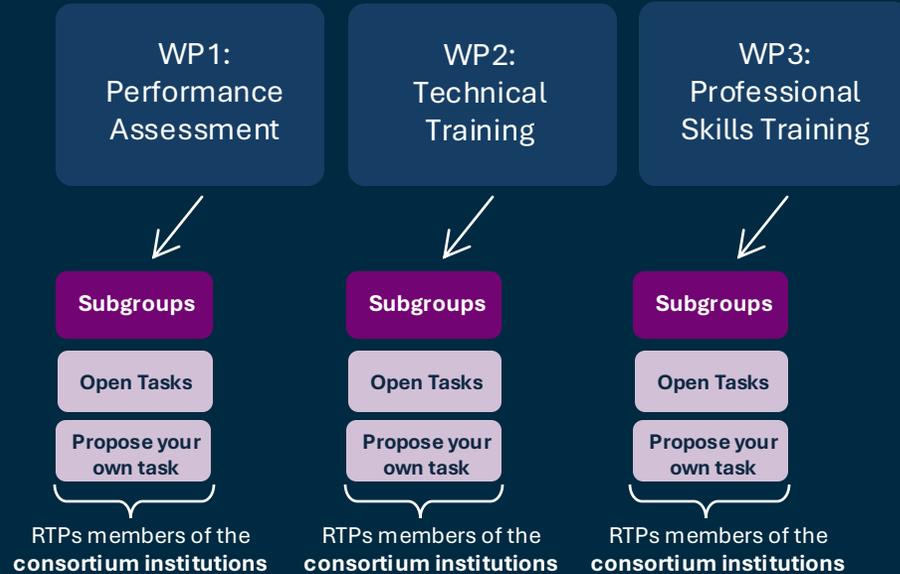




Propose Your Own Task

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

Work Packages



<https://shareing-dri.github.io/workpackages/workpackage-1/>

WP1.3 – Testbeds

Lead: Gokmen Kilic - Durham University

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Propose Task

Ongoing Tasks

Completed Tasks

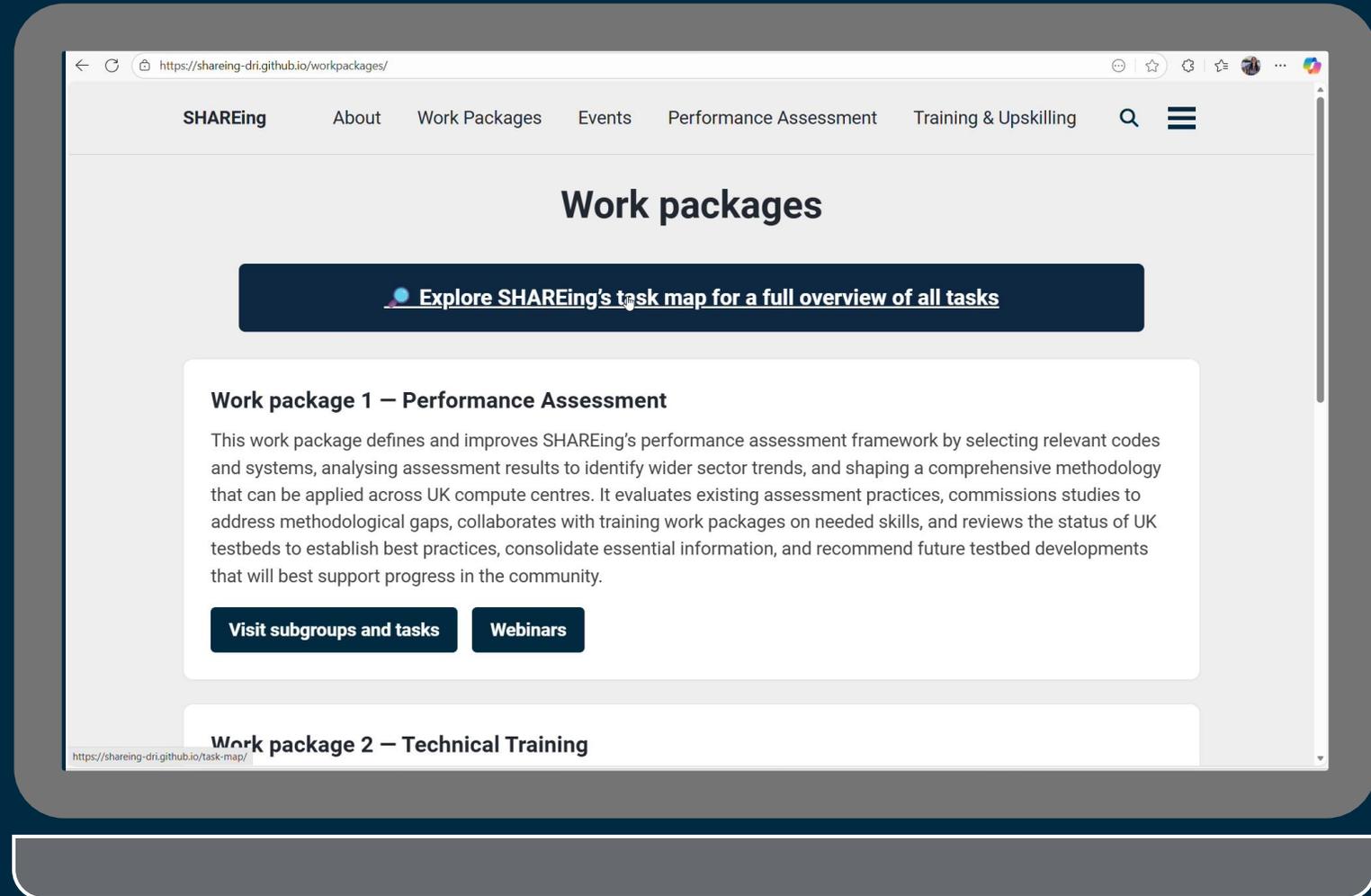
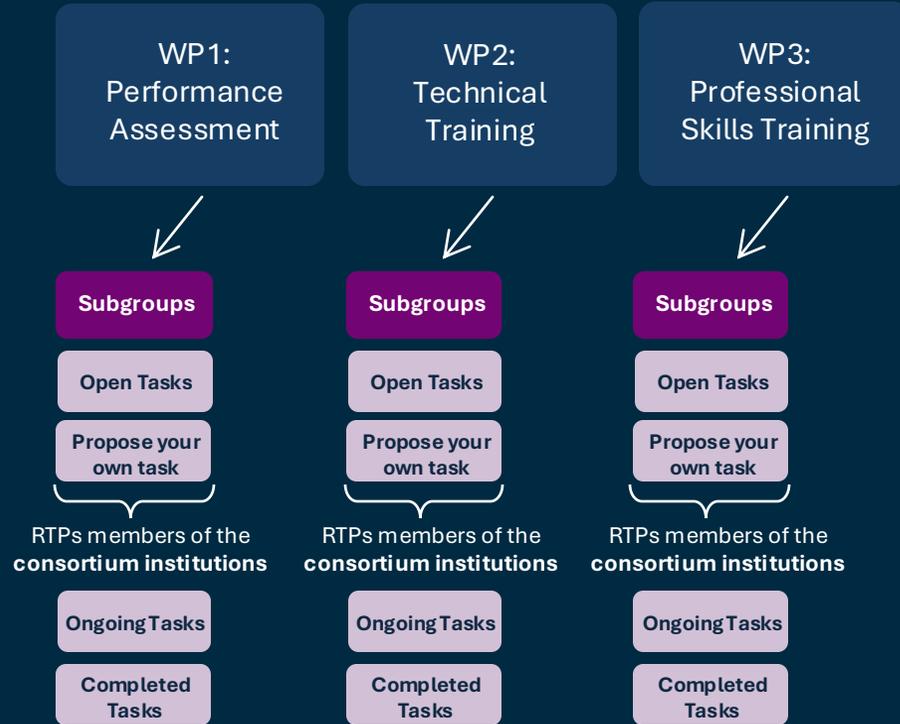




Visit Ongoing and Completed Tasks

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

Work Packages

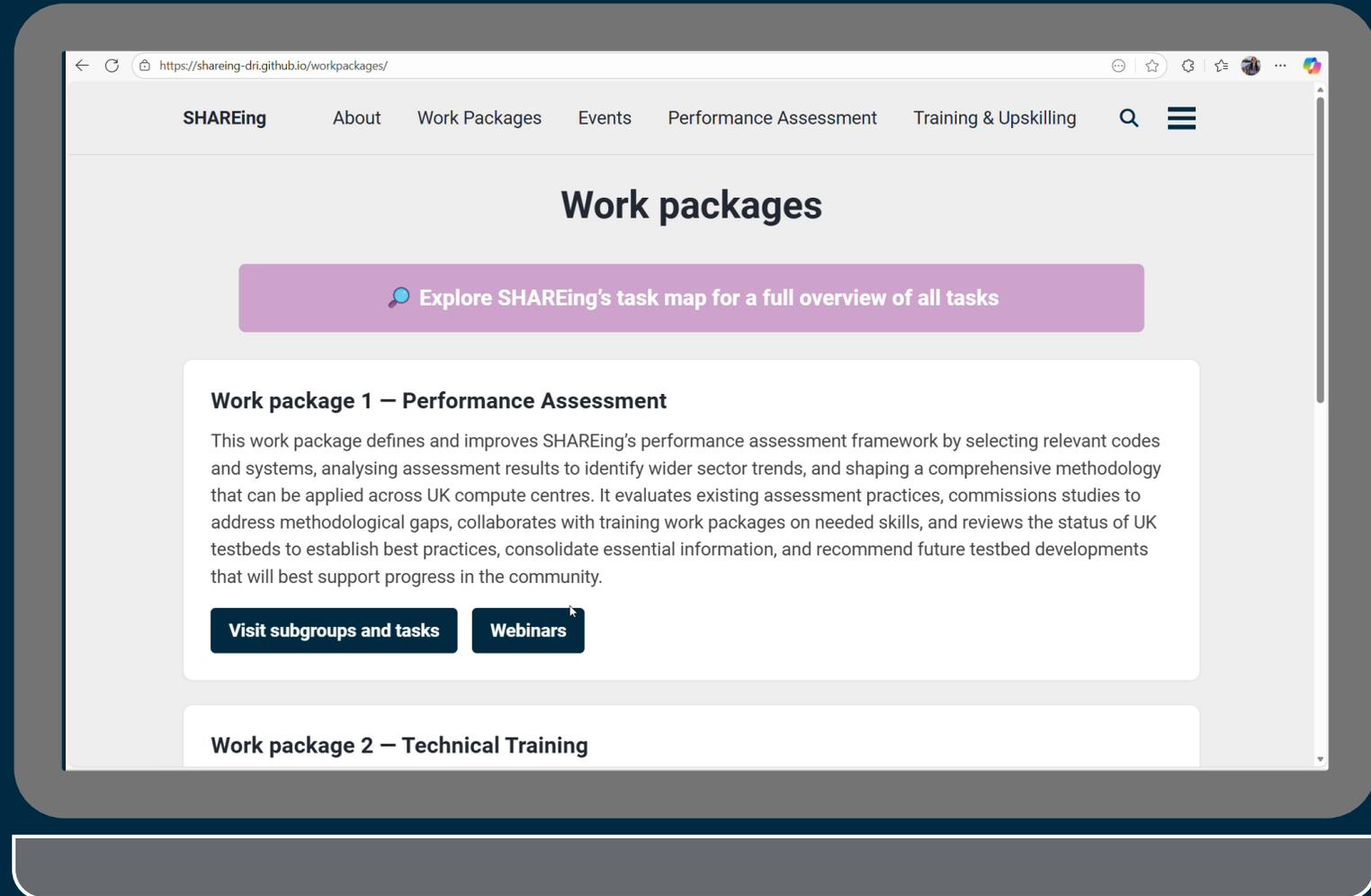
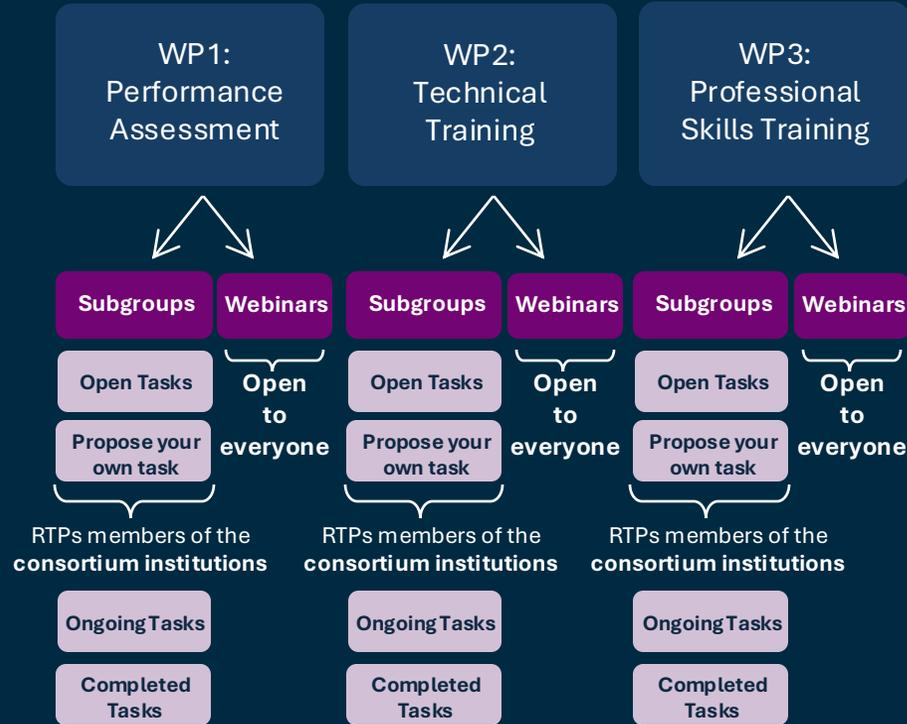




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Work Packages





Get in touch!

SHAREing's Website

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



SHAREing's LinkedIn



SHAREing's Bluesky



15th – 19th June 2026

DURHAM
HPC 20
DAYS 26



**Registration is
now open!**



**Call for sessions
closing on the
31st of January**