

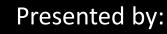
Eradication 101







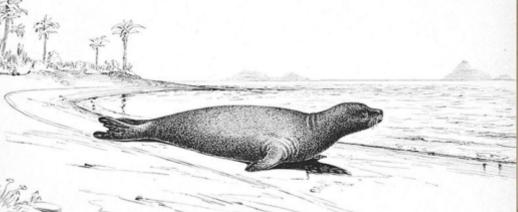




John Knapp

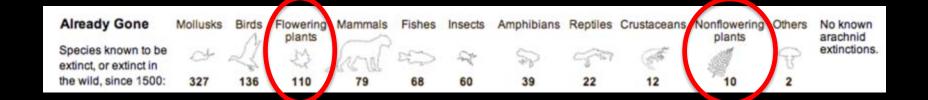
California Islands Ecologist
The Nature Conservancy

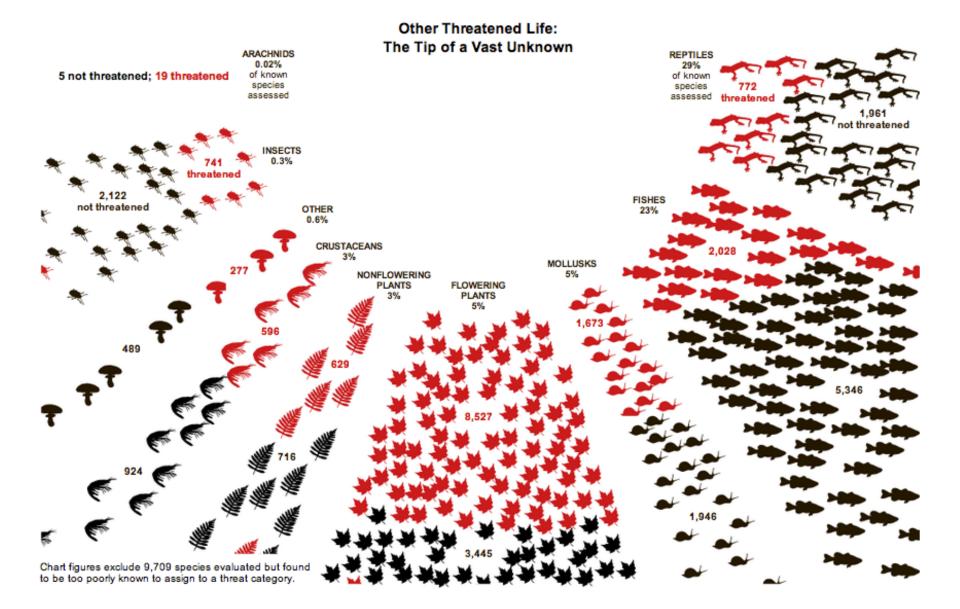






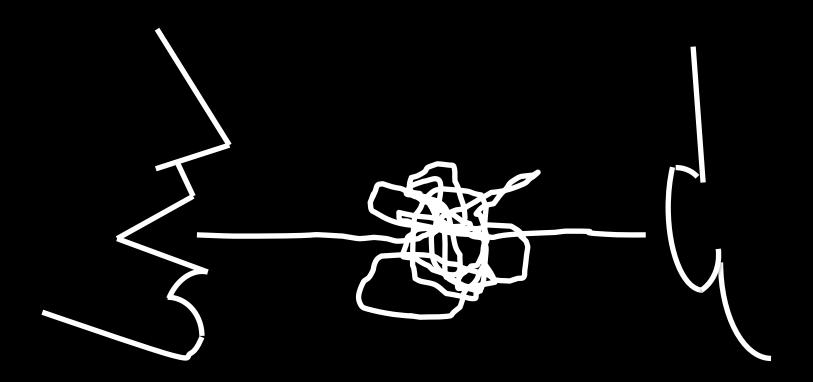
Eradication is in your blood

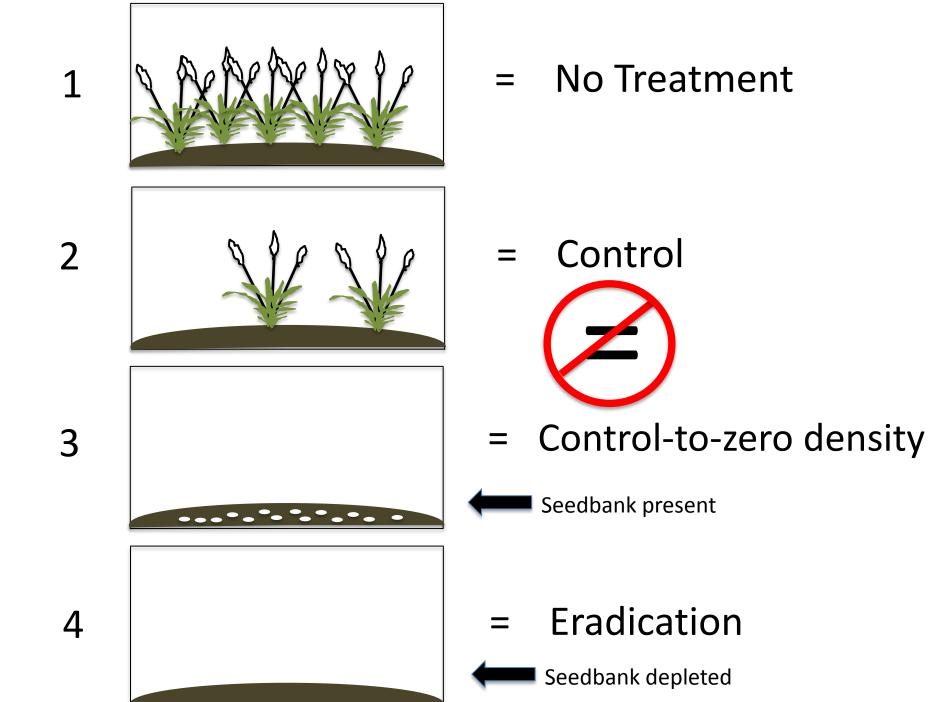




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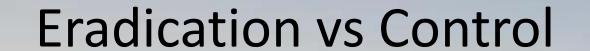
Nomenclature



















Control **Eradication** Target eliminated **Finite** Un-gome Less herbicide used More herbicide used Ecosystem impacts eliminated Ecosystem impacts on-going Treatment impacts finite Treatment impacts on-going

Eradication

- Target eliminated
- Finite
- Less herbicide used
- Ecosystem impacts eliminated
- Treatment impacts finite
- High initial costs

Control

- Target reduced
 - Un-going
- More herbicide used
- Ecosystem impacts on-going
- Treatment impacts on-going
- High long-term costs

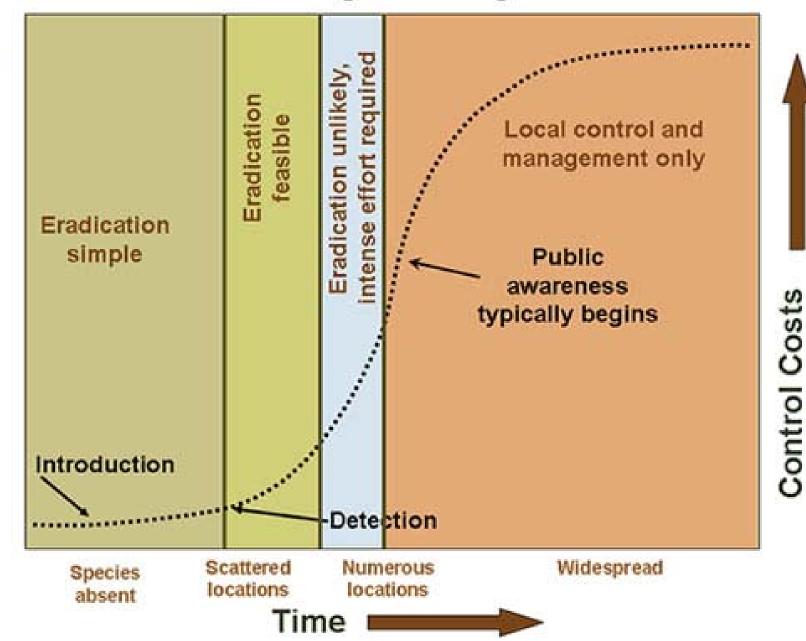
Eradication

- Target eliminated
- Finite
- Less herbicide used
- Ecosystem impacts eliminated
- Treatment impacts finite
- High initial costs
- Complex

Control

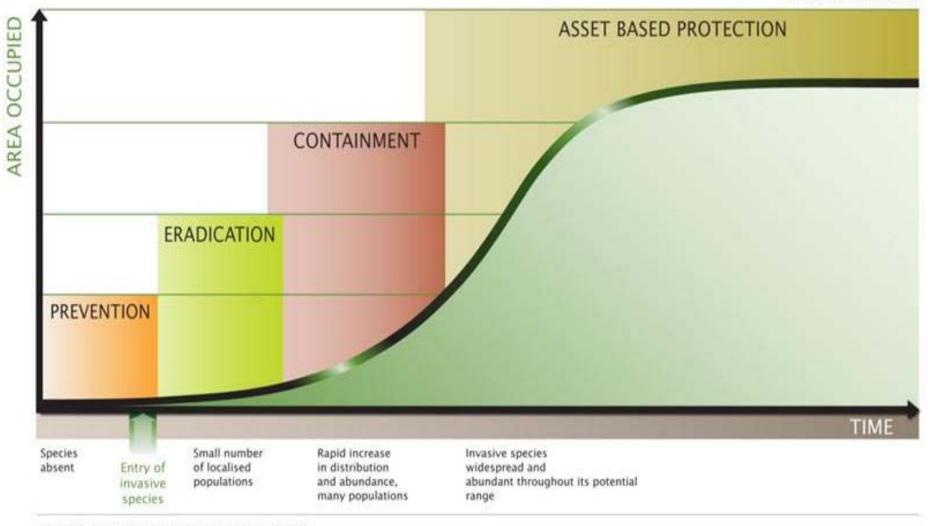
- Target reduced
 - Un-gome
- More herbicide used
- Ecosystem impacts on-going
- Treatment impacts on-going
- High long-term costs
- Simple

Invasion Stages Through Time



Degree of Infestation

Control Costs



ECONOMIC RETURNS (INDICATIVE ONLY)

Eradication Criteria

1) Detect all targets











2)Remove all targets



Last victim with small pox on Earth



WHY DOES POLIO ERADICATION MATTER?

REDUCED BY

99%

Polio has been reduced by 99% and we are closer than ever to ending it.



No child anywhere in the world will have to suffer from this crippling disease.



Reaching all children with the polio vaccine leads the way to reaching them with other life-saving resources.

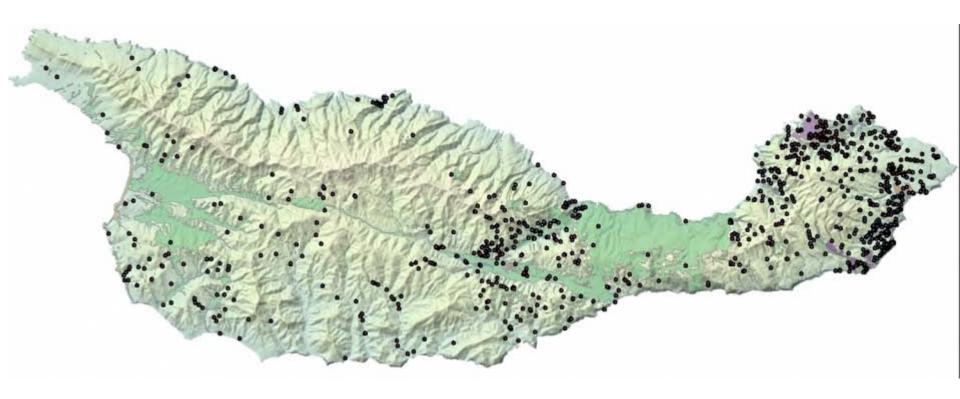


Until polio is stopped, children everywhere are at risk.



Achieving a polio-free world will prove what's possible when the global community comes together to improve children's lives.





3)Outpace reproduction of targets

STAR TREK

THE TROUBLE WITH TRIBBLES

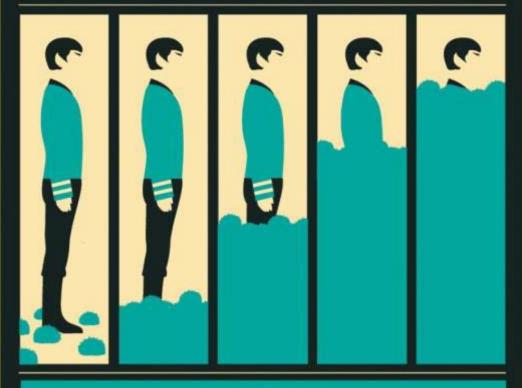
CAPTAIN JAMES T. KIRK

MR. SPOCK

DR. LEONARD MICCOY

WILLIAM SHATNER LEONARD NIMOY Deforest kelley









WILLIAM SHATNER LEONARD NIMDY DEFOREST KELLEY LAMES DOORAN NICHELE NICHOLS WALTER KOENIS
STANLEY ADAMS WILLIAM SCHALLERT WILLIAM CAMPBELL JOSEPH PEYNEY DAVID GERROLD
STANLEY ADAMS LEONARD NIMDY BERNEL BOOK DEFOREST KELLEY





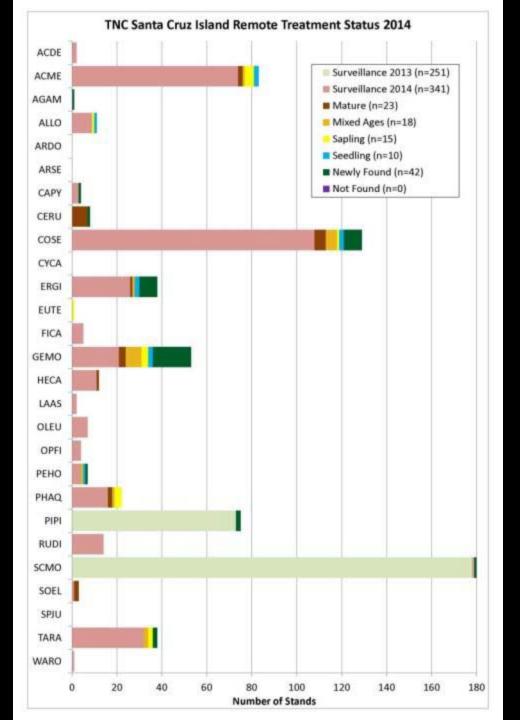


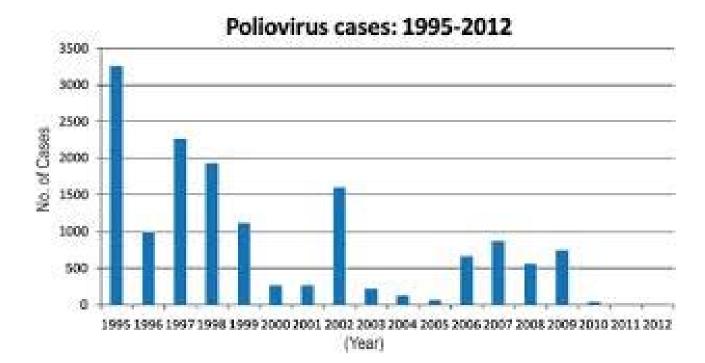


4) Commit to completion



of invasive plants removed/miles of creek cleared of IP says nothing about your work





Global Polio, by Agency, FY 2009-FY 2016







How do you know when you are done?

X years after zero density is achieved

Soil seed-bank viability



Talk the talk

- Talk the talk
- Eradication is possible

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- Assess and prioritize threats

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- Talk the talk
- Eradication is possible
- Assess and prioritize threats
- Design program to meet eradication criteria
- Flexibility in all programmatic aspects is key

