

RECLAMATION

Managing Water in the West

Offering Prizes to Solve Tough Problems



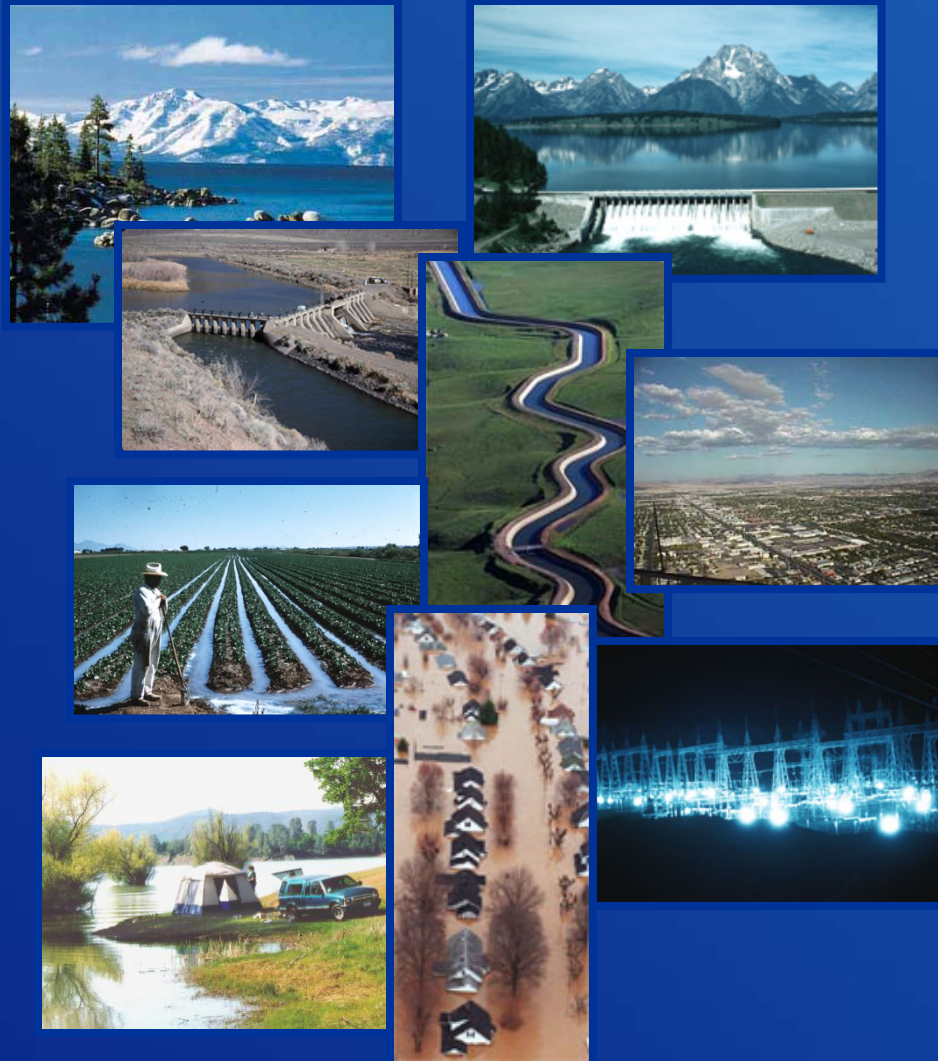
U.S. Department of the Interior
Bureau of Reclamation

Reclamation Mission Statement

The mission of the Bureau of Reclamation is to manage, develop, and protect water and related resources in an environmentally and economically sound manner in the interest of the American public.



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348 Reservoirs

245 Million acre-feet of water storage

254 Diversion dams

16,000 Miles of canals

\$9 Billion annual agricultural benefits

M&I benefits to more than 31 million people

58 Hydropower facilities powering over 6 million homes

308 public recreation areas visited by more than 90 million people each year

More than \$12 billion avoided flood damages since 1959

By its mere presence and ownership of facilities, Reclamation directly influences water use and supply patterns in most major western river basins

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Prize Competitions are a Tool That Enables Joy's Law

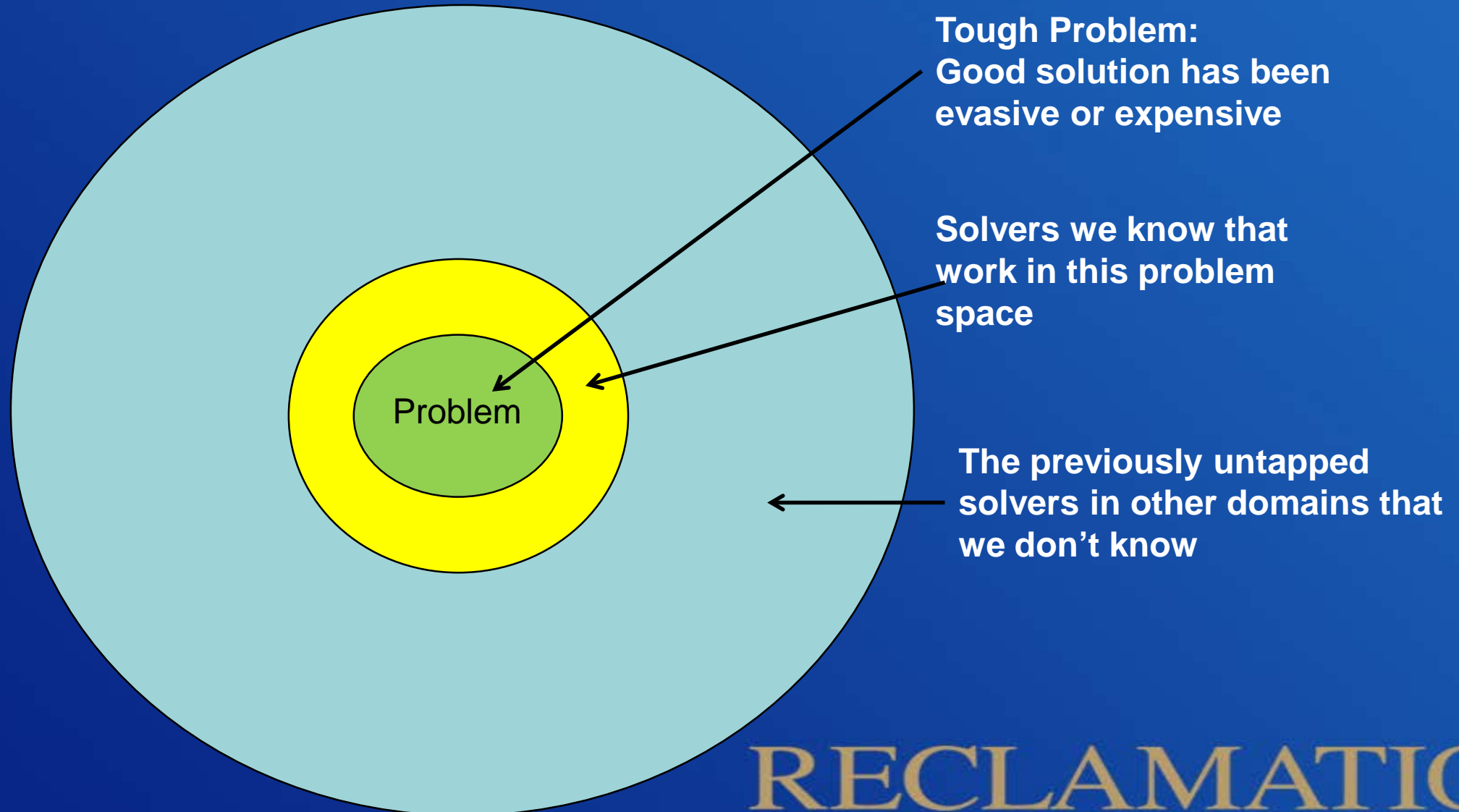
Joy's Law:

“No Matter who you are, most of the smartest people work for someone else”

“It is better to create an ecosystem that gets all the world's smartest people toiling in your garden for your goals”

Bill Joy, Sun Microsystems co-founder

Prize Competition Objective and Target Audience



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WATER

PRIZE COMPETITION CENTER

Authorized by the America COMPETES Act of 2010 (15 USC 3719), as amended

Water Availability



Environmental Compliance



Infrastructure Sustainability



We have obtained many novel ideas and concepts from people that we would never had been able to access without prize competitions and the world connected through the internet.

Learn more and view past, current, and upcoming competitions:

www.usbr.gov/research/challenges

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Collaboration is vital.....

Collaboration among those passionate about solving water problems leverages capabilities, creates broader impact, and catalyzes success.

We started by fostering collaborations with other federal agencies for specific competitions and theme areas

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Our Federal Collaborators:



Now seeking non-federal collaborators and additional federal collaborators

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What's Next Going Forward ?

Continue to recruit partners from public, industry, venture capital, and non-profit organizations for specific prize competitions

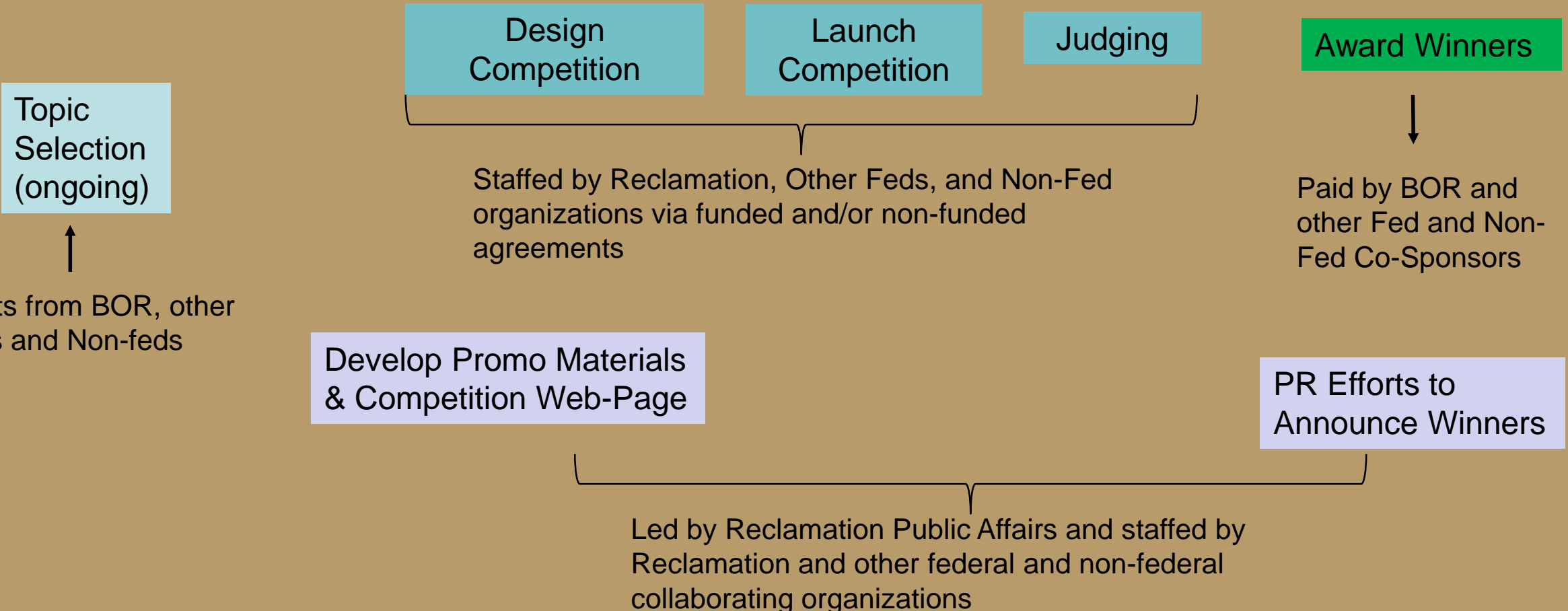
What Can Partners Offer?

- Suggest Problems to Solve
- Prize Purse Money
- Non-Cash Awards and Opportunities
- Technical Experts to Design Competitions
- Judges
- Testing Facilities
- Promoting the Competition to Public and Solver Communities
- Technology Commercialization Sharks
- Help Administer Prize Competitions
- Recruit Other Partners

You Tube Video: How to use Cooperative Research and Development Agreement Authority to Form More Powerful Prize Competition Partnerships

<https://www.youtube.com/watch?v=TSYodkGRJyo&list=PLd9b-GuOJ3nFeJeAHAn3Z5opohjxlw8OC&index=3>

Prize Competitions – General Process



Accelerate the Idea-to-Market Process with Staged Competitions

Stage Gates

Winners

Cash Prize Purse

Non-Cash Prize

Stage 1 - Conceptual
Paper Submissions



Stage 2 - Lab Scale
Prototype Testing Submissions



Stage 3 - Field Scale
Large, Head-to-Head Competition

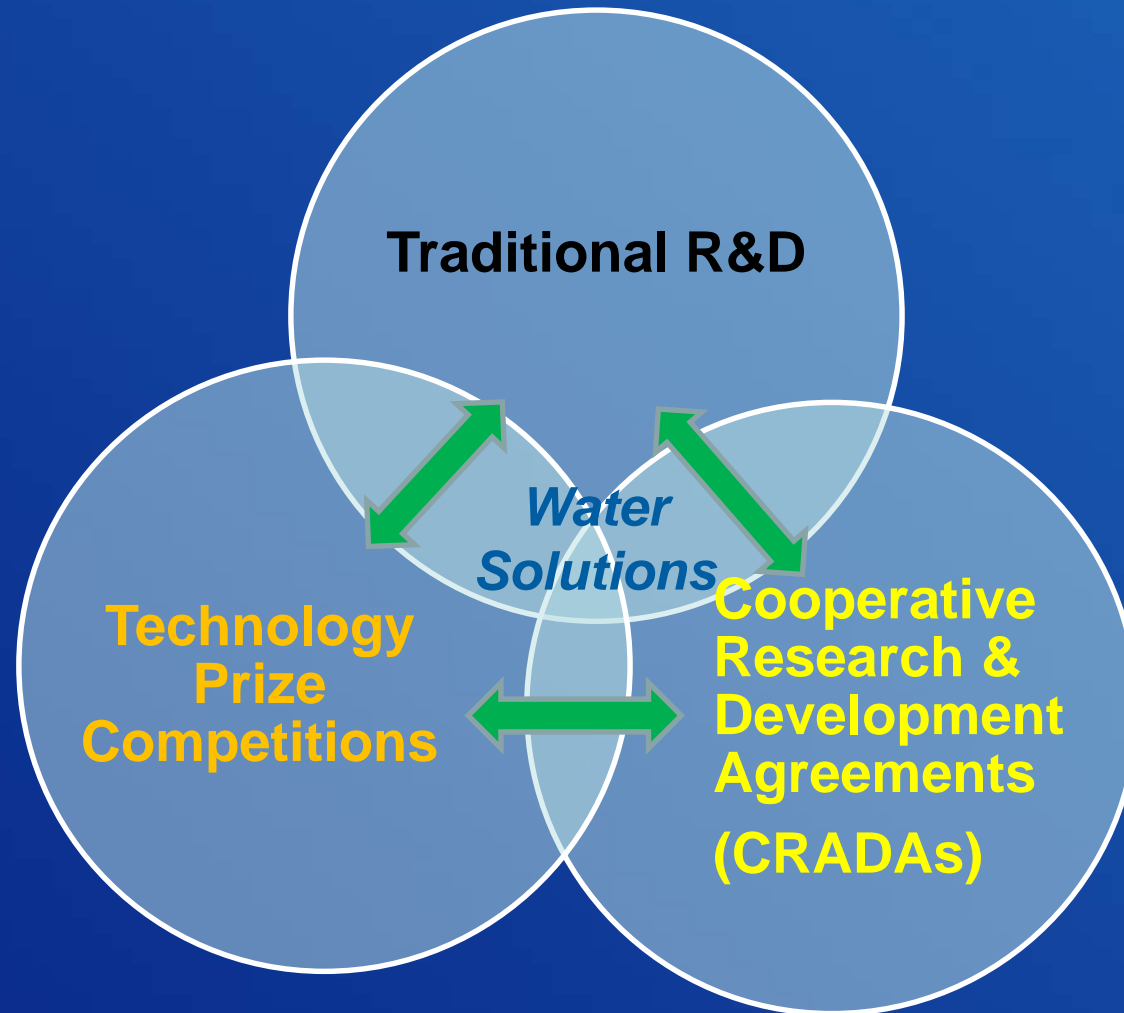


Recruit Industry and
Venture Capital
Technology Scouts to
be Present at
Competition and
Willing to Broker
Commercialization
Business Deals with
Solvers

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Integration of Science and Technology Program Elements

Do more by using multiple tools that work together



Typical Niche:

- Market forces may not provide sufficient incentives to solve...or solve well.
- Tough, stubborn problems or pieces of problems
- “Unstick” stuck R&D
- Augment a literature search

Typical Niche:

- Collaborative R&D with industry and other non-feds
- Solutions best delivered as a manufactured product
- Solutions that will have market value or a need to protect IP
- Need to legally document limits of liability, responsibility, and authority for actions