

Audience: *It takes everyone to conserve natural resources and curriculum must reach everyone!**

Our approach begins a process of connecting scientists with youth who can find fun in learning about conservation practices and methods that are underway in their communities.

These engagements will focus on four **target audiences** to refine Kids In Action ongoing programs and newly developing projects for a broader audience in other regions and their connections with Federal, State, Tribal, and local scientists:



Going Wild With Science Core Values to reach everyone

1) teachers and students to meet state core requirements in science

- Objectives: 1) create an informed public; 2) add Agriculture to STEM = STEAM; and, 3) strengthen partnerships
- State science curriculum standards are best understood when they are taught in authentic contexts in partnership with real scientists
 - Integration with state science curriculum standards is essential for buy-in from local schools

2) community planners and youth organizations where kids can find fun learning what local scientists are doing

- Objectives: 1) advance STEAM curriculum to address invasive species; 2) generate a mechanism for adapting curriculum to specific audiences and ecosystems in other regions; and, 3) build sustainable partnerships
- Conservation education for K-12 and local communities (plant and insect identification, life cycles and stages, classical biological control of invasive plants, food cycles, agriculture—adapted to meet state science standards)
 - Curriculum for diverse habitat types: high mountain desert, wetlands, other local and regional habitats

3) advancing science of conservation education where teachers, students, and families can experience nature engaged in the work of Federal, State, local and Tribal scientists in local communities

- Objectives: 1) strengthen partnerships with Federal/State/Tribal and local scientists; 2) advance training events to include new partners and communities in other regions; and, 3) generate broadly based and informed publics about problems of invasive species using experiential learning to problem solve in classroom and field activities
- Conservation education curriculum and training guides for researchers, event planners, and scientist participants
 - Formal training events with our Partners (e.g., Eccles Wildlife Education Center at Farmington Bay (Utah Natural Resources Division of Wildlife Resources); Edith Bowen Laboratory School (Utah State University Emma Eccles Jones College of Education and Human Services at Hardware Ranch Wildlife Management Area; Jack Creek Preserve Foundation (Montana); Indreland Audubon Wetland Preserve (Montana); Avery Cooney Elementary School and Gwendolyn Brook College Prep (Illinois); IPM Institute of North America and Escuela Verde School (Wisconsin).

4) advancing interpretive connections with nature through development and design of investigative curriculum

- Objectives: 1) advance innovation; 2) make mathematics a magnet; 3) encourage transdisciplinary learning; 4) report participation rates of underrepresented groups; and 5) share promising practices across agencies
- Fun nature investigations where disciplines converge and students can explore nature through interpretive arts: visual, tactile, sound, motion, smell.
 - Public events where participants engage in fun activities and events in their communities

** Core Values are responsive to lessons learned engaging regional efforts in support of local and regional priorities by Chesapeake Bay Foundation, Logan City School Mt. Logan Discovery Program, Edith Bowen Laboratory School, IPM Institute of North America, National Invasive Species Management Association, Montana Noxious Weed Trust, North Central IPM Regional Center, USDA Forest Service Forest Health Protection National Invasive Plant and Biological Control Program (WO), Great Lakes Protection Fund, National Association of Interpretation, and Charting a Course for Success: America's Strategy for Stem Education. A report by the Committee on Stem Education of the National Science & Technology Council (2018).*