

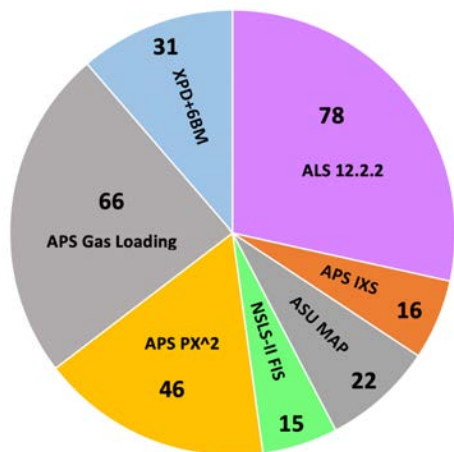
# Some COMPRES Annual Report Highlights

We are approaching the end of year-3 (June 1, 2019-May 31, 2020) and embarking on year-4 of the five-year COMPRES IV Cooperative Agreement (2017-2022). We continue to support innovative high pressure Earth materials research at three national synchrotron facilities: Advanced Light Source (ALS) at Lawrence Berkeley National Laboratory, Advanced Photon Source (APS) at Argonne National Laboratory, and National Synchrotron Light Source-II (NSLS-II) at Brookhaven National Laboratory. COMPRES funds six facility sub-awards at these synchrotrons, as well as a seventh sub-award facility, the multi-anvil project, at Arizona State University, and eighth and ninth sub-awards within Education Outreach and Infrastructure Development (EOID) at Princeton University and the University of California, San Diego.

## Publications

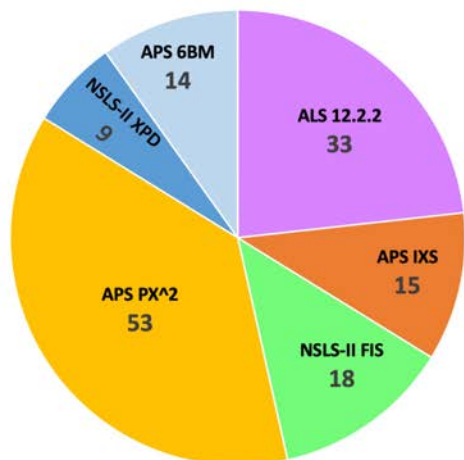
One of the main products of the COMPRES enterprise is our contribution to the peer-reviewed literature. COMPRES supported research in 274 publications in 2018-19. The pie diagram gives the number of publications for each of the COMPRES facilities. For the complete list see: <http://compres.unm.edu/sites/default/files/publications/Publications2018-2019.pdf>

COMPRES Publications 2018-2019 n=274

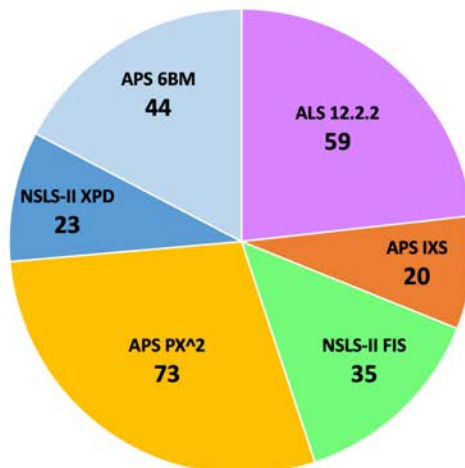


## User Metrics

COMPRES Beamline Total Unique Users n=142



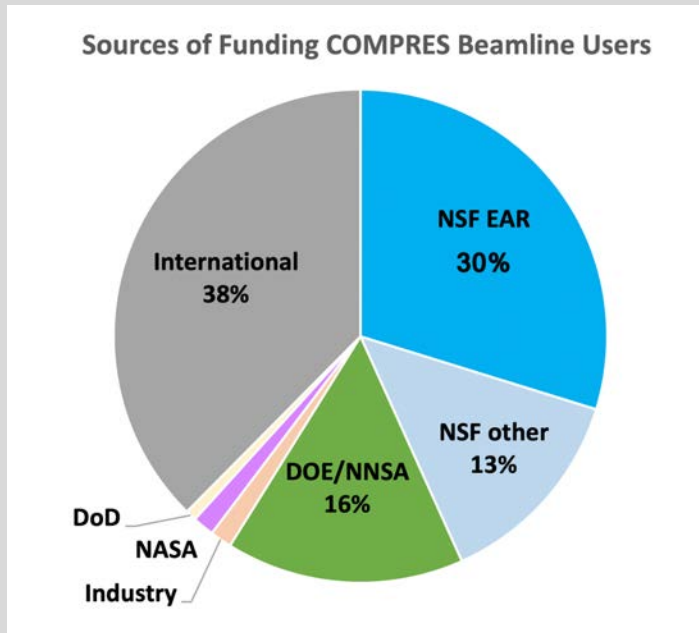
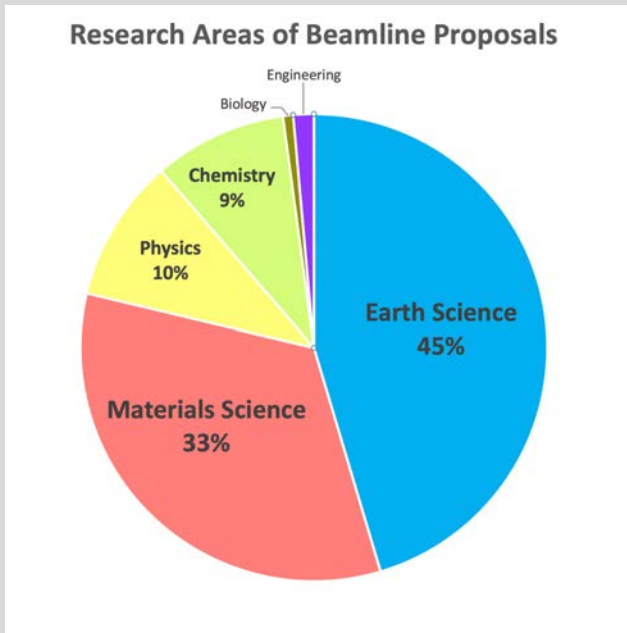
COMPRES Beamline Total User Visits n=254



In the past year COMPRES hosted 142 unique users and 254 user visits at its synchrotron facilities

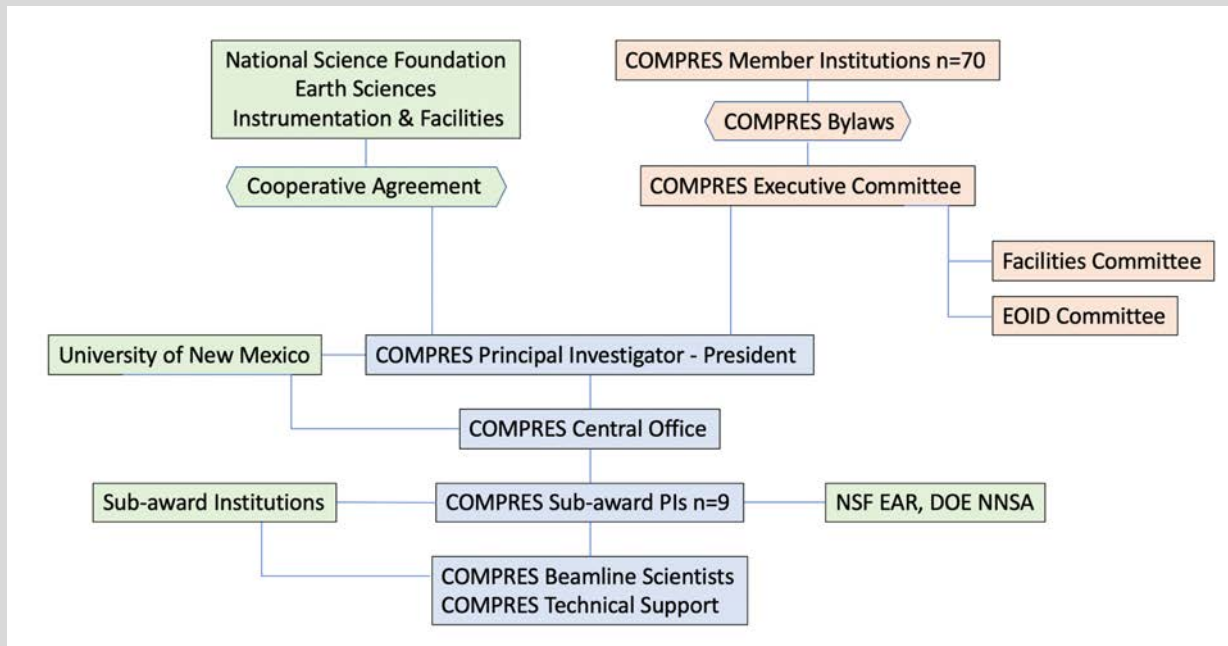
# Some COMPRES Annual Report Highlights

## More User Metrics



COMPRES facilities offered high pressure synchrotron research opportunities to users in Earth Science, but also in materials science and other physical sciences. User funding came from NSF EAR, but also a variety of other sources including a significant international component.

## COMPRES Organizational Structure



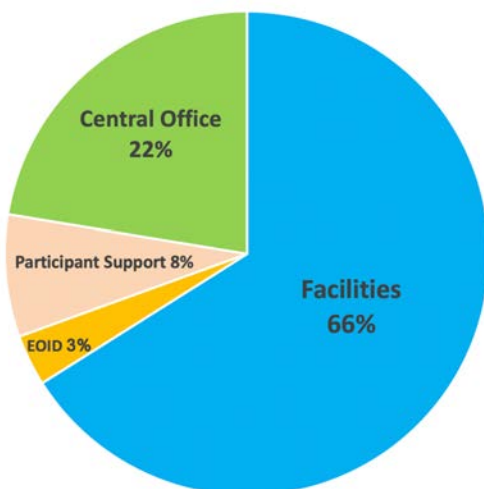
# Some COMPRES Annual Report Highlights

## Facilities and Projects

1. ALS 12.2.2 Beamline Diamond Anvil (PI: [Quentin Williams](#), UC Santa Cruz)
2. APS Beamline 6BMB Multi-anvil (PI: [Don Weidner](#), [Matt Whitaker](#), Stony Brook)
3. NSLS-II XPD Beamline Multi-anvil (PI: [Don Weidner](#), [Matt Whitaker](#), Stony Brook)
4. APS Beamline 13BM-C PX<sup>2</sup> Diamond Anvil (PI: [Przemek Dera](#), Univ. Hawaii) **GSECARS partnership**
5. APS Gas Loading for Diamond Anvil (PI: [Mark Rivers](#), Univ. Chicago) **GSECARS partnership**
6. APS Sector 3 IXS Diamond Anvil, [Mössbauer](#) (PI: [Jay Bass](#), UIUC)
7. NSLS-II FIS IR Beamline Diamond Anvil (PIs: [Russell Hemley](#), [Zhenxian Liu](#), UIC) **CDAC partnership**
8. Multi-Anvil Project (PI: [Kurt Leinenweber](#), ASU)
9. Development of an Electrical Cell in the Multi-anvil (PI: [Anne Pommier](#), UC San Diego)
10. Deep-Earth Large-Volume Experimentation "DELVE" (Lead: [Yanbin Wang](#), Univ. Chicago)
11. Mineral Elasticity Database (PI: [Tom Duffy](#), Princeton University)

## Budget

COMPRES Annual Budget FY 2019-2020  
\$2,400,000



COMPRES Facilities Budget FY 2019-2020  
\$1,571,954

