



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



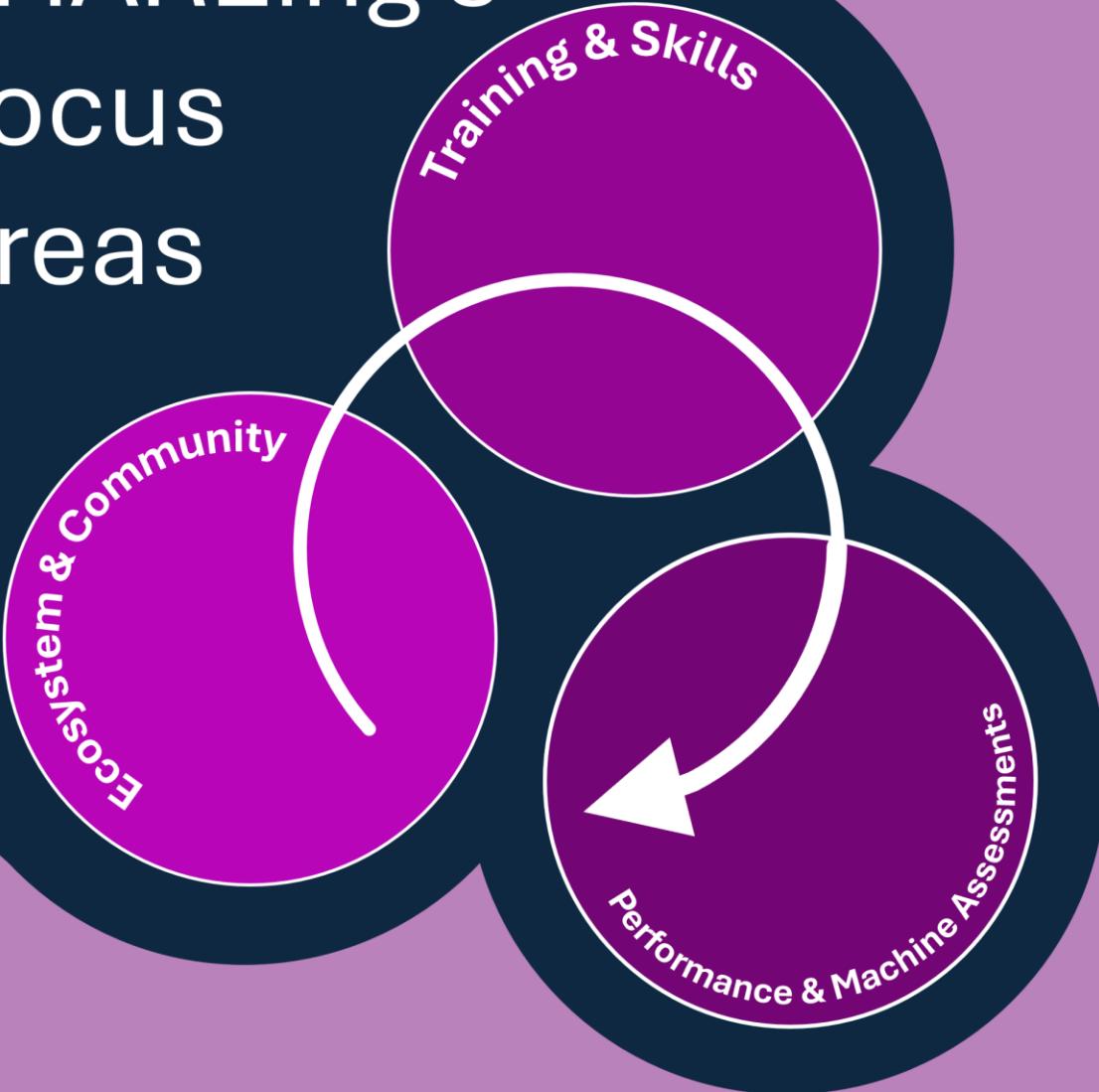
University of Sheffield



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

Ecosystem & Community

Training & Skills

Performance & Machine Assessments

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**

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

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

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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.



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Visit SHAREing's website

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

Work Packages

The screenshot shows the homepage of the SHAREing website at https://shareing-dri.github.io/. The page features a dark blue header with the SHAREing logo and navigation links for About, Work Packages, Events, Performance Assessment, and Training & Upskilling. Below the header is a large dark blue banner with the SHAREing logo and the text "faster delivery of faster science workflows using faster hardware building blocks". The main content area is white and displays a "News" section for November 2025, which includes a bullet point about an online seminar on performance assessments.

SHAREing

About Work Packages Events Performance Assessment Training & Upskilling

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.



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 homepage of the SHAREing website. At the top, there is a navigation bar with links for 'SHAREing', 'About', 'Work Packages', 'Events', 'Performance Assessment', and 'Training & Upskilling'. To the right of the navigation bar are search and menu icons. The main header features the 'SHAREing' logo (three overlapping circles with arrows) and the text 'faster delivery of faster science workflows using faster hardware building blocks'. Below the header, there is a section titled 'News' with a sub-section for 'November 2025'. A bullet point lists an online seminar dedicated to performance assessments.

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

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November 2025

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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 title 'Work packages' is displayed. A call-to-action button says 'Explore SHAREing's task map for a full overview of all tasks'. Three cards represent the work packages: 'Work package 1 – Performance Assessment', 'Work package 2 – Technical Training', and 'Work package 3 – Professional Skills Training'. Each card has a brief description and two buttons at the bottom: 'Visit subgroups and tasks' (highlighted with a cursor) and 'Webinars'.



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

RTPs members of the
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 states: "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." A "Close all tabs" button is visible in the top right corner. The main content area is titled "Current Open Tasks" and lists two items: "Success Story Collection - Task 010" and "Durham HPC Lab - Task 011", each with a "View & Apply" button. Below this, there are sections for "Propose Task", "Ongoing Tasks", and "Completed Tasks". At the bottom of the page, the URL <https://sharing-dri.github.io/tasks/011-durham-hpc-lab/> is shown.



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Propose Your Own Task

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

Work Packages

WP1:
Performance
Assessment

WP2:
Technical
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Skills Training



Subgroups

Open Tasks

Propose your
own task

Subgroups

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RTPs members of the
consortium institutions

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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 circular profile picture of a man with a beard. Below the profile picture, the text reads "Lead: Gokmen Kilic - Durham University". A paragraph 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." On the right side of the page, there is a "Close all tabs" button. In the bottom right corner of the browser window, there is a small icon of three overlapping circles.

Current Open Tasks

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

Propose Task

Ongoing Tasks

Completed Tasks



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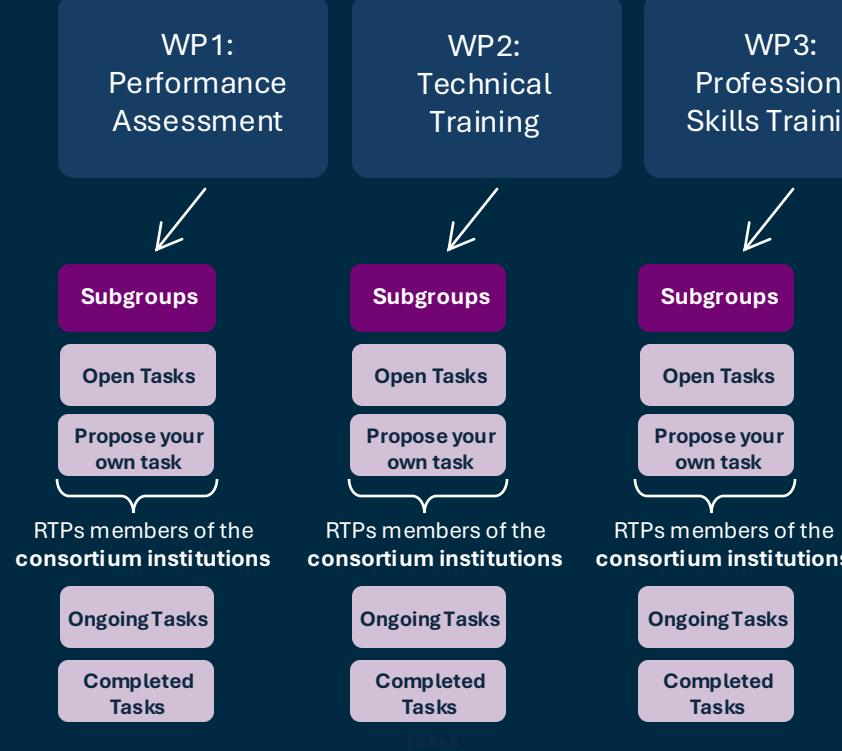
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University of London



Visit Ongoing and Completed Tasks

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

Work Packages



The screenshot shows the "Work packages" page of the [SHAREing](https://sharing-dri.github.io/workpackages/) website. The page features a header with navigation links: SHAREing, About, Work Packages, Events, Performance Assessment, Training & Upskilling, a search icon, and a menu icon. Below the header is a main title "Work packages" and a call-to-action button: "Explore SHAREing's task map for a full overview of all tasks". The page is divided into sections for each work package:

- Work package 1 – Performance Assessment**: Describes the work package's role in defining and improving the performance assessment framework. It includes a "Visit subgroups and tasks" button and a "Webinars" button.
- Work package 2 – Technical Training**: Describes the work package's role in technical training. It includes a link to the task map: <https://sharing-dri.github.io/task-map/>.



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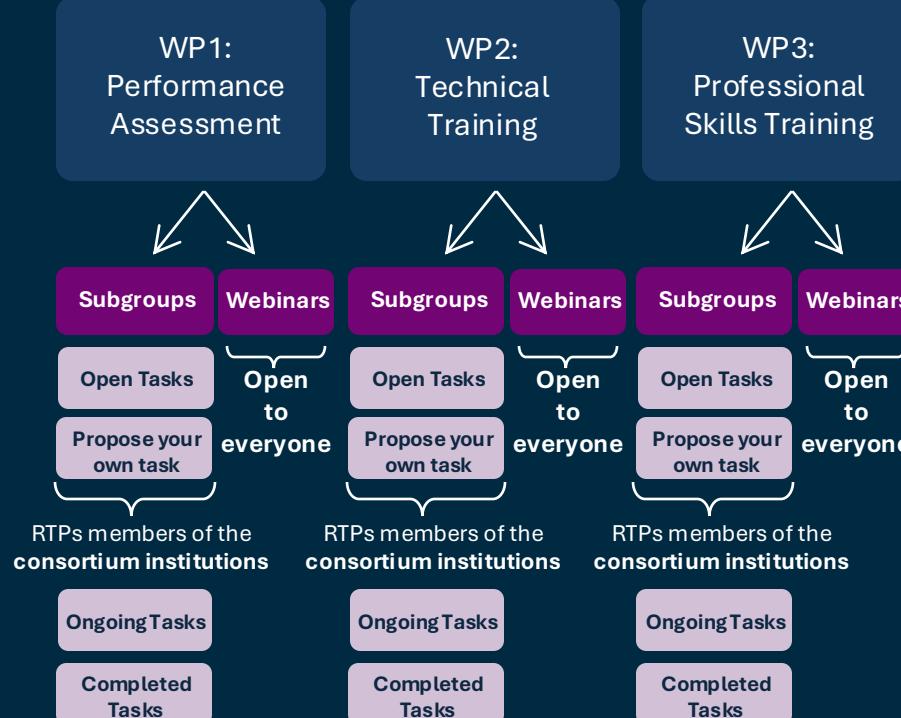
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Work Packages



The screenshot shows the official website for SHAREing. The header includes the title "SHAREing", a search bar, and a navigation menu with links to "About", "Work Packages", "Events", "Performance Assessment", and "Training & Upskilling". A sidebar on the left contains a search icon and a menu icon.

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



Get in touch!

SHAREing's Website

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



SHAREing's LinkedIn



SHAREing's Bluesky





DURHAM HPC DAYS 2026

15th – 19th June 2026



Registration is
now open!



Call for sessions
closing on the
31st of January