

## Clean - Drain - Dry - Dispose Waterless Cleaning Systems

#### Invasive Species Prevention Infrastructure: WA State

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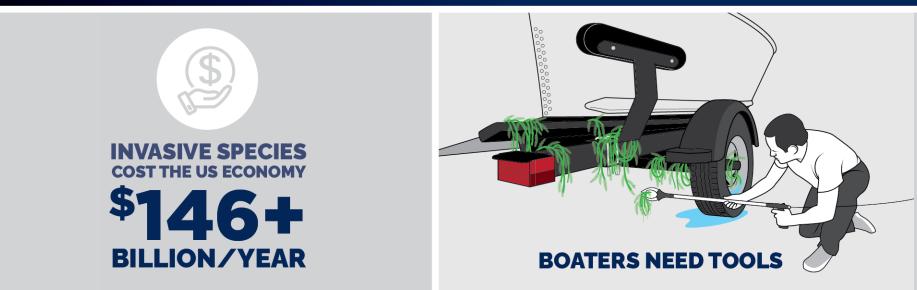
#### **Overview**



- Why we care about AIS
- Boater needs
- Building capacity
- Washington case study
- Containment
- Free CICO
- Conclusion

#### **Invasive Species Problem**

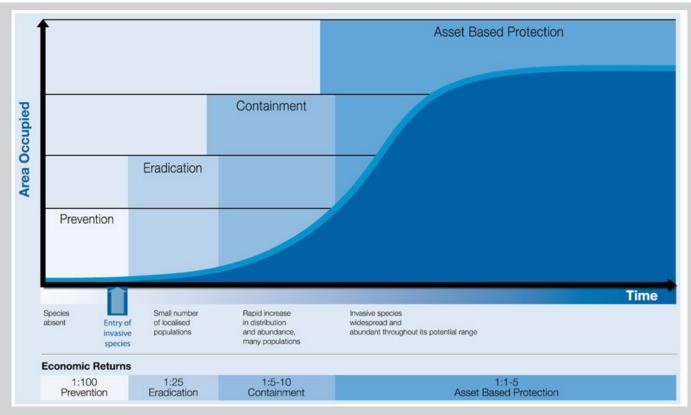






#### **Invasion Curve: Economic Reality**





#### "An ounce of prevention is worth a pound of cure."

#### What the public is doing...

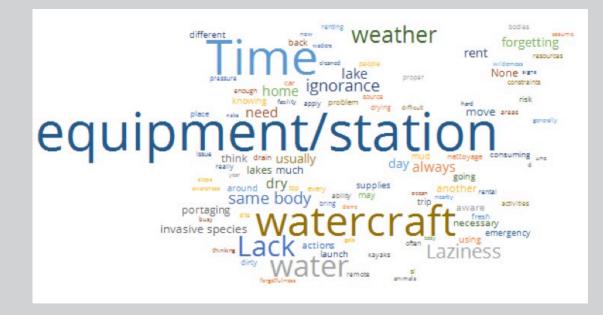




### **FAIL TO TAKE ACTION**

#### What does the public need?





Word Cloud Image Courtesy of Canadian Council on Invasive Species





TOP/BOTTOM LED LIGHTS

#### OFF-GRID SOLAR POWER

EDUCATIONAL KIOSK AND DECALS

> WET/DRY VACUUM

#### **Model Options**





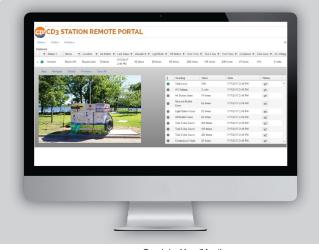
#### **Model Options**

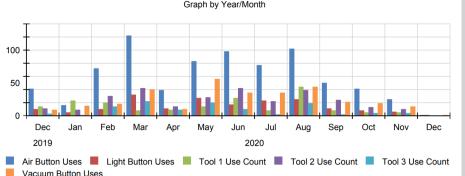




#### **Software & Data Analytics**





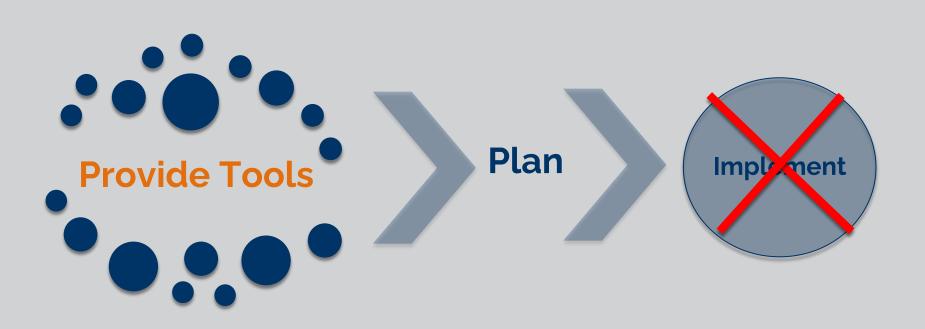


- Tool time stamps
- Custom reports
- Cleaning sessions
- Inform strategies

• Show ROI for grants

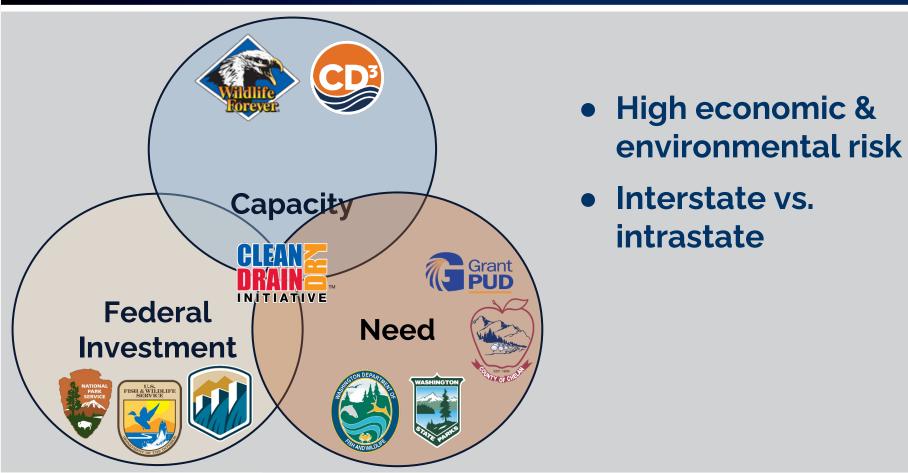
#### Lack of Capacity





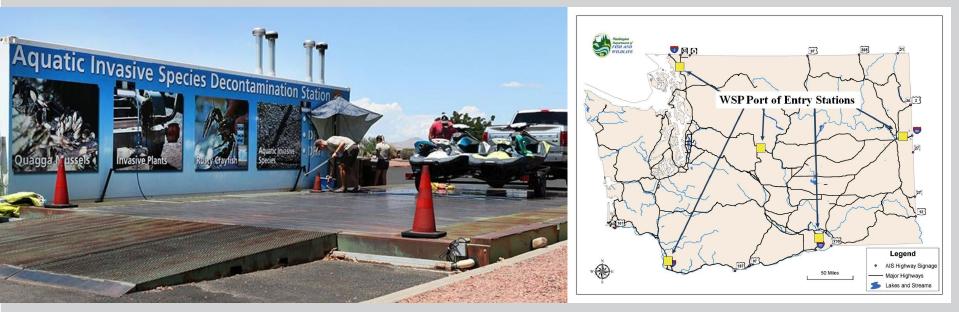
#### **Columbia River Basin Collaboration**





#### Interstate Highway Crossings

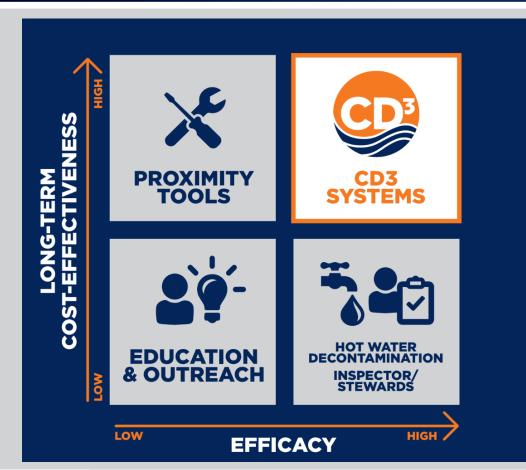




Credit: wildlife.utah.gov

#### **AIS Treatment Hierarchy**





1. Tell 'Em What You're Going To Tell 'Em

- 2. Next, Tell 'Em
- 3. Next, Tell 'Em What You Told 'Em
- 4. Give 'em space

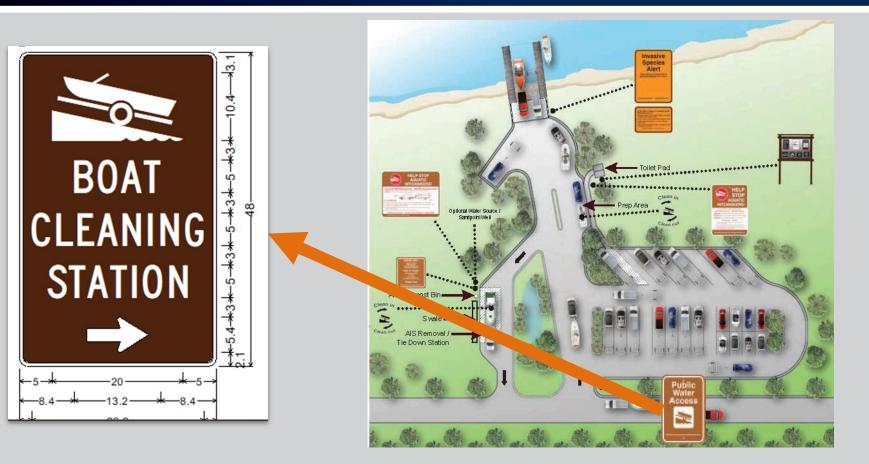
# SOBA Standards





#### WSDOT Highway Sign





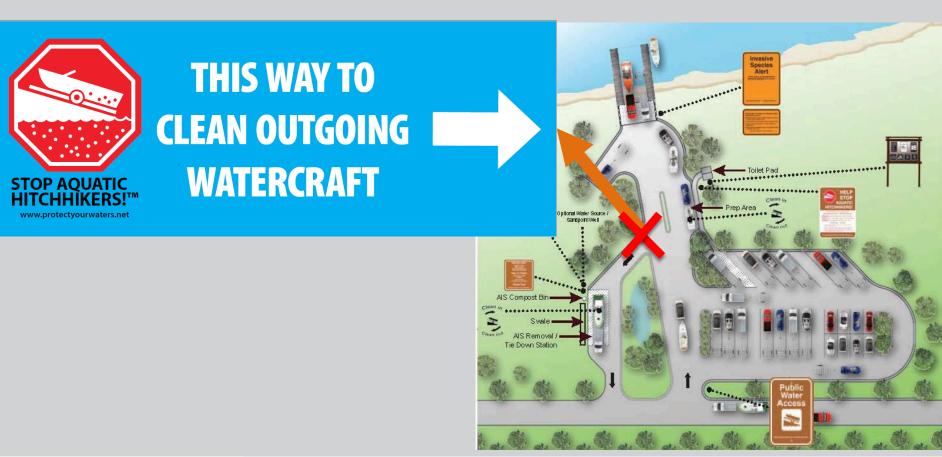
#### **Message to Incoming Traffic**





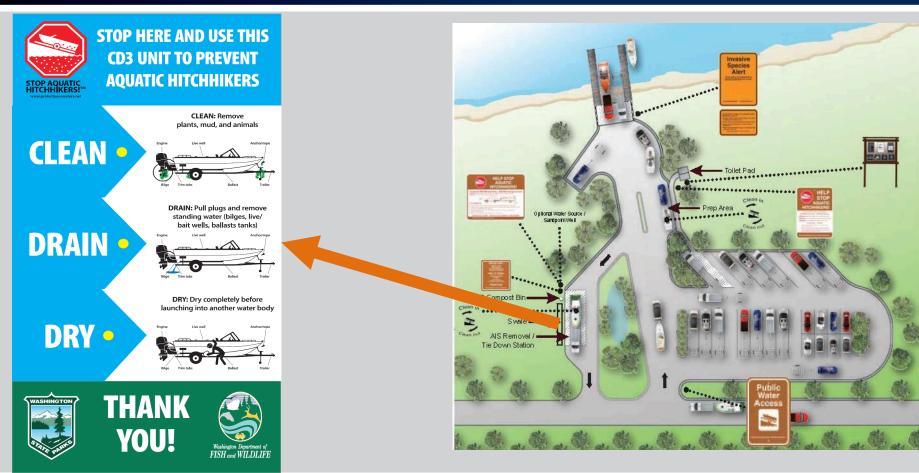
#### Message to Outgoing Traffic





#### **Message at Cleaning Site**





#### **Public Infrastructure & Education**









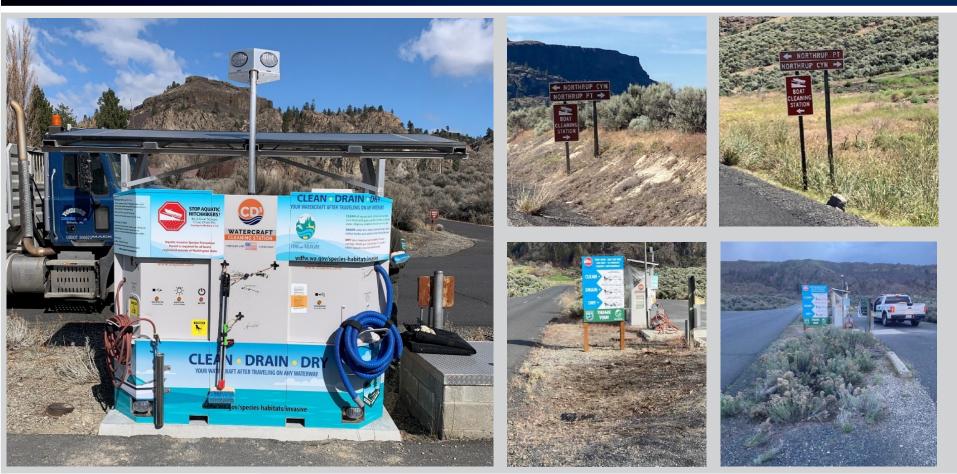






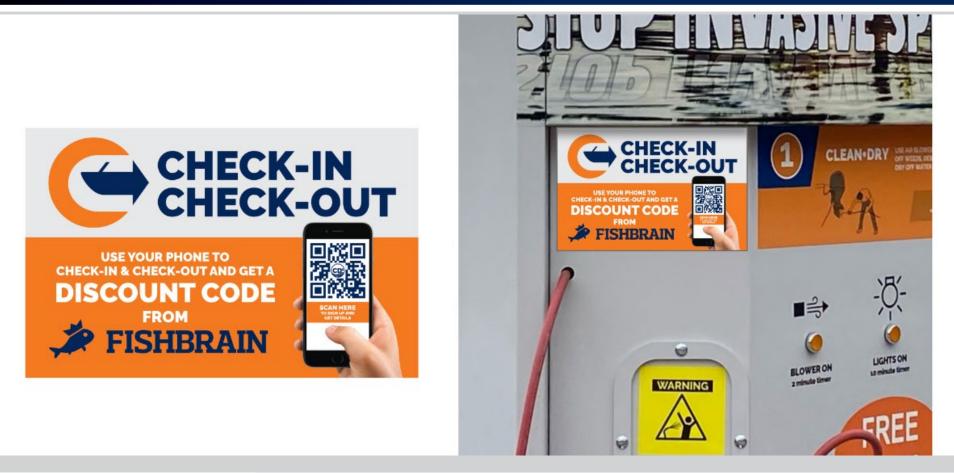
#### **Signage and Units**





#### **QR Code Connection to CICO**







Clean off trailer

Suck out all water in boat



Check for zebra mussels

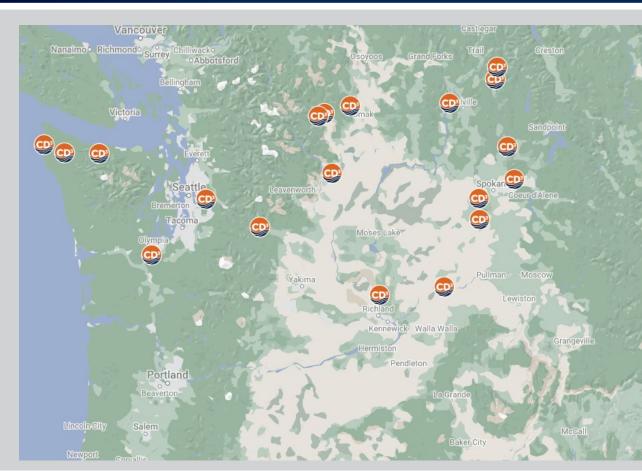






#### Results

- 55 accesses reviewed
- 20 site improvements
- 18 installations
- \$400k+ federal funding
- 10k+ preventative actions taken





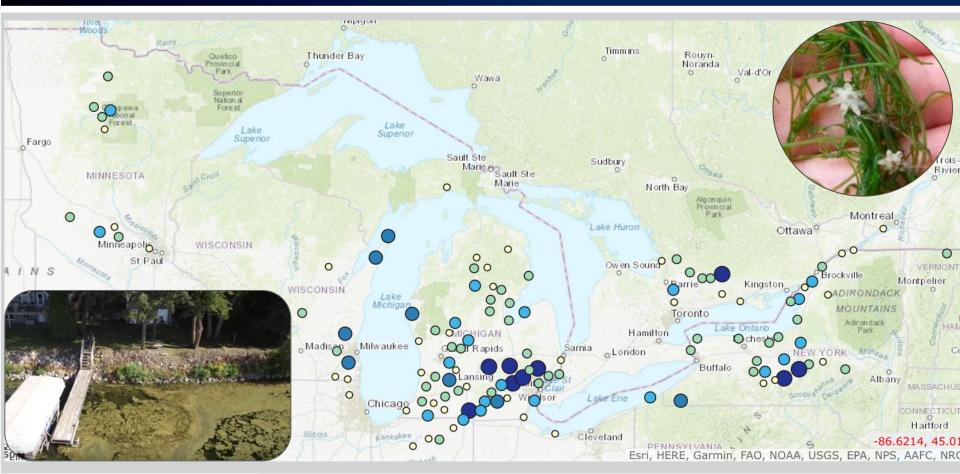


# Case Study: CD3 for Containment

Stopping Starry Stonewort

#### **Starry Stonewort = Super Spreader**





#### **Ecological & Economical Tragedy**

- MN boating = \$5.5B/year
- 28k jobs
- Lake Koronis: \$170k/year
- Future of lake ecology



### **Developing a Complex Partnership**





#### 14 lakes - 28 boat ramps

- 1 state DNR
- 2 federal agencies
- 2 tribes

- 7 counties
- 12 municipal & townships
- 14 lake associations

#### **Equipment use adoption**

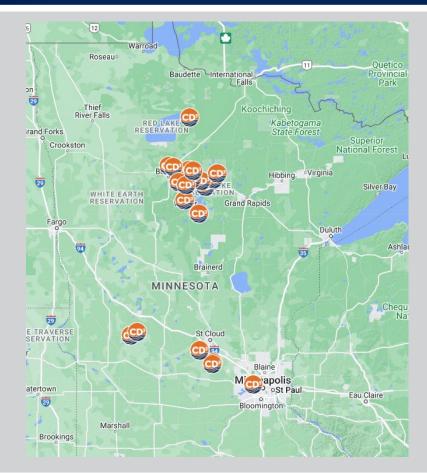


Air/Blower Uses 7,818 Vacuum Uses 4,181 Plug Wrench Uses **Reach Grabber Uses** Light Uses 1,878 **Brush Uses** 

3,152 3,055

868

22'-23' Total Tools: 20,931



#### **Free CICO**



- Ask for jpeg
- Design a sign
- Buy a sign
- Get decals







### Signage Options





#### HELP STOP INVASIVE SPECIES Do a quick Clean Drain Dry

check every time



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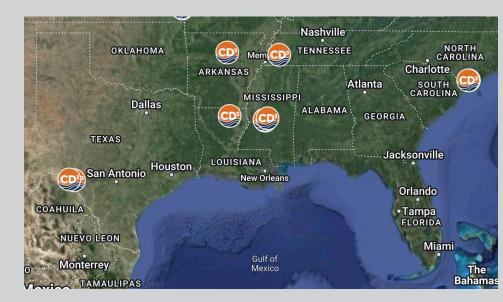


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#### **Gulf States Adoption**

- Black Bayou: USFWS
- North Carolina: NC Parks & Rec
- Pearl River (2 units)
- Amistad
- Guntersville Lake (TVA- not pictured)





## **Funding Opportunities**



- USFWS Rapid Response Fund
- Boating Access grant funds
- State AIS Management Plans
- WRDA- USACE

#### Conclusion



- AIS prevention is key
- Top reason boaters don't act- lack of tools
- Building partnerships builds capacity
- Integrate SOBA standards
- Prioritize
- Execute & educate

#### **Questions?**





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