

#### Managing the Maritime Known Unknown

Technology as Game Changer

Johan Bergenas Senior Director, Public Policy Vulcan, Inc. March 20, 2018



#### Paul G. Allen

Microsoft cofounder

Entrepreneur

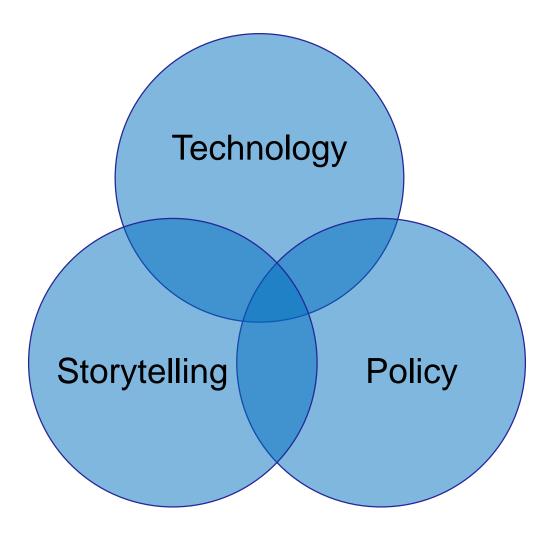
Philanthropist





### Vulcan Inc.







## Our oceans are gold mines

- 50% Oxygen
- 80% Life
- 20% animal protein
- \$2.5 trillion/year

## Consequences of maritime wealth blindness

Lack of protection

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Loss of ocean and national wealth





### For the public and the private sector



- Supply chain security
- Right fish?
- Free of crime?



### **Maritime blindness**

- Over 50% of EEZs developing countries
- 18% small island developing states
- "Paper parks"
- Need more monitoring, enforcement





### The real experts take advantage

- "Aquatic cocaine"
- DWF Fleets

ToC





#### Known unknowns

 How large is maritime crime?

\$206–504 million in WIO

 "There are no dark targets here."



Cameroonian boarding team conducts training



### What role can technology play?





#### The Good News

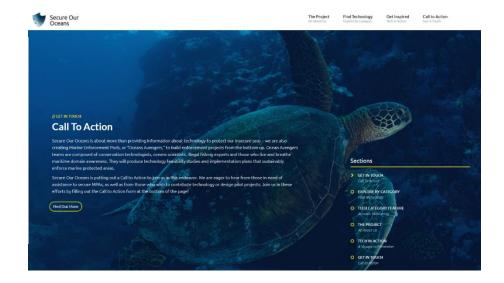
#### Monitoring and Surveillance Technologies for Fisheries

Drafted for Waitt Institute

By Shah Selbe, Conservation Technologist



November 2014





## Leveraging Technology: Do's and Don't's

7 tips to be:

- Impactful
- Cost-effective

Sustainable



# 1. Avoid Tech Dumps and Dig Where You Stand

Assess enforcement capabilities

Prosecution?



A public, private and NGO responsibility



#### 2. Don't Go It Alone

Regional partnerships

Provide regional support





#### 3. Private Sector Nimbleness

Don't just retrofit defense technology

Public sector needs to make it easier to adopt

new technologies





### 4. Private-Private Partnerships

No one technology

Integrate technological solutions





# 5. Information and Machine Learning is the Future

Acquire actionable information

Analysts are expensive





## 6. Strategic Patience and Joint Investments

Near term limited financial reward

With longer term financial ROI

Bridge funding gaps



Finance technology with gains made



#### 7. Return on Investment

A new type of enterprise/model will take on rising issues





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