

# XSEDE Cyberinfrastructure Integration (XCI) Introduction for new SPs

JP Navarro, Shava Smallen, Tabitha Samuel  
October 2020

**XSEDE**

Extreme Science and Engineering  
Discovery Environment

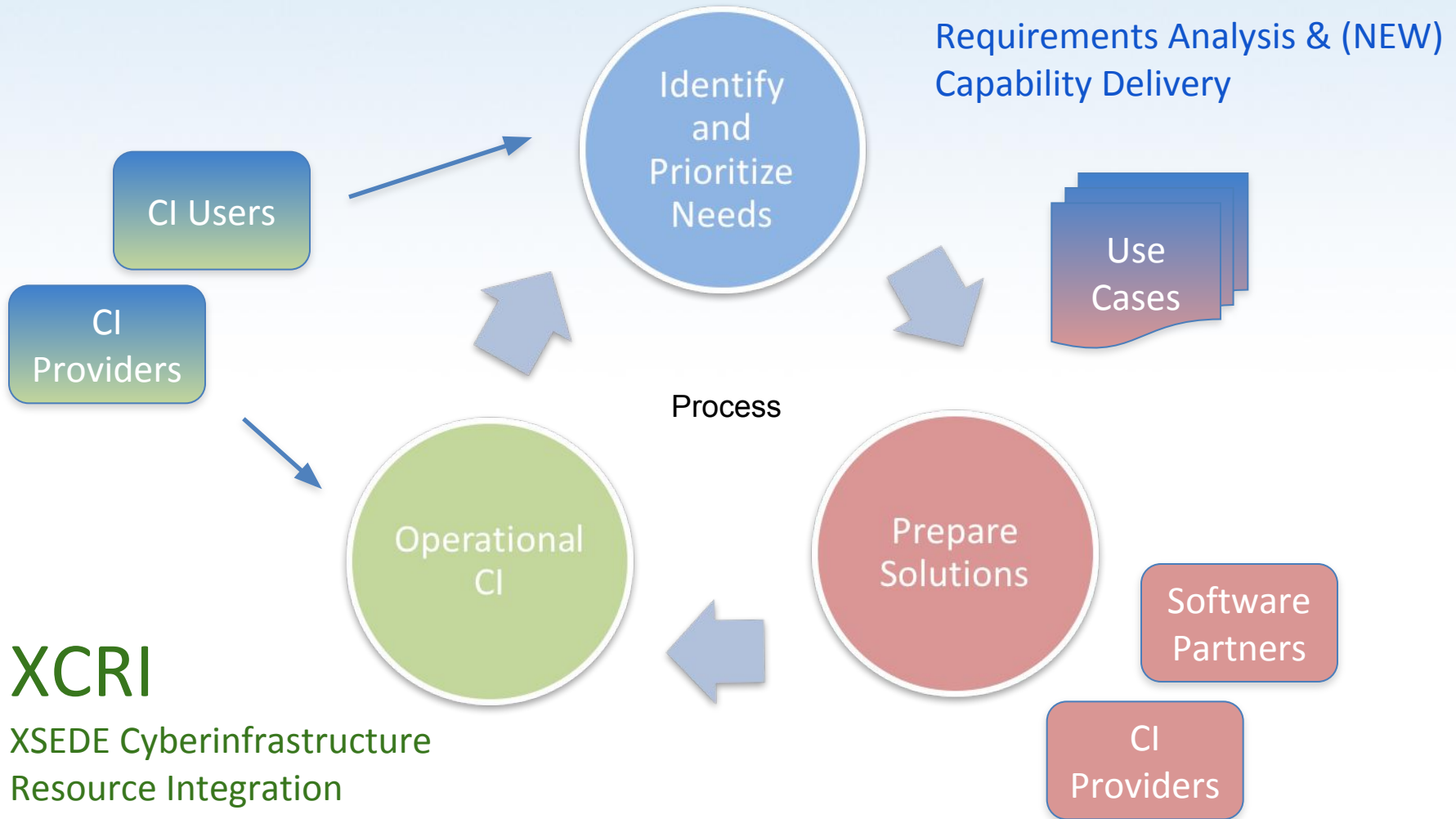
# XCI Related XSEDE Goals

- ❖ Advance and Sustain e-infrastructure
- ❖ XSEDE aims to be a **connector of cyberinfrastructure (CI) resources, software, and services** that enable collaborations to seamlessly access advanced computing resources and share data.

## XCI Mission

- ❖ To **facilitate interaction, sharing and compatibility of all relevant software and related services** across the national CI community building on and improving on the foundational efforts of XSEDE. ... including **seamlessly integrating** new CI resources supported by XSEDE and CI resources located on campuses throughout the US.

# XCI Activities Overview



## XCRI

XSEDE Cyberinfrastructure  
Resource Integration





# How XCI supports new SPs

## XSEDE Cyberinfrastructure Resource Integration (XCRI/Tabitha)

- Coordinate all aspects of **new SP or new resource integration**
  - ◆ Allocations/Accounting, User Portal, Operations/Helpdesk, User Support
  - ◆ Software/service integration
- Conduct periodic (yearly) integration status check-ups

## Requirements Analysis and Capability Delivery (RACD Team)

- Support XSEDE software provided to SPs
  - ◆ [View software list in the RSP](#)
- Integrate new and innovative software or service technologies
  - ◆ Could remain SP specific but require some XSEDE integration
  - ◆ Could become a new XSEDE wide capability

# XCI Provided Technologies (in blue)

## Enterprise Services

User Portal

Security Services

Login Services

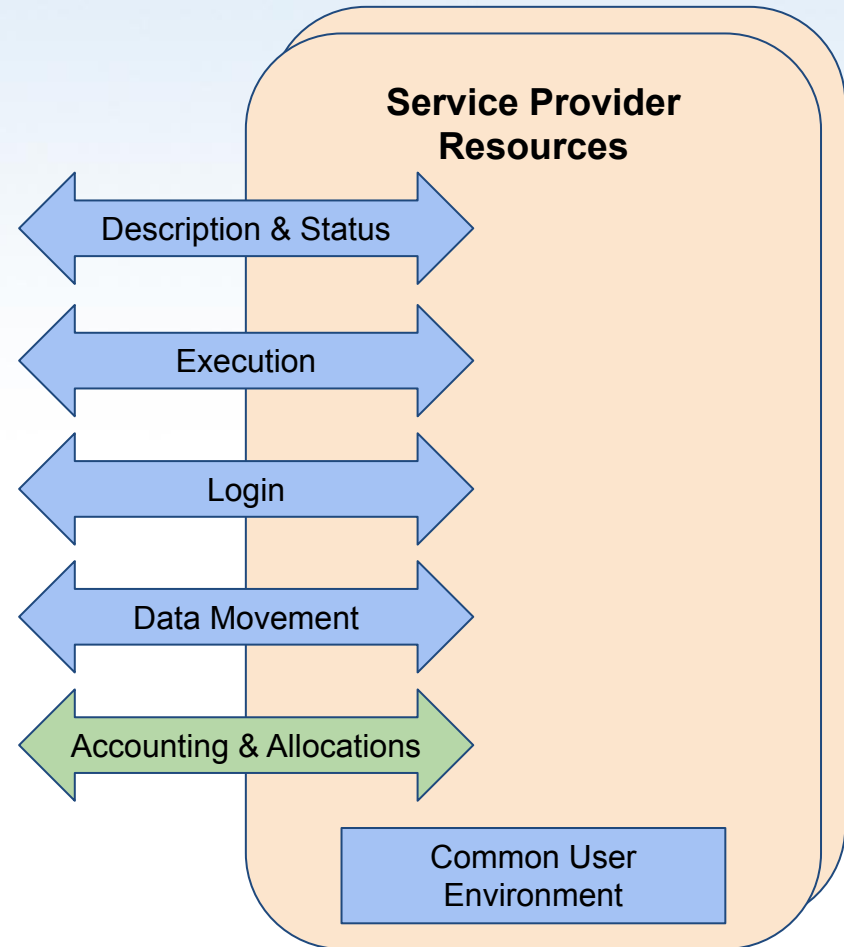
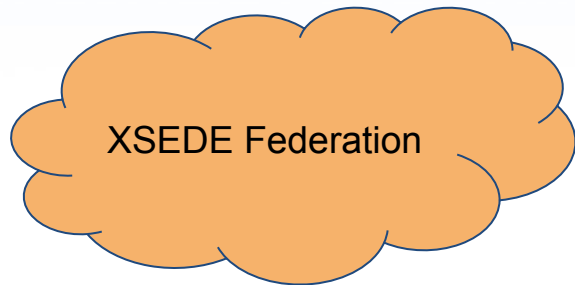
Data Services

Discovery Services

Research Software Portal

Allocations & Accounting Service

Monitoring Services



XSEDE

# Research Software Portal Demo

<https://software.xsede.org/>



XSEDE