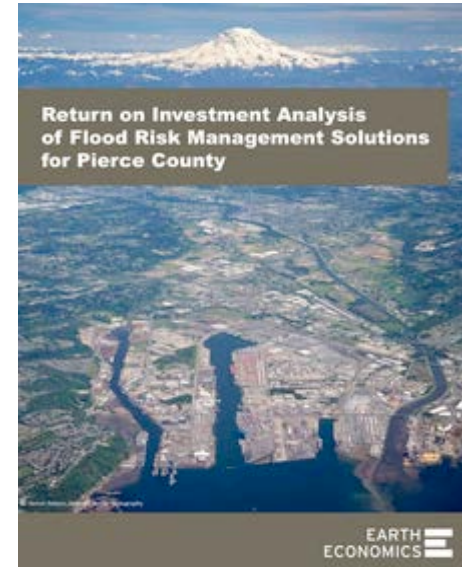
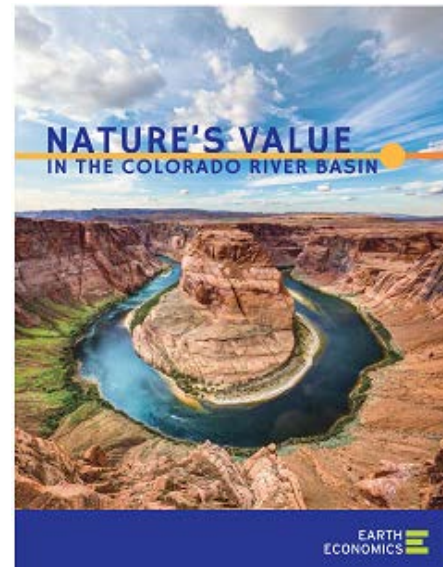
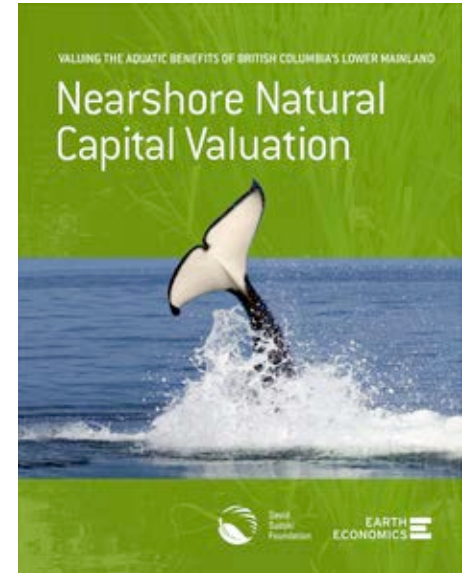
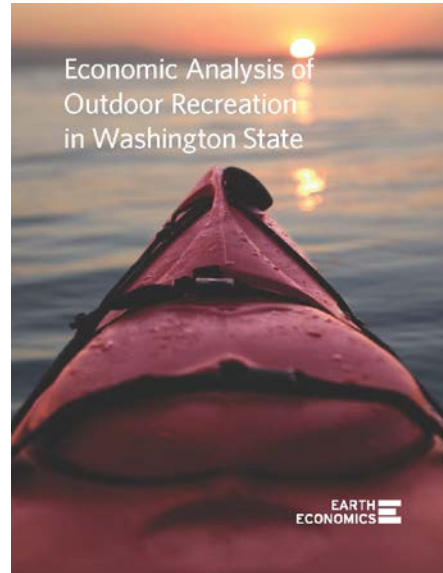


The Return on Investment of Mat-Su's Open Space

Maya Kocian
Earth Economics



About Us

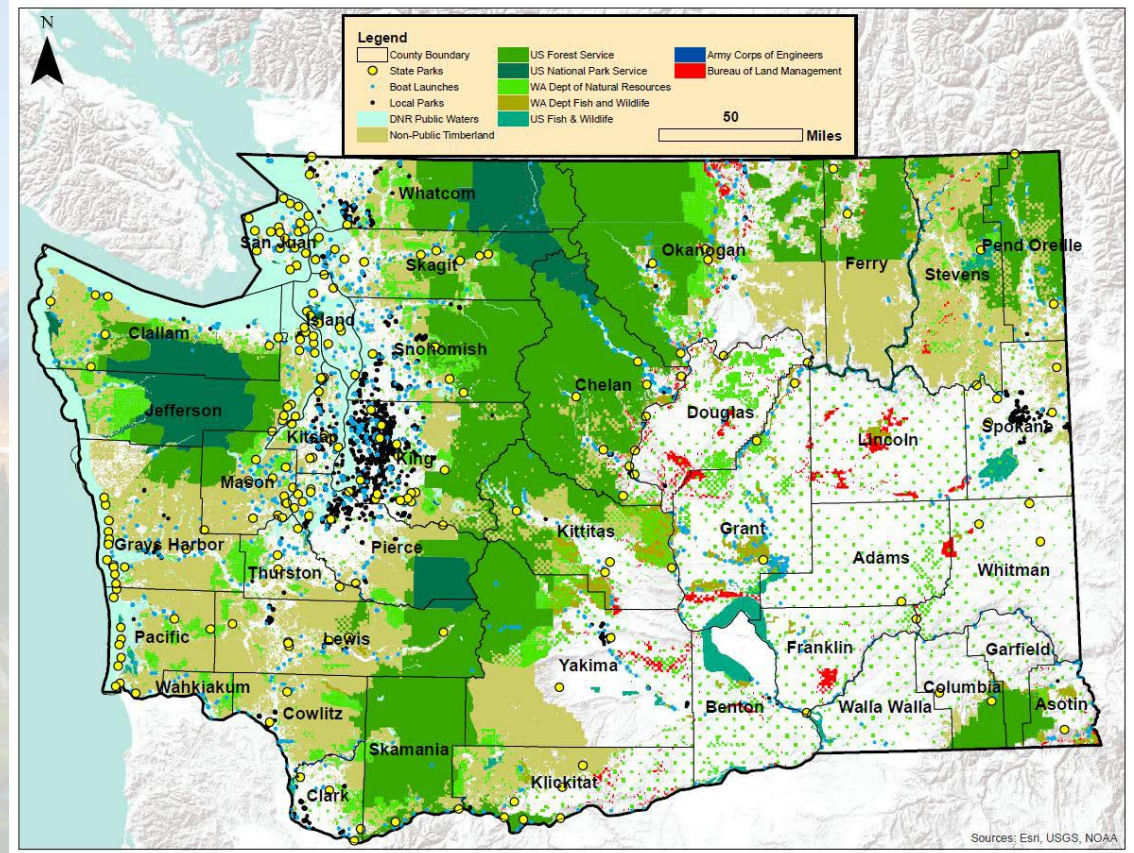


Washington State Snapshot

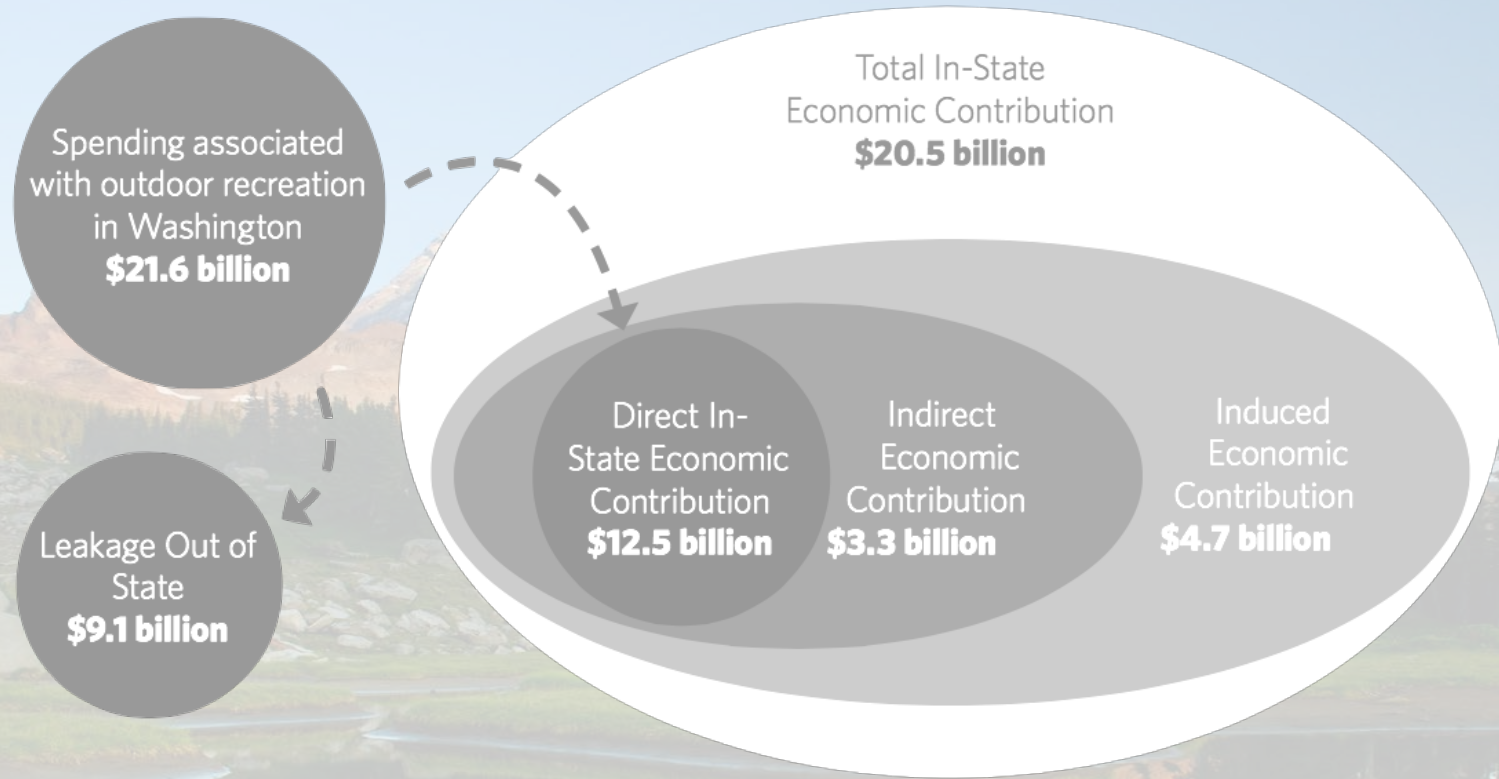
- 446 million days of outdoor recreation each year
- \$21.6 billion in expenditures
- \$20.5 billion in economic contributions
- 200,000 jobs
- 23 million acres of public land

Calculating a Visitor Day

- 5 Land cover categories
 - Federal
 - State
 - Local
 - Public Waters
 - Private
- 4 Participant Types
 - Day Local
 - Overnight Local
 - Day Non-local
 - Overnight Non-local

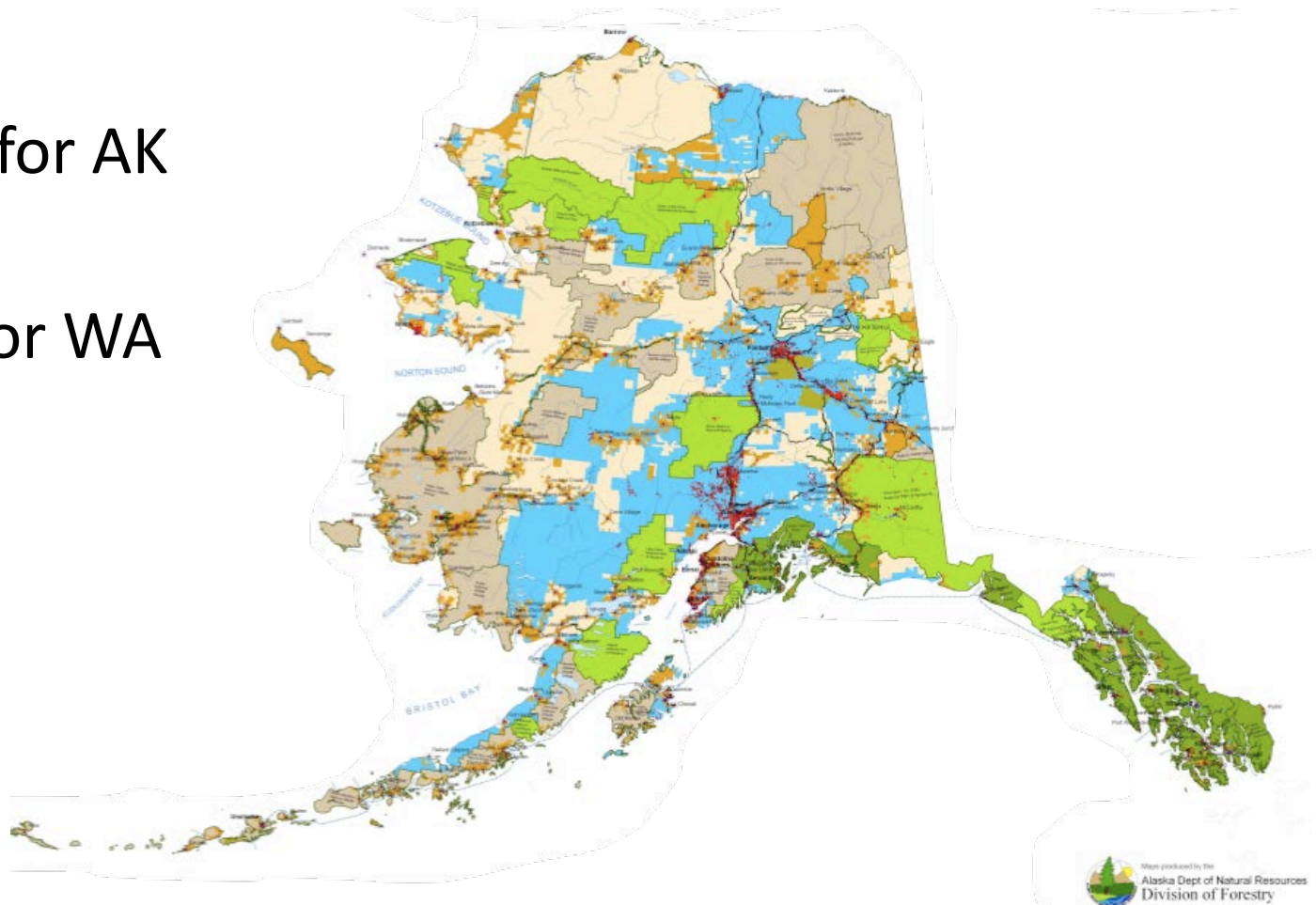


Contributions and Impacts



What about Alaska

168 million for AK
vs.
23 million for WA



Net biocapacity by state

With an abundance of resources, lower Ecological Footprints, and/or smaller populations, only 16 states are currently living within the means of their natural resources.

Each state's Ecological Footprint was calculated by adjusting the national average Ecological Footprint by the state's relative consumption level. State biocapacity was estimated by allocating the U.S. biocapacity proportional to each state's relative land productivity.

Each state is unique, and states can easily trade

resources with each other. But there can be economic impacts associated with such trade, such as food price increases. Consequently, states that manage their resources carefully may be better positioned for a future in which natural capital becomes increasingly scarce and more valuable. States (as well as cities and regions)

have substantial autonomy to set policy within their borders to manage their resources and influence their population's Ecological Footprint. Examples include establishing renewable energy goals, offering tax incentives to consumers, adopting policies to protect public land, and investing in public transportation systems.

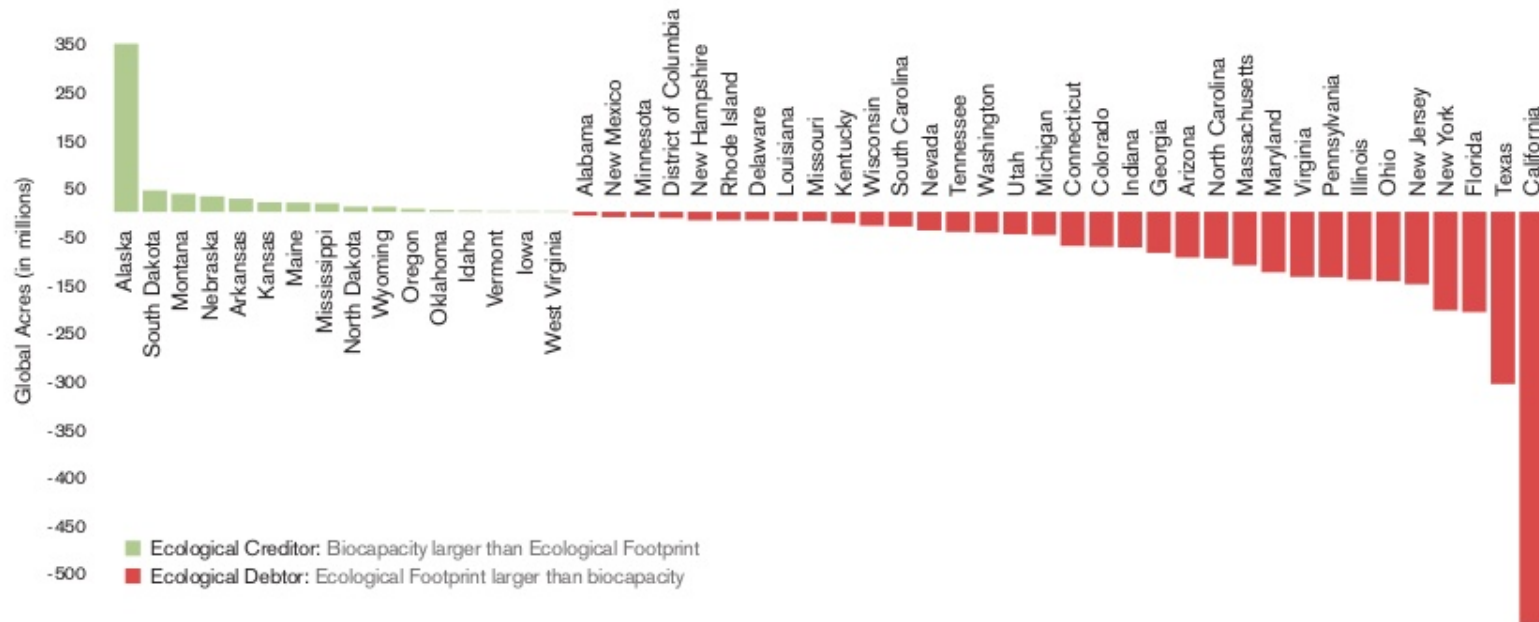


Image from: Global Footprint Network

The Mat-Su has a lot to offer

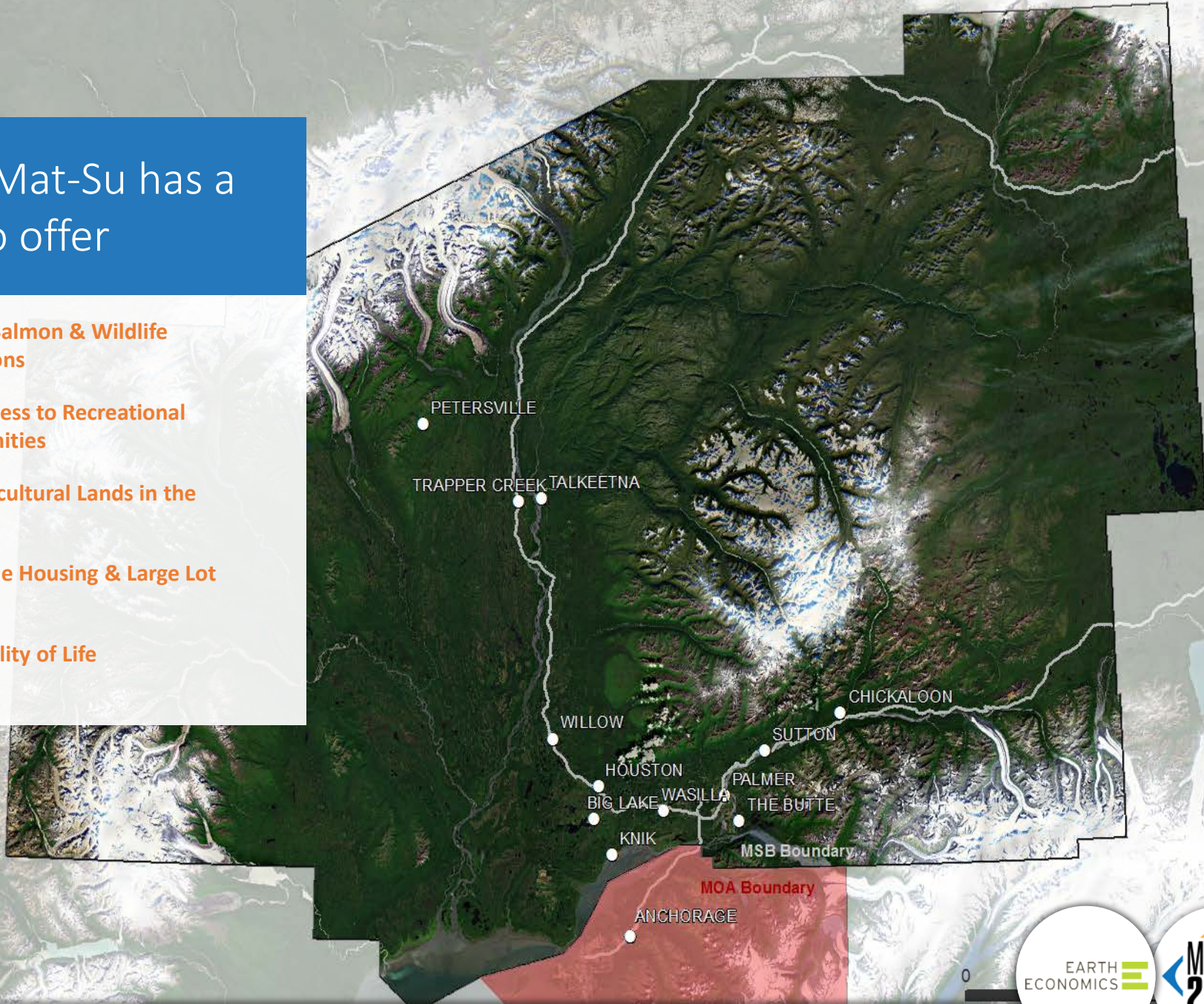
Healthy Salmon & Wildlife Populations

Great access to Recreational Opportunities

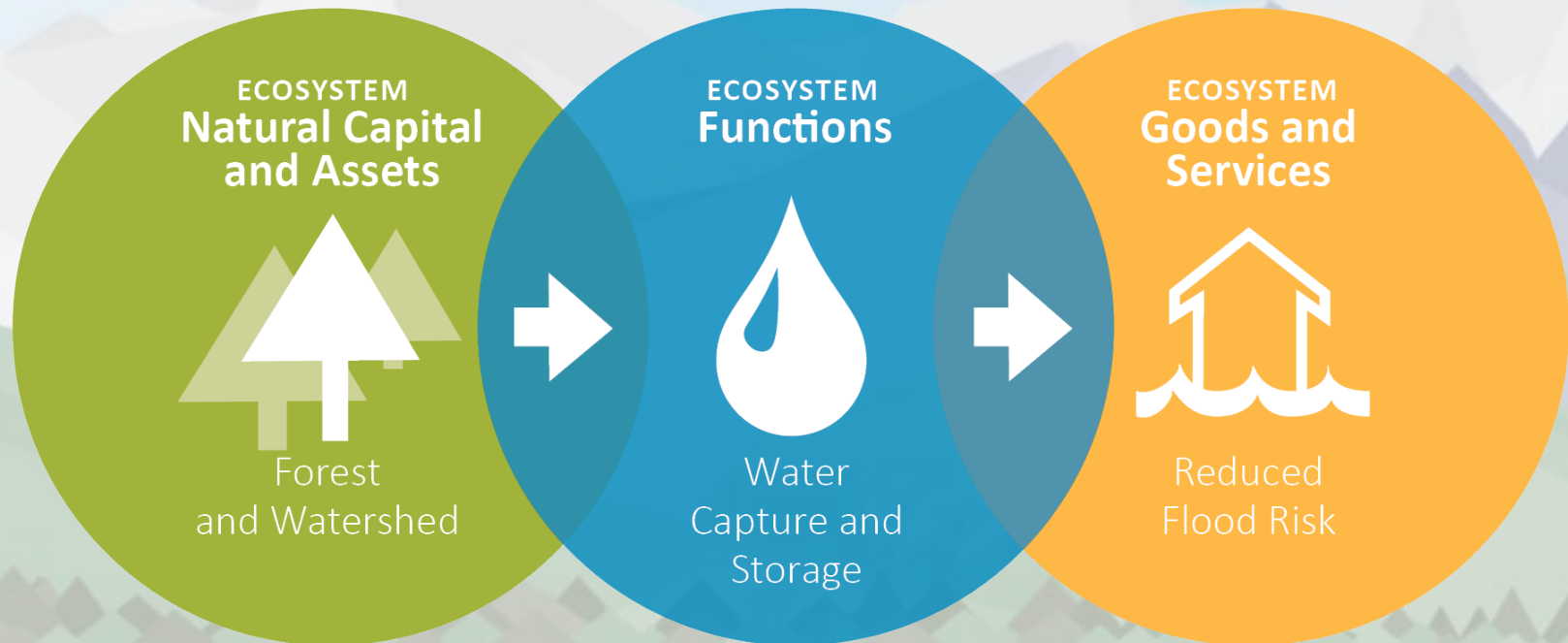
Best Agricultural Lands in the State

Affordable Housing & Large Lot Sizes

High Quality of Life



Valuing the other assets



Four Categories



**Provisioning
Services**



**Regulating
Services**



**Supporting
Services**



**Cultural
Services**

Where do the values
come from?



TABLE 6

ECOSYSTEM SERVICES AND LAND COVER TYPES VALUED IN THE MAT-SU

| | Cultivated | Forest | Grasslands | Ice | Mudflats | Riparian Buffer | Rivers and Lakes | Shrub/Scrub | Wetlands |
|------------------------------|------------|--------|------------|-----|----------|-----------------|------------------|-------------|----------|
| Food | | | | | X | | | | |
| Raw Materials | | X | | | | | | | |
| Water Supply | | | | | | X | X | | X |
| Biological Control | X | X | | | | | | | |
| Climate Stability | X | X | X | | X | X | | X | X |
| Moderation of Extreme Events | | | | | X | | | | X |
| Pollination | X | | | | | | | | |
| Soil Formation | X | | | | | | | | |
| Waste Treatment | | | | | | | X | | X |
| Water Regulation | | X | | | | | | | |
| Habitat and Nursery | | X | | | | X | | | X |
| Aesthetic Information | X | | | | | X | X | | |
| Recreation and Tourism | | X | | | | X | X | X | X |


KEY

Ecosystem service produced by land cover and valued in this report

X

Ecosystem service produced by land cover but is not valued in this report

Ecosystem service not produced by land cover



**\$20 billion to
\$50 billion**
per year





Invest in Open Space you Invest in Salmon



A photograph of a family walking a black dog on a paved path covered in fallen autumn leaves. The family consists of a woman in a grey sweater, a man in blue jeans, and a young boy in a green shirt. The background shows trees with some autumn foliage. A green text box is overlaid on the right side of the image.

Total health cost
expenditures taking into
account the cost of
medical care **\$894,641**

A photograph of a family walking a black dog on a paved path covered in fallen autumn leaves. The family consists of a woman in a grey sweater, a man in blue jeans, and a young boy in a green shirt. The background shows trees with some autumn foliage. A green text box is overlaid on the right side of the image.

Total health cost
expenditures taking into
account the loss of
productivity **\$2,343,988**

ROI Analysis

Mat-Su Borough FY 15 Operating Costs \$ 952,350

Estimate Costs

Annual Health Savings via Exercise \$ 3,238,630

Community Asset Value of Rec. Lands \$ 1,817,656

Estimate Benefits

Total Benefits \$ 5,056,286

Calculate
Return-on-Investment

Benefit – Cost Ratio 5.31



Return on Investments

For every

\$1

spent in operating costs



the Mat-Su Borough receives over

\$5

in community assets and health benefits.





Thank you

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