User Program

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Triennial Operations Peer Review

June 20th 2017

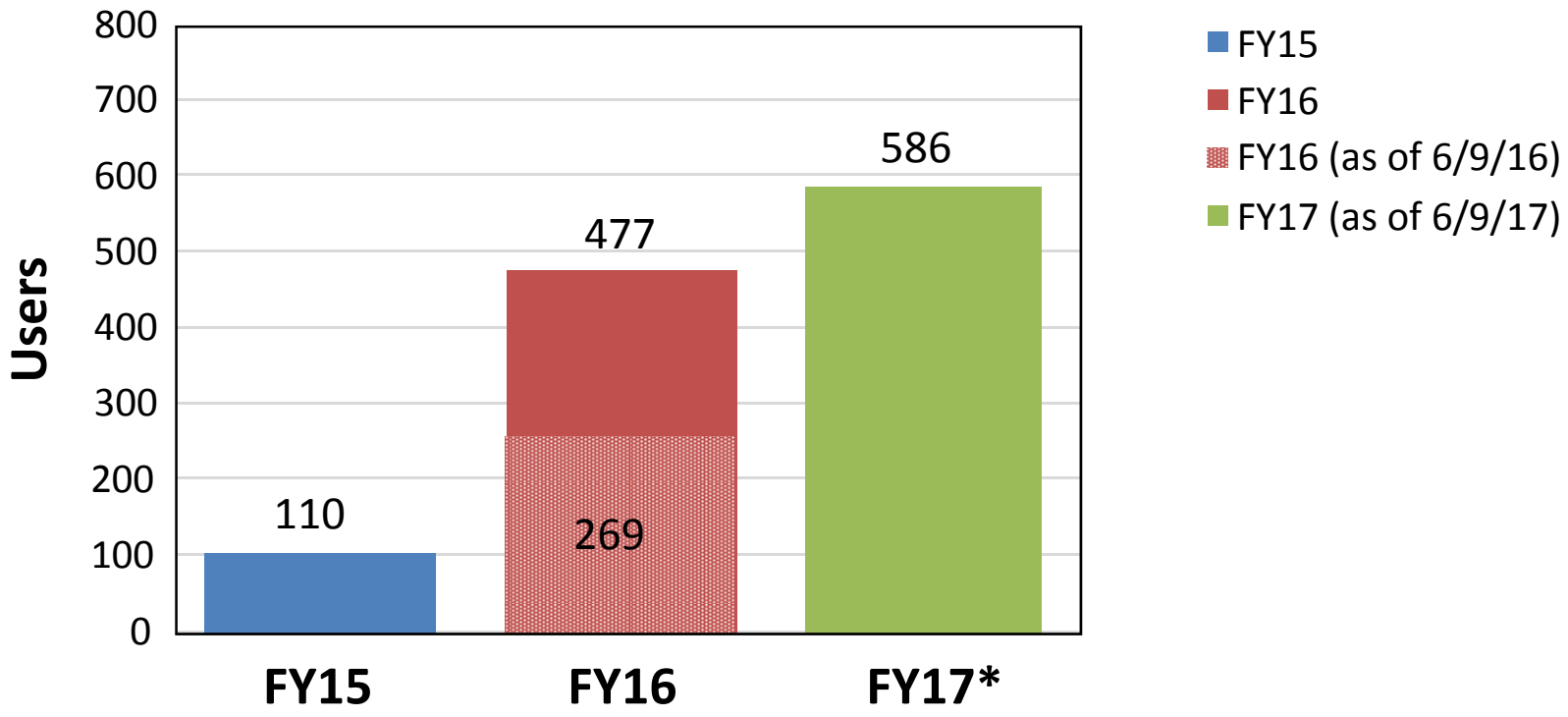
Outline

- User statistics
- Proposal types, process, and statistics
- Publications
- User Communications and Feedback

Goals:
- Enable the most impactful science
- Optimize user productivity
- Provide a safe and enjoyable user experience

NSLS-II Facility Users by Fiscal Year

(as of June 9, 2017)



Modes of User Access

Traditional

- Technical Commissioning
- General User
- Rapid Access
- Partner User
- Proprietary
- Beamline Discretionary Time

New Modes Planned

- Mail-in
- Remote-access
- Multiple-beamline proposals
- NSLS-II / SNS (neutron PDF) proposals

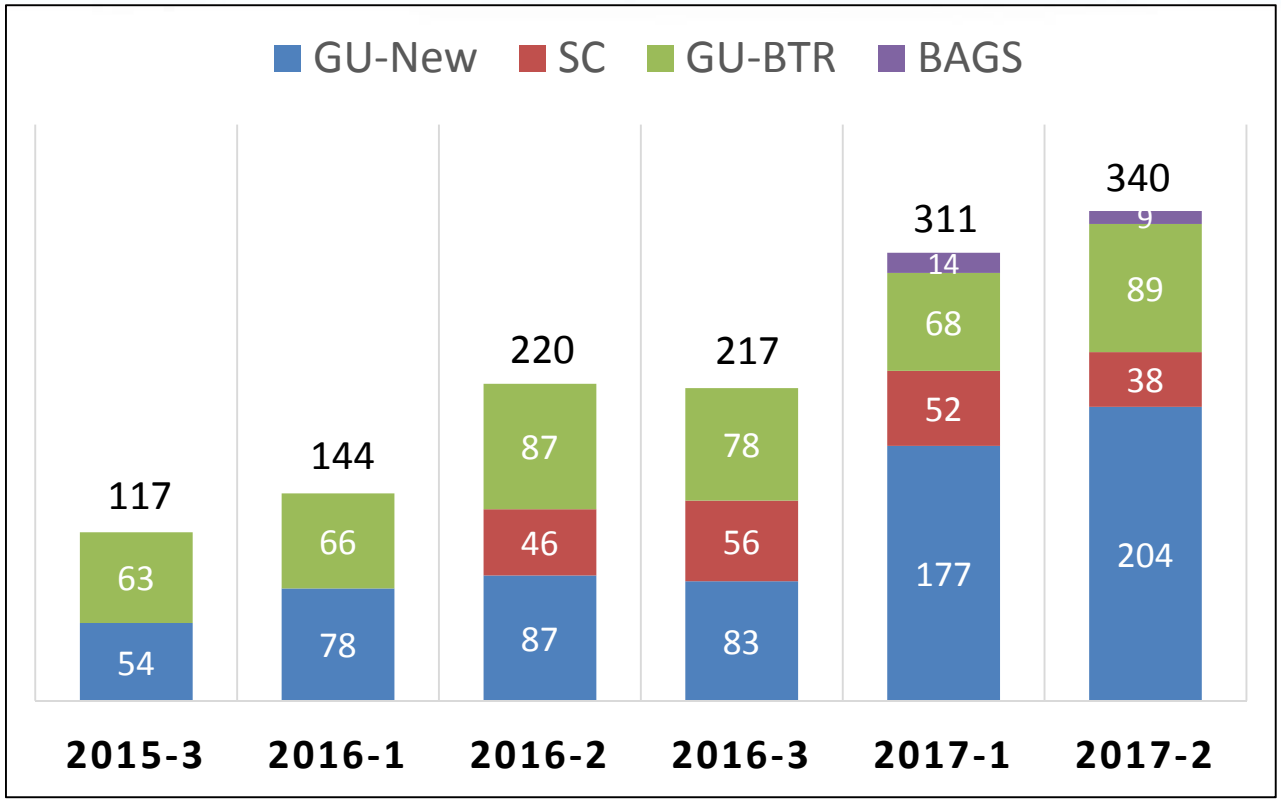
New Modes Implemented

- Block Allocation Groups (BAGs)
  - Groups of users that want to share a small block of beam time in order to permit greater flexibility in beam time allocation and scheduling.
  - motivated by shared scientific interest, geographical location, affiliation, or other synergistic reasons
  - Current beamlines: FMX, AMX, LiX
- Joint Facility Proposals

  SAXS – SANS Proposals
  - Proposals submitted to 16-ID (LiX) or BIO-SANS (HFIR at ORNL)
  - Reviewed and allocated by joint PRP
  - To date: 5 proposals allocated 15 shifts each of SANS and SAXS time

  NSLS-II / CFN Proposals
  - Partner beam time on CSX-2, ESM, CMS, and SMI
  - Reviewed and allocated by both CFN and NSLS-II PRP
  - To date:
    - CSX-2: began 2016-3, 15 proposals
    - ESM (LEEM): began 2017-1, 10 proposals
    - CMS: began 2017-2, 7 proposals
    - SMI: will begin 2018-1

Beam Time Proposals

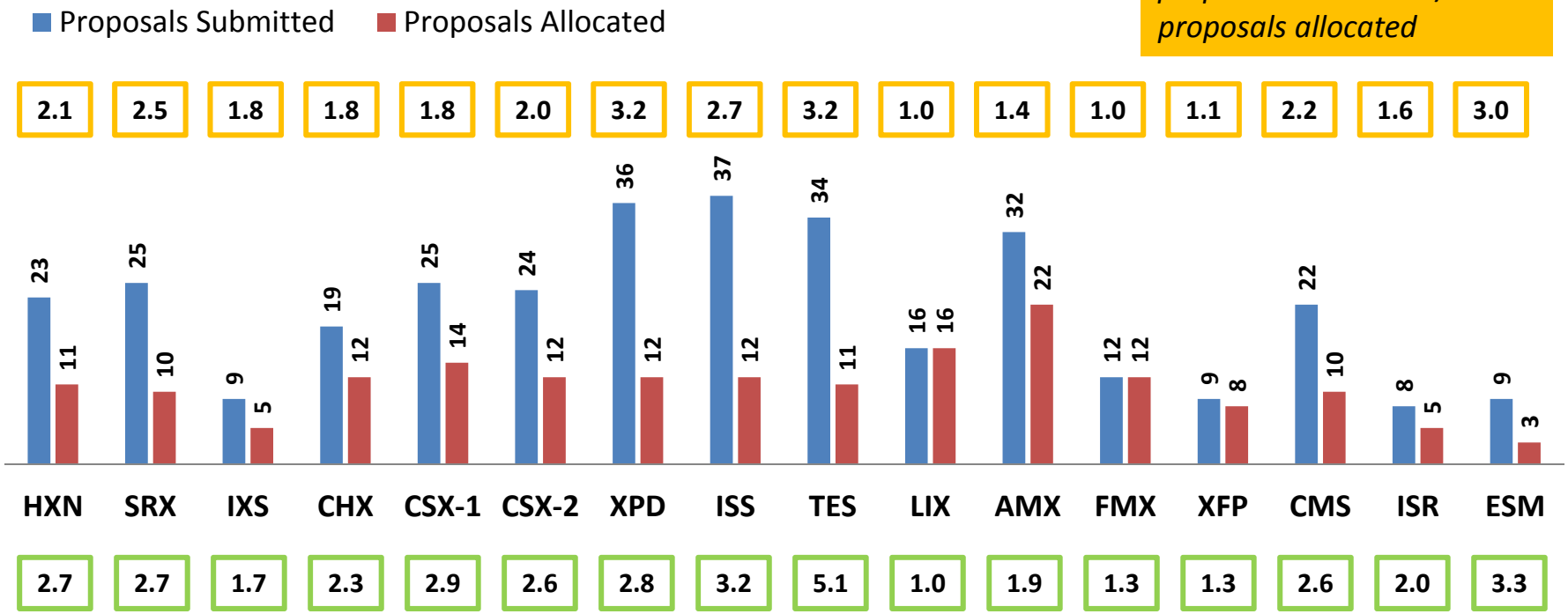


BTR: Beam Time Request (against existing proposal)
GU = General User
SC = Science Commissioning
BAGs = Block Allocation Groups

2016-1: Jan-Apr 2016
2016-2: May-Aug 2016
2016-3: Sept-Dec 2016
2017-1: Jan-Apr 2017
2017-2: May-Aug 2017

Subscription Rates (2017-2)

Proposal subscription rate = proposals submitted / proposals allocated

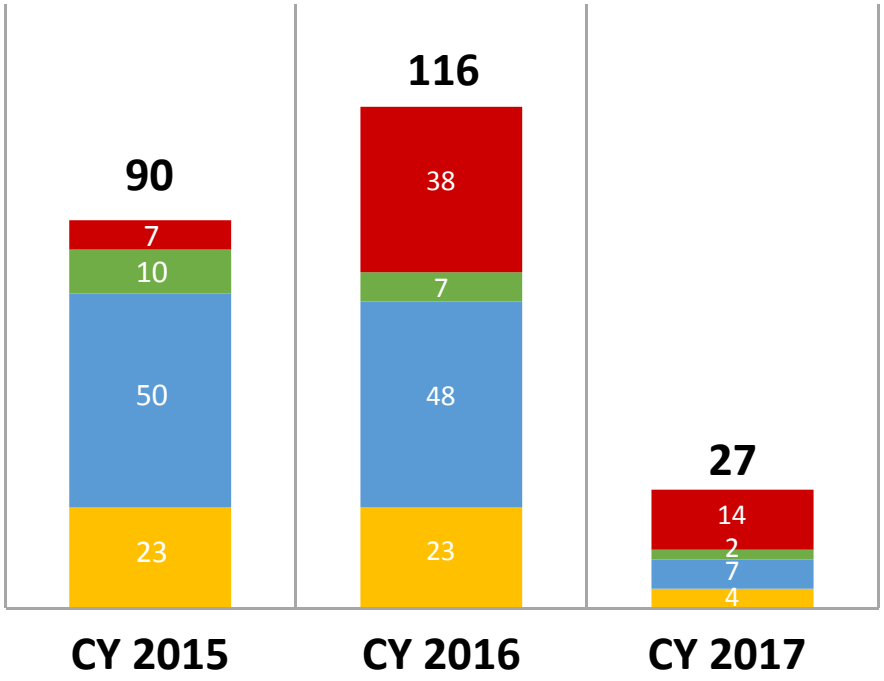


Shift subscription rate = shifts requested / shifts allocated

- Subscription rates are healthy for more mature beamlines
- In order to accommodate more proposals, i.e. improve **proposal subscription rate**, some beamlines are reducing the shifts allocated (i.e. increasing the **shift subscription rate**)

Publications

(as of June 9, 2017)



- Pubs using NSLS-II photons
- Staff pubs doing R&D related to NSLS-II beamlines
- Staff pubs performing accelerator research (no beamline)
- Staff research pubs as PI or co-PI (not on NSLS-II beamlines)

<u>Summary using NSLS-II photons:</u>

- 59 pubs
- 10 DOE high impact
- 22 premier* papers
- 32 included staff

**journal with impact factor > 6.0*

NSLS / NSLS-II Transition Beamline Program

In order to accommodate displaced NSLS users, 5 "transition programs" were established at the other DOE synchrotrons and supported by NSLS-II staff

Facility	Beamline(s)	Program End	NSLS-II program	*Unique Users*	*Proposals*	*Pubs*	*Burdened Costs to date*
ALS-Infrared	Beamlines 1.4, 5.4	October 2017	FIS-MET	20	14	3	$111.3k
APS-TXM	Beamline 8-BM	July 2017	FXI	29	44	7	$704.6k
APS-diffraction	Beamline 6-BM-A	October 2017	HEX	53	29	2	$152.7k
SSRL-Spectroscopy	Beamline 2-2	December 2016	ISS, QAS, XFP	60	33	20	$313.5k
SSRL-MX	Beamline 14-1	October 2016	FMX, AMX	191	53	22	$412.8k
TOTAL				**353**	**173**	**54**	**$1,694k**

as of March 2017

User Feedback & Communications

- Users Executive Committee: HTTP://WWW.NSLSUEC.ORG/
- Website: HTTPS://WWW.BNL.GOV/PS/
- Online User Guide: HTTPS://WWW.BNL.GOV/PS/USERGUIDE/
- End of Run Survey: HTTPS://PASS.NSLS.BNL.GOV/END_OF_RUN/
- PASS System Feedback form: HTTPS://SURVEYS.EXTERNAL.BNL.GOV/N/NSLSIIPASSFEEDBACK.ASPX

User Administration, Workshops, Publications

Gretchen Cisco

Nancye Wright

Mercy Baez

Gladys McKenzie

Communications

Ricarda Laasch

User Issues Task Force

Background and Scope

- As an outcome from our strategic planning retreat in July 2016, a user issues task force was established
- Addresses issues with user access modes; all aspects of the user experience such as guest appointments, computer accounts, data access, and user amenities; user communications; and education and outreach
- Deliverable is written report every 6 months that assesses the current status of user issues and provides prioritized list of possible actions

Top Priorities

- *User Access Modes*: initiate mail-in and remote-access; implement multi-beamline and multi-facility proposals
- *User Experience*: one-stop from main gate to beamline; single user login and improved access to data; 24-hour access to food
- *Education and Outreach*: focus on hands-on workshops at beamlines

Summary

- The user program is running and growing fast.
  - A range of proposal types to accommodate a variety of user needs
  - We have instituted new access modes such as BAGs and joint facility proposals
  - Other mechanisms are planned for 2018 (e.g. remote access, mail-in)
- We have challenges:
  - All beamlines are over-subscribed
  - Beamlines are still maturing
  - Need to balance new users, completing projects, and commissioning new capabilities
- We have feedback and communications mechanisms in place in order to continually improve our processes