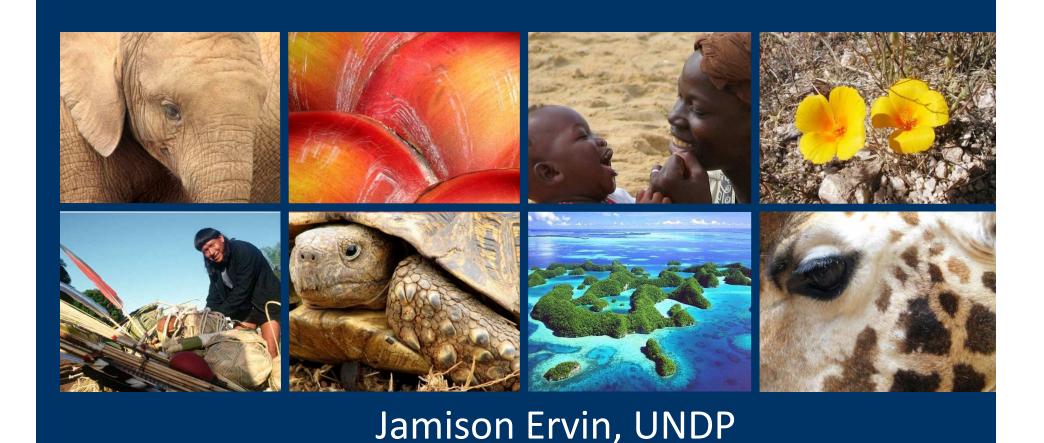
Assessing and valuing protected area benefits

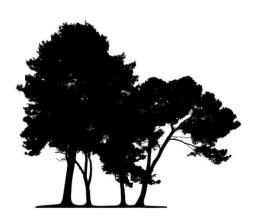




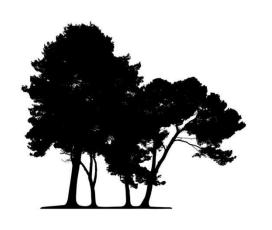


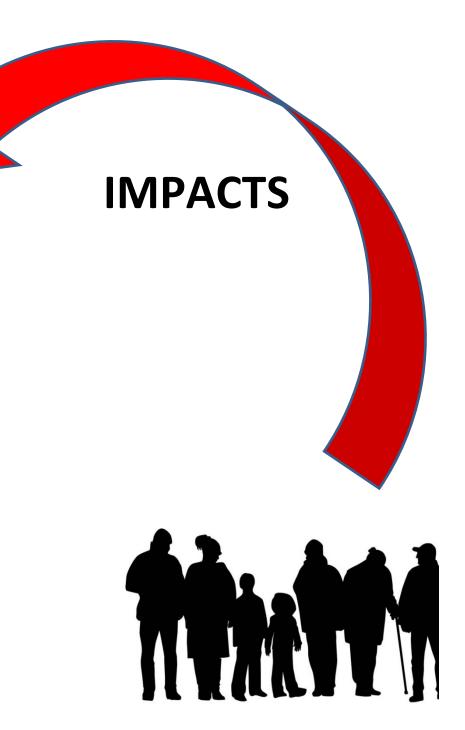
35000 ha of forest store over 1.4 billion gallons of water per day, serving more than 8 million people daily

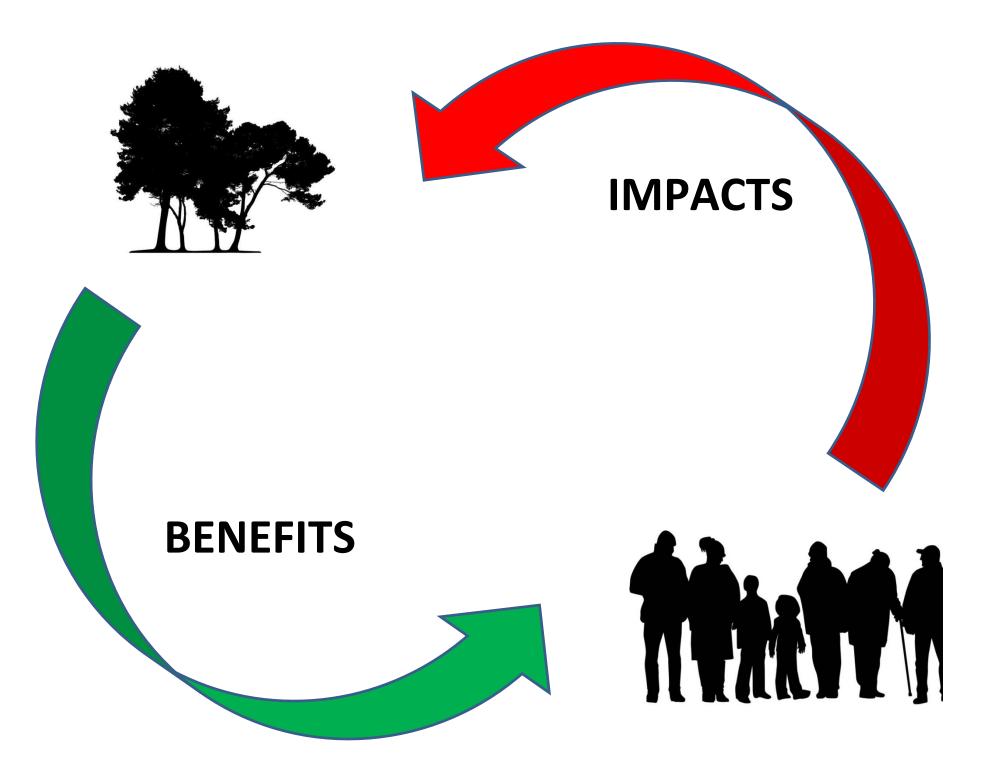
The cost is \$320 million, BUT this investment avoids \$6 billion in water treatment costs (plus \$300 million/year in operating costs)

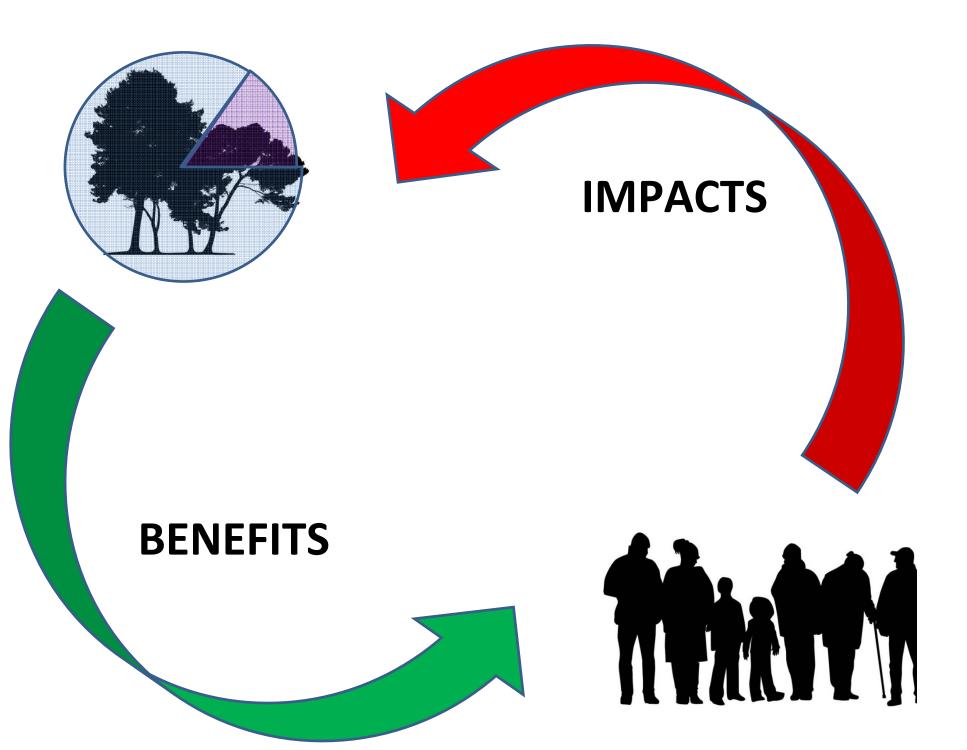


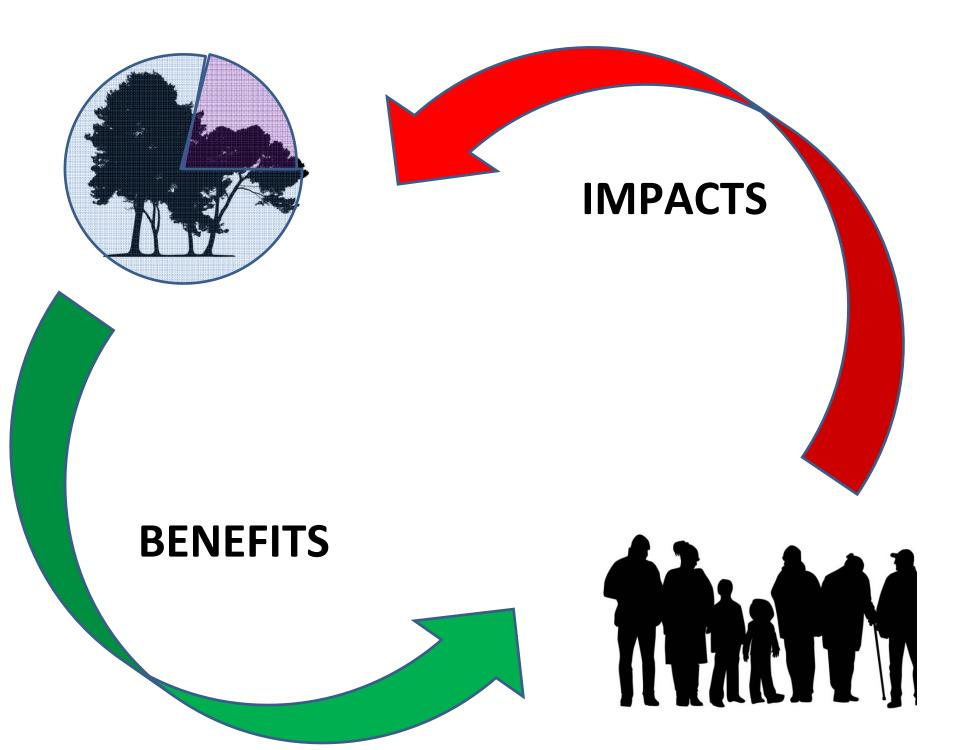


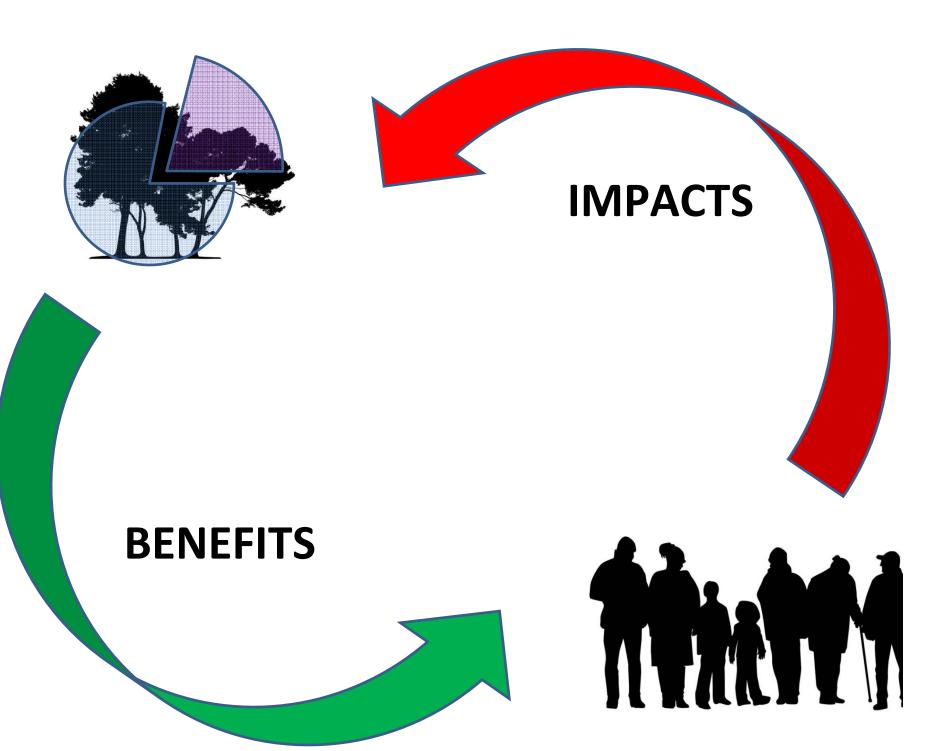


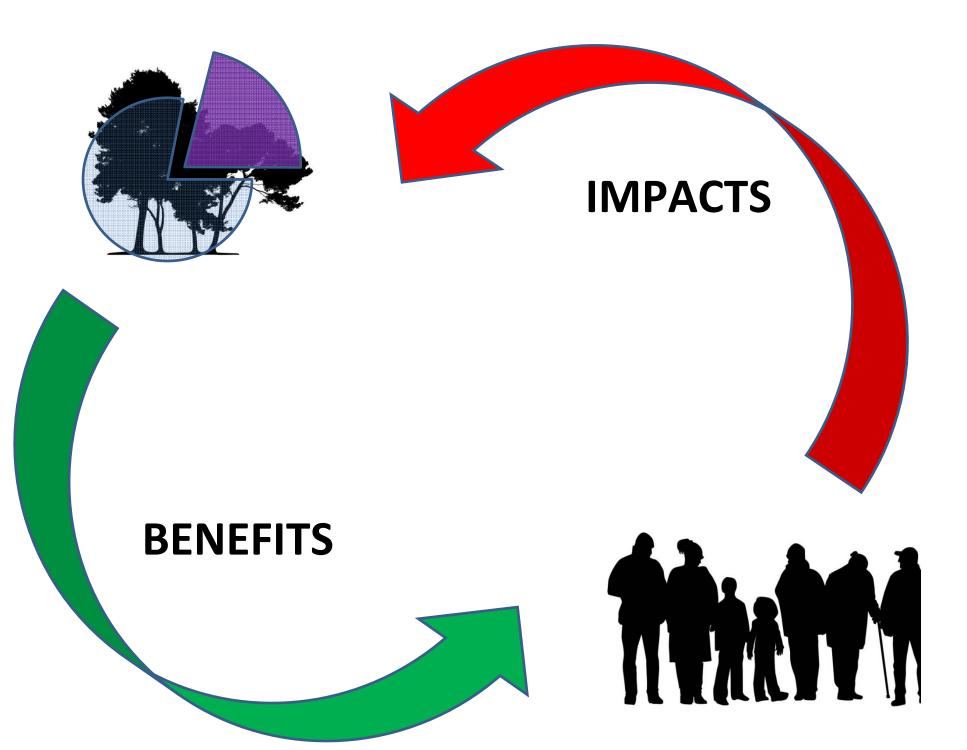


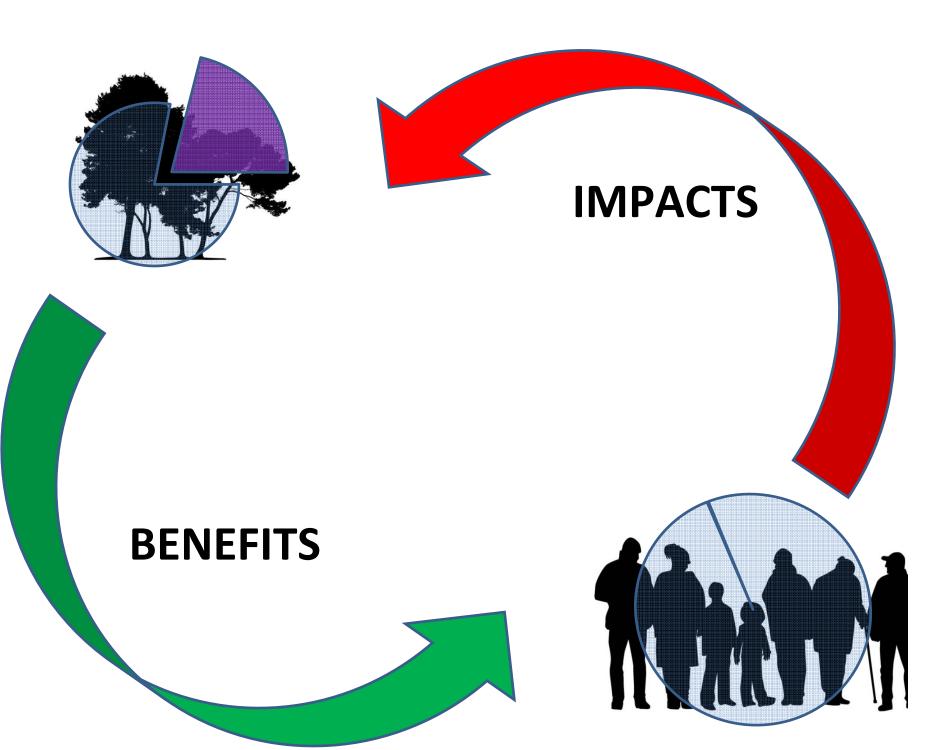


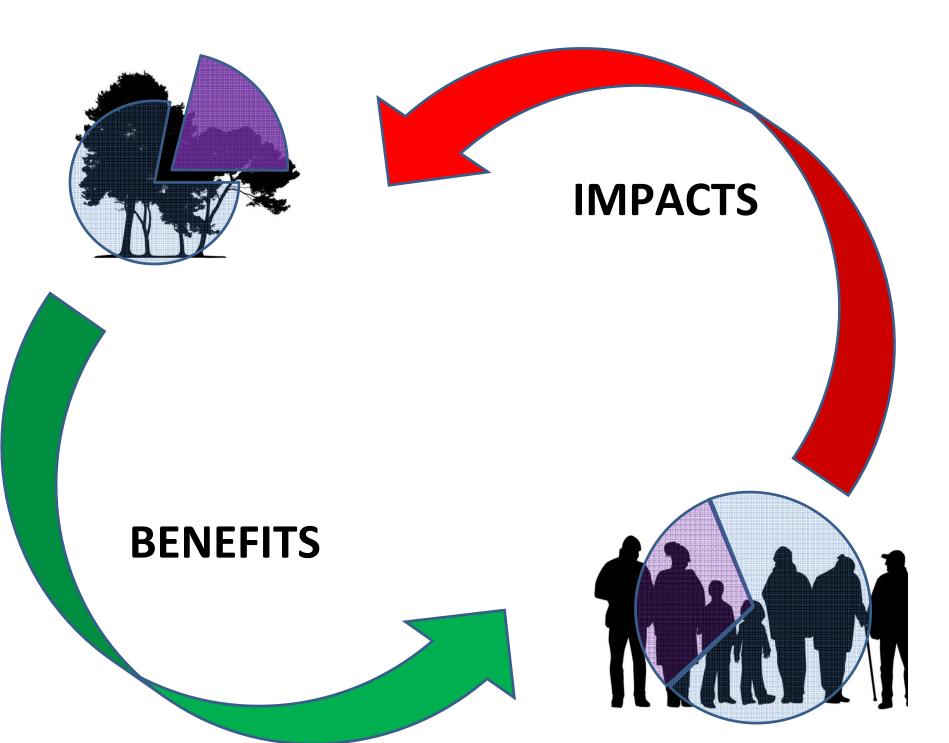


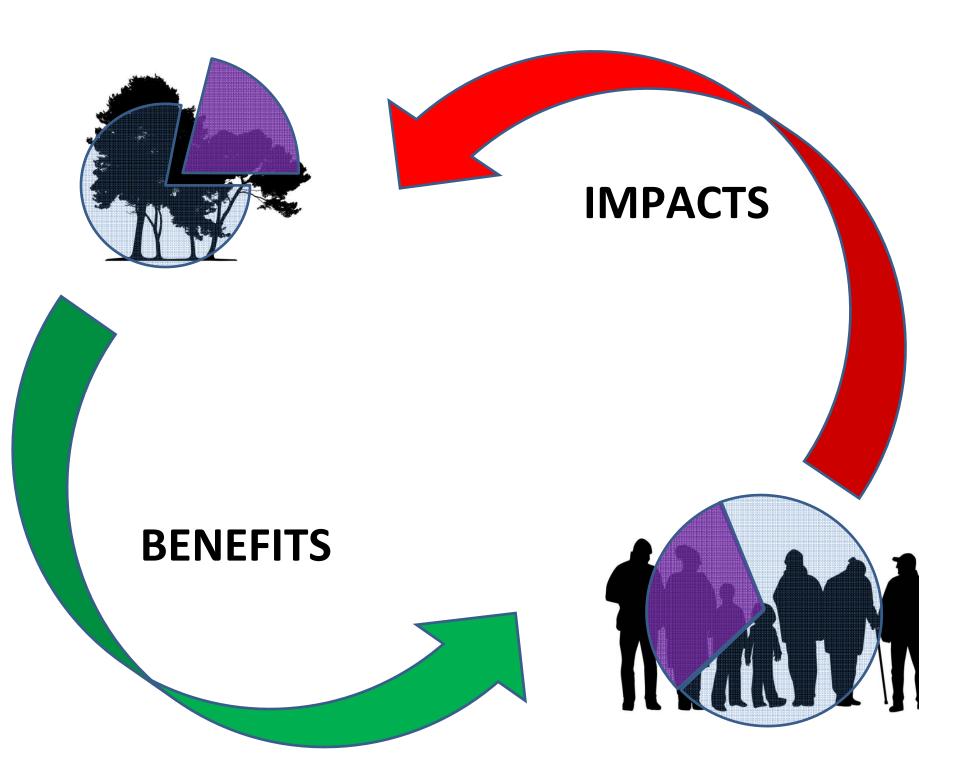


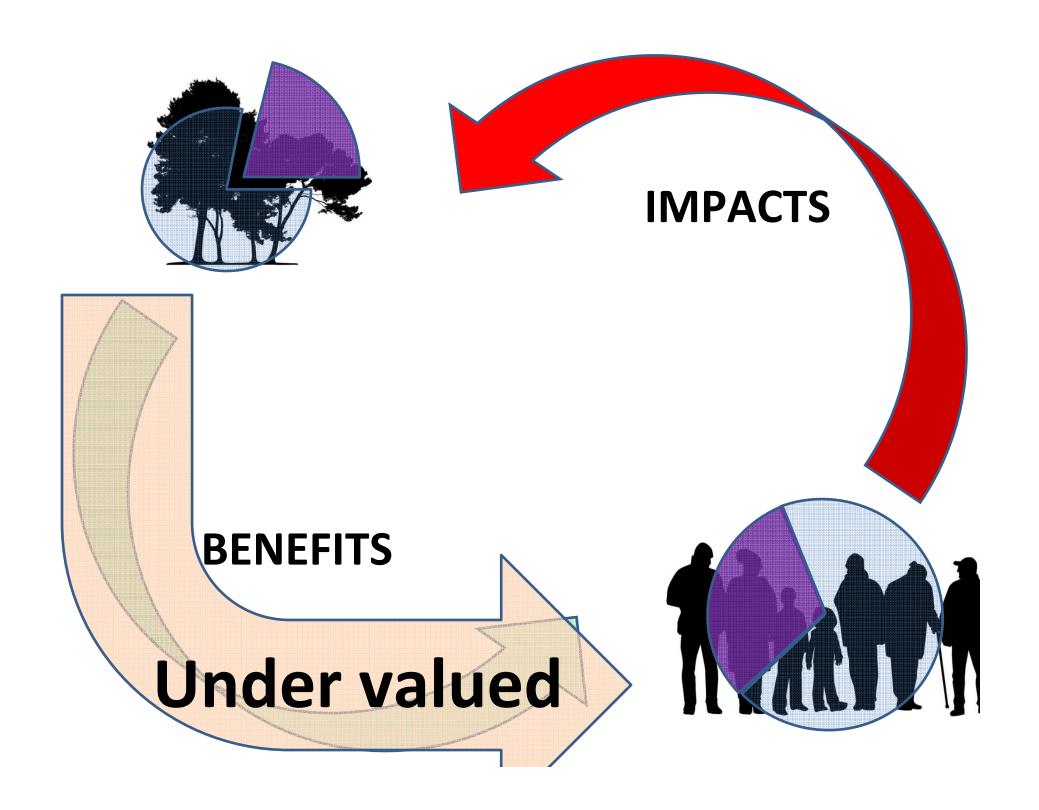


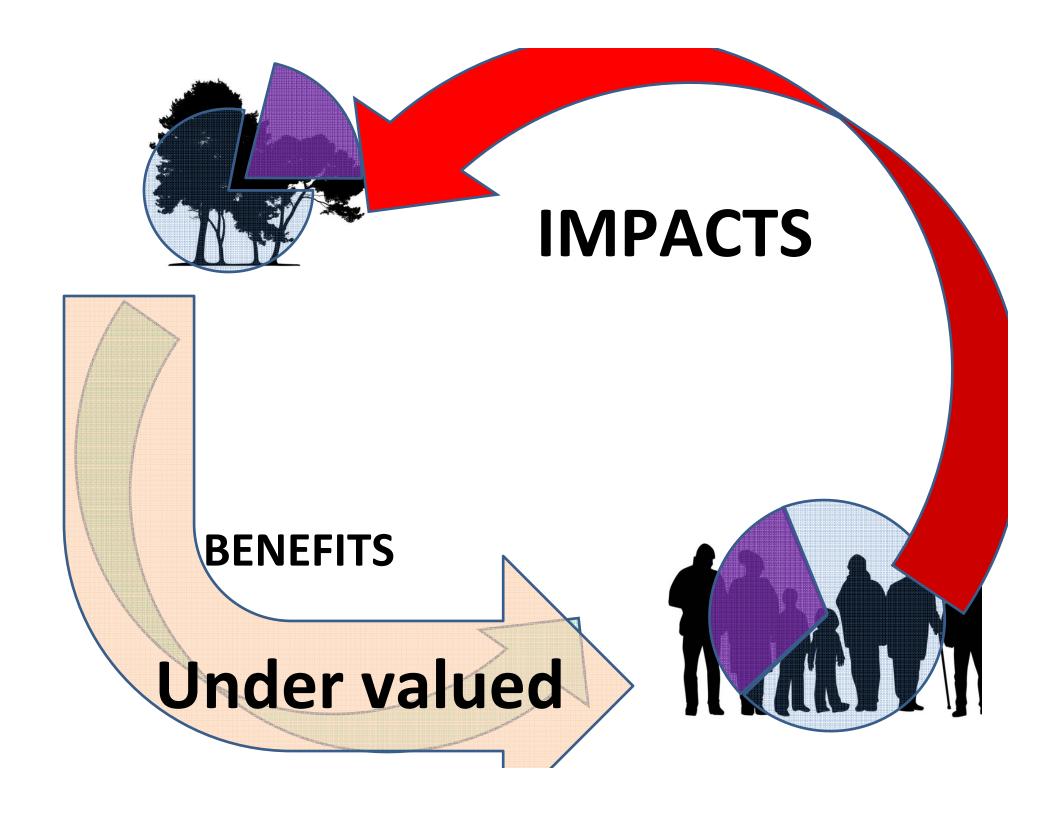


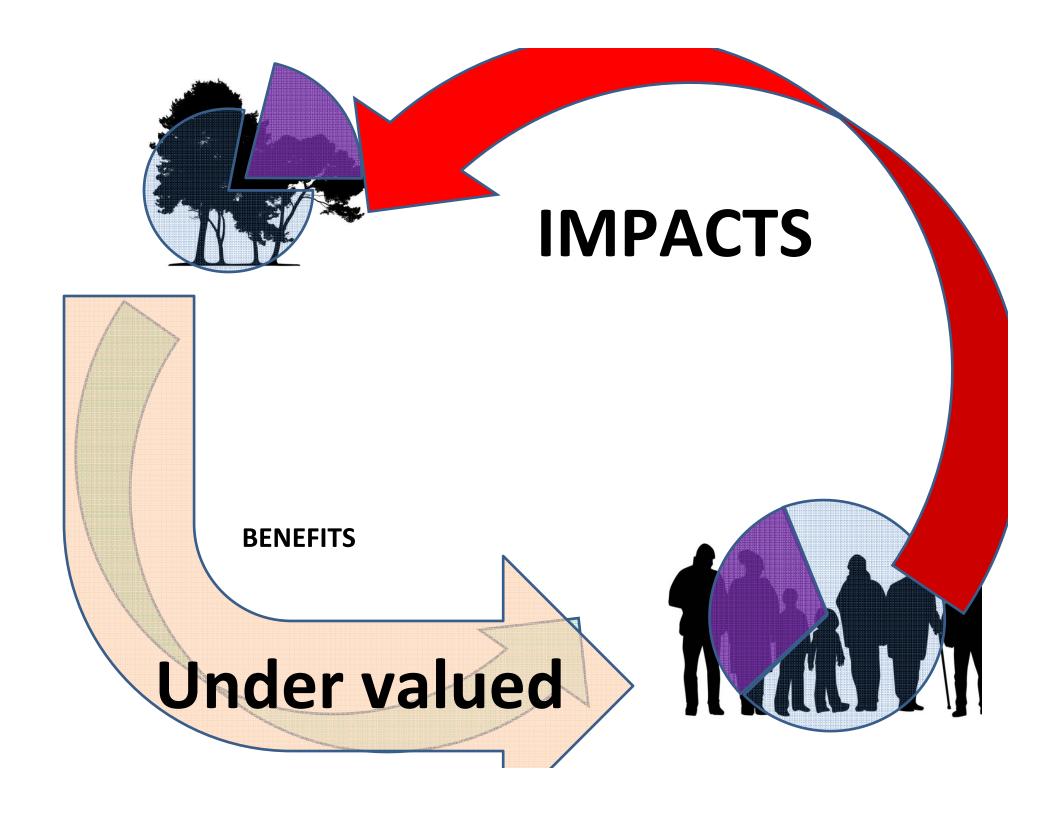


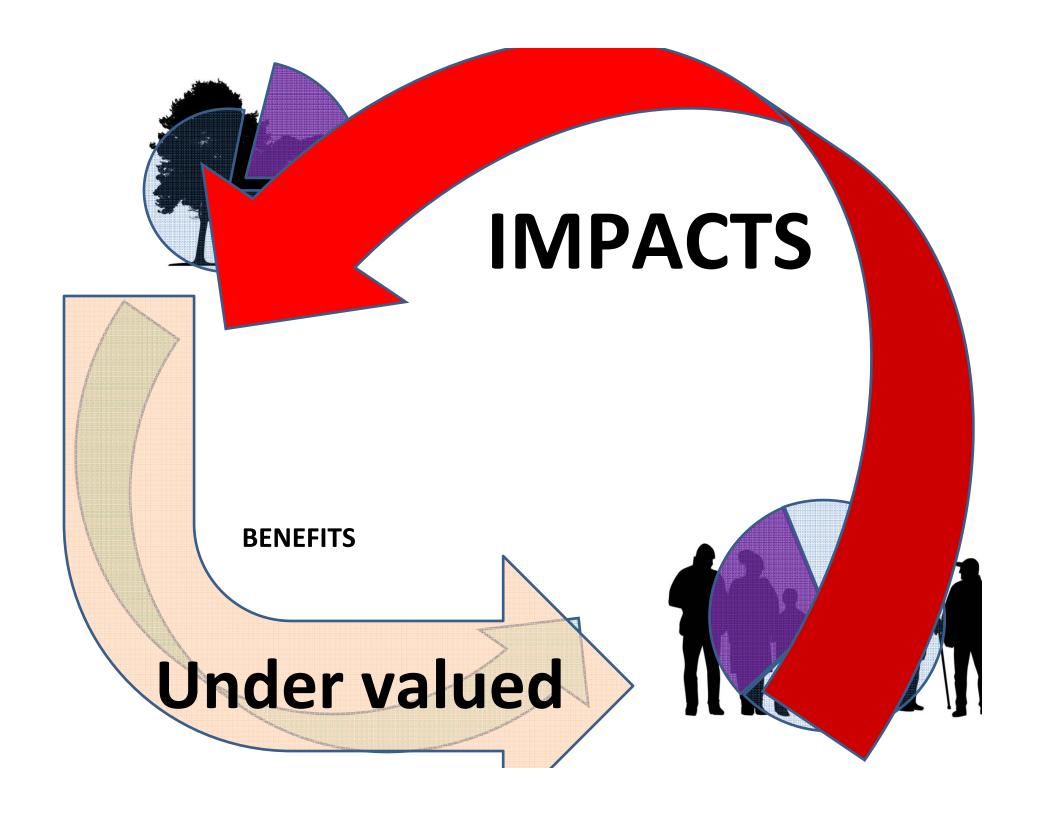


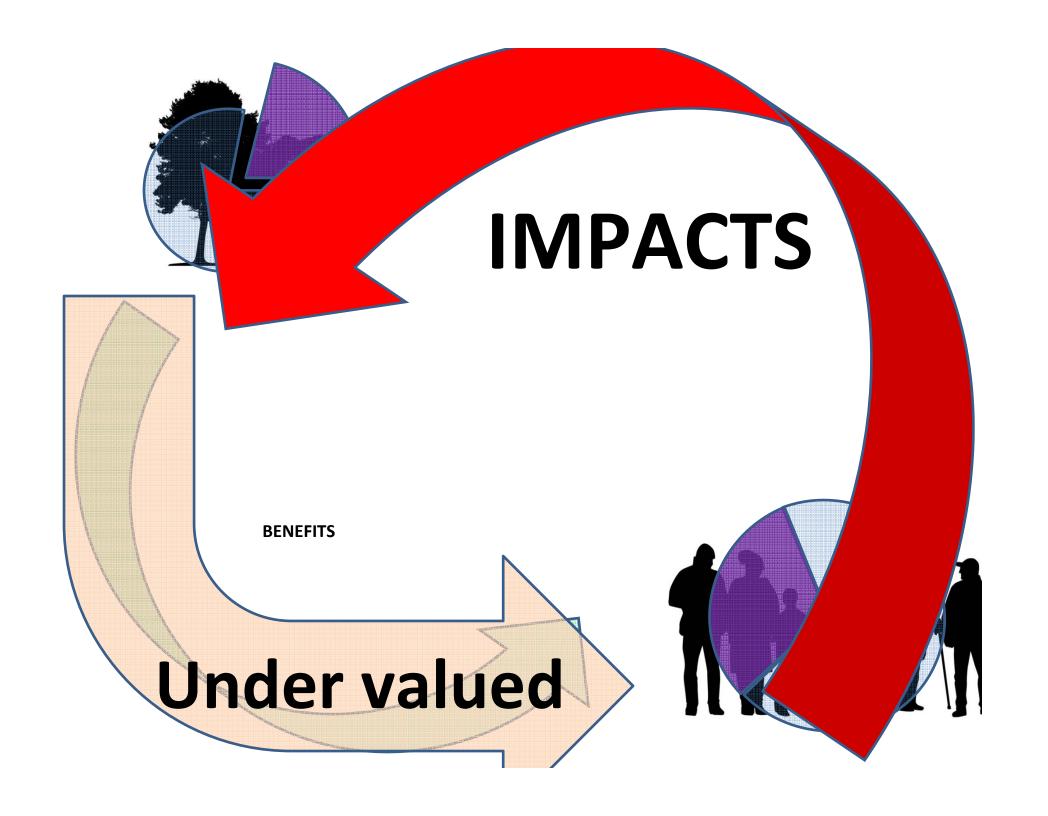


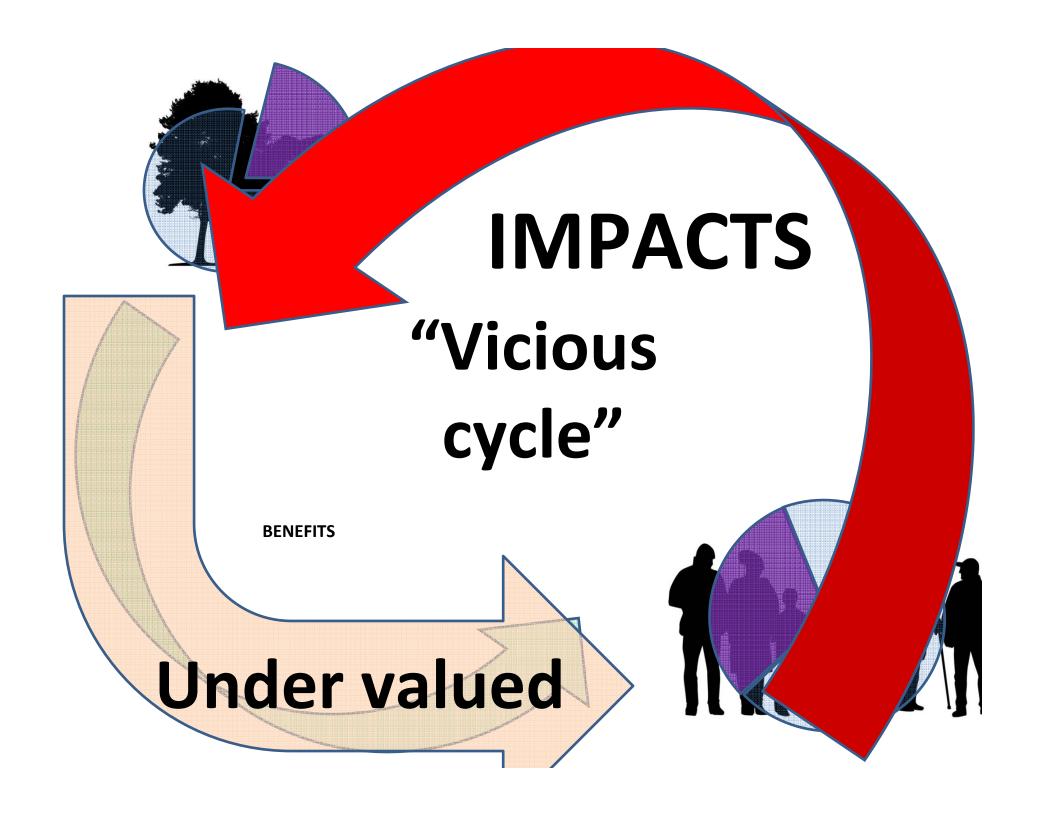


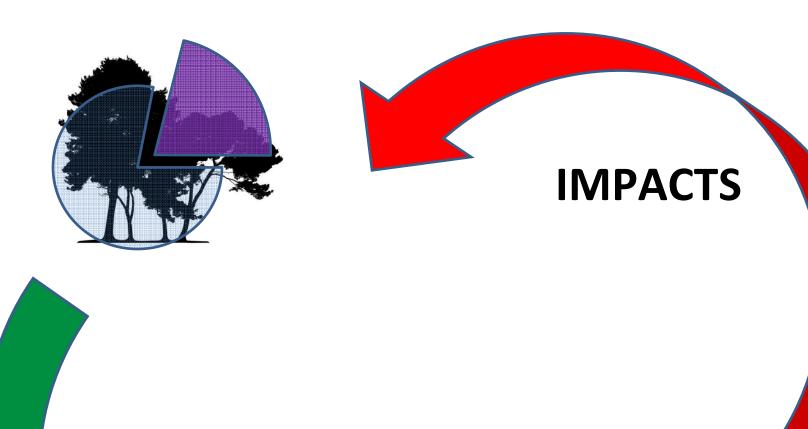






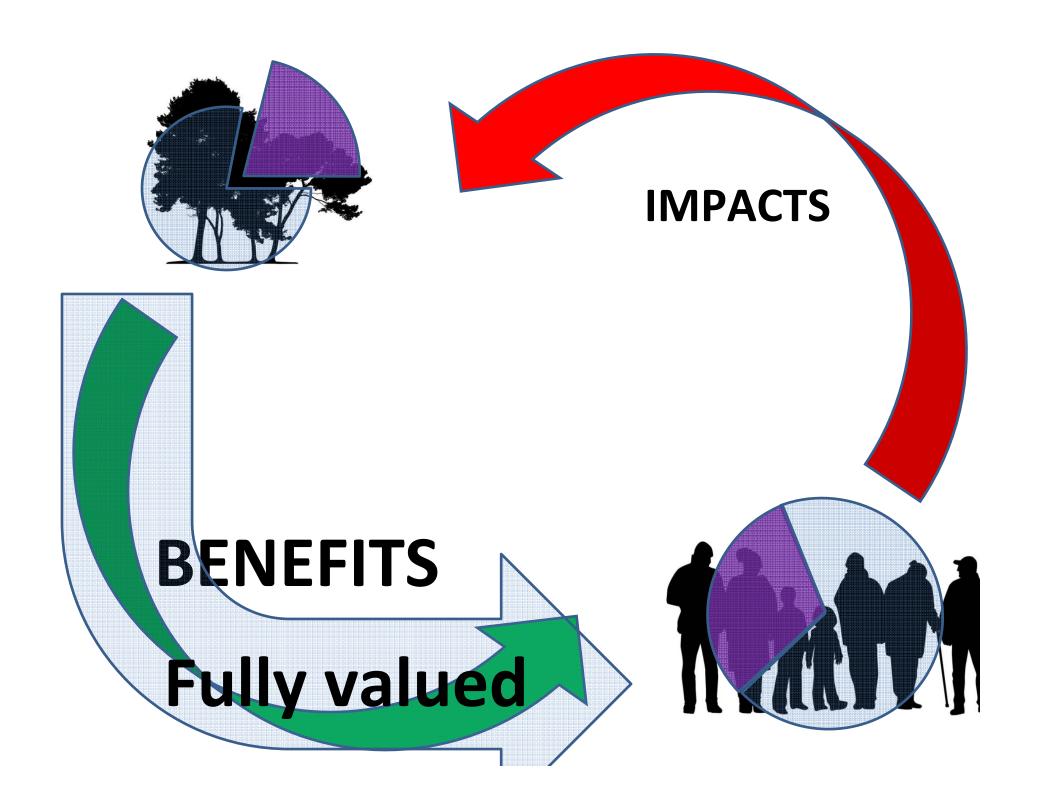


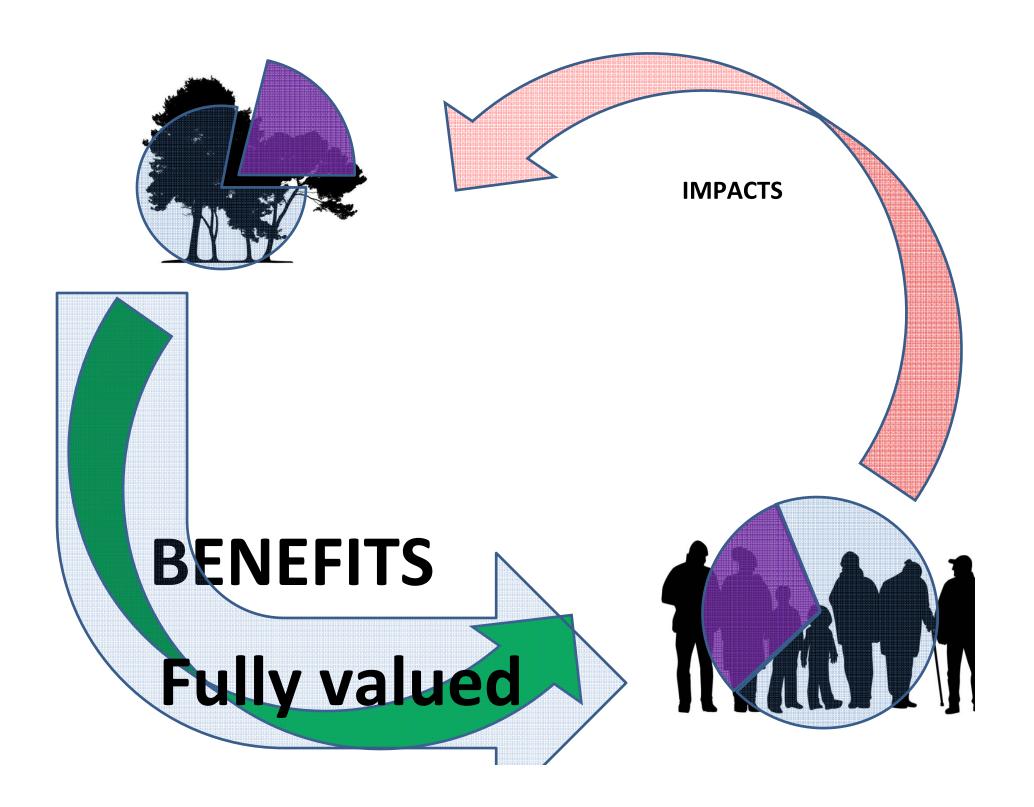


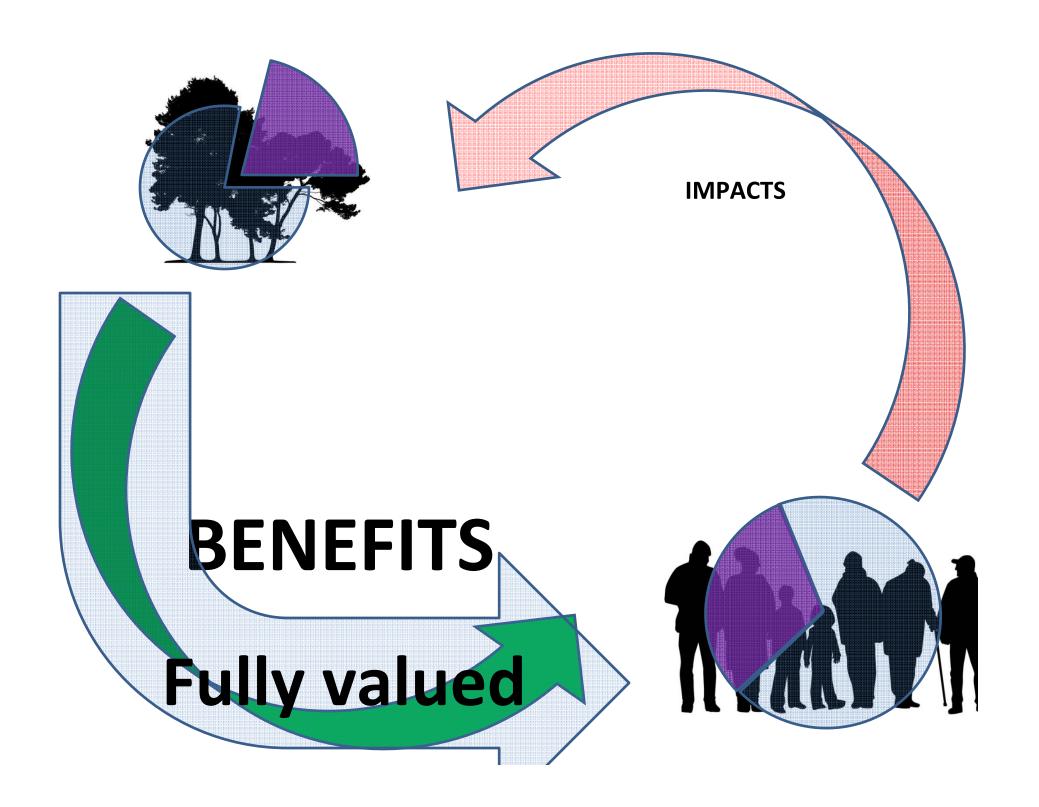


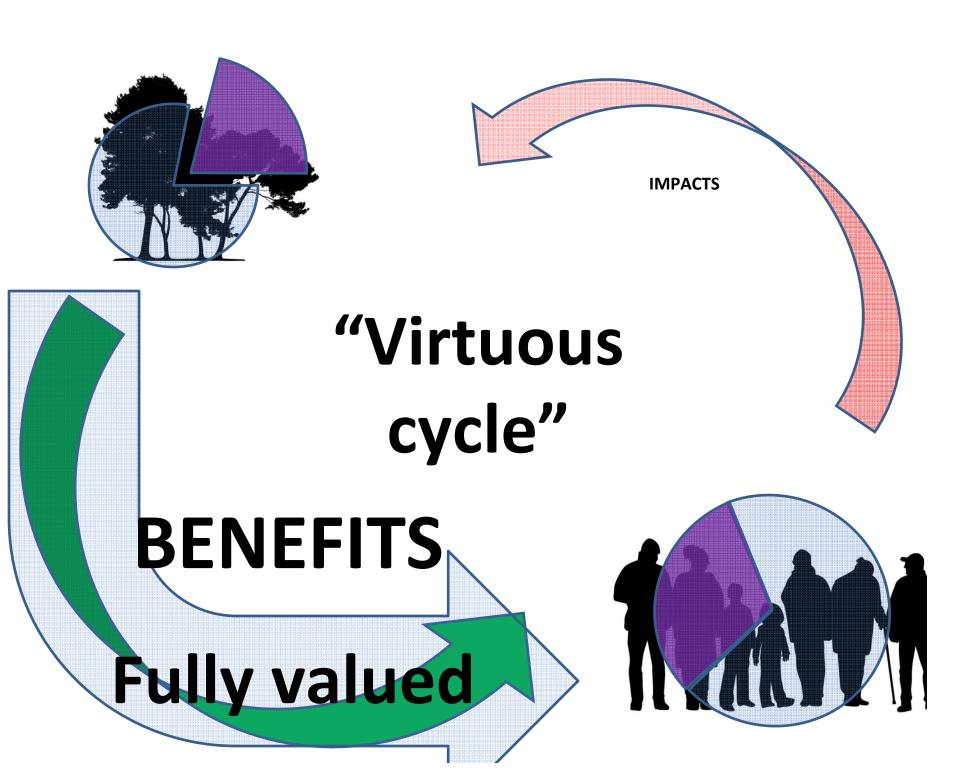
BENEFITS

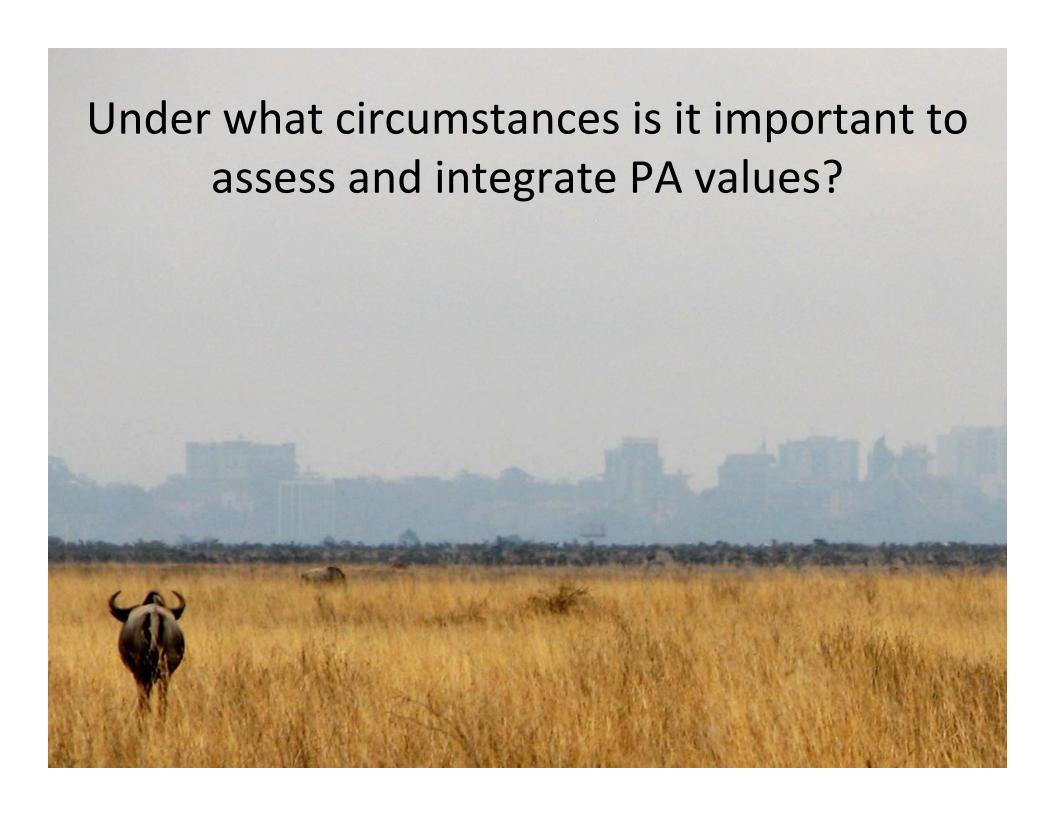














Examples of relevant cases for PA valuation

- 1. A road is planned through a protected area
- 2. Protected areas are underfunded
- 3. Private forests are being cleared around protected areas
- 4. Law enforcement is low in protected areas
- 5. Protected areas are being degazetted or privatized
- 6. Sustainable livelihoods and subsistence are compromised

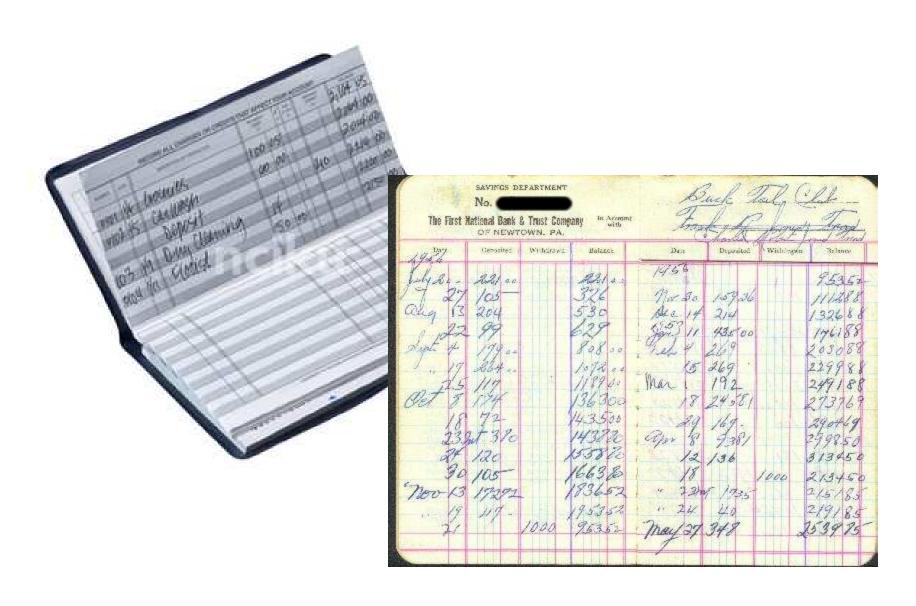


And protected areas are not piñatas...



IS098V263 [RF] @ www.visualphotos.com

Protected areas are a societal investment





Steps in Assessing Protected Area Values

- 1. Clearly define the situation, audience and decision
- 2. Choose which benefits and services are included
- 3. Choose valuation method for each benefit
- 4. Develop measurable indicators
- 5. Analyze the economic and social value of benefits
- 6. Communicate the results to key decision makers

Clearly define the situation, audience and decision



Clearly define situation, audience and decision





Clearly define situation, audience and decision



Clearly define situation, audience and decision





Clearly define situation, audience and decision





Clearly define situation, audience and decision





Clearly define situation, audience and decision



Problem that valuation will solve: Existing levels of protection (.2%) and existing management are insufficient to sustain key biodiversity features, upon which major ecosystem services, livelihoods and human wellbeing depend

Choose which benefits, goods and services are included

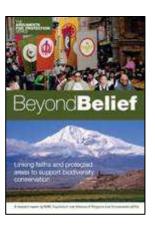




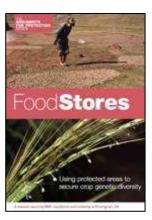
Choose benefits and services that:

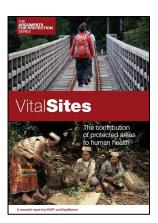
- Are associated with key national goals, such as poverty reduction
- Are easy to measure, have clear indicators and available data
- Are easiest to communicate to key stakeholder groups
- Have the highest economic values
- Are likely to lead to changes that will improve the policy environment
- Are most important across the entire protected area system
- Are likely to lead to broad public support

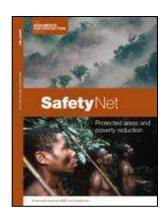


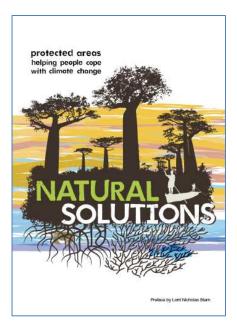




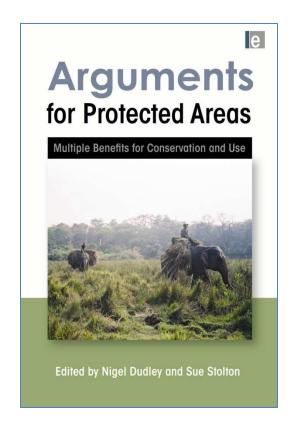








Arguments for Protection



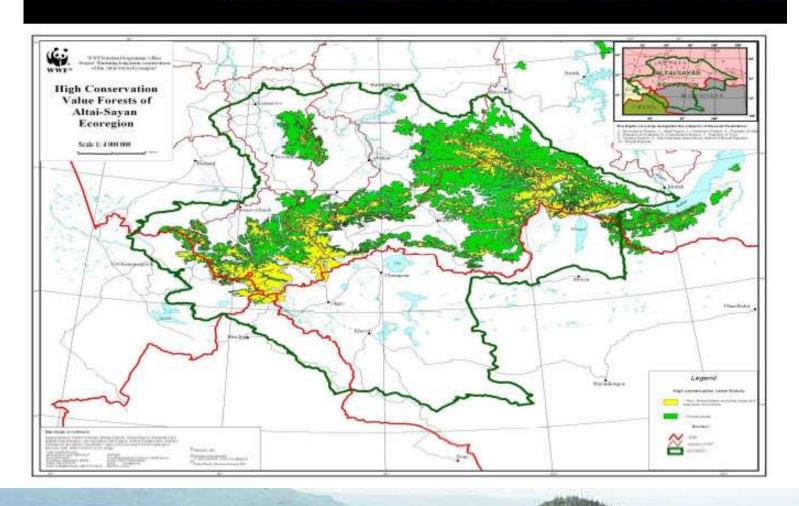
Choose which benefits, goods and services are included



Sustainable livelihoods and subsistence

Choose which benefits, goods and services are included

Carbon storage: 3.21 billion tones of Carbon



Choose valuation method for each benefit/service

- Market price
- Replacement cost
- Costs avoided
- Net factor income
- Willingness to pay



STEP 4 Develop measurable indicators

Benefit or service	Potential Indicator
Food security	 Average protein intake per person
Health	 # and % of people using medicinal plants
Fisheries	 List and volume of annual catch # of people employed Total \$US added to economy
Disaster mitigation	Hectares of avoided erosion# of people protected from flooding
Water supply	 Volume (cubic meters/second) from PAs Hectares irrigated Energy in megawatts from hydropower

STEP 4 Develop measurable indicators



- Number of families who rely on grazing
- Value of livestock that depends on grassland

STEP 5
Analyze the economic and social value of the benefits



Analyze the economic and social value of the benefits

DEVELOP IMPLEMENTATION PLAN

- Develop description of work/Terms of Reference
- Develop budget for staffing, experts, communication
- Develop timeline
- Identify specific responsibilities:
 - Project management arrangements
 - Proposed division of work between staff, consultants
 - Criteria for review of consultants' performance
 - Process for monitoring the research process
- Conduct assessment

Communicate the results to key decision makers





Communicate the results to key decision makers

POTENTIAL AUDIENCES

- Protected area managers
- Community members
- Government officials
- Ministries and agencies
- Private enterprises
- Donor agencies
- Environmental, social NGOs
- Land use planners

POTENTIAL MECHANISMS

- Media,
- Launch events,
- Workshops,
- Print materials
- Paid advertisements
- Tours
- One-on-one meetings

STEP 6
Communicate the results to key decision makers





Communicate the results to key decision makers

Simple

Powerful

Actionable

Surprising

Targeted

Iconic

Concrete



Communicate the results to key decision makers



Kazakhstan agreed to establish 3 million hectares of protected areas in key Saiga habitat by 2030

Exercise

Think of a situation in your country where protected area valuation is needed. Then discuss each step:

- 1. Clarify the situation
- 2. Identify the benefits/services
- 3. Choose the method
- 4. Select indicators
- 5. Develop plan and conduct analysis
- 6. Communicate the results