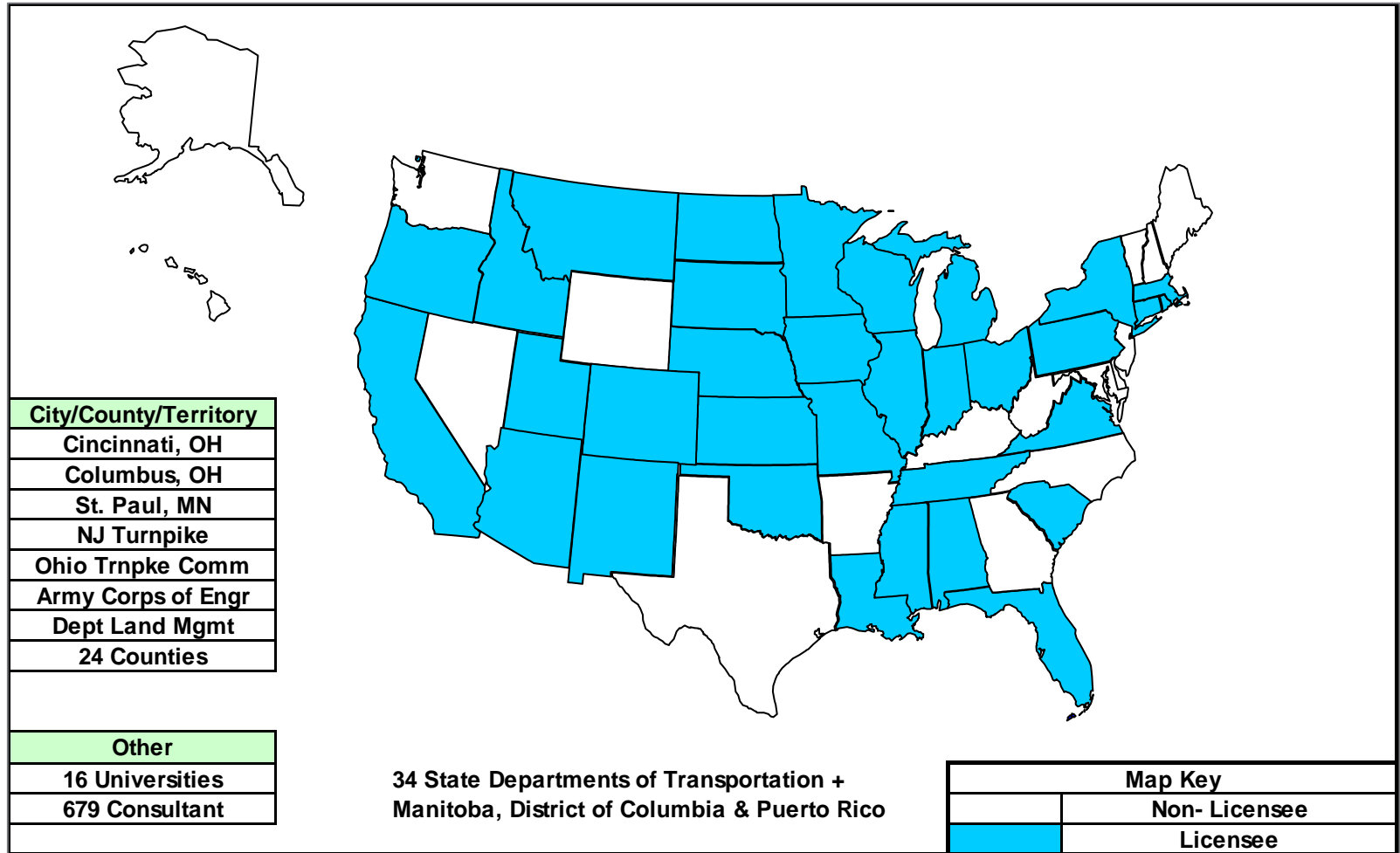# Bridge Design-Rating AASHTO Overview

2018 RADBUG Meeting Boise, ID

Judy Skeen Tarwater, P.E.

Bridge Rating Licensees (FY18)
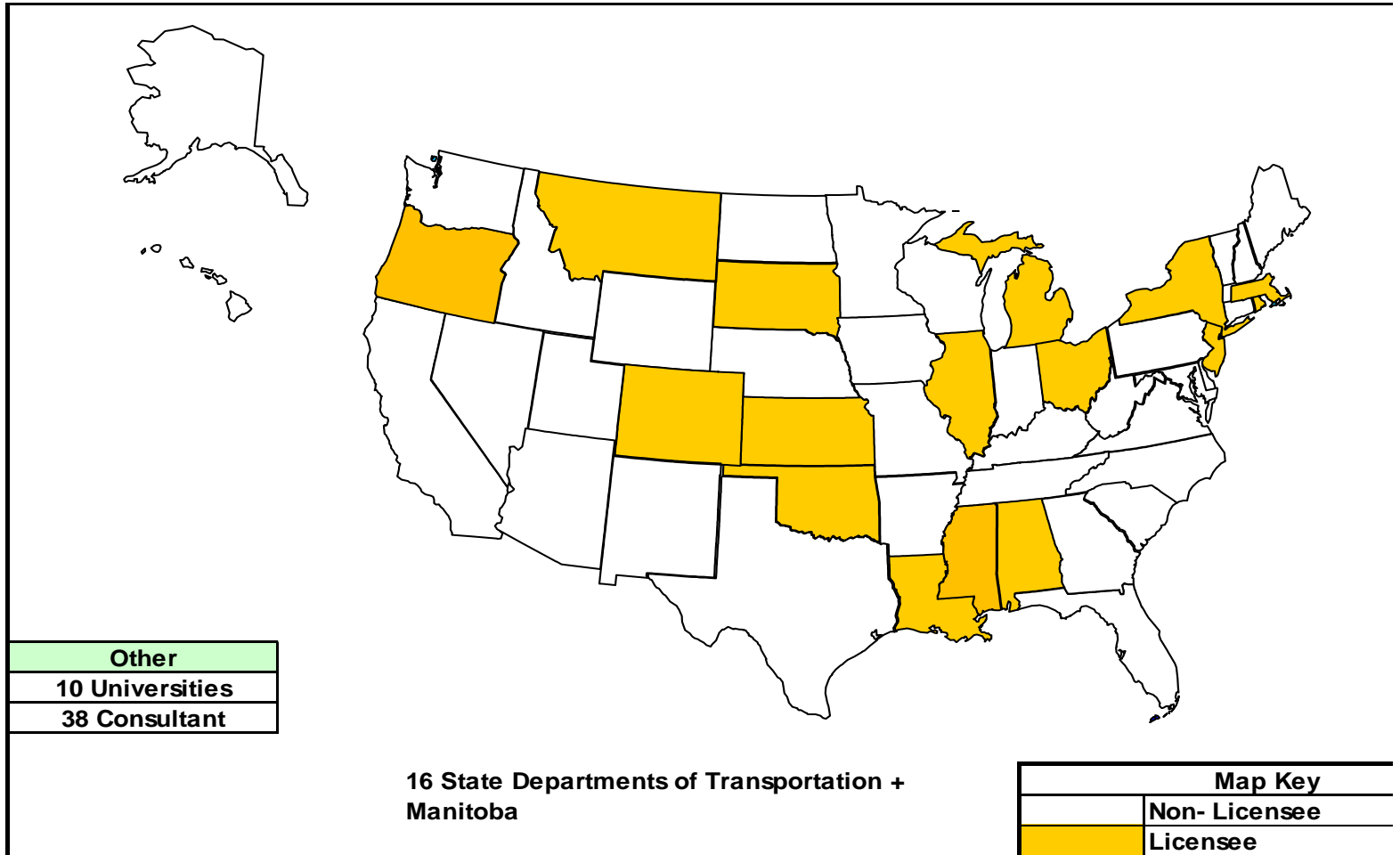
City/County/Territory
Cincinnati, OH
Columbus, OH
St. Paul, MN
NJ Turnpike
Ohio Trnpke Comm
Army Corps of Engr
Dept Land Mgmt
24 Counties

Other
16 Universities
679 Consultant

34 State Departments of Transportation + Manitoba, District of Columbia & Puerto Rico

Map Key	
	Non- Licensee
	Licensee

Bridge Rating Licensees (FY18)

License Type	Number of Licenses
BrR Evaluation	16
BrR Development	6
BrR Educational	11

New Member Agencies Considering BrR
• Georgia Department of Transportation
• Texas Department of Transportation
• Kentucky Transportation Cabinet
• Washington Department of Transportation

Bridge Design Licensees (FY18)

Other
10 Universities
38 Consultant

16 State Departments of Transportation + Manitoba

Map Key	
Non- Licensee	
Licensee	

Bridge Design Licensees (FY17)

License Type	Number of Licenses
BrD Evaluation	5
BrD Development	2
BrD Educational	11

New Member Agencies Considering BrD
• Georgia Department of Transportation
• Texas Department of Transportation
• Kentucky Transportation Cabinet
• Washington Department of Transportation

Outreach / Marketing

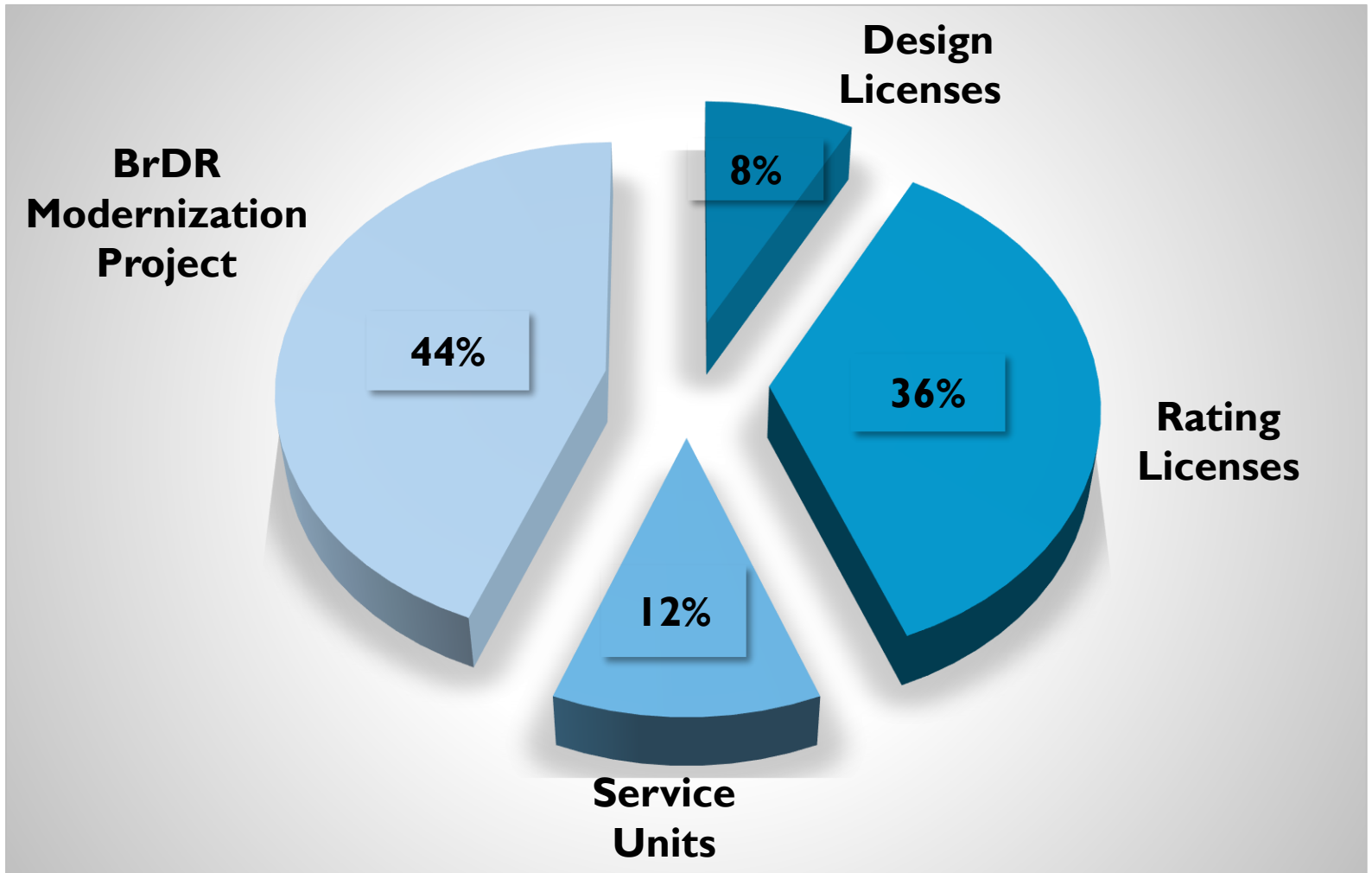Opportunities to expand the Bridge Design and Bridge Rating user base.

- Incorporation of both products into NCHRP projects
- Partnership with NSBA to establish interface with SIMON
- Product presentations at numerous meetings and conferences
- Invitations extended to DOT personnel to attend Task Force meetings in their home locales
- Communication tailored for specific audiences

Outreach / Marketing

- Newsletters – hardcopy for conference distribution and online for wider consumption

- Redesigned AASHTOWare web site

- Incorporation of Ideas / suggestions from the BrDR Community

- BrDR Modernization – faster program execution, easier to incorporate enhancements (new functionality), and opportunity to complete user requested enhancements in the 'queue'
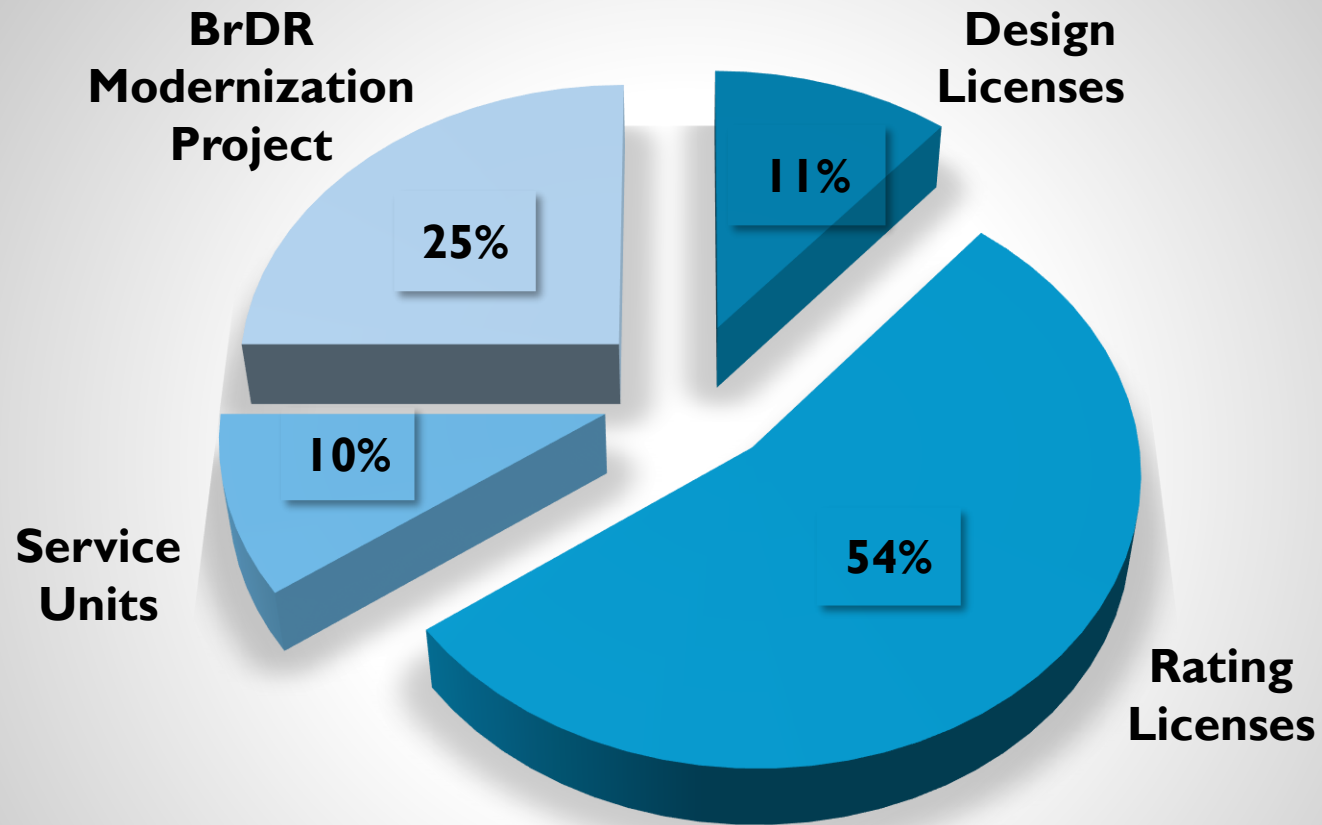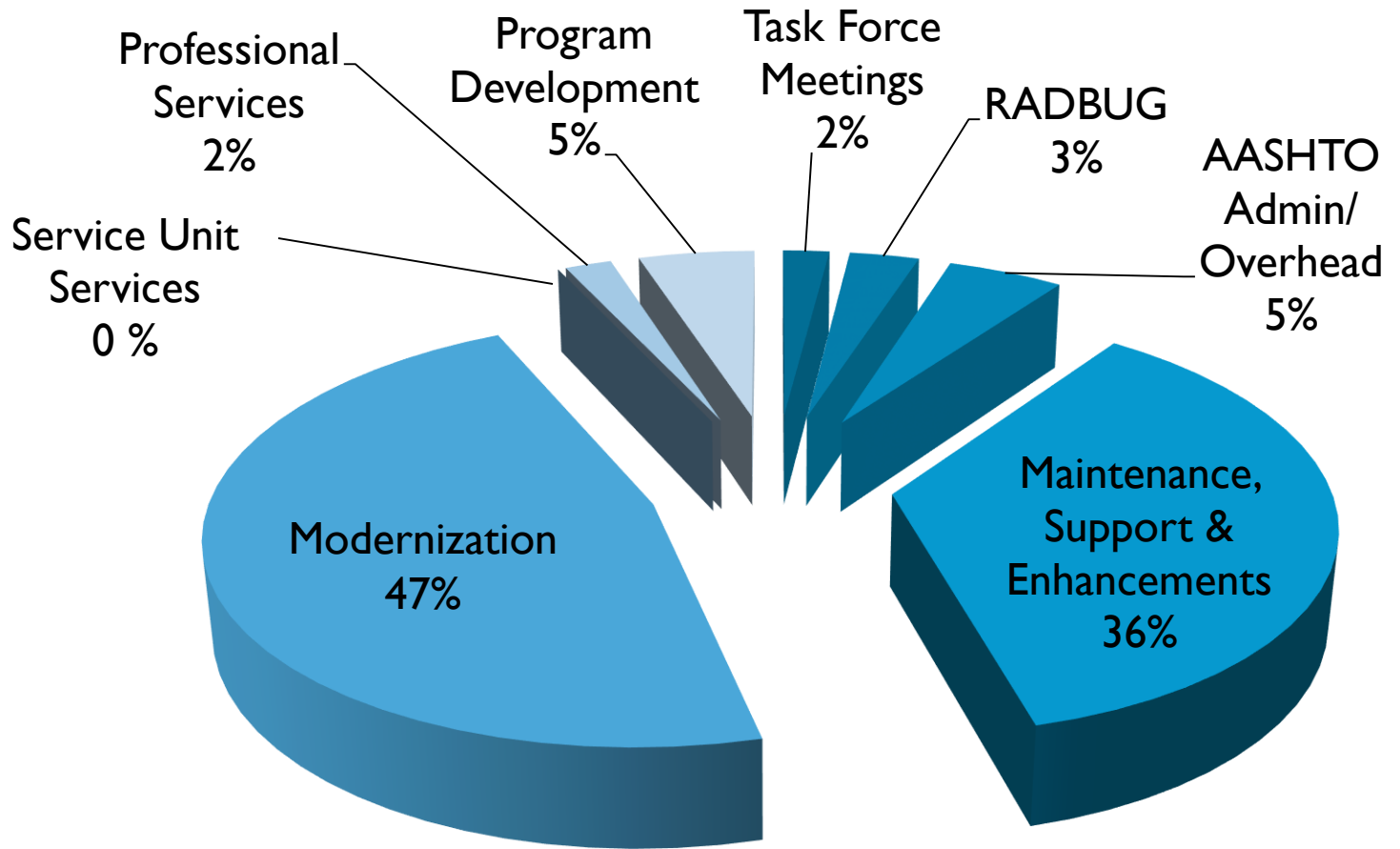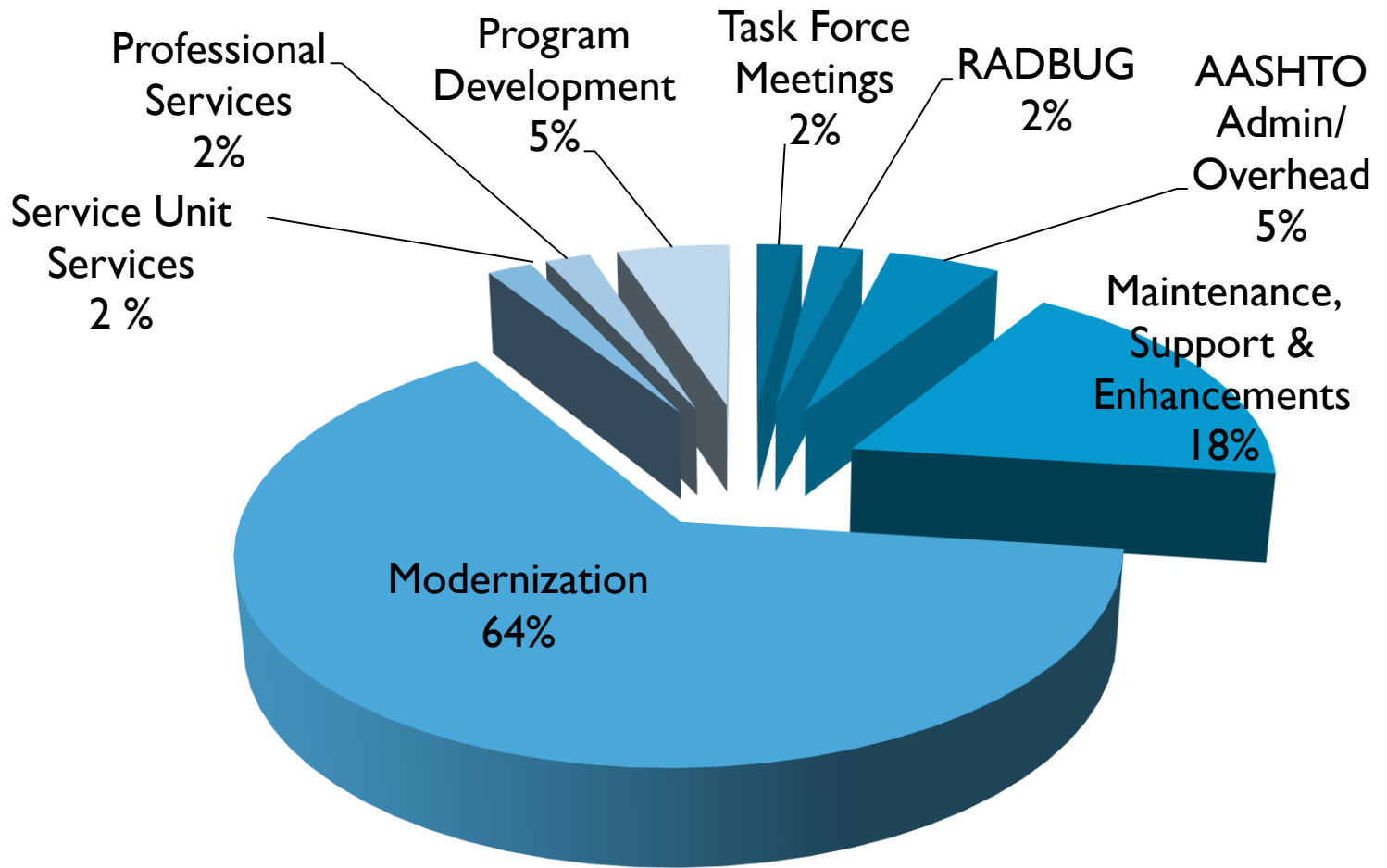
FY2017 Bridge Design-Rating Revenue

FY2018 Bridge Design-Rating Revenue
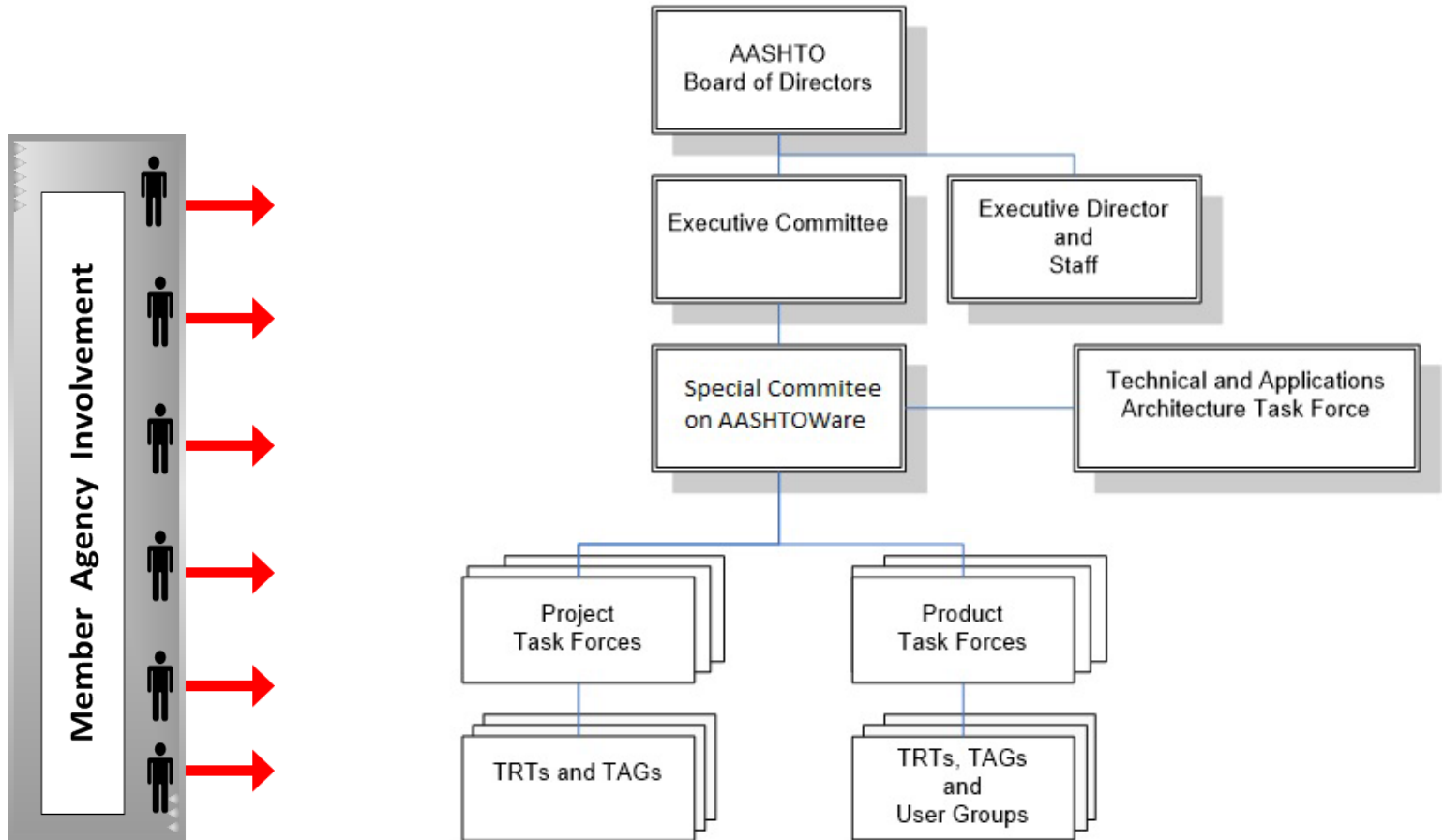
FY2017 Expenditures

FY2018 Expenditures

DOT Driven Software Solutions

AASHTOWare Program Management

AASHTO Administrative Overhead

- AASHTO Administration & Overhead
  - Staff salaries, benefits, and overhead
  - Contracted Project Manager
  - Proportional share of SCOA, T&AA and indirect costs
  - Legal Services
- Technical and Applications Architecture Task Force
  - Technical resource for SCOA and product task forces
  - Develop and maintain software standards and perform QA Reviews

Why Use AASHTOWare?

- Incorporates "best practices"

- Users share solutions and costs

- License fees cover overall expenses ensure software products are kept current with technology, AASHTO specifications and functional requirements

- Each product is self-supporting

- Non-profit operation

- Management and oversight by agency (DOT) personnel

- AASHTO staff project management/assistance

Task Force Member Appointment Process

- Conduct broad solicitation of interest to member community

- Candidate resumes reviewed by Task Force Chair, SCOA Liaison, and AASHTO Project Manager

- Interviews conducted by same to find subject matter expertise needed to compliment the current Task Force membership

- Candidate recommendation and all resumes received submitted to SCOA for approval

Members allowed to serve two, three-year terms. Special terms may be extended at the direction of the SCOA

AASHTOWare Service Units

AASHTOWare Software Renewal Process

AASHTOWare Bridge Design-Rating Modernization

- $14.8M Project
- A minimum of twenty (20) member agencies @ $740,000 each

Code / Architecture Modernization	Phases 1 and 2 (fiscal years 2017, 2018 and 2019)
Functionality Enhancements	Phase 3 (fiscal year 2020) – funded through license fee revenue collected over the four years of the project

Status

- $8,059,000 committed by 15 states (One state, the Iowa DOT came on board since the 2017 RADBUG)

- Product future depends on the modernization of the code

- Continued incorporation of functionality enhancements into the current product, supported by an outdated architecture and code base, would ensure product obsolescence in the near future

BrDR Modernization

15 State Departments of Transportation

	Map Key
	Participant

Project Funding Approach Revisited

BrDR licensing fees targeted for Phase 3 enhancements ⟶ Supplement the funding short-fall for Phases 1 and 2

⬇ **$$** for post-modernization enhancements

Additional agencies?   Additional **$$** for post-modernization enhancements

AASHTOWare Bridge Design-Rating Modernization

- Member agency license fees held constant through the duration of the project
- Special Consultant Option license fees increased from $4,100 in FY17 to $5,000 in FY19
- Consultant Unlimited Option license fees increased from $37,500 in FY18 to $50,000 in FY19

BrDR Modernization Road Map

2018	**Legacy Release - 6.8.3** • Legacy User Interface • Legacy & Modernized AASHTO Engine **Modernization Phase 1** • Modernized AASHTO Engine
2019	**Legacy Release - 6.8.4** • Legacy User Interface • Legacy & Modernized AASHTO Engine **Modernization Phase 2 – 7.0** • Modernized User Interface • Modernized AASHTO Engine
2020	**Modernization Phase 3 – 7.1** • Modernized User Interface • Modernized AASHTO Engine • User requested high priority enhancements

Questions / Comments?

AASHTO Expense Reimbursements

Concur – A majority of the AASHTO travel reimbursements will be handled via electronic input, submission, and approval.

- Judy Tarwater will conduct a brief Concur "how-to" session this afternoon at 4:30 for AASHTO member agency attendees.

Current Travel Reimbursement form on the RADBUG website

- For those AASHTO-reimbursable attendees who require travel reimbursements to go through their agency, the manual travel expense reimbursement process may be used. Sign reimbursement form, scan form and receipts, email submission to Judy Tarwater jtarwater@aashto.org