



# 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

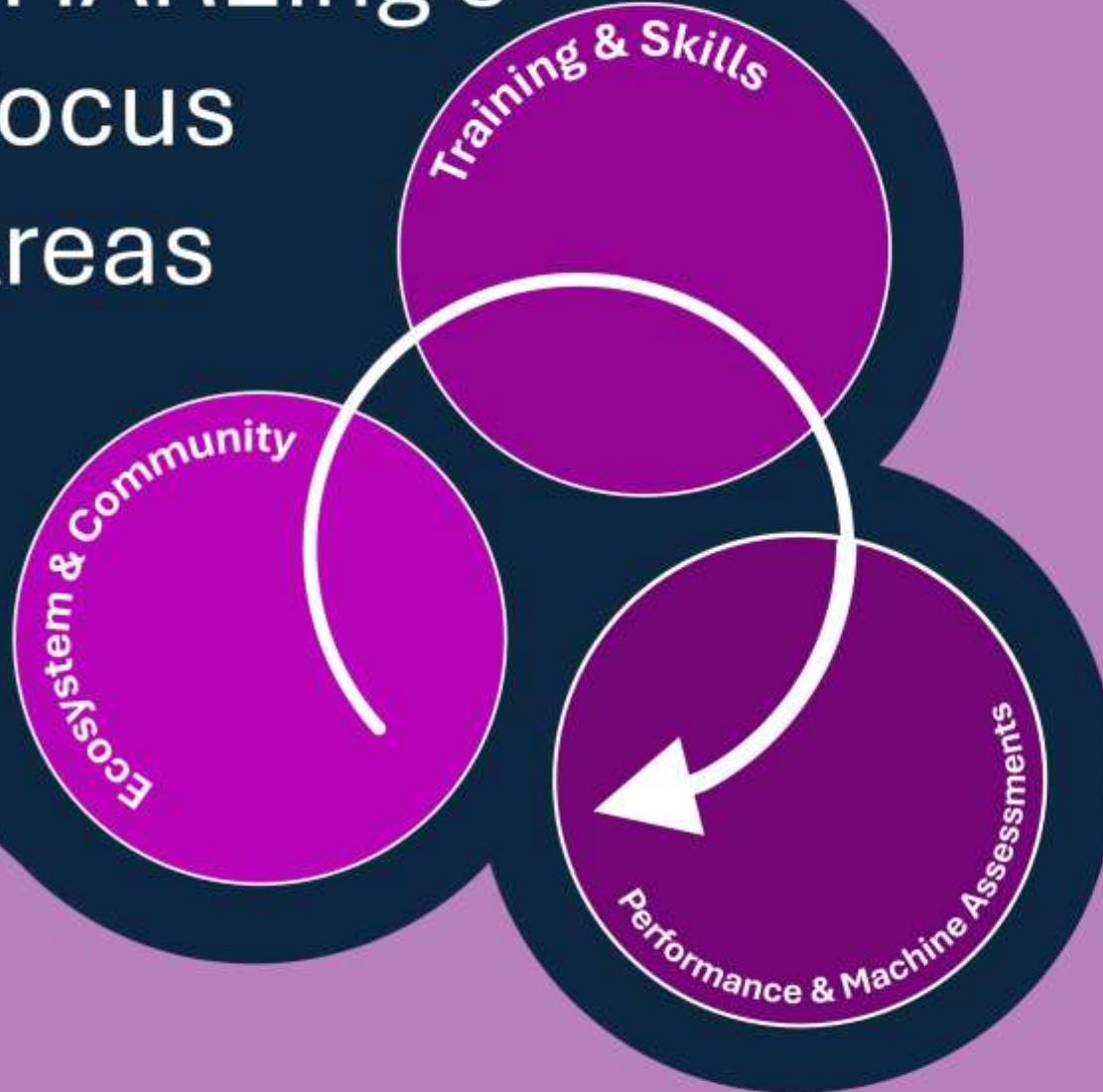


University of Sheffield



Swansea University

# SHAREing's Focus Areas



**Pillar 1:**  
**Performance & Machine  
Assessments**

**Pillar 2:**  
**Training & Skills**

**Pillar 3:**  
**Ecosystem & Community**

# SHAREing's FOCUS Areas



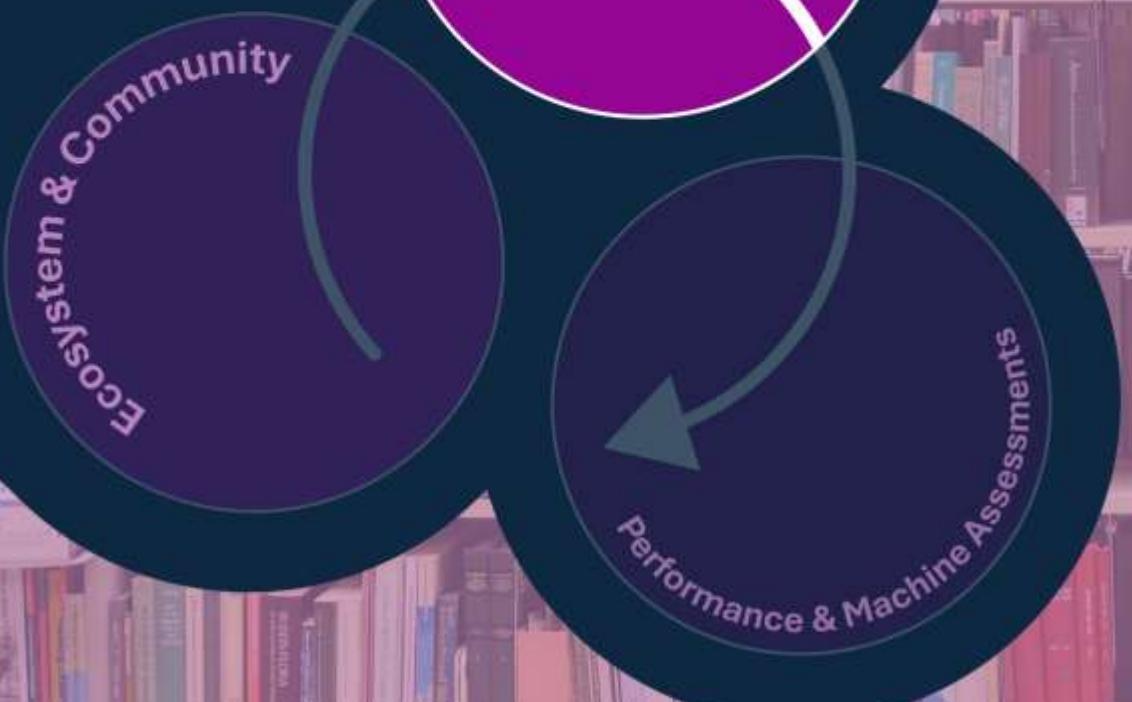
## Pillar 1: Performance & Machine Assessments

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



KEEP  
CALM  
KEEP  
SHAREing

## 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**

**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

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

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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WP3.8: 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

WP4.1: Liaise with compute centres, RTP communities, and lobby groups

WP4.2: Liaise with vendor, industry and business representatives for bidirectional knowledge exchange regarding upskilling.

WP4.3: 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).

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



## Pillar 1: Performance & Machine Assessments

### WP1: Performance assessment

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## Pillar 3: Ecosystem & Community

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

WP4.1: Create web compendium content with communities and lobby groups

WP4.2: Share with experts, industry and business knowledge resources for transfer of knowledge exchange/training/aggregating.

WP4.3: Monitoring and trend monitoring in collaboration with the Knowledge Exchange Office. This includes establishing a network of International Regional partners (e.g. ISC, SCIA, as well as local events (e.g. CINE, HYC Days and TICAM).

WP4.4: Implementing outreach programme with links to EU universities and all partners.



Visit SHAREing's website

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

## Work Packages

The screenshot shows the homepage of the SHAREing website. At the top, there is a navigation bar with links for 'SHAREing', 'About', 'Work Packages' (which is underlined), 'Events', 'Performance Assessment', 'Training & Upskilling', a search icon, and a menu icon. Below the navigation bar is a dark blue header section featuring the SHAREing logo (three purple circles with white arrows) and the text 'SHAREing' in large white letters, followed by a subtitle: 'faster delivery of faster science workflows using faster hardware building blocks'. The main content area has a light gray background. It features a 'News' section with a heading 'November 2025' and a single bullet point: '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.' There is also a long horizontal redacted area at the bottom of the page.



# 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 a web browser window displaying the SHAREing website at <https://shareing-dri.github.io/>. The page features a dark blue header with the SHAREing logo on the left and navigation links for About, Work Packages, Events, Performance Assessment, and Training & Upskilling. A search icon and a menu icon are also present. The main content area has a dark blue background with the SHAREing logo and tagline "faster delivery of faster science workflows using faster hardware building blocks". Below this, a "News" section is visible, showing a "November 2025" update with a bullet point about an online seminar.

SHAREing

faster delivery of  
faster science workflows using  
faster hardware building blocks

News

November 2025

- 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

WP1:  
Performance  
Assessment

WP2:  
Technical  
Training

WP3:  
Professional  
Skills Training



Subgroups



Subgroups



Subgroups

The screenshot shows the SHAREing website's 'Work Packages' section. At the top, there is a navigation bar with links for 'SHAREing', 'About', 'Work Packages', 'Events', 'Performance Assessment', 'Training & Upskilling', a search icon, and a menu icon. Below the navigation, the page title 'Work packages' is displayed. A pink callout box contains the text: 'Explore SHAREing's task map for a full overview of all tasks'. The first work package, 'Work package 1 – Performance Assessment', is highlighted with a pink background. Its description reads: '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.' Below the description are two buttons: 'Visit subgroups and tasks' (pink) and 'Webinars' (dark blue). The second work package, 'Work package 2 – Technical Training', is partially visible at the bottom.



# Apply to Open Tasks

<https://sharing-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

RTPs members of the  
consortium institutions

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consortium institutions

The screenshot shows a web browser window with the URL <https://sharing-dri.github.io/workpackages/workpackage-1/>. The page title is "WP1.3 – Testbeds". It features a profile picture of Gokmen Kilic from Durham University. Below the title, a text block describes the group's purpose: "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." A "Close all tabs" button is in the top right corner.

**Current Open Tasks**

- Success Story Collection - Task 010 View & Apply
- Durham HPC Lab - Task 011 View & Apply

**Propose Task**

**Ongoing Tasks**

**Completed Tasks**



# Propose Your Own Task

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

## Work Packages

WP1:  
Performance  
Assessment

WP2:  
Technical  
Training

WP3:  
Professional  
Skills Training



Subgroups

Open Tasks

Propose your  
own task

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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



# Visit Ongoing and Completed Tasks

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

## Work Packages

WP1:  
Performance  
Assessment

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Ongoing Tasks

Ongoing Tasks

Ongoing Tasks

Completed  
Tasks

Completed  
Tasks

Tasks

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

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

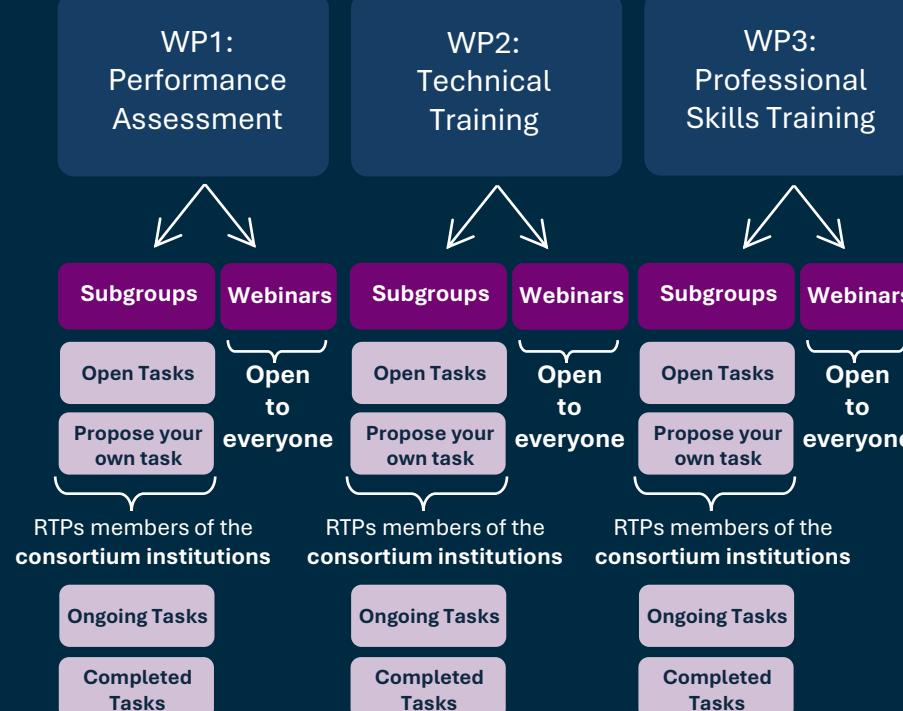




Visit SHAREing's website

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## Work Packages



The screenshot shows the "Work packages" section of the website:

- Work packages** header.
- A call-to-action button: **Explore SHAREing's task map for a full overview of all tasks**.
- Work package 1 – Performance Assessment**:
  - Description: 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.
  - Buttons: **Visit subgroups and tasks** and **Webinars\***.
- Work package 2 – Technical Training**:
  - Buttons: **Visit subgroups and tasks** and **Webinars\***.



# Get in touch!

SHAREing's Website

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



SHAREing's LinkedIn



SHAREing's Bluesky



# DURHAM HPC 2026 DAYS



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