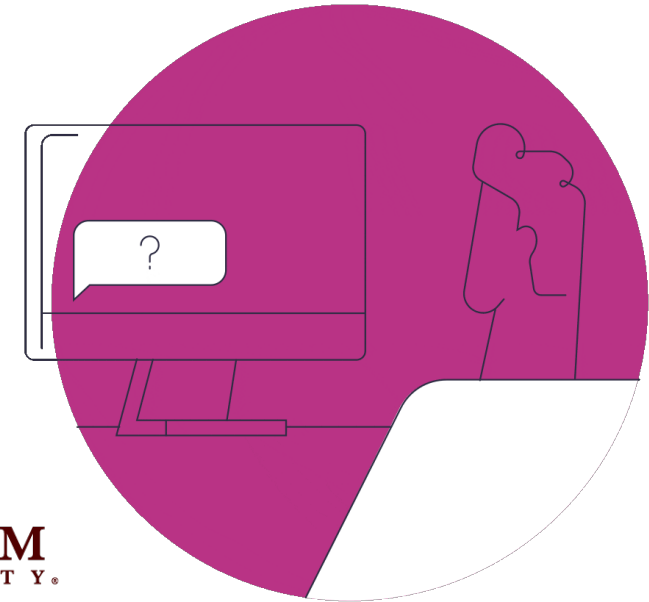
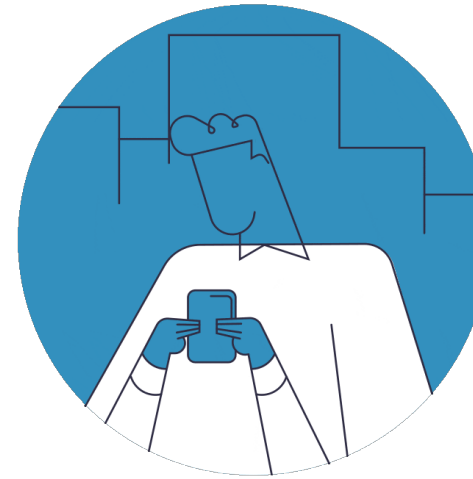


GOODLUCK: A Deeper Dive

Julie Ma, Dhruva Chakravorty

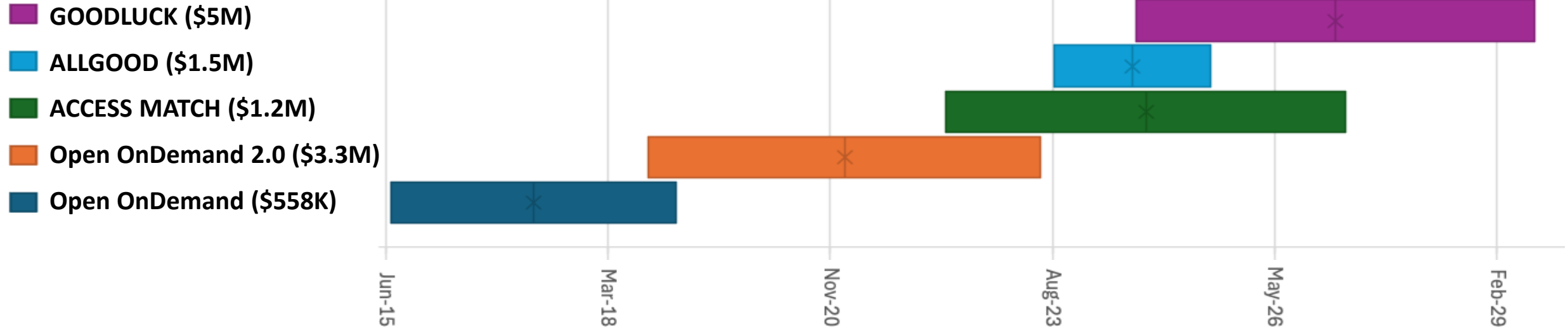
Lissie Fein, Alan Sussman, Karen Tomko



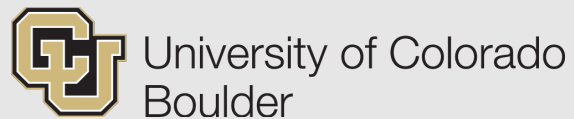
NSF Funding History



OPEN nDemand



COLLABORATORS

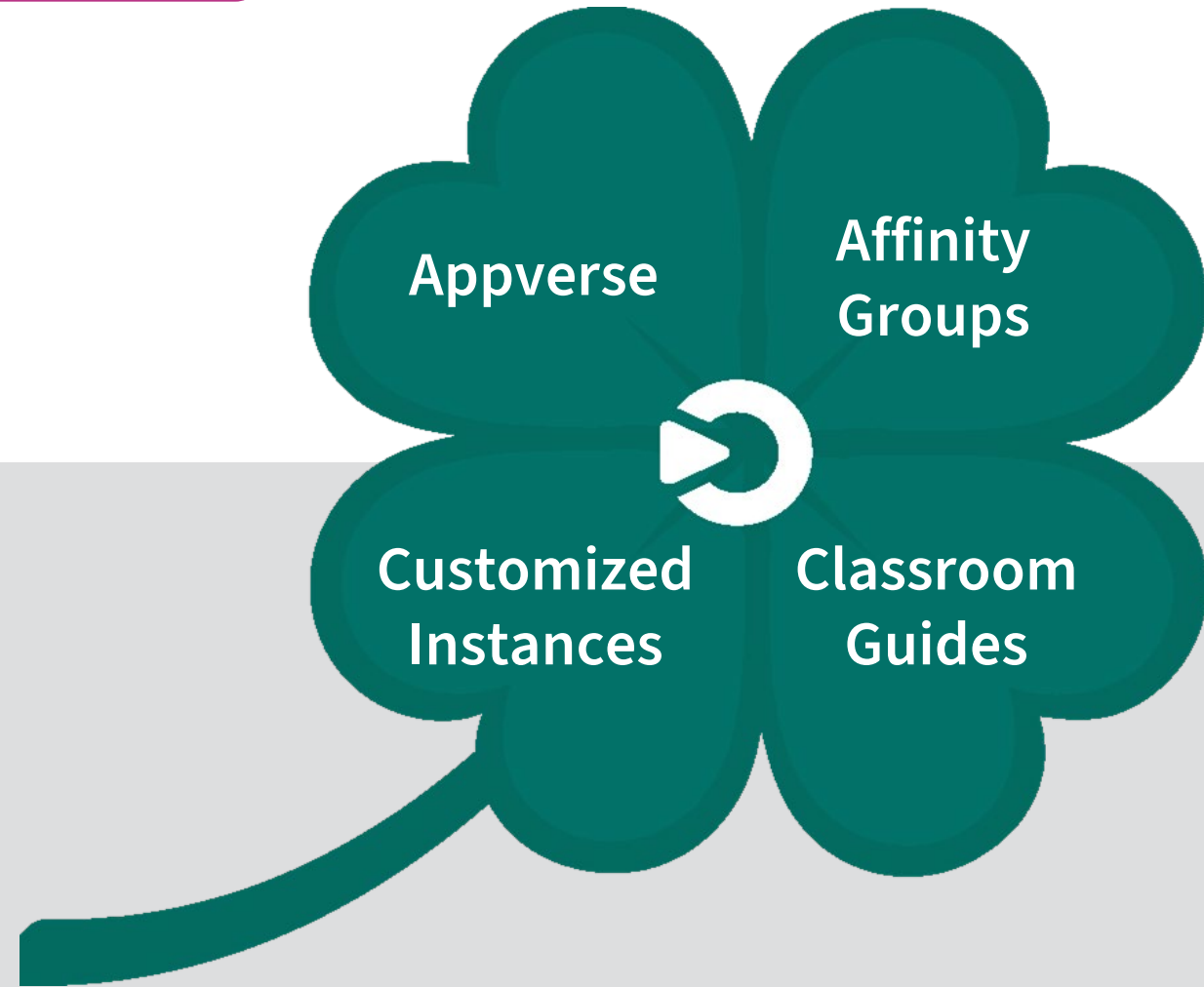


openondemand.org/history

GOODLUCK

Growing Open OnDemand: Leveraging Unified Community Knowledge

Domain solutions for the sciences,
engineering & education



Project Summary

Growing Open OnDemand: Leveraging Unified Community Knowledge (GOODLUCK)

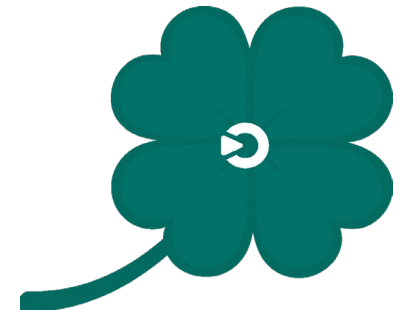
Provide tools and processes for researchers to enhance Open OnDemand use, analysis, and result sharing.

Intellectual Merit

- Service providers will provide scalable and accessible resources with a low barrier to entry
- Researchers, industry professionals, and students will tackle diverse science and engineering challenges
- Open OnDemand enables new opportunities, and accelerates scientific innovation

Broader Impacts

- Broader resource adoption across science domains and underrepresented communities
- Improved collaboration/consistency among researchers conducting “team science”
- Engagement with students (future clients of service providers)



Initial Science Drivers

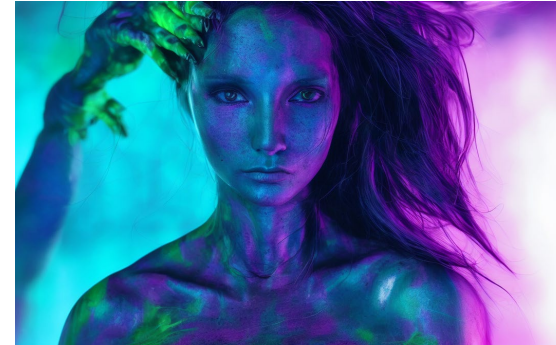
Proposed Focus Areas for Year 1



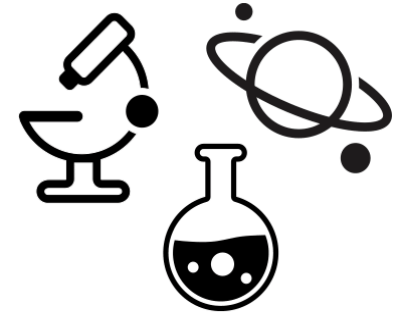
**Cryo-EM
(MGHPCC POC)**



**Alloy Discovery
(Texas A&M – POC)**



**Art Design
(OSC POC)**



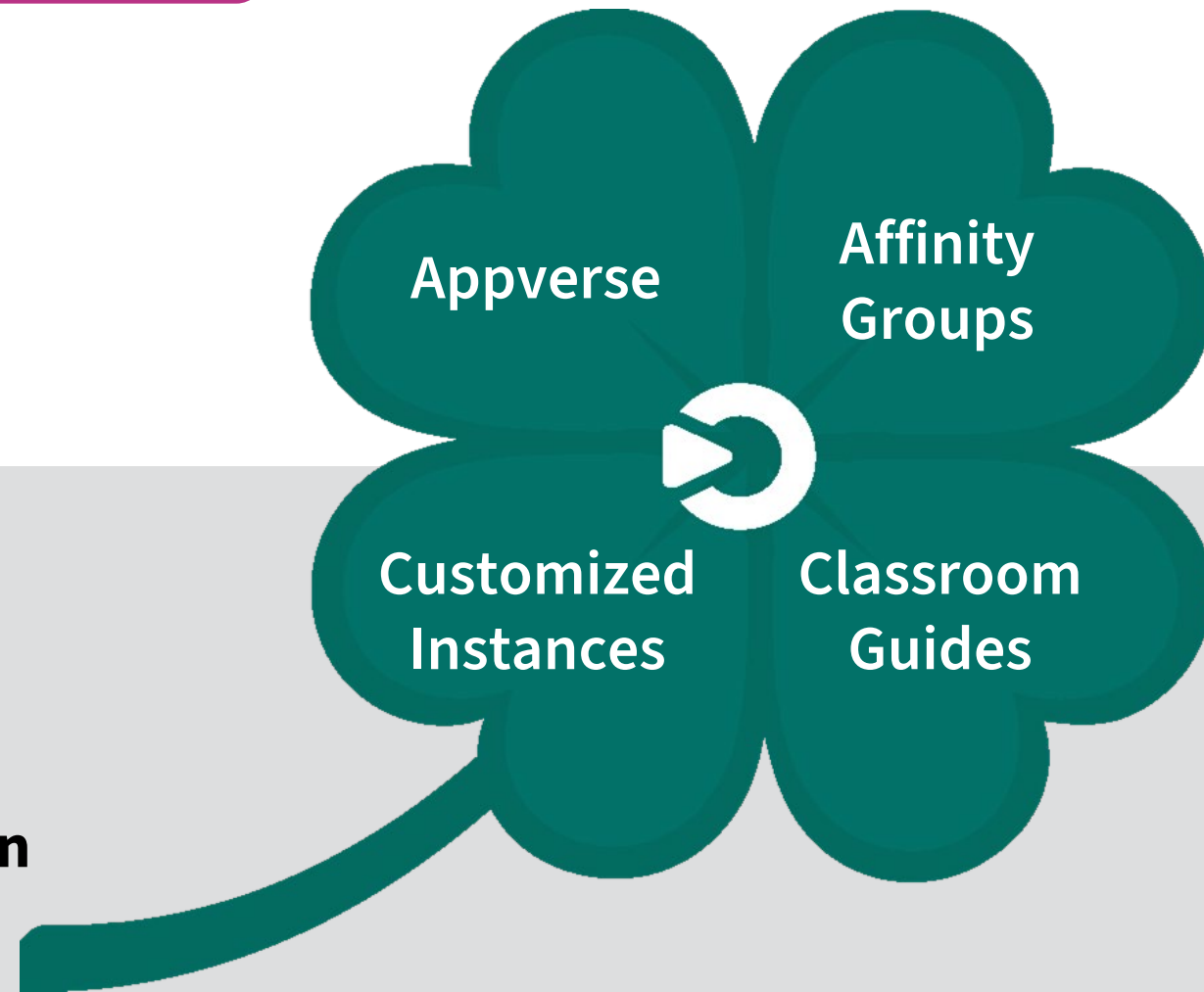
**Rotorcraft Development
(UMD POC)**

GOODLUCK Community

Growing Open OnDemand: Leveraging Unified **Community** Knowledge

Community input is key to our efforts!

Shamrock highlights strategies and
mechanisms to facilitate your participation



Five year NSF award #2411375



Supercomputer
Center



TEXAS A&M
UNIVERSITY



UNIVERSITY OF
MARYLAND

Leadership Team



**Alan
Chalker**

**Ohio
Supercomputer
Center**

*Project direction
& oversight*

Customization



**Dhruva
Chakravorty**

**Texas A&M
University**

Appverse



**Julie
Ma**

**Massachusetts
Green High
Performance
Computing
Center**

Community



Alan Sussman

**University of
Maryland**

Customized
Instances



Karen Tomko

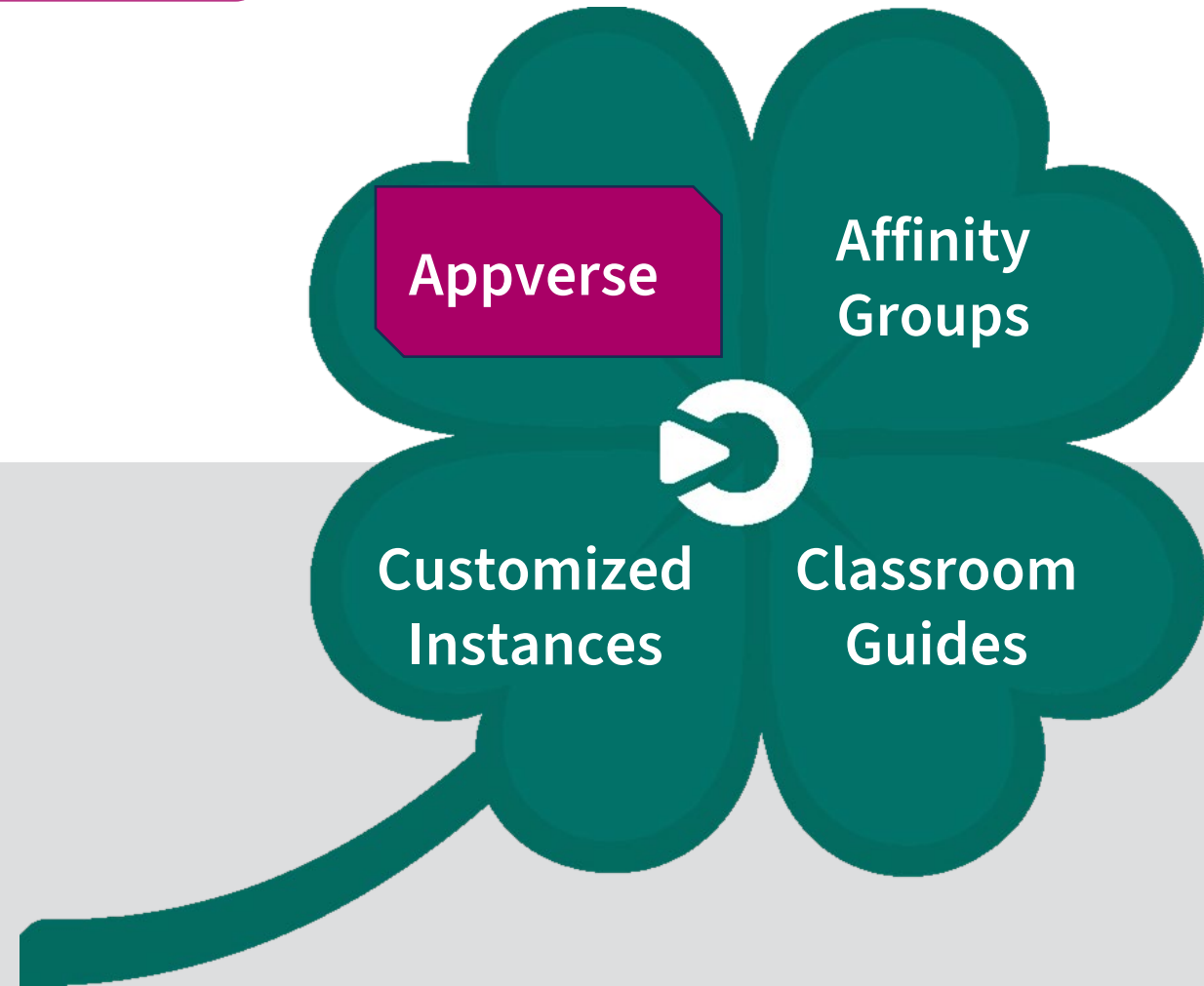
**Ohio
Supercomputer
Center**

Classroom

GOODLUCK

Growing Open OnDemand: Leveraging Unified Community Knowledge

Domain solutions for the sciences,
engineering & education



The OOD Appverse

Apps for scientific applications by developers, and researchers

KEY FEATURES

- Build and share apps for your OOD instance (GitHub)
- Central repository for apps
- Apps can be for research or IT functions
- Tiered structure - validated and sponsored apps
- Curation process – maintenance, updates, and training
- AI app integration
- Affinity Groups will publicize the Appverse



Stable Diffusion
System Installed App



Classroom Jupyter
System Installed App



Classroom RStudio
System Installed App



Blender
System Installed App



QGIS
System Installed App



IQmol
System Installed App



Jupyter + Spark
System Installed App

Sessions to watch out for

3/20 Thursday at 1130 AM

"Using a Passenger App for Displaying GPU Node Configuration and Resource Availability"

Michael Dickens

<https://cfp.openondemand.org/2025/talk/M3EWSU/>



3/20 Thursday at 12 PM

"Drona Workflow Engine"

Marinus Pennings

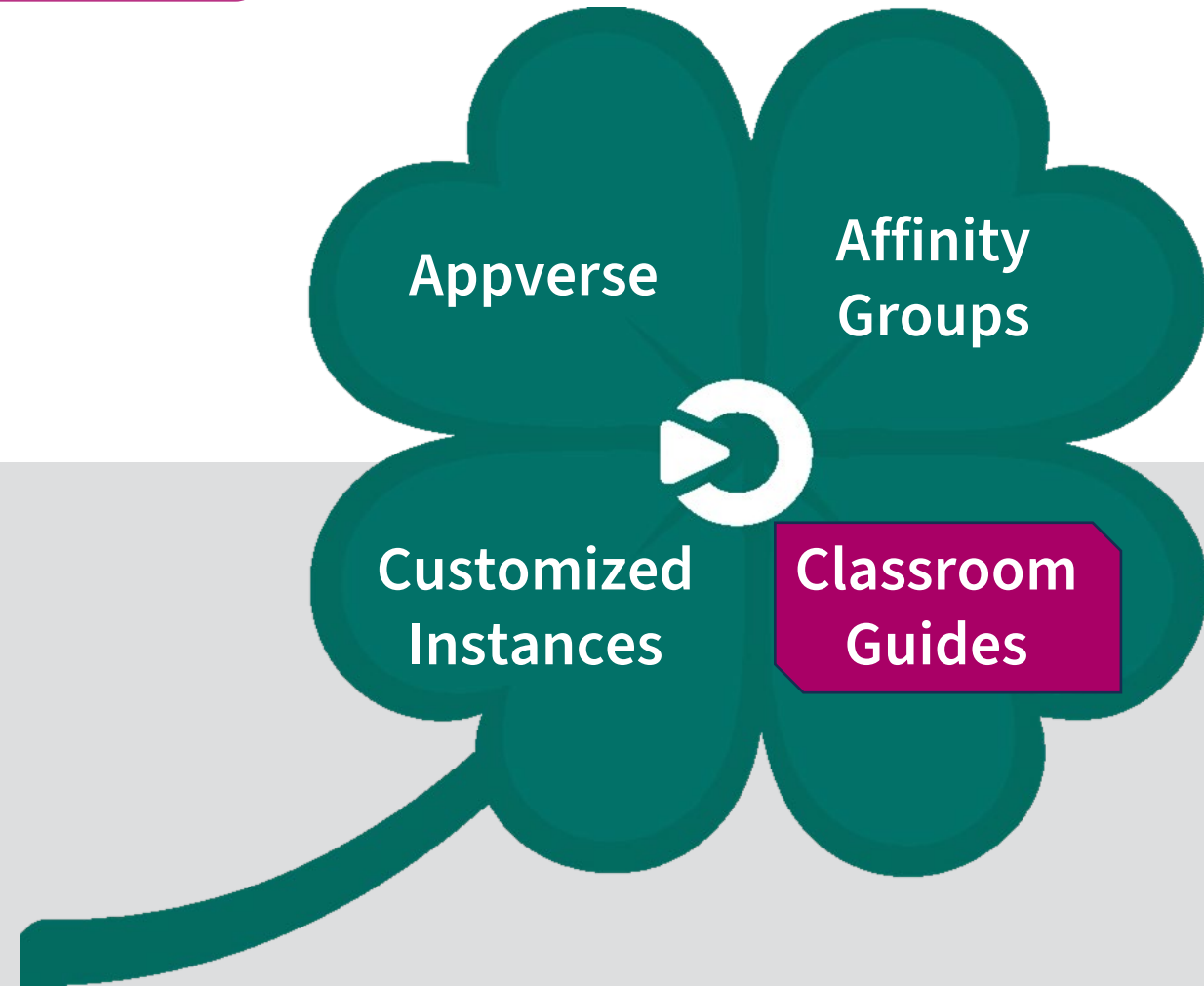
<https://cfp.openondemand.org/2025/talk/8XZYTIX/>



GOODLUCK

Growing Open OnDemand: Leveraging Unified Community Knowledge

Domain solutions for the sciences,
engineering & education



Classroom Guides

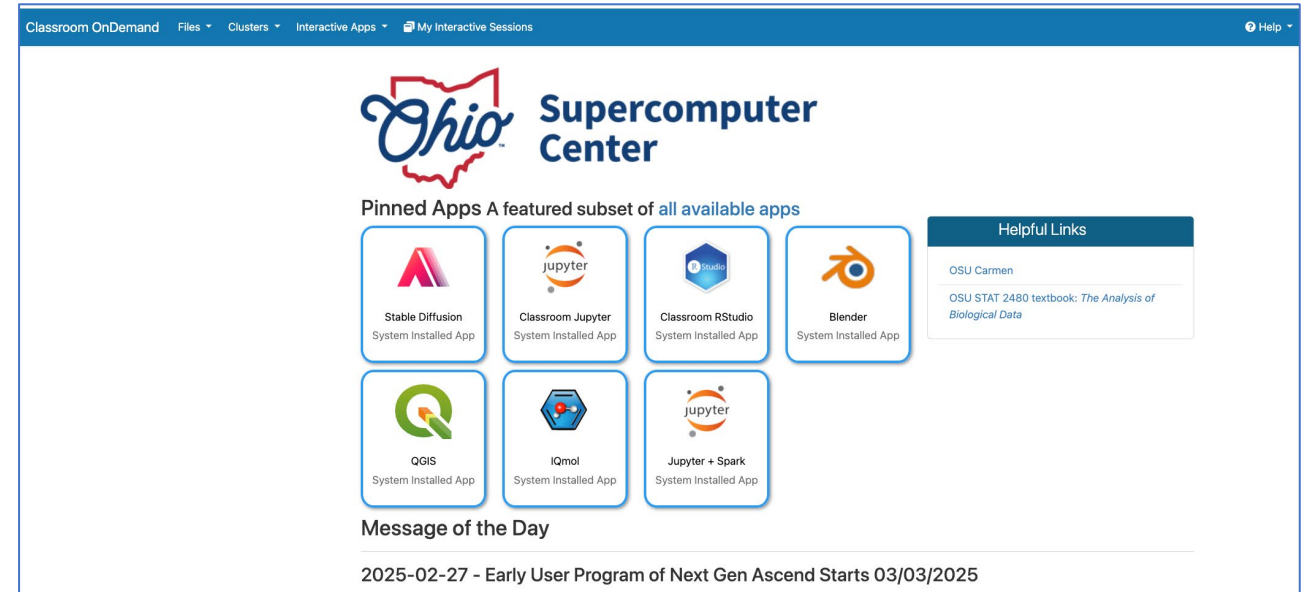
Resources for supporting classroom use of shared CI

Requirements for classroom

- Intuitive user interface
- Access from anywhere
- Responsiveness
- Scalability
- Repeatability

OSC's Approach

- OOD customizations
- Kubernetes managed resources
- Processes to customize allocation/project setup
- Processes and tools for creating isolated software environments
- Support for file sharing and homework submission



OSC's class.osc.edu

Challenge: Generalizing OSC's approach for broader adoption

General OOD configuration

App customizations

- BC apps for Jupyter, Rstudio
- Entries in cluster.d/cluster.yml

Kubernetes managed resources

- Jupyter and Rstudio sessions
- Supports interactive use during class
- Resources based on configuration in cluster.yml

OSC specific processes and tools

Processes to customize allocation/project setup

- Classroom intake process to gather input for customizations
- Self service account creation for students

Processes and tools for creating isolated software environments

- Documentation and scripts to setup custom environments
- Managing paths to isolate environments in student and instructor accounts

Support for file sharing and homework submission

- Instructor scripts for creating submission directory
- Student scripts for copying homework

Classroom Guides

More details:

“Managing the software environment for a
classroom deployment of OOD”

Wednesday at 10:00am

Belfer Case Study Room

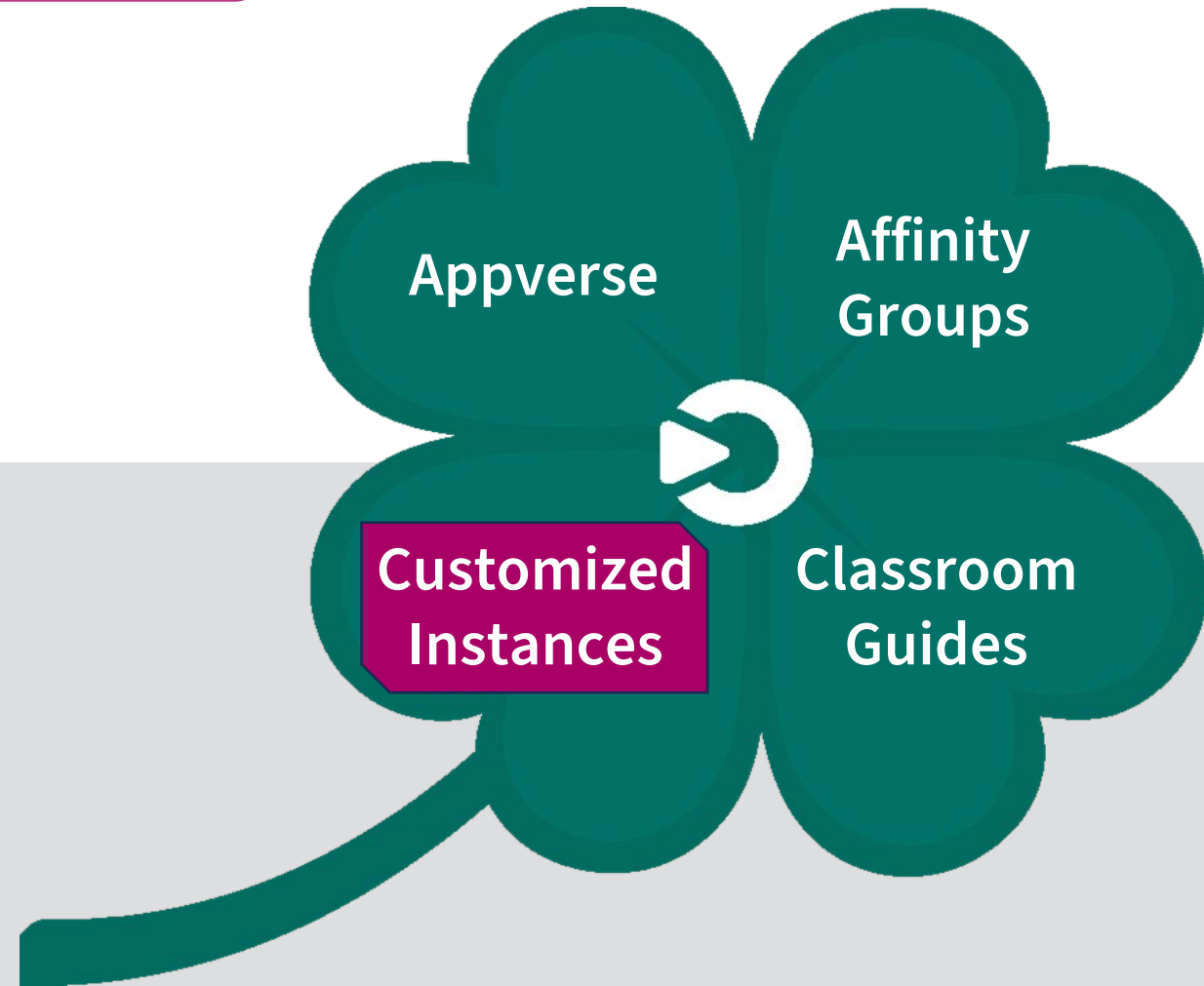


<https://cfp.openondemand.org/2025/talk/TGUZM9/>

GOODLUCK

Growing Open OnDemand: Leveraging Unified Community Knowledge

Domain solutions for the sciences,
engineering & education



Customized Instances

Challenge: Enabling groups of users to create customized instances of OOD

For groups of researchers and for classroom use

Within a group of researchers (e.g., a faculty member's research group)

- Share applications, workflows, etc. (from Appverse or developed locally) through your OOD instance
- Without sysadmin intervention or privileges

For a class, workshop, tutorial, hackathon, etc.

- Enable a faculty member, or a presenter, to share applications with a set of students or attendees

Initial effort is to develop and disseminate *Project Manager* functionality within OOD

- Focus on one application partner, test new functionality within a moderate sized research group
- Both simulation and data analysis tools developed and used within the group

Customized Instances

Application focus areas include

- Cryogenic electron microscopy (MGHPCC) – viral action mechanisms
- Materials science – alloy discovery and design (TAMU)
- Art design using generative AI (OSU)
- Rotorcraft design – drone design via CFD and structural dynamics (UMD)
- Talk to us if you are interested in testing this functionality in the not-too-distant future

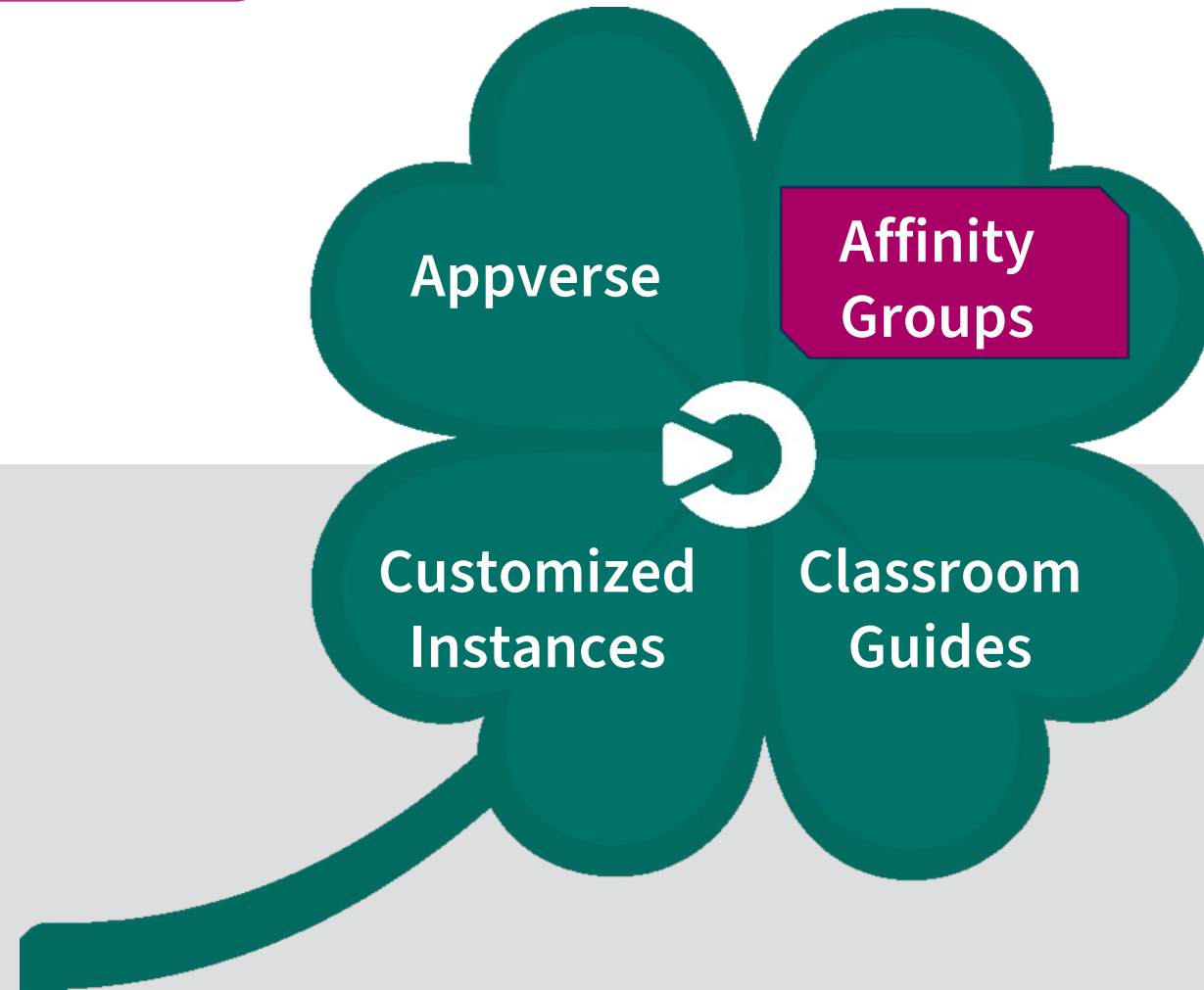
Long term area goals

- Integrated sets of tools, documentation, and training materials that researchers and educators can select from and use as templates to create an OOD environment tailored to their needs

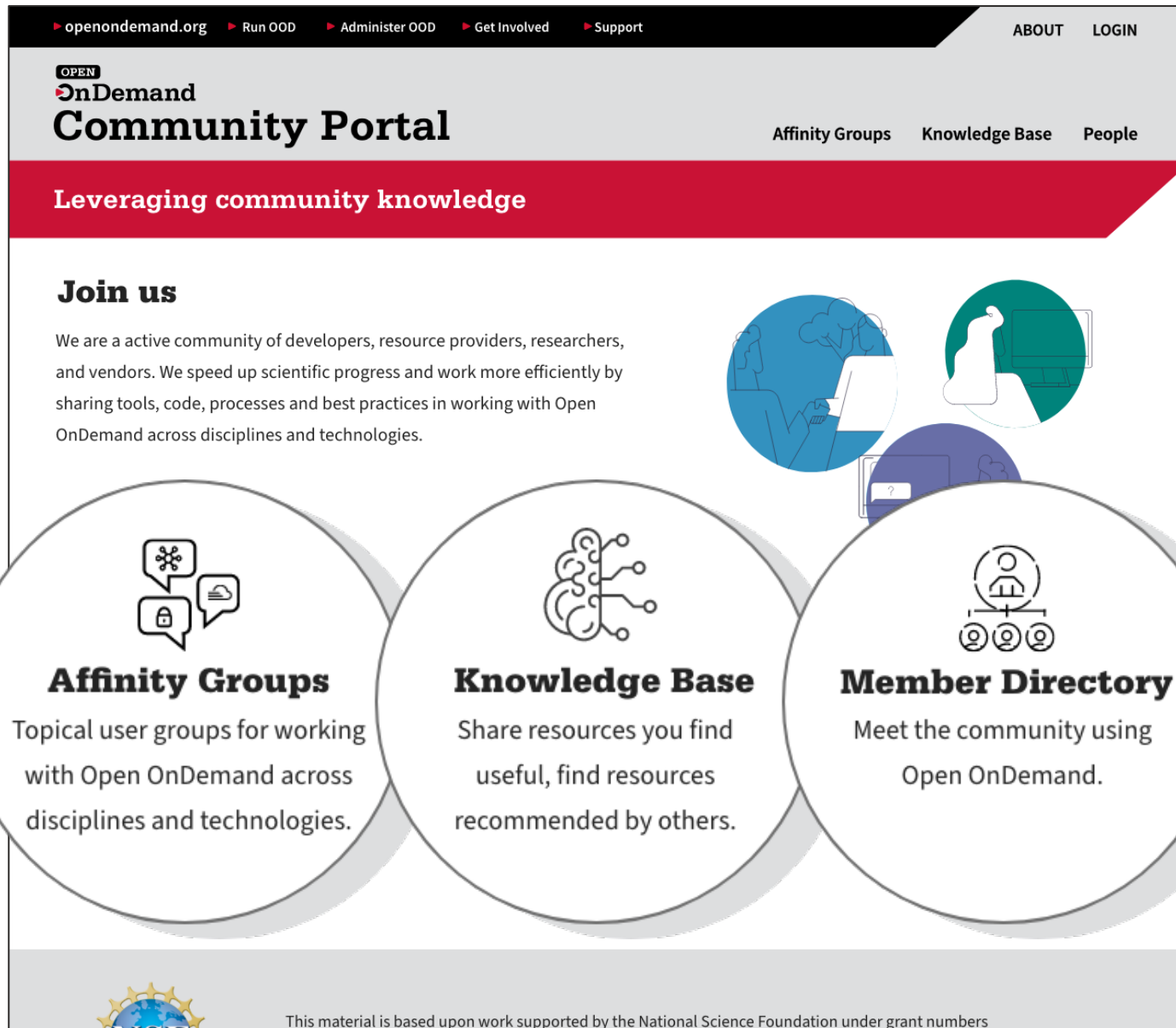
GOODLUCK

Growing Open OnDemand: Leveraging Unified Community Knowledge

Domain solutions for the sciences,
engineering & education



Community Portal



The screenshot shows the Open OnDemand Community Portal homepage. At the top, there's a navigation bar with links: openondemand.org, Run OOD, Administer OOD, Get Involved, Support, ABOUT, and LOGIN. Below this is the 'OPEN nDemand Community Portal' header. A red banner reads 'Leveraging community knowledge'. The main content area features a 'Join us' section with a paragraph about the community. Below this are three large circular icons representing 'Affinity Groups', 'Knowledge Base', and 'Member Directory', each with a brief description. The footer includes a small globe icon and a disclaimer about NSF funding.

openondemand.org Run OOD Administer OOD Get Involved Support ABOUT LOGIN

OPEN nDemand Community Portal Affinity Groups Knowledge Base People

Leveraging community knowledge

Join us

We are a active community of developers, resource providers, researchers, and vendors. We speed up scientific progress and work more efficiently by sharing tools, code, processes and best practices in working with Open OnDemand across disciplines and technologies.

Affinity Groups
Topical user groups for working with Open OnDemand across disciplines and technologies.

Knowledge Base
Share resources you find useful, find resources recommended by others.

Member Directory
Meet the community using Open OnDemand.

This material is based upon work supported by the National Science Foundation under grant numbers

Newly launched—features will be rolling out:

- New Affinity Groups
- Events, Announcements, & Community Badges
- Integrating the Appverse, Customized Instances, and Classroom content

ondemand.connectci.org

Affinity Groups

Affinity Groups are a place to connect with the community on topics related to Open OnDemand.

KEY FEATURES

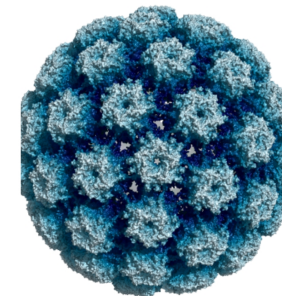
- Links to Communication channels (Discourse, GitHub, etc.)
- Central repository for documentation, code samples, tutorials, and other resources
- Optional member email lists and place for recommended infrastructure
- Announcements, events, and trainings

Flexible usage: Groups can be short or long term, and they can be primarily repositories or include active discussion.

Remote Instrumentation

This affinity group serves as a central hub for those using OnDemand with Remote Instrumentation. Joining this group will keep you updated with news, announcements, and events related to Remote Instrumentation with Open OnDemand.

Cryo-electron microscopy (cryo-EM) is rapidly becoming a key tool for studying the molecular architecture of cells, viruses, and protein assemblies. Advances in microscope design, image processing, and automation are making cryo-EM faster, more precise, and capable of resolving a wider range of biological structures. Combined with techniques like X-ray crystallography and NMR, cryo-EM is now enabling atomic-resolution models of complex molecular assemblies.



[Join](#) [Slack](#) [Q & A](#) [GitHub](#)

Collapse All

Knowledge Base Resources

NAME	TAGS	TYPE
CryoSPARC Guide	ERN PEARC	Documentation
The ERN Cryo-EM Federated Instrument Pilot Project	ERN PEARC	Publication
Ecosystem for Research Networking develops platform for remote scientific instrument control	ERN OnDemand federated-instrument	Article


See ALL


Discourse Recent Topics

QUESTION	LAST UPDATE
CryoSparc OOD Application	2/25/25
Reverse proxy response body substitution?	1/19/25

See All

Community

 **Shania France**
UMass Amherst

 **Tamara Smiths**
Lawrence Livermore

Member Email List

cryoem@lists.connectci.org 

No emails

Upcoming Events

3/18/25 - 3/20/25
GOOD 2025: Global Open OnDemand Conference
04/03/25 1:00 PM EST
Open OnDemand Tips and Tricks Call

[ALL EVENTS](#)

Announcements

01/10/25
Ecosystem for Research Networking develops platform for remote scientific instrument control with Open OnDemand

01/10/25
Ecosystem for Research Networking develops platform for remote scientific instrument control with Open OnDemand

[ALL ANNOUNCEMENTS](#)

Affinity Group Coordinators

Each Affinity Group needs two or more Coordinators.

Time commitment is minimal and includes:

- Moderating knowledge base content
- Communication via slack, email, discourse, or zoom
- Attending best practices meetings during office hours, initially monthly, and then quarterly.



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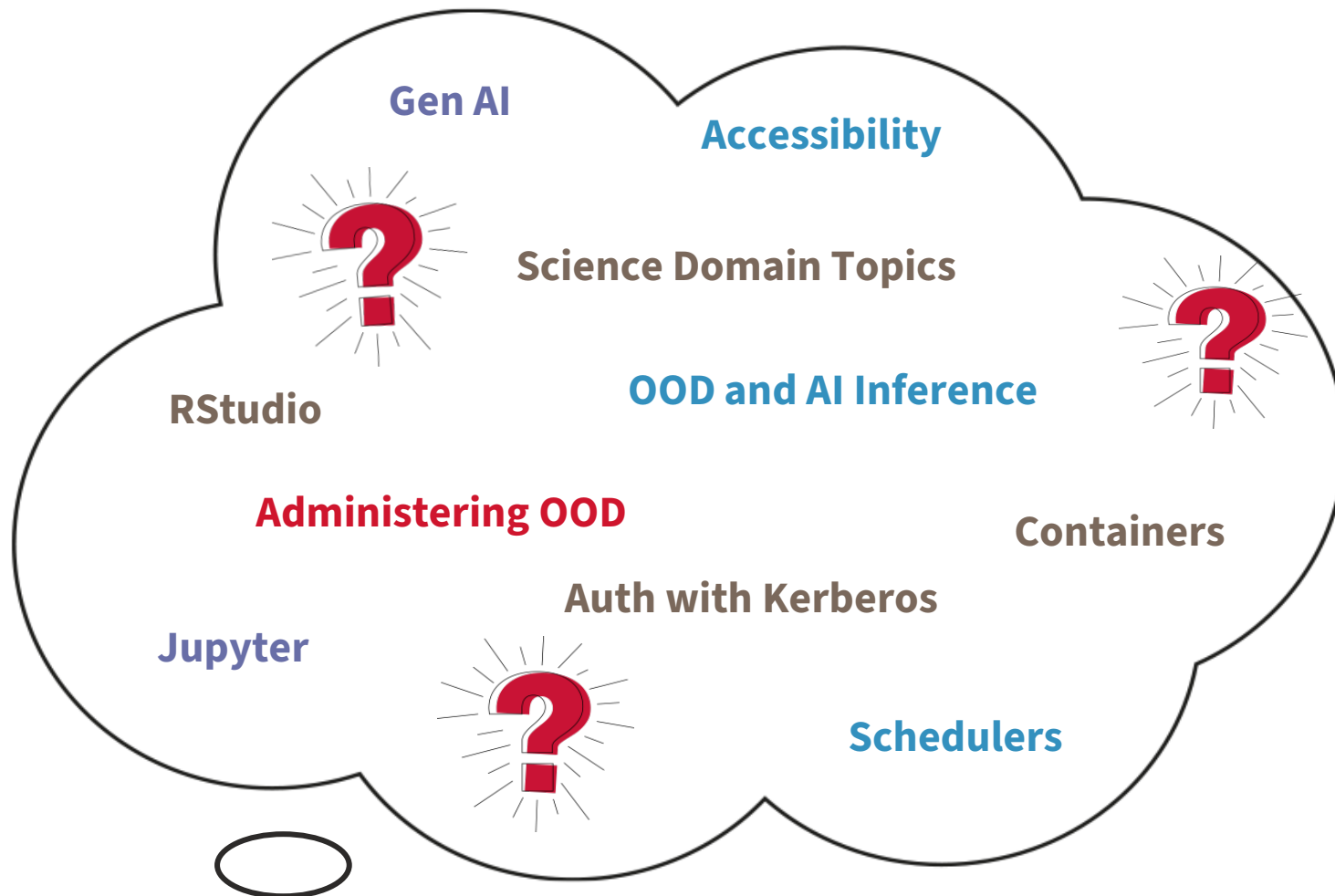
Get the Cap!



While supplies last—
coordinators of active
Affinity Group will get the
Open OnDemand Cap at
PEARC25

Affinity Groups Topics

Add your ideas for groups to Menti



Affinity Group Next Steps

Goal: Choose the first set of affinity groups to ensure a GOOD start!

1. Poll Interest

Tomorrow morning we will release a google doc with the affinity group ideas from Menti. People can indicate interest in membership or being a coordinator. (this will NOT be a firm commitment)

2. Create New Groups

We will create affinity groups for ideas that have at least two coordinators and five interested people.

Login to the Portal

Login

Create an account or use a Campus Champions, CCMNet, or ACCESS-CI account



Create your Profile

Add your skills and interests

Set your Password

For new accounts, use the **Edit Community Persona** button to set your password

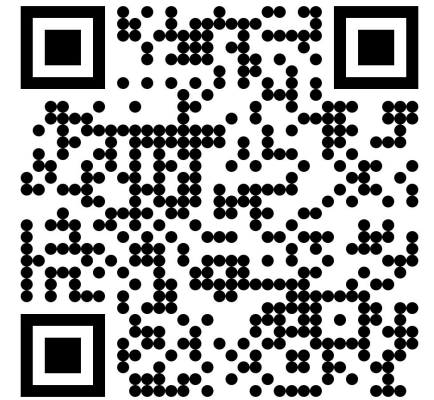
Vote for Affinity Groups



Lots of great ideas, but we need your input to go forward.

Go to the Google Sheet with Affinity Group ideas and mark which ones you are interested in. Add your name if you could be a coordinator.

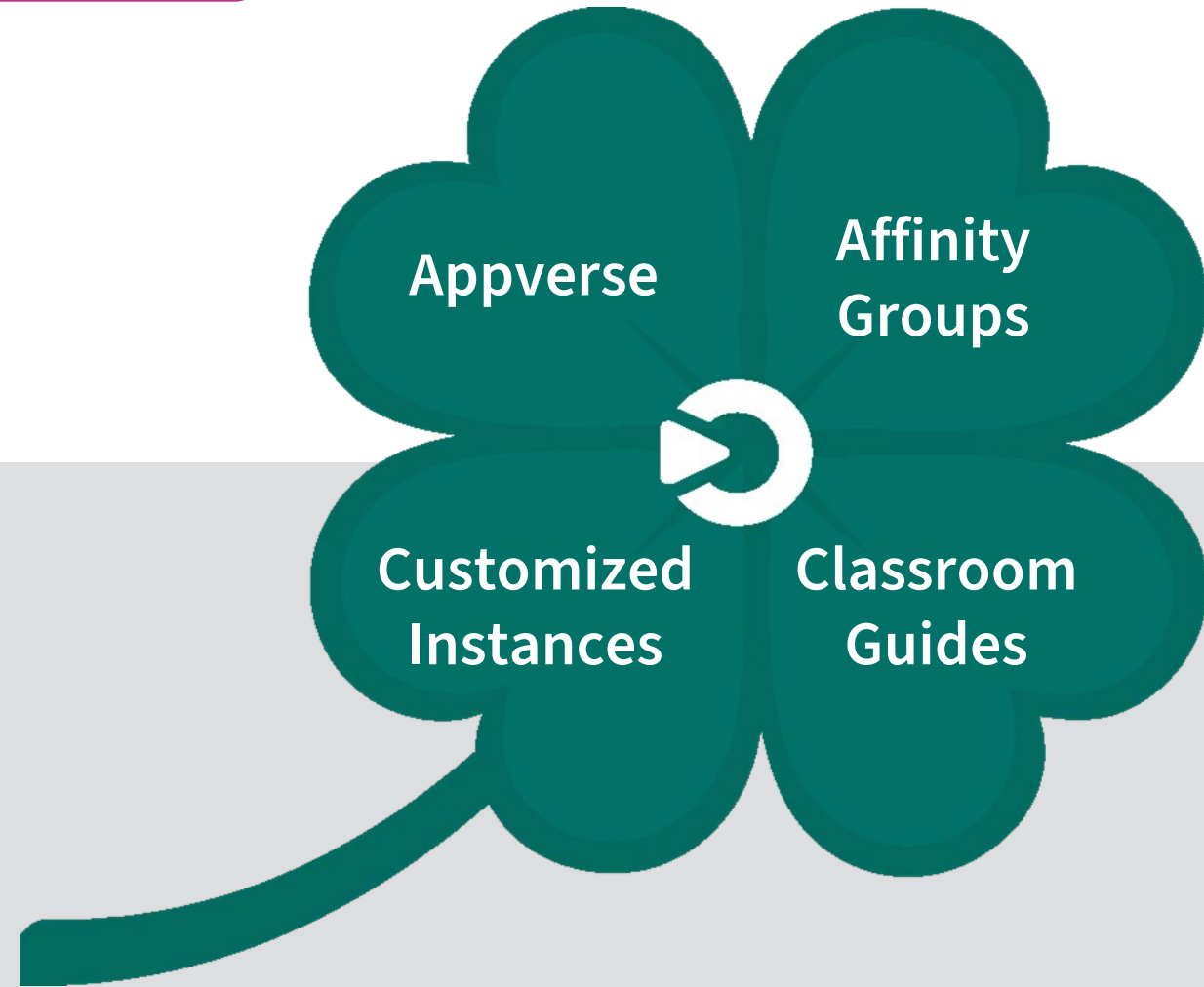
**New Community Portal
where Affinity Groups
will live**



GOODLUCK

Growing Open OnDemand: Leveraging Unified Community Knowledge

Domain solutions for the sciences,
engineering & education



GOODLUCK Year 1 Goals

- Project Management Framework
 - Community Meeting
 - Community Management Portal Pilot
-
- Appverse Pilot
 - Classroom Guide Framework
 - Affinity Groups Pilot
 - Customized Instance Pilot



Questions

Your input and feedback is requested!

Appverse (Dhruva)

- What should the app verification process consider?
- How will apps on the Appverse be supported?
- What mechanisms will support different fields of science?

Customized Instances (Alan)

- What are your pain points in deploying applications through OOD?
- What types of applications would you like to share with other users?

Questions

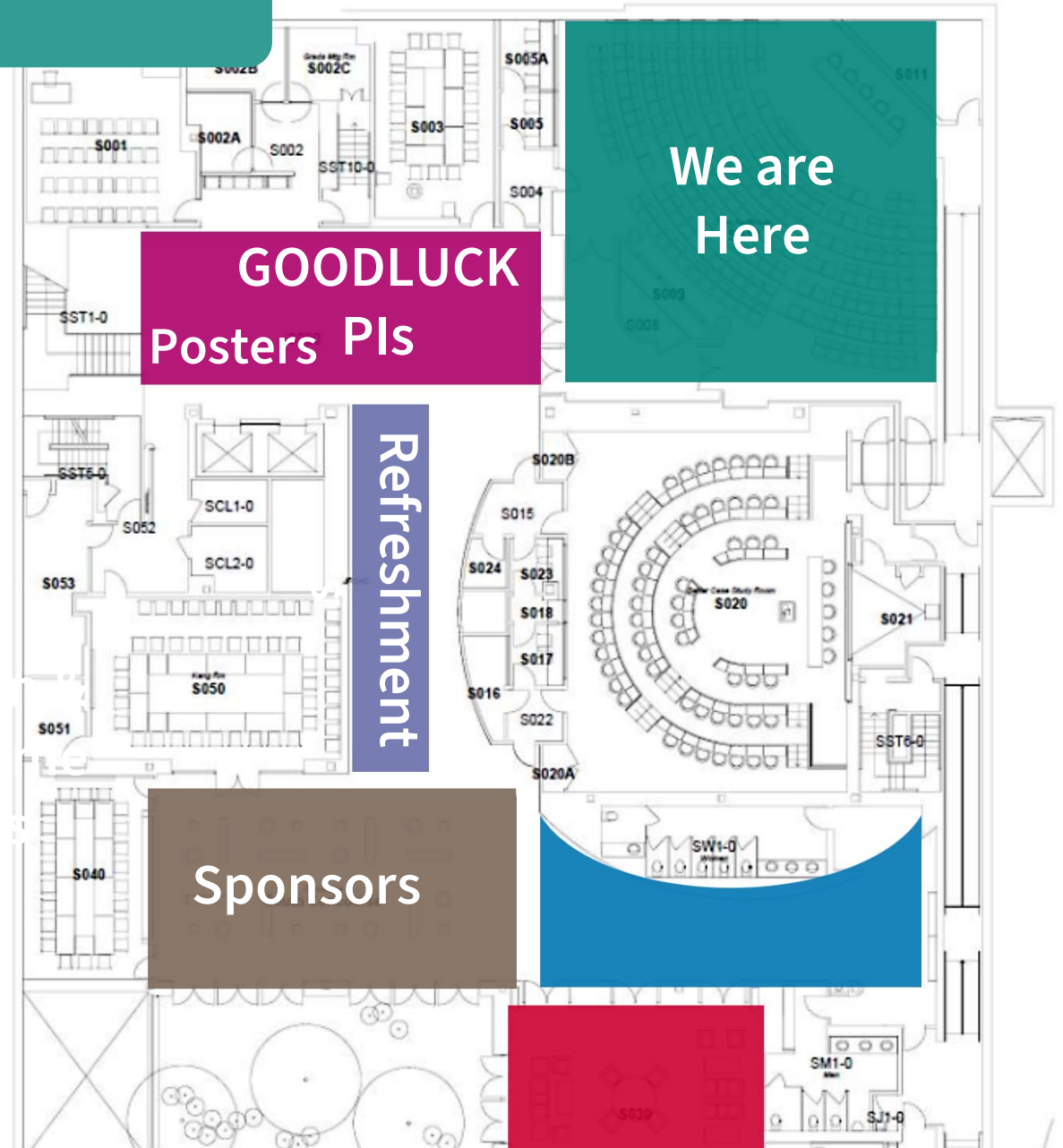
Classroom (Karen)

- What are your pain points with respect to supporting classroom use?
- Have you created any custom apps for classroom use?
- What are the emerging needs in classroom support?

Affinity Groups (Lissie)

- How can Affinity Groups help your work?
- What Affinity Group features will be helpful for you?
- Are there Affinity Groups you would coordinate?

Meet our Sponsors



Reminder



Wednesday - Fenway Social

6-9:30 pm

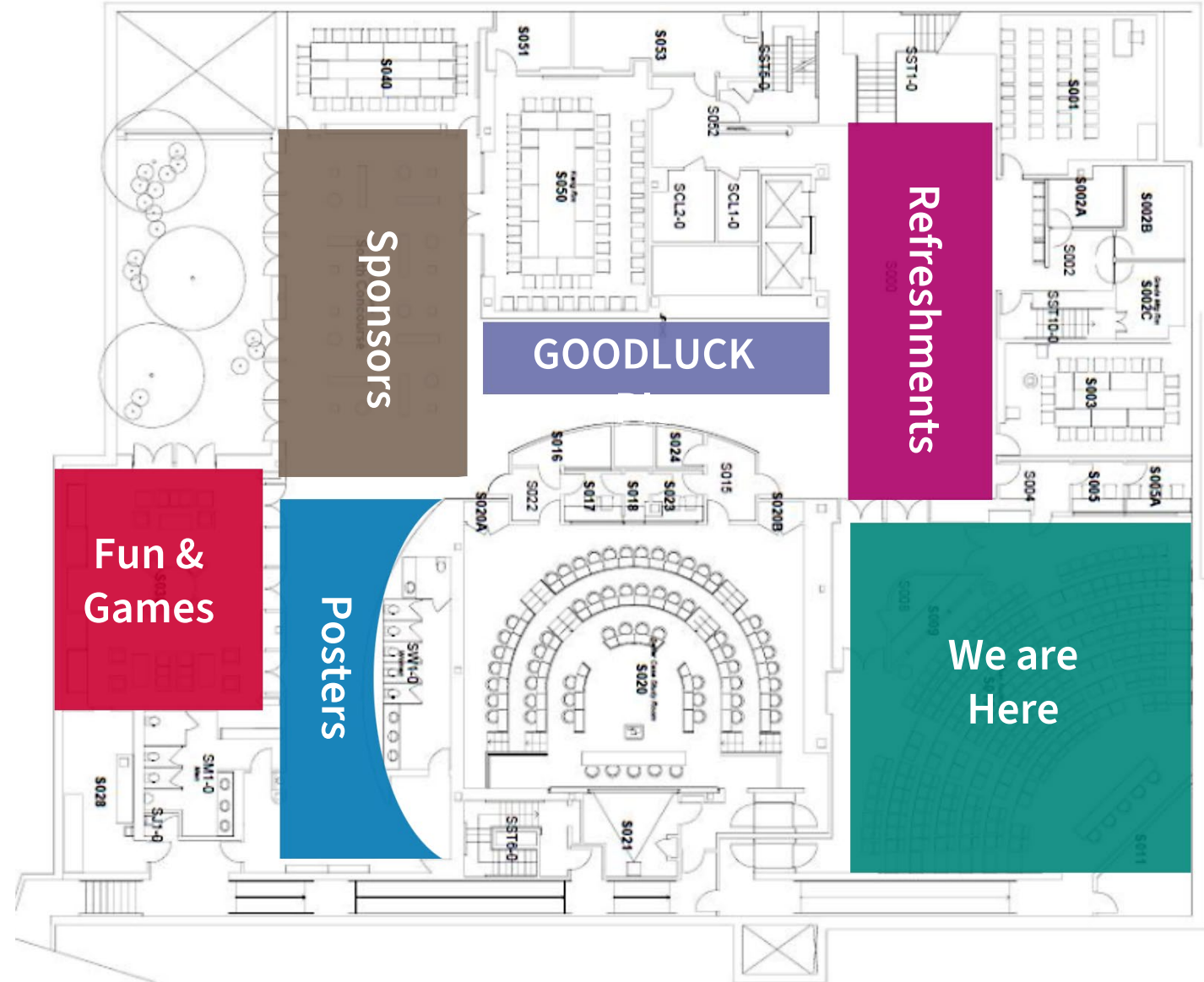
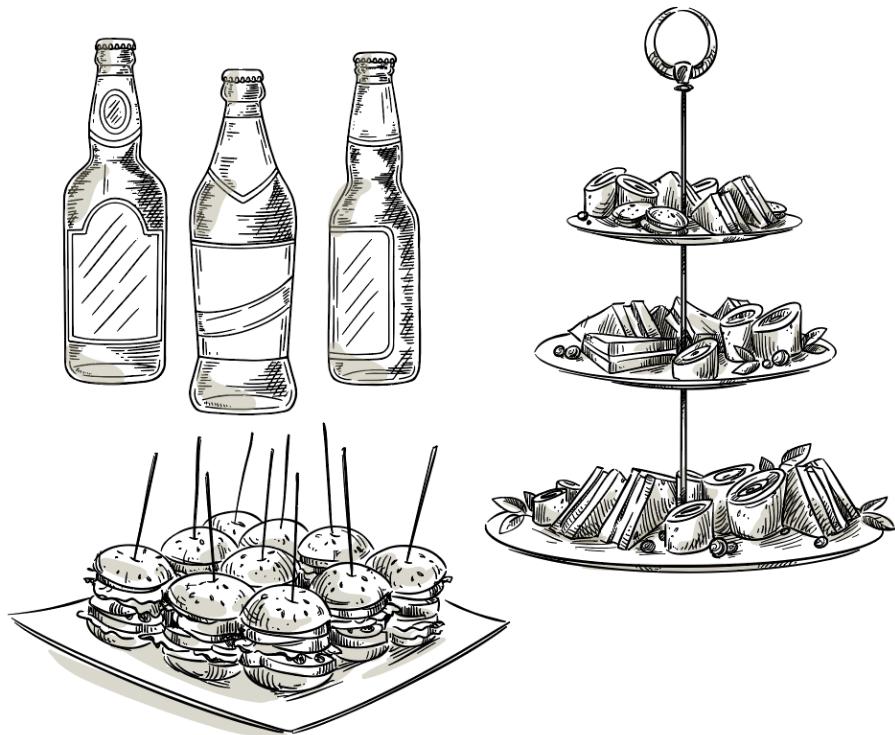
Backstage tour

Ballpark-themed food and beverages

Buses leave from CGIS (here) at 6pm sharp and return starting at 8:45pm

Thank You!

See you out there!



BACKUP SLIDES

Idea Marketplace

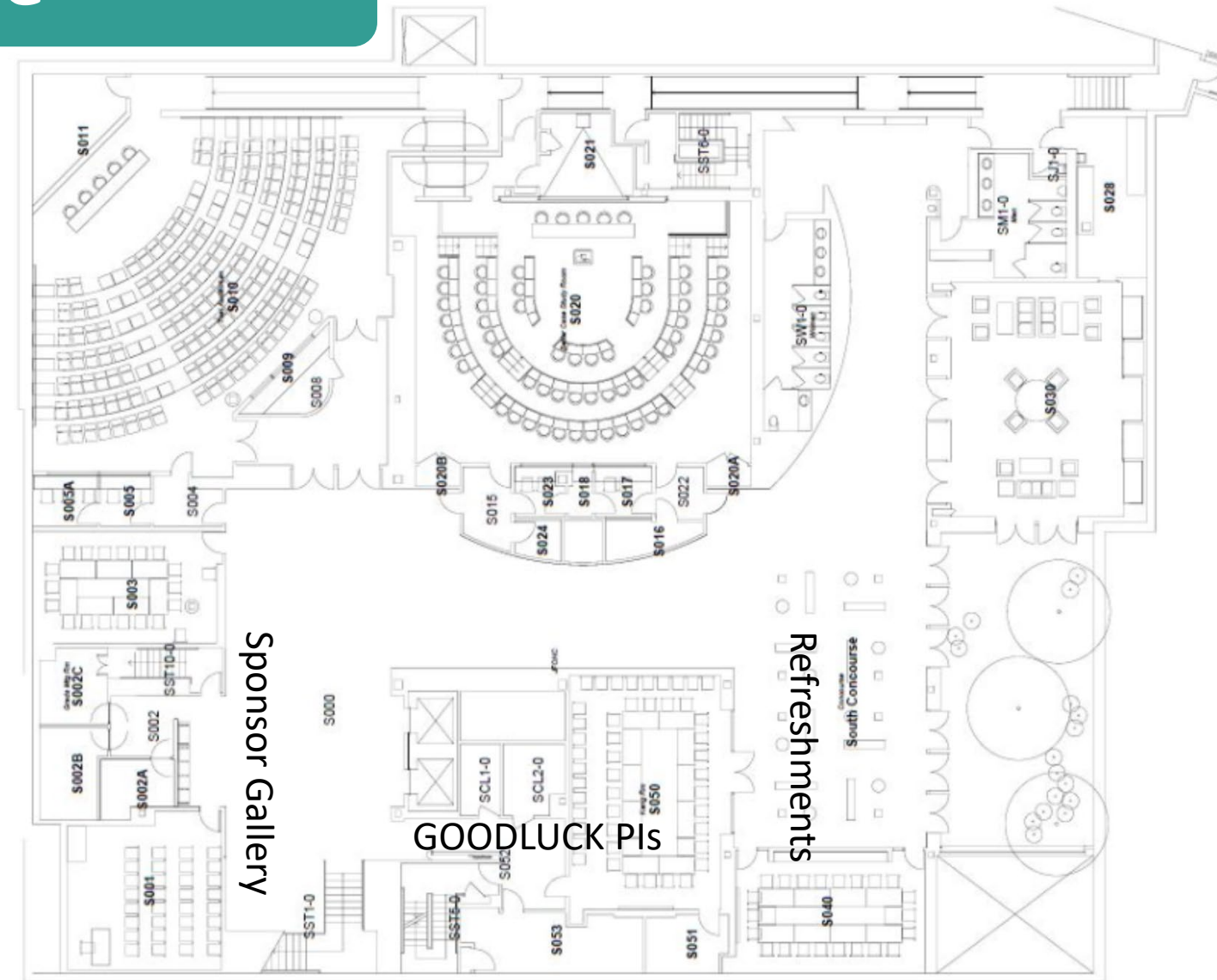
Grab a Beverage and Some Delicious Nibbles

Provide Input/Feedback to the GOODLUCK Team

Play Affinity Group Roulette

Check out our Poster Gallery

Meet our Sponsors

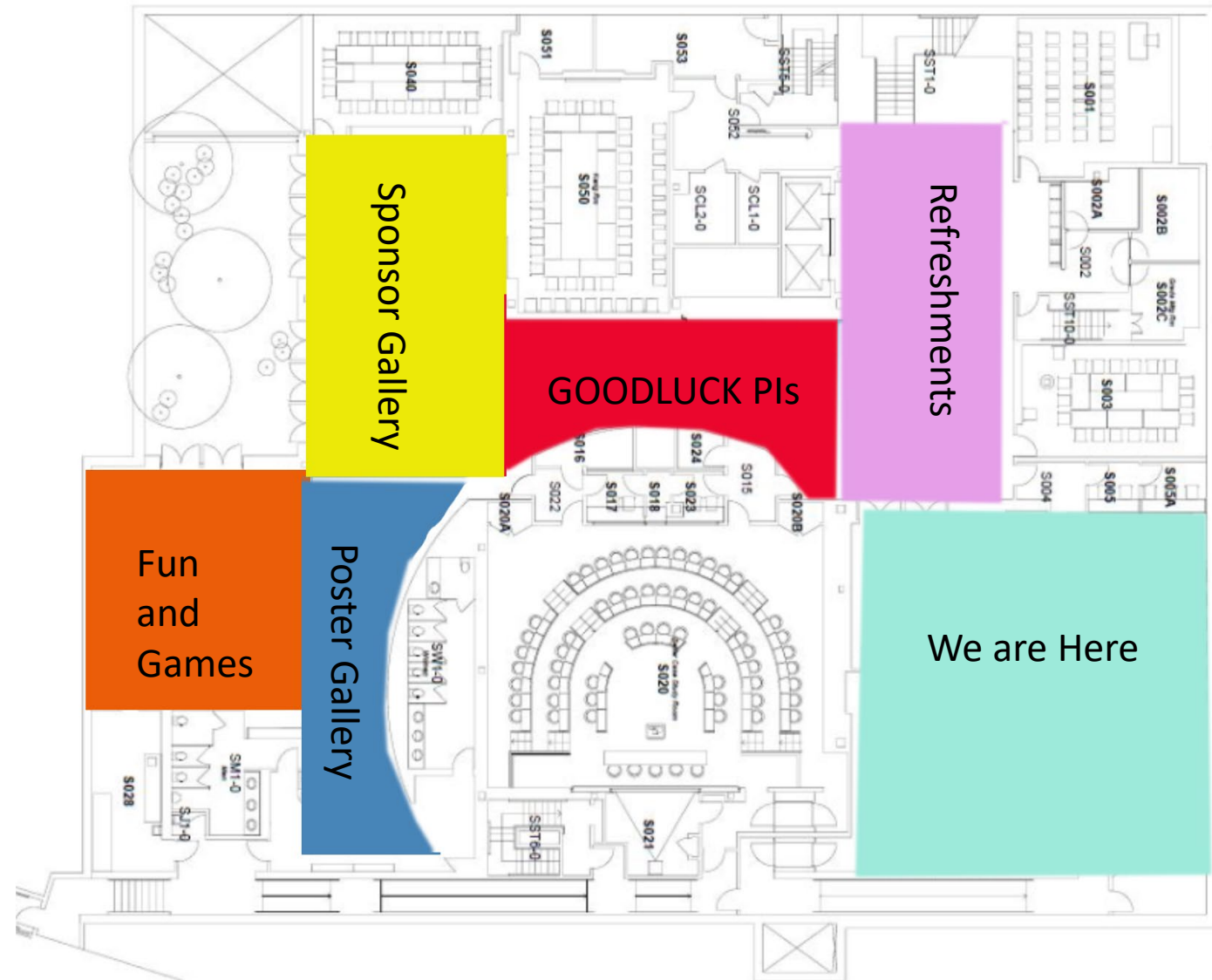


Fun
and

Poster

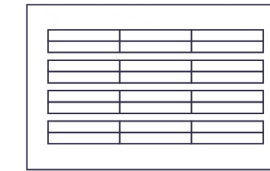
We are Here

See You Out There!



Run Open OnDemand

Access your organization's supercomputers through the web to compute from anywhere, on any device.



Zero installation

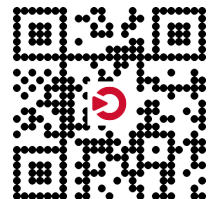
Run Open OnDemand entirely in your browser. No client software installation required.

Easy to use

Start computing immediately. A simple interface makes Open OnDemand easy to learn and use.

Compatible with any device

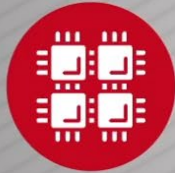
Launch on any device with a browser—even a mobile phone or tablet.



openondemand.org/run

Any Device, Anywhere

OPEN  nDemand

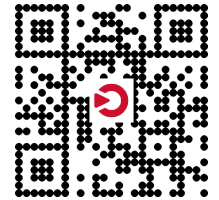
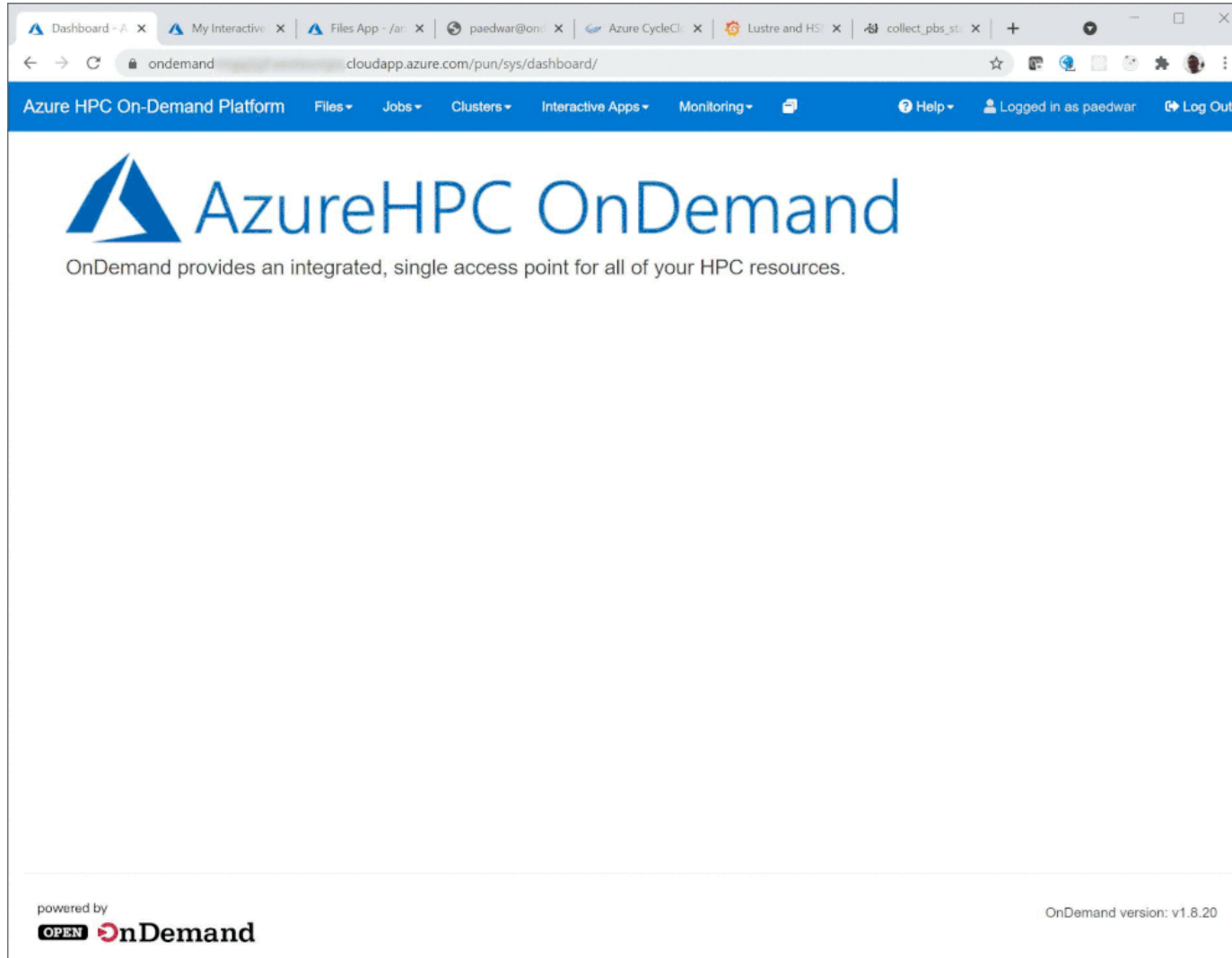


Ohio Supercomputer Center

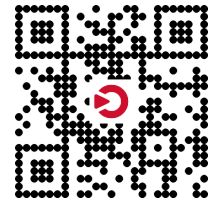
An **OH·TECH** Consortium Member

openondemand.org/anydevice

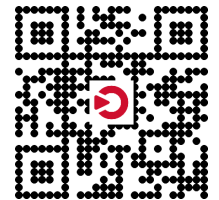
Commercial Cloud



openondemand.org/aws



openondemand.org/azure



openondemand.org/gcp

NSF ACCESS



Hive



Rockfish



ACES FASTER
LAUNCH



Anvil



Bridges-2 &
Neocortex



KyRIC



Delta



Ookami



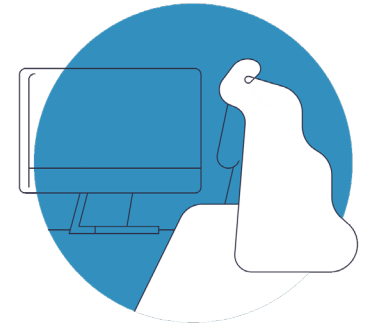
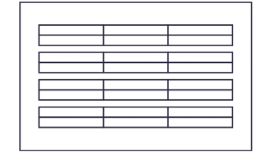
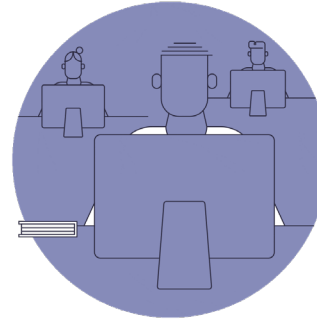
Expanse



openondemand.org/access

Install Open OnDemand

Administer remote web access to your supercomputers to transform the way users work and learn.



Low barrier to entry

Empower users of all skill levels by offering an alternative to command-line interface.

Free and open source

Install Open OnDemand for free, and gather knowledge from our large open-source community.

Configurable and flexible

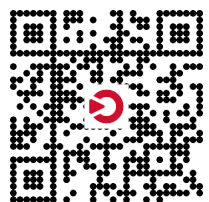
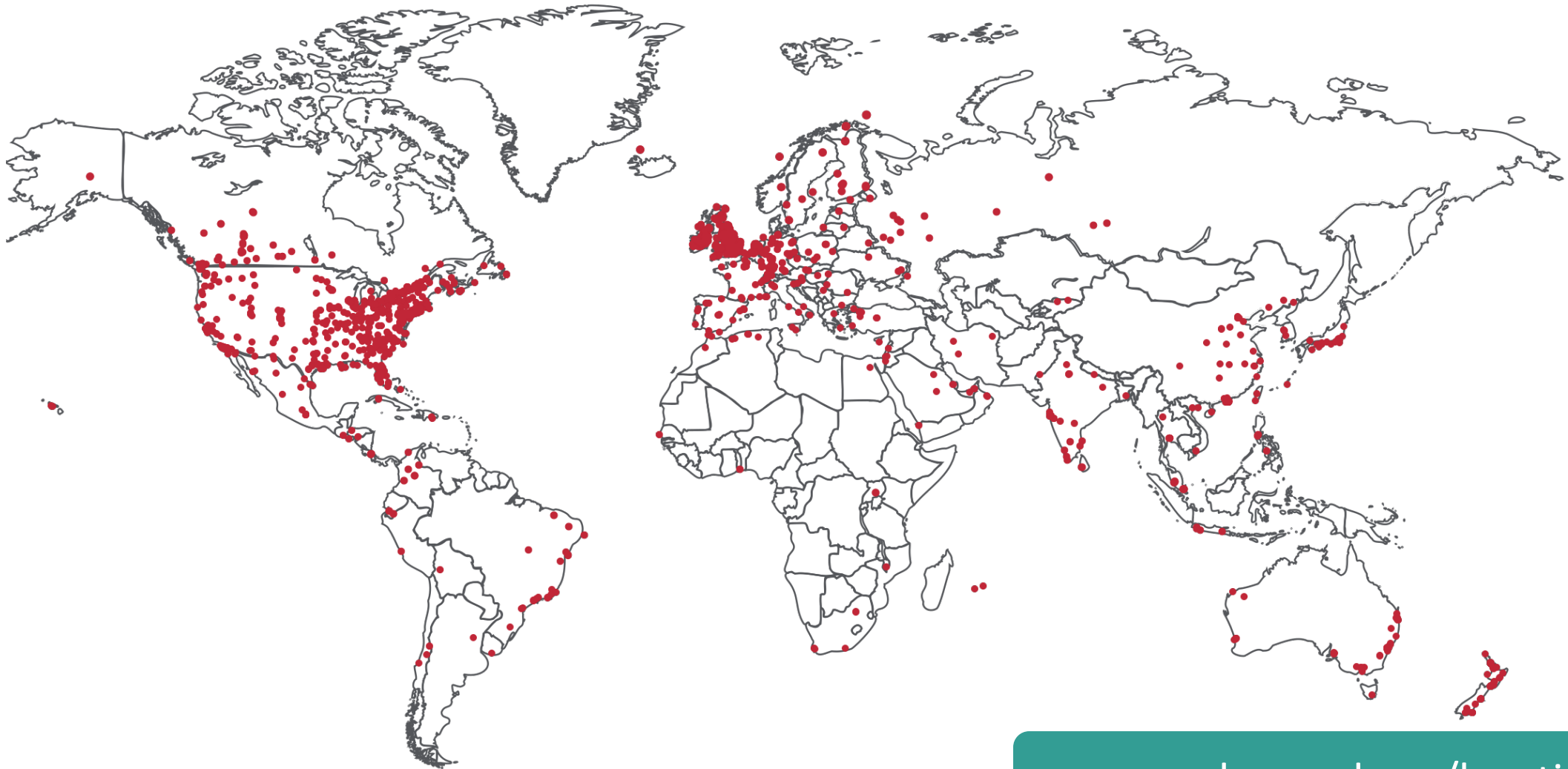
Create and deploy your own applications to meet your users' unique needs.



openondemand.org/install

Deployed Worldwide

100+ Countries | 2,100+ Organizations



openondemand.org/locations

Example Deployments

Nonprofit / Research centers



International academia



Government



Minority-serving institutions



Private academia



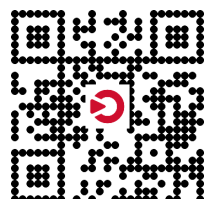
Public academia



Industry



openondemand.org/orgs



Enabled Utilities & Apps



Abaqus



AMDuProf



ANSYS



Arm



BEAST 2



Blender



CHIMERA



COMSOL



Coot



DeepLabCut



Eclipse



Firefox



Galaxy



GaussView



Grace



GSEA



IDL



jupyter



LS-DYNA



Lumerical



Maestro



Mathematica



MATLAB



Maya



Meshroom



MRICron



NetLogo



Nsight Eclipse



Octave



OVITO



ParaView



PseudoFuN



PSPP



PyCharm



PyMOL



QGIS



RELION



RStudio



Schrodinger



Shiny



Siril



STAR-CCM+



Stata



TensorBoard



VisIt



Visual Studio Code



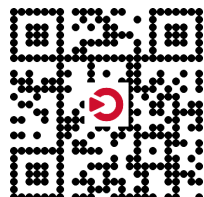
VMD



WebMO

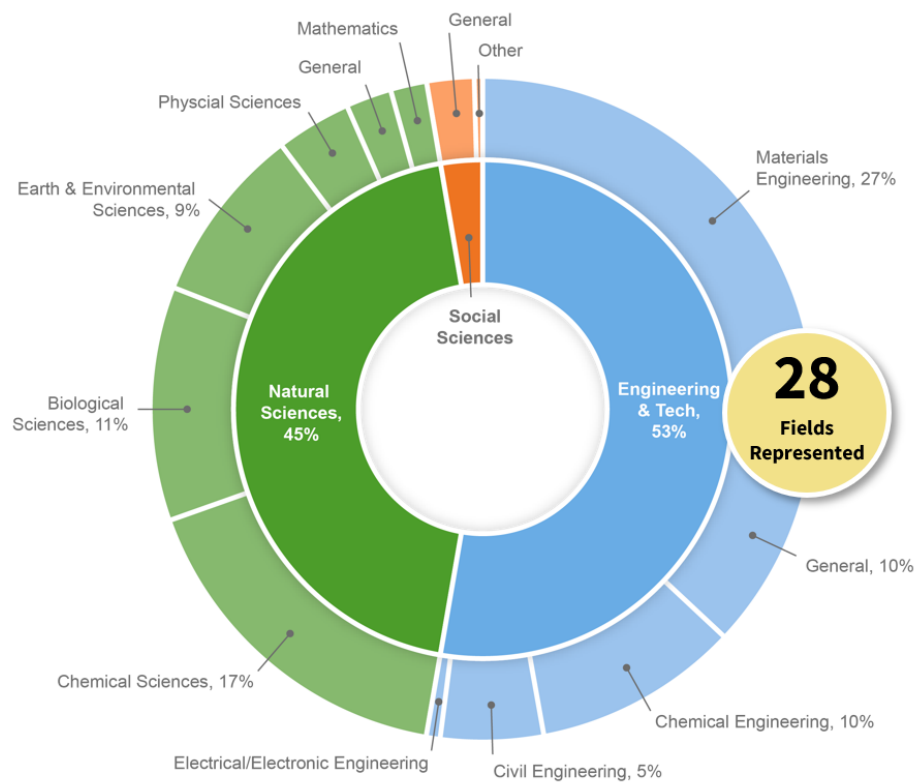


XDMoD

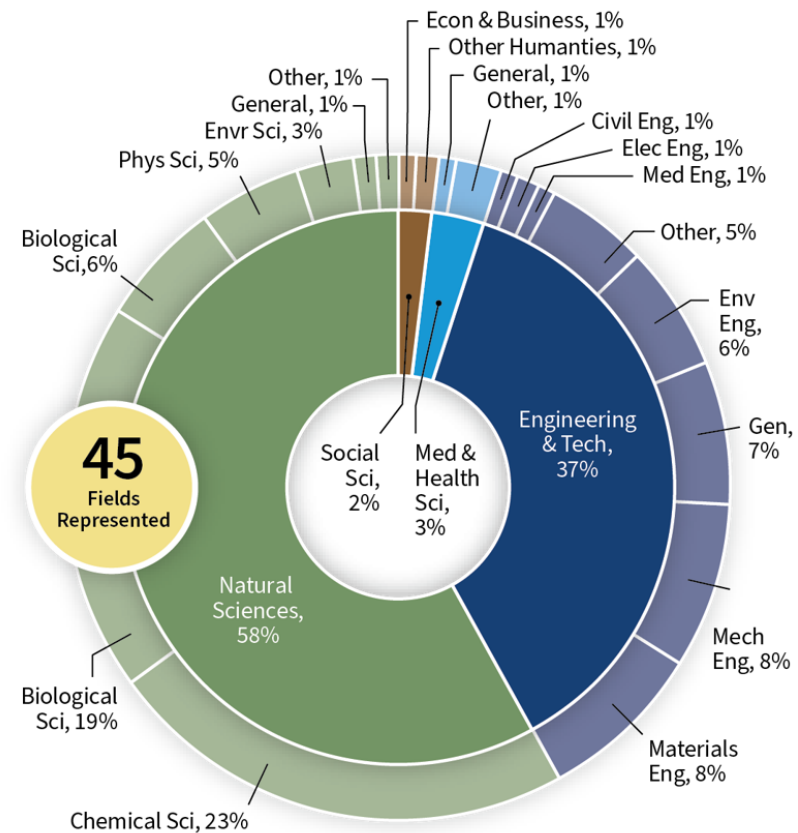


openondemand.org/apps

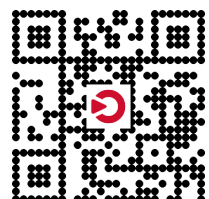
Impact at OSC



2017



2023



Support Model



Discuss on Discourse

The Get Help category features user and admin questions and answers.

openondemand.org/discourse



Slack Workspace

Communicate and collaborate with the project team and community members.

openondemand.org/slack



GitHub Documentation

Outlines installation steps, app guidelines, release notes, and more.

openondemand.org/docs



Constant Contact Newsletter

Subscribe to get notices about upcoming events, new releases and user stories.

openondemand.org/newsletter

openondemand.org/support

Community Events



Tips and tricks calls

Hosted by the larger Open OnDemand community, tips and tricks webinars share best practices for setting up and using Open OnDemand. They take place on the first Thursday of every month at 1 p.m. ET in the US



Open office hours

Hosted by our development team, Zoom open office hours are the perfect opportunity to ask questions or make a suggestion. They are held on the second Tuesday of every month from 11:15 a.m. to 12:45 p.m. ET in the US

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Asia Pacific-timed versions of these calls will be starting in 2H2025

openondemand.org/events

Pilot Support Subscription

- Access to:
 - Priority support channels
 - Staff expertise
- Utilize best practices
- Contributes sustainable, ongoing funding for Open OnDemand
- Pilot will run through 2025
 - Additional services will be introduced as we learn from client experience



Benefits

- Priority Discourse channel
- Priority triage of Github issues
- Scheduled one-on-one office hours
- Invitations to special events at major conferences
- Participation in advisory working groups

openondemand.org/subscribe



Agenda

About Open OnDemand

**Technical Update/
Getting Involved**

Discussion



Technical Update/Getting Involved

- **4.0 is available!**
- **Building a vibrant open source ecosystem**
 - **New role: Developer relations program manager**
 - **GitHub ondemand issues review**
 - **Increased engagement with community**



openondemand.org/releases/notes

4.0 Notable Features

- **Global batch connect items in ondemand.d files** – defining queues or node times in one place
- **Dismissible and required announcements** – configurable alerts
- **System status page** – cluster status and details
- **File editor refreshed** – community driven UI improvements



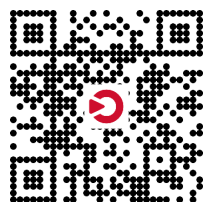
4.0 Breaking Changes

NavConfig file is being removed – simpler configuration

Initializers need updating – Rails prompted change

Whitelist and blacklists are being replaced – replaced by inclusive allowlist and blocklist configurations

See "Deprecations" in 3.0 release notes for more information



4.0 Community Contributions

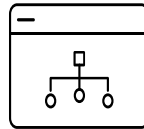


Development Planning



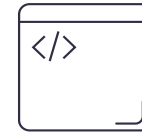
Identify

Issues are reported in
Discourse or GitHub



Prioritize

Issues are analyzed and
prioritized



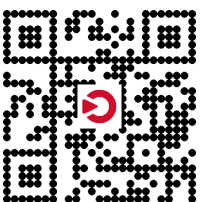
Execute

Developers from the
community or core team
pick up issues



Release

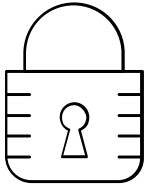
Changes are reviewed and
included in the next
release



openondemand.org/issues

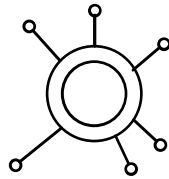
Issue Prioritizing

Issues are prioritized by user impact, development effort needed, and alignment with other enhancements in the release.



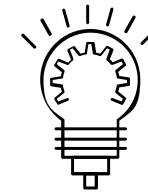
Security Issue

Patches are developed quickly for high priority issues.



Bug

Unexpected or unintended behaviors are the next priority and addressed according to importance.



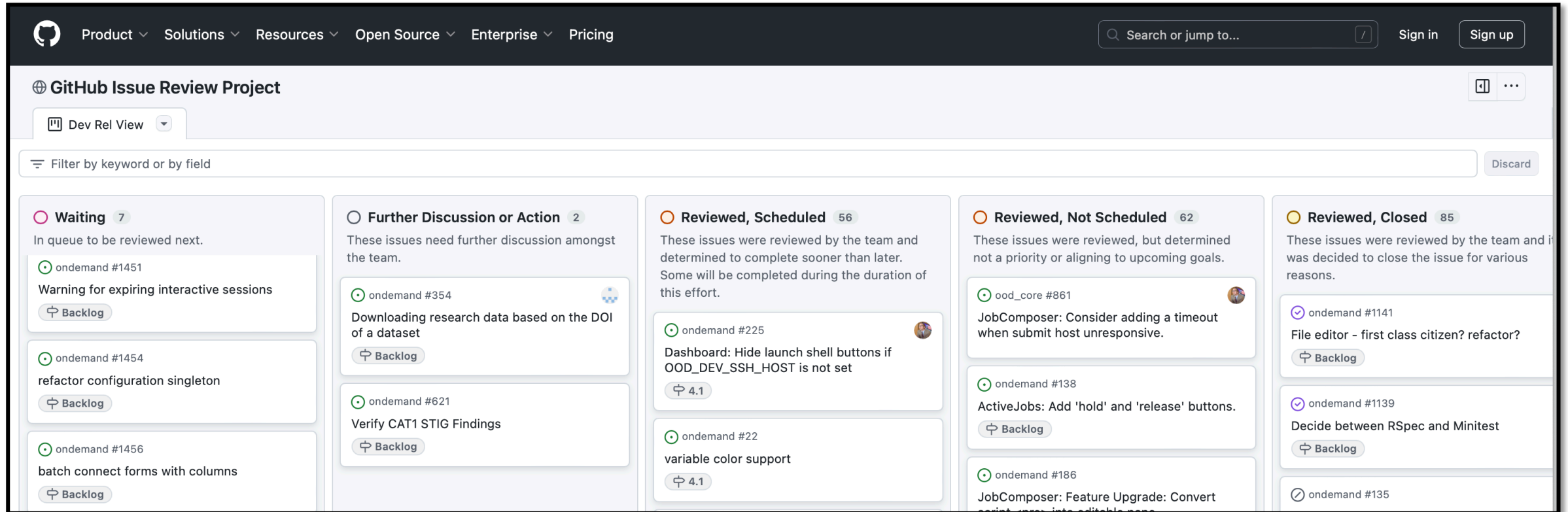
New Features

We are continually enhancing our infrastructure, integrations, and ux based on the needs of our community.



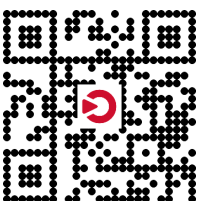
openondemand.org/issues

Github Issue Tracking



The screenshot shows the GitHub Issue Review Project dashboard. At the top, there's a navigation bar with links for Product, Solutions, Resources, Open Source, Enterprise, and Pricing. A search bar and 'Sign in'/'Sign up' buttons are also present. The main header is 'GitHub Issue Review Project'. Below it, there's a 'Dev Rel View' dropdown and a 'Filter by keyword or by field' input. The dashboard is divided into five columns representing different issue states:

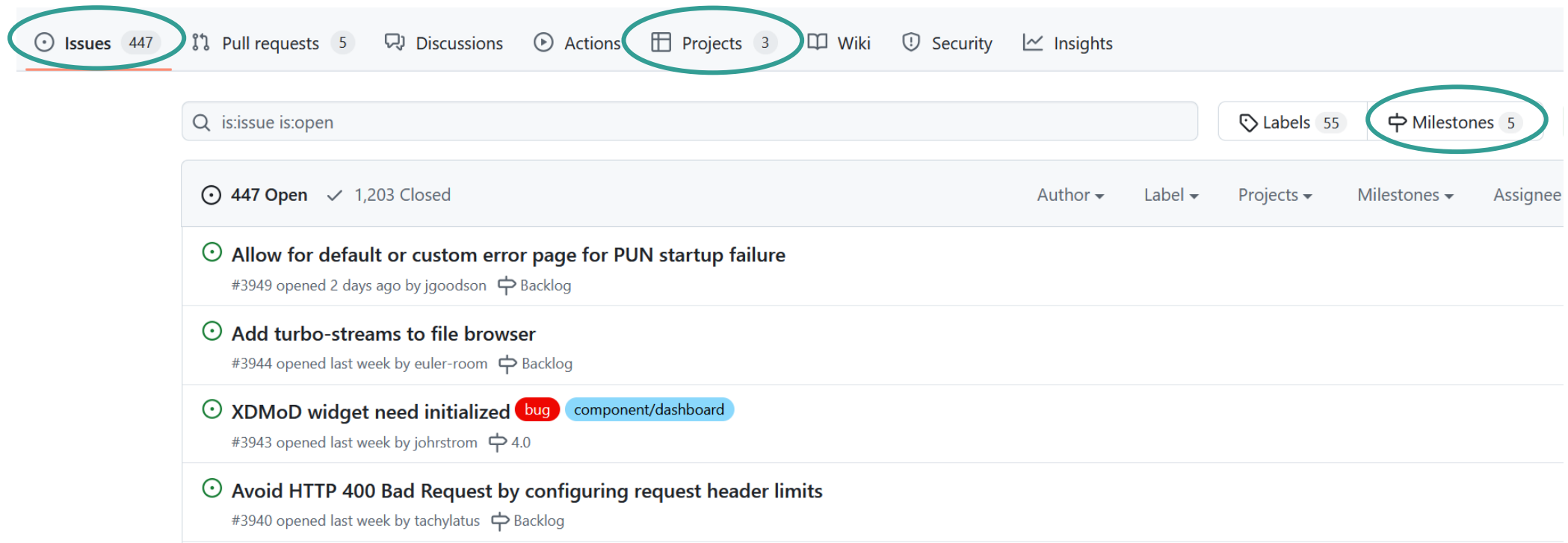
- Waiting (7)**: Issues in queue to be reviewed next.
 - ondemand #1451: Warning for expiring interactive sessions (Backlog)
 - ondemand #1454: refactor configuration singleton (Backlog)
 - ondemand #1456: batch connect forms with columns (Backlog)
- Further Discussion or Action (2)**: Issues needing further discussion.
 - ondemand #354: Downloading research data based on the DOI of a dataset (Backlog)
 - ondemand #621: Verify CAT1 STIG Findings (Backlog)
- Reviewed, Scheduled (56)**: Issues reviewed and scheduled for completion.
 - ondemand #225: Dashboard: Hide launch shell buttons if OOD_DEV_SSH_HOST is not set (4.1)
 - ondemand #22: variable color support (4.1)
- Reviewed, Not Scheduled (62)**: Issues reviewed but not scheduled.
 - ood_core #861: JobComposer: Consider adding a timeout when submit host unresponsive.
 - ondemand #138: ActiveJobs: Add 'hold' and 'release' buttons. (Backlog)
 - ondemand #186: JobComposer: Feature Upgrade: Convert ... into editable page.
- Reviewed, Closed (85)**: Issues reviewed and closed.
 - ondemand #1141: File editor - first class citizen? refactor? (Backlog)
 - ondemand #1139: Decide between RSpec and Minitest (Backlog)
 - ondemand #135



openondemand.org/issues

Live Action View

GitHub Main Repository: ondemand

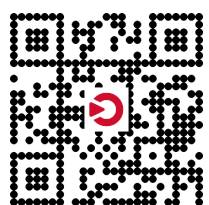


Issues 447 Pull requests 5 Discussions Actions Projects 3 Wiki Security Insights

is:issue is:open Labels 55 Milestones 5

447 Open ✓ 1,203 Closed Author Label Projects Milestones Assignee

- Allow for default or custom error page for PUN startup failure
#3949 opened 2 days ago by jgoodson Backlog
- Add turbo-streams to file browser
#3944 opened last week by euler-room Backlog
- XDMoD widget need initialized bug component/dashboard
#3943 opened last week by johrstrom Backlog 4.0
- Avoid HTTP 400 Bad Request by configuring request header limits
#3940 opened last week by tachylatus Backlog



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GOOD Conference

OPEN  nDemand

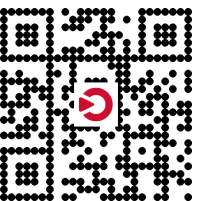


The Inaugural Conference for the Global Open OnDemand (GOOD) Community

Explore, Share and Shape the Future of Open OnDemand

Attend live keynotes, talks, BoFs and tutorials, and get to know fellow members of the Open OnDemand Community

Harvard University | March 17-20, 2025



**Registration
is Open**

- Contributor "Jam" on March 17
- Talks, BoFs, Social Events
March 18-20
- Celebrate Contributor Jam
achievements on March 20

openondemand.org/good

Questions/Comments

Post on the Menti page, we will respond either now or later!

Go to

www.menti.com

Enter the code

7470 2584



Or use QR code

openondemand.org/PCCC25

Thank You!

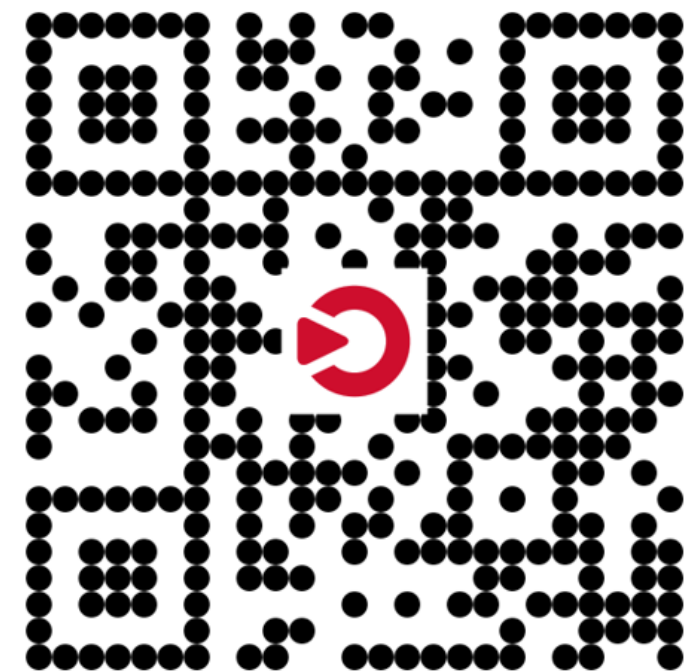
**Please take a moment to sign up for
our mailing list for future updates!**

Julie Ma

jma@openondemand.org

Emily Moffat Sadeghi

emoffat@openondemand.org



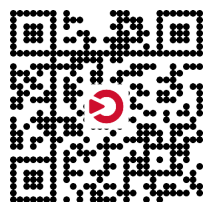
openondemand.org/signup

HPCwire Award

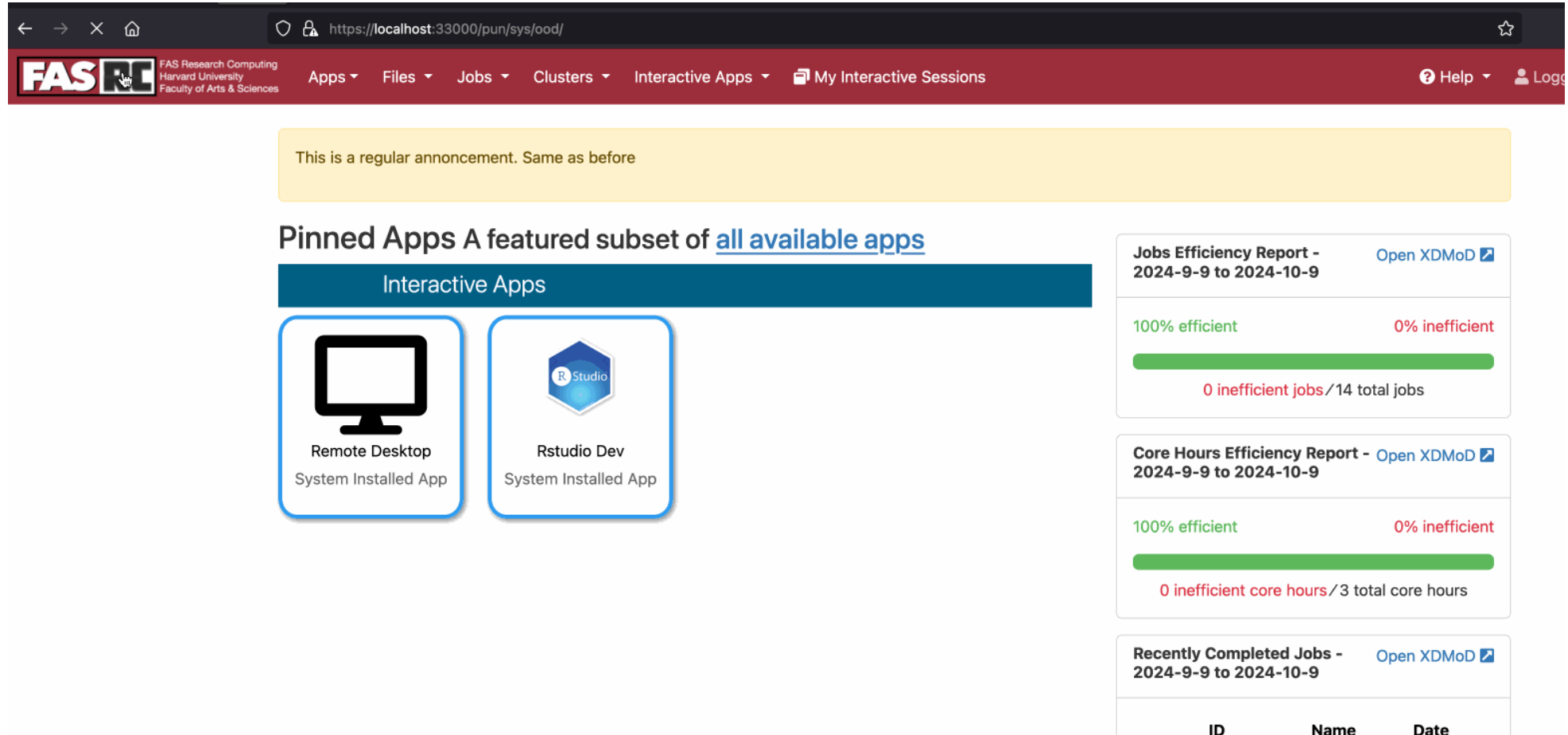


THANK YOU
to all who use
OpenOnDemand
and to all who
voted in the
HPCwire Readers'
Choice!

openondemand.org/hpcwire



Dismissible and Required Alerts



The screenshot shows the OpenOnDemand web interface. At the top is a navigation bar with the FAS logo, navigation links (Apps, Files, Jobs, Clusters, Interactive Apps, My Interactive Sessions), and user options (Help, Logg). Below the navigation bar is a yellow dismissible alert box with the text "This is a regular announcement. Same as before".

The main content area is titled "Pinned Apps A featured subset of [all available apps](#)". Under this title is a section for "Interactive Apps" containing two app tiles: "Remote Desktop" and "Rstudio Dev", both labeled as "System Installed App".

On the right side of the interface, there are three efficiency report cards for the period "2024-9-9 to 2024-10-9":

- Jobs Efficiency Report**: Shows "100% efficient" in green and "0% inefficient" in red. A green progress bar is at 100%. Below the bar, it says "0 inefficient jobs / 14 total jobs".
- Core Hours Efficiency Report**: Shows "100% efficient" in green and "0% inefficient" in red. A green progress bar is at 100%. Below the bar, it says "0 inefficient core hours / 3 total core hours".
- Recently Completed Jobs**: Shows a table with columns "ID", "Name", and "Date".

Open to how this can be improved or expanded

openondemand.org/releasesnotes



System Status Page

OSC OnDemand

Files ▾

Jobs ▾

Clusters ▾

Interactive Apps ▾

Gateway Apps ▾



Ascend Cluster Status

Nodes Available: 6

79.31% in use

Processors Available: 1,822

38.11% in use

GPUs Available: 21

80.19% in use

Jobs Running

44

Jobs Queued

2

Cardinal Cluster Status

Nodes Available: 307

17.91% in use

Processors Available: 34,302

11.81% in use

GPUs Available: 92

39.47% in use

Jobs Running

190

Jobs Queued

19



File Editor

OSC OnDemand

Files ▾

Jobs ▾

Clusters ▾

Interactive Apps ▾

Gateway Apps ▾



/users/PZS0714/emoffat/Test Text File



Save

Key
Bindings

Default

Font
Size

18px

Mode

Text

Theme

Chrome

Wrap



```
1 This is a test file and is for demonstration purposes
2
3 Run Open OnDemand
4 Access your organization's supercomputers through the web to compute from
  anywhere, on any device.
5
6 Administer Open OnDemand
7 Administer remote web access to your supercomputers to transform the way users
  work and learn.
8
9
```



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Branded Merchandise



OpenOnDemand - 20 oz Water Bottle
\$19.99



OpenOnDemand - Eco-Friendly Cotton
Tote
\$20.49



OpenOnDemand - Men's Premium T-
Shirt
\$26.99



OpenOnDemand - Women's Premium
T-Shirt
\$26.99



OpenOnDemand - Adjustable Apron
\$21.49



OpenOnDemand - Unisex Baseball T-
Shirt
\$29.49



OpenOnDemand - Camper Mug
\$18.99



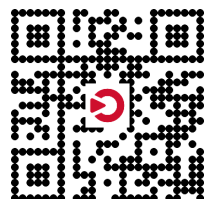
OpenOnDemand - Tote Bag
\$16.99



OpenOnDemand - Women's T-Shirt
\$22.99



OpenOnDemand - Men's Hoodie
\$40.49



openondemand.org/swag

Community Collaborations

OPEN  nDemand



doitnow
HPC Services



HARVARD
UNIVERSITY



NVIDIA

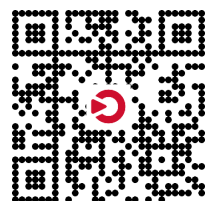
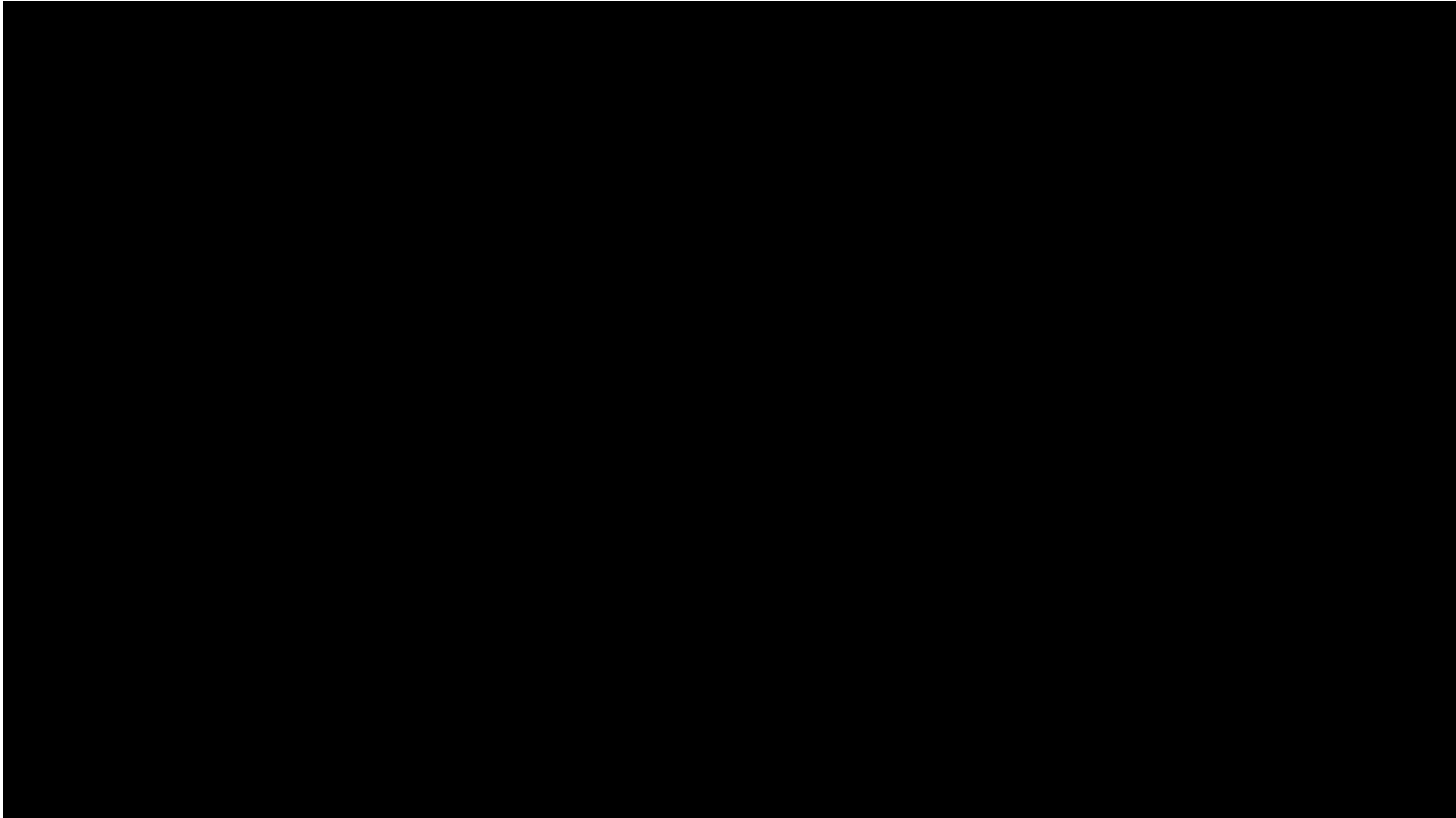


CCMNet



openondemand.org/our-partners

Any Challenge, Every Solution



openondemand.org/anyschallenge