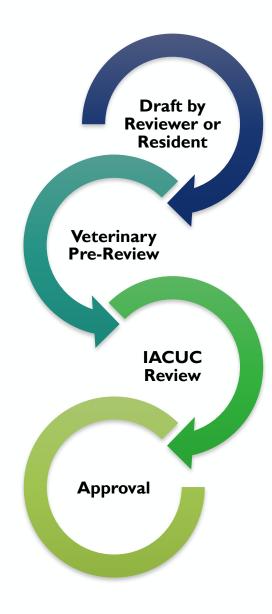
# **ON THE CUSP:** A New Option for Addressing Administrative Burden

Aubrey Schoenleben & Sally Thompson-Iritani, University of Washington 69<sup>th</sup> AALAS National Meeting, 10.29.18

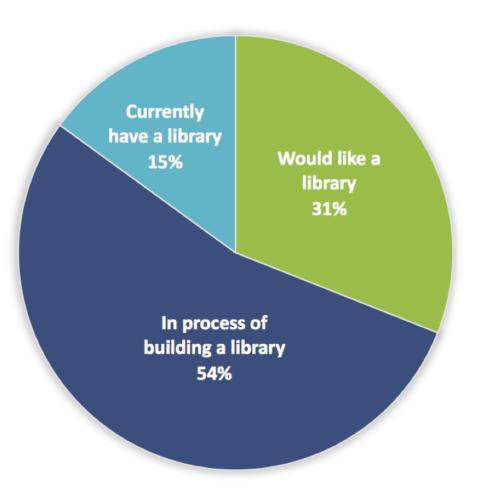
#### **BACKGROUND**:

- Protocol preparation and review extremely time and effort intensive – creation of standard procedures topped UW researcher wish list.
- Transition to electronic protocol management system motivated development of standard procedures.
- Collaborative process for development and approval of standard procedures.
- Current library includes 897 standard substances and 654 standard procedures



### <u>IT'S NOT JUST US...</u>

- Animal research regulations identified as a top source of administrative burden.
- 33% of investigators describe protocol review process as "unnecessarily complex and time consuming."
- Identifying a mechanism to reduce the time and effort needed to create and review protocols would reduce this burden for researchers and IACUCs.



 National Science Board. 2015. Reducing Investigators' Administrative Workload for Federally Funded Research. Retrieved from: https://www.nsf.gov/pubs/2014/nsb1418/nsb1418.pdf
 2.21st Century Cures Act. January 2017. Retrieved from: https://www.congress.gov/114/bills/hr34/BILLS-114hr34enr.pdf
 Federal Demonstration Partnership. 2012. Faculty Workload Survey Research Report. Retrieved from: http://sites.nationalacademies.org/cs/groups/pgasite/documents/webpage/pga 087667.pdf



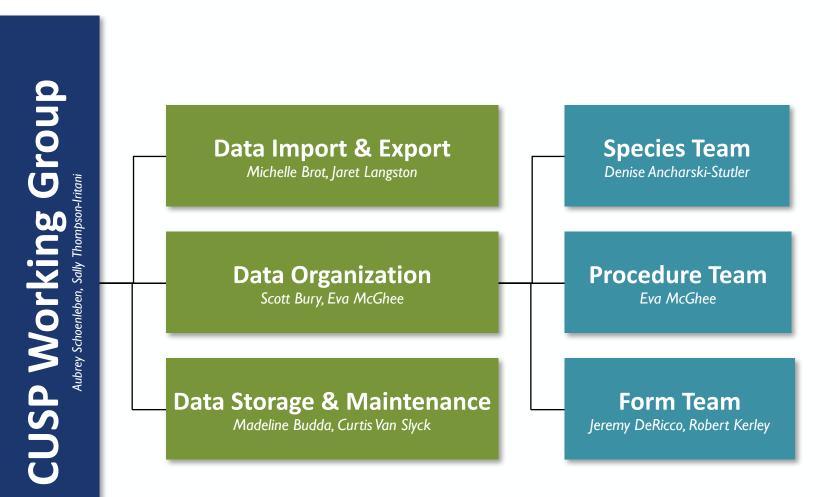
CUSP = Compliance Unit Standard Procedure Partnered with Federal Demonstration Partnership (FDP)

#### <u>Goal</u>:

Develop an online resource where participating institutions can share standard procedures used in animal care protocols.

	A Web Page
Home About My Procedures	Download Selected Procedures         ID       Procedure Name         ID       Procedure Type
☐ Item 1 ☑ Item 2 ☑ Item 3 ☐ Item 4 ☐ Item 5	123       H ☆ □       NME: Buprenorphine Analgesia       gdon       □         123       H ☆ □       NME: Buprenorphine Analgesia       PROCEDURE TYPE: Substance Administration         9       Administration of AAV       PROCEDURE DESCRIPTION       y       ✓         234       CO2 Euthanasia       Buprenorphine (0.05 mg/kg) will be diluted with sterile saline or water to the appropriate concentration and then injected subcutaneously (SC). Total injection volume will not exceed 10 u/g of body weight A single dose of buprenorphine will be administred to deliver up to 12 hours of analgesia.       If signs of pain are noted despite buprenorphine administration, or following this period, Veterinary Services will be consulted.         345       Tricaine Overdose       H signs of pain are noted despite buprenorphine administration, or following this period, Veterinary Services will be consulted.         345       Tricaine Overdose       KEYWORDS         Analgesia, opioid, Buprenex       Analgesia, opioid, Buprenex
Pick List Two       ➡         Pick List Three       ➡         Pick List Four       ➡	Lone FDP Help

#### **WORKING GROUP:**

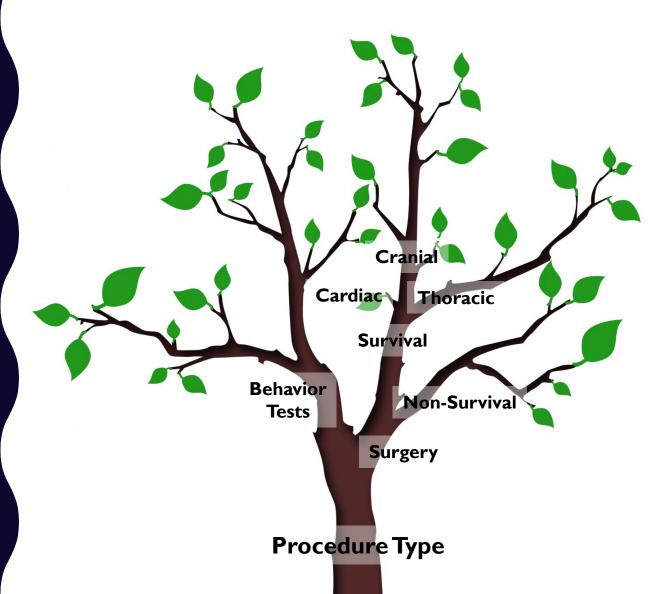


**Currently 90 members from 50+ institutions** 

#### WHAT HAVE WE BEEN UP TO THIS PAST YEAR?

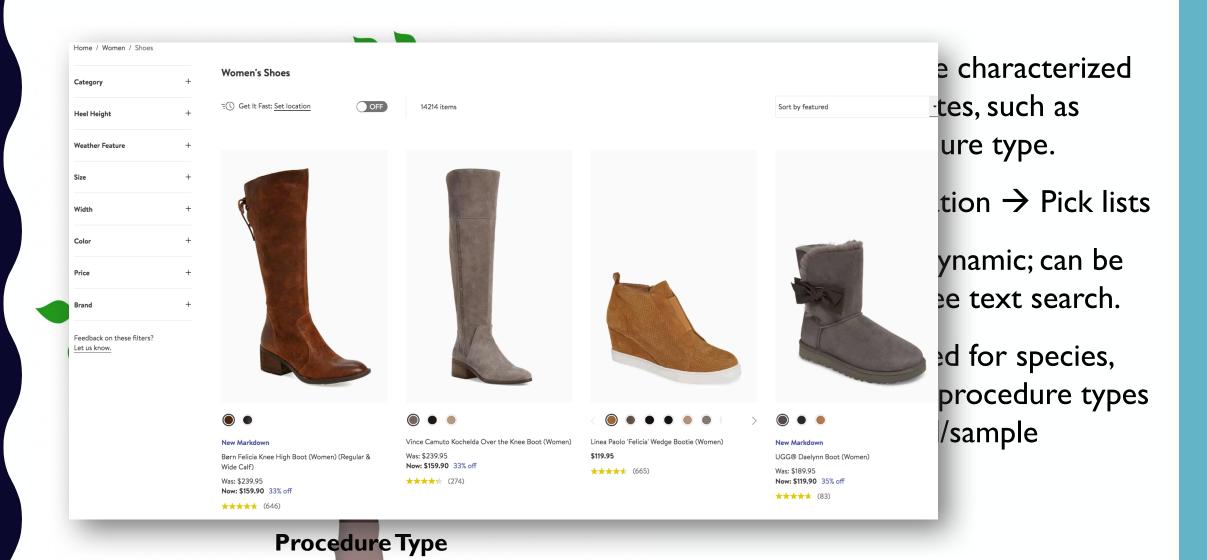


### **1. DATA ORGANIZATION: PICK LISTS**



- Procedures will be characterized by various attributes, such as species or procedure type.
- Granular organization  $\rightarrow$  Pick lists
- Pick lists will be dynamic; can be combined with free text search.
- Pick lists developed for species, substance type, 2 procedure types (euthanasia, blood/sample collection)

#### **1. DATA ORGANIZATION: PICK LISTS**

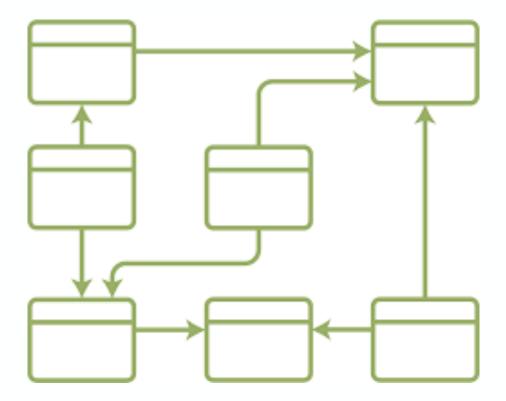


#### **<u>2. PROCEDURE LIFE CYCLE</u>**



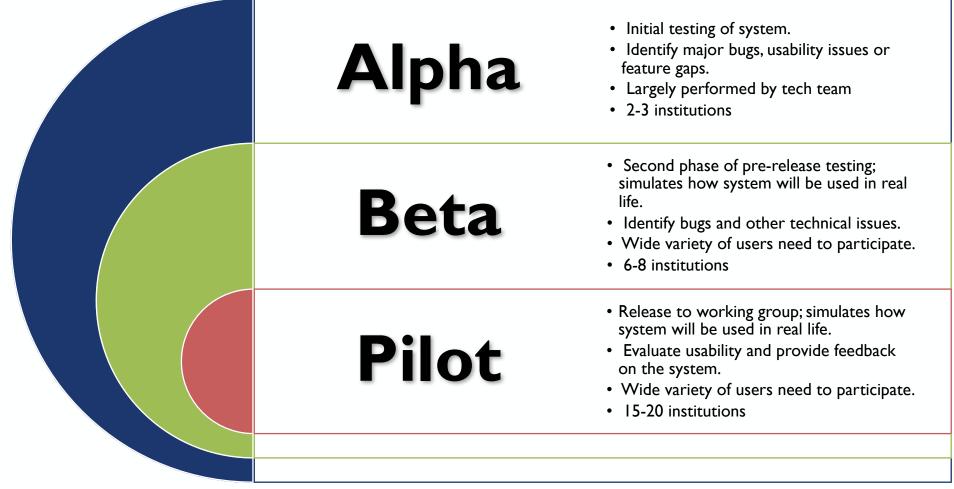
#### **NEXT STEPS: DEVELOPMENT PHASE**

- Currently building a model of the database in Microsoft Access.
- This exercise will help us determine the underlying data architecture and work out the necessary logic needed for search and filter features.
- Code can be easily transferred to the CMS the site will be built on.



#### **NEXT STEPS: DEVELOPMENT PHASE**

<u>Goal</u>: To create a functional procedure sharing database with a user friendly interface.



Timeline: Approximately 2 months/phase

## QUESTIONSP

**Want to help?** Email Aubrey Schoenleben (aubreys@uw.edu) or Sally Thompson-Iritani (sti2@uw.edu)

### 21<sup>st</sup> CENTURY CURES ACT RFI: DRAFT REPORT

**Open for comment Fall 2018!** 

#### **BENEFITS**:

- Reduced administrative burden for researchers, IACUCs and IACUC staff.
- Support development of high quality animal care protocols.
- Provide consistency within and across institutions.
- Support knowledge sharing within the animal welfare compliance community.

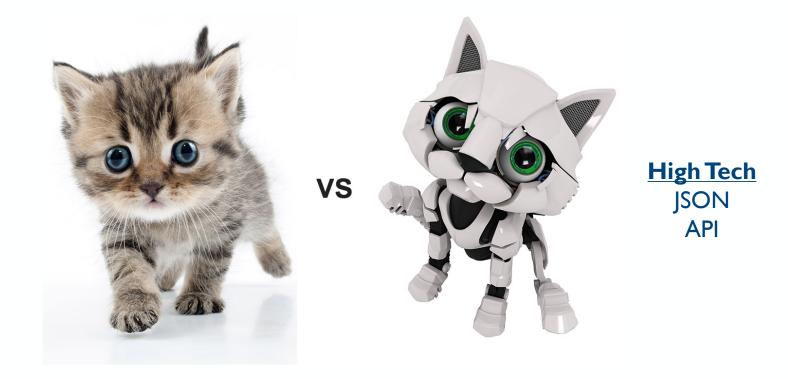


#### **SITE GUIDELINES:**

- Participating institutions have the opportunity and expectation to contribute.
- Each institution is expected to maintain their contributions as updates occur.
- Each procedure must be reviewed and approved by the individual institution's IACUC prior to use.
- The specific content of procedures would not be reviewed, approved, or endorsed by the FDP or regulatory agencies.

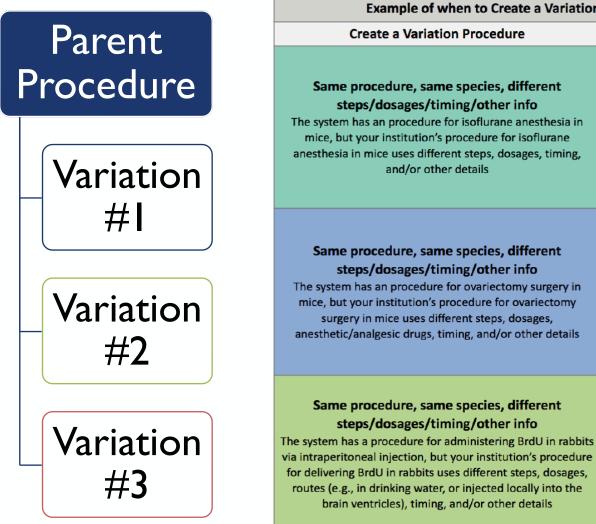


#### **DATA IMPORT & DATA EXPORT**



Low Tech Manual CSV (Excel)

#### **DATA ORGANIZATION: PARENT/CHILD MODEL**



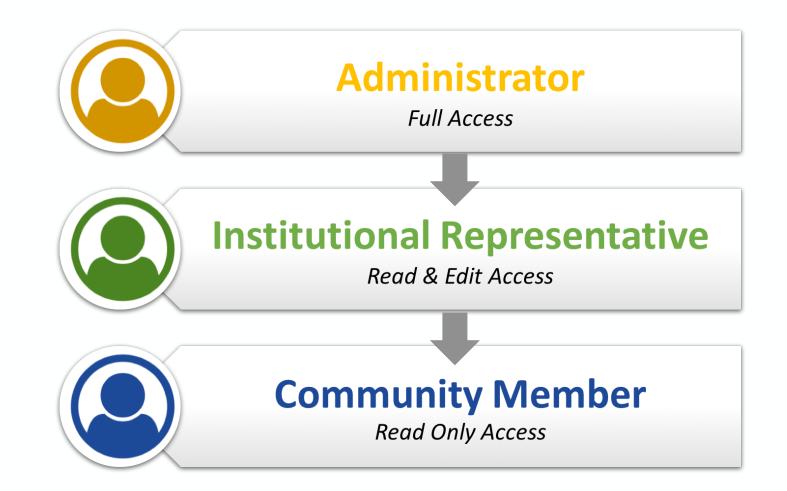
nple of when to Create a Variation (Child) Procedure or a New Procedure						
a Variation Procedure	Create a New Procedure					
lure, same species, different sages/timing/other info procedure for isoflurane anesthesia in stitution's procedure for isoflurane uses different steps, dosages, timing, nd/or other details	Same procedure, different species Your institution has a procedure for isoflurane anesthesia in rats and the system does not already have any procedure for isoflurane anesthesia in rats Same species, different procedure Your institution has a procedure for Ketamine/Xylazine anesthesia in mice and the system does not already have a procedure for Ketamine/Xylazine anesthesia in mice					
lure, same species, different sages/timing/other info procedure for ovariectomy surgery in titution's procedure for ovariectomy ce uses different steps, dosages, ic drugs, timing, and/or other details	Same procedure, different species Your institution has a procedure for ovariectomy surgery in rats and the system does not already have any procedure for isoflurane anesthesia in rats Same species, different procedure Your institution has a procedure for an osmotic pump surgery in mice and the system does not already have any procedure for isoflurane anesthesia in rats					
lure, same species, different sages/timing/other info cedure for administering BrdU in rabbits fection, but your institution's procedure in rabbits uses different steps, dosages, king water, or injected locally into the es), timing, and/or other details	Same procedure, different species Your institution has a procedure for BrdU administration in mice and the system does not already have any procedure for BrdU procedure in mice Same species, different procedure Your institution has a procedure for administering LPS in rabbits and the system does not already have any procedure					

for administering LPS in rabbits

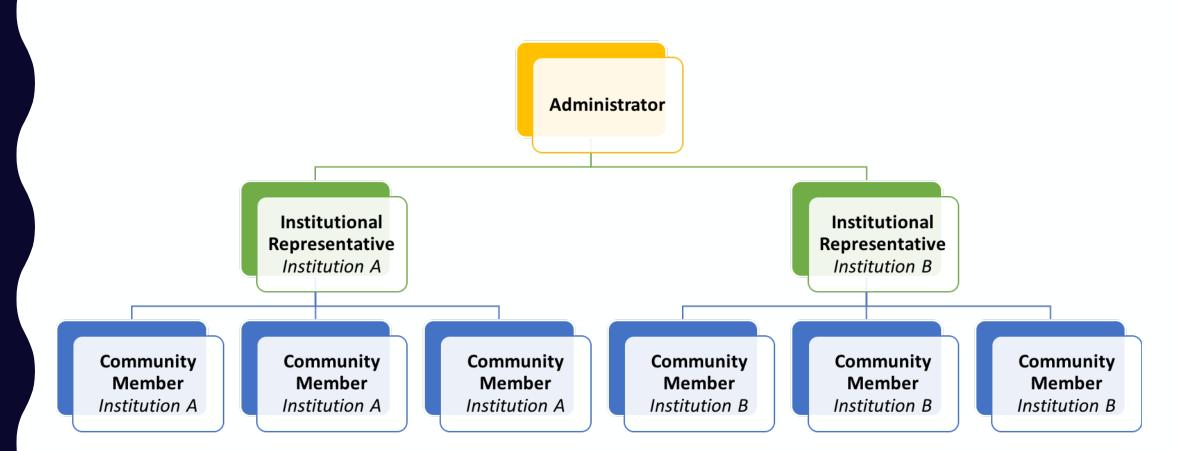
#### **Final Procedure Type Categories**

Antibody Production	Behavioral Testing	Blood or Sample Collection		
Capture and Trapping	Diet Modification	Euthanasia		
Identification and Genotyping	Imaging and Irradiation	Induction of Illness		
Substance Administration	Surgery	Other		

#### **<u>3. SITE ACCESS & USER ROLES</u>**



#### **<u>3. SITE ACCESS & USER ROLES</u>**



		A Web	Page							
Jane Doe Log Out Home My Procedures My Accounts Reports Site Administration Help										
Q search					Download Selected Proc					
Pick List One -	ID Procedure Name Buprenorphine Analgesia 123 14☆☆	Species 🗢 Mouse	Procedure Type Substance Administration	Contrbuting Institution 🔶 University of Washington	Date Submitted 9/16/17	Select ¢				
<ul> <li>✓ Item 2</li> <li>✓ Item 3</li> <li>☐ Item 4</li> <li>☐ Item 5</li> </ul>	+ Intracranial Injection 456 32☆ に	Mouse	Survival Surgery	Emory University	2/7/17	Ø				
	Administration of AAV 789 0 ☆ 🏳	Rat	Substance Administration	Institution Not Identified	4/21/17					
	234 10 ★ 1	Mouse	Euthanasia	University of Washington	9/16/17	R				
	012 <b>CO2 Euthanasia</b> 25 ★ □	Rat	Euthanasia	Michigan State University	8/5/17	V				
	Tricaine Overdose 345 11 ☆ 戸	Zebrafish	Euthanasia	Penn State University	3/22/17	অ				
Pick List Two 🕂										
Pick List Three 🕂										
Pick List Four +						v				
K Page X of Y > 3 ♥ /Page Home About Help										