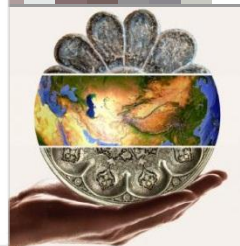بسمه تعالی

Introducing Ecotourism capacities of Iran & its rules and regulations

BY:
MORTEZA   SHARIFI
PhD of Parks and protected areas from
Ministry of Agriculture of I.R. of Iran

United Nations Symposium
14 Oct 2014 - 16 Oct 2014
Tehran, Islamic Republic of Iran

Ecotourism:

A visit to any particular tourism area with the purpose to study , enjoy and appreciate the scenery:

- natural
- cultural
- as well as life style of the local people

Based on the knowledge about and responsibility for the ecological system of the area " .

Ecotourism Resources of Iran

- Historical and cultural Values: Settled by Aryan from Aral Sea 3500-4000 years ago, Attractions from the viewpoint of archaecology, cultural and historical monuments

- Nomadic tribal communities and diversity of life style

- Natural Gifts: wide range in latitude and longitude (26 to 38 N, and 44 to 63 E) different physiography , very variable climate, contact point of 5 phytogeographical regions, high biodiversity and genetic resources, 2500 km sea frontiers, unique forests, natural monuments and so on

Ecotourism & philosophical tradition of Iranian

- Our Iranian forefathers conceived of the earth as a mother, nature as sacred, and the pollution of the environment as a sin
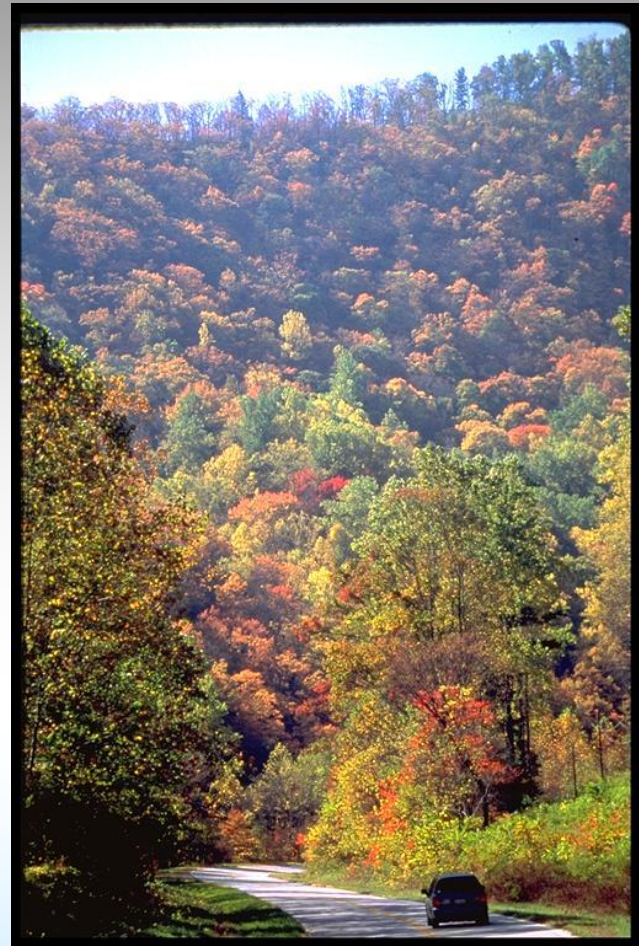
Ecotourism & religion of Iranian

- Richad Ettinghausen points out;" It should be remembered that the earliest renditions of Persian paradise or Islamic garden predate the earliest, actually preserved areas. They assist us greatly in reconstructing the early history of landscape architecture

Guideline to estimate of nature tourism carrying capacity

Specifying standards:

- Determine total area for each categories
- Determine Rec Area based on specified standards (10% of NP, WR, NM, FR and wet, 20% of PA, 60% FP &SS
- Determine ORA (i.e. 12% for Camp, 16% for Pic and 10% for other activities)
- Determine number of Rec. U for each ORA (i.e. per each hec of ORA 8-14 CU, 20-30 PC and 10% PCU+10% CUU for OU
- Each Recreation unit has potential of 5 persons then : (X) (5) = daily ecological carrying capacity of total area
- Recreation season depends upon climate (Recreation season) (XI) = Yearly Ecological carrying capacity of areas (days)

An estimate of nature tourism carrying capacity of Iran

Title	T. Area	R . Area	R. Units	Day-visit
N.P.	1863591	186360	1328374	1095908385
W. Ref.	2287955	228795	463081	382041891
N. Monu.	12627	1262	8996	7421700
F. Res	72355	7236	51578	42552081
wetland	1000000	100000	712800	588060000
P. area	2409545	481909	25097821	20705702090
F. Parks & S. S	1339732	803840	10417772	8594661504

Eco-tourism regional system land use plan

Ecological Approach to Recreational use capability of Nature

Ecoregion

Ecosections

The Ecosites Layer
(Homogeneous Units of soil groups and vegetation types)
of Study Area will be used as Reference Map

Monitor & Evaluate Existing Condition

- Based on Ecosite Polygons

1. Specify point-rating system

2. Evaluate VECs and label polygons

   - w.r.t. physical, biological, cultural & historical features and visual values

3. Determine H.U. Disturbance, wilderness and natural attractiveness

Synthesis : Specify ROS classes of region level

Ecotourism Design of Individual ORA

ERCC

RSOs & VECs

VERP

ORRRC

VIM

VAMP

LAC
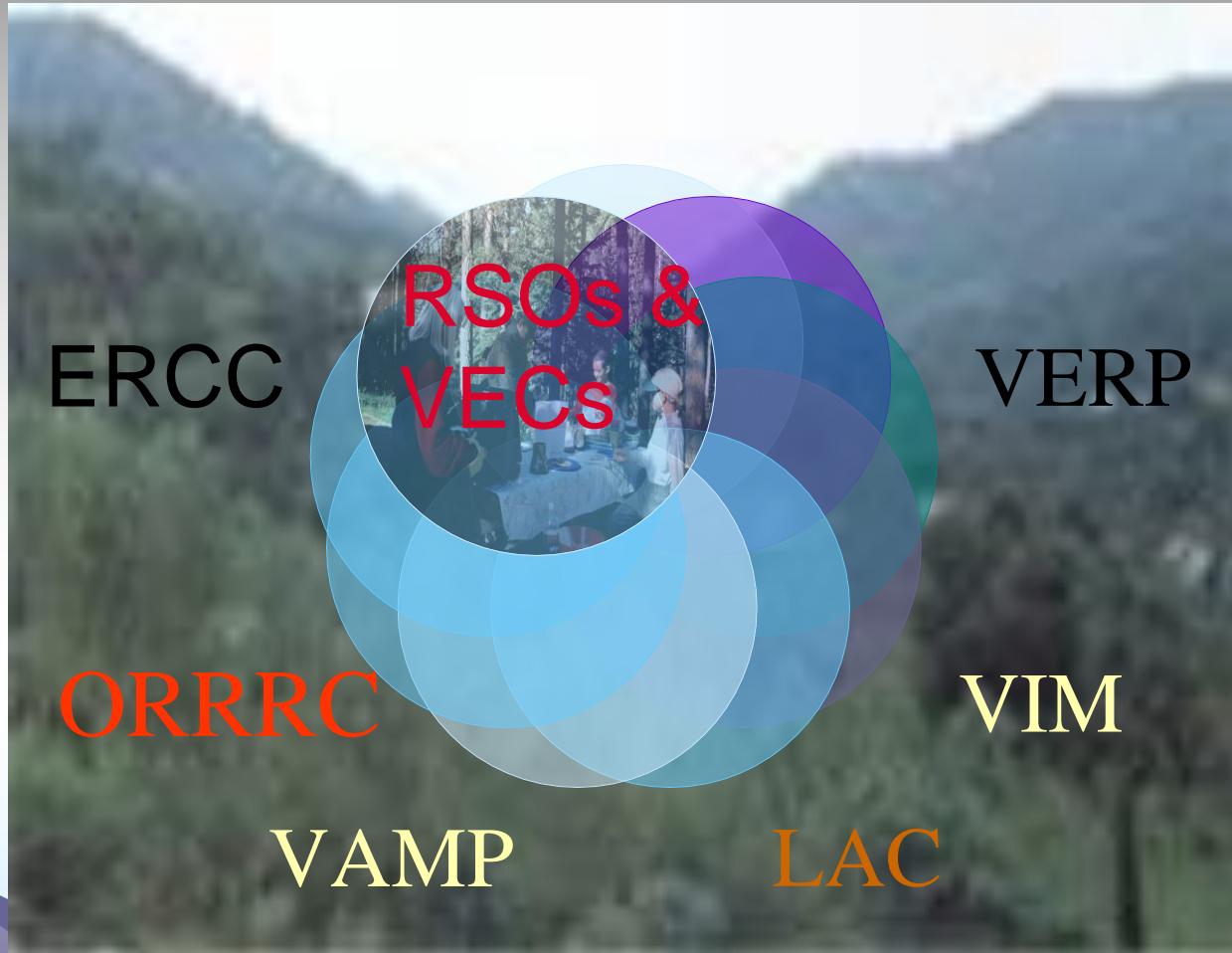
Base Map: Ecosites Map
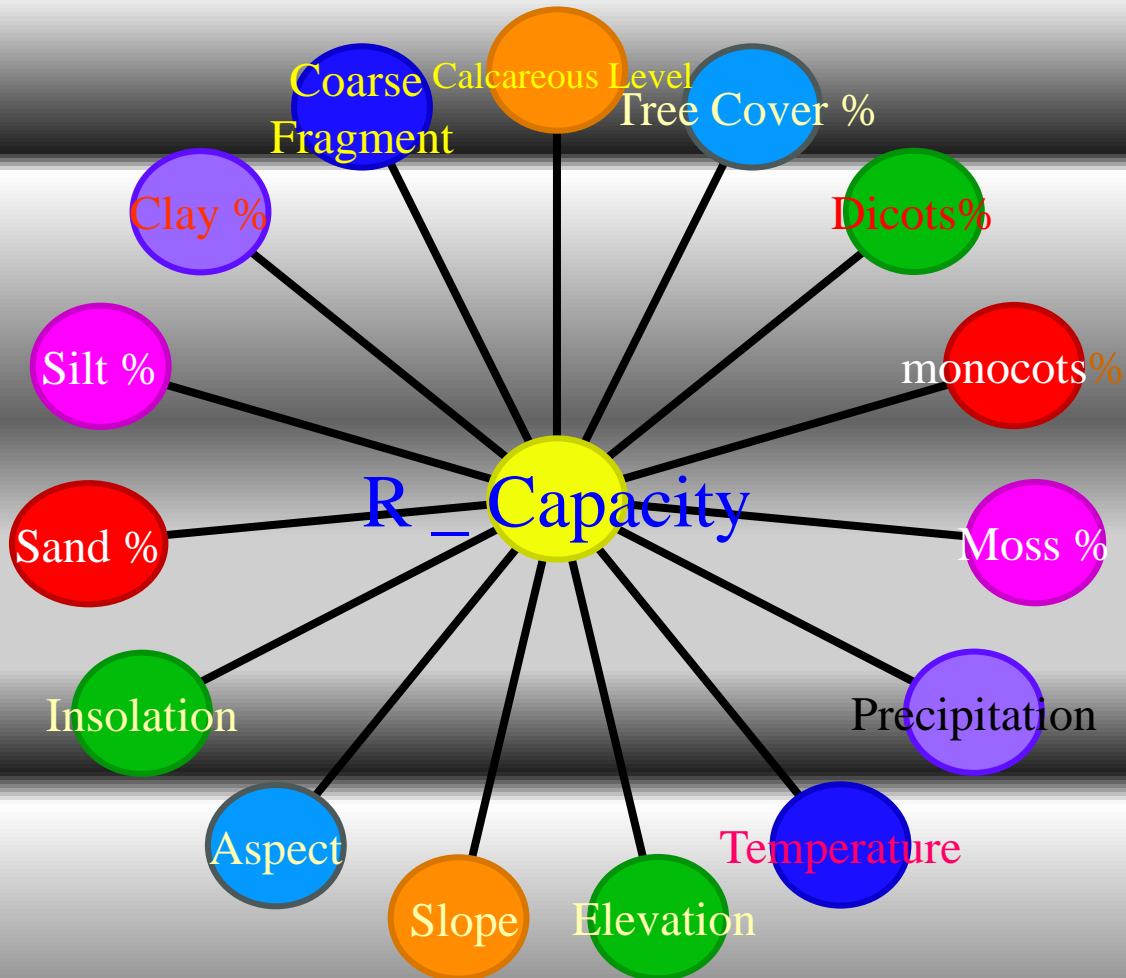
Specify Standard Indicator

- Ground Cover Index reduction leads decrease in diversity, water quality and ecosystem health

Required Criteria for Standard Indicator:

1. Specific
2. Objective
3. Relative and Repeatable
4. Related to Human Use
5. Sensitive
6. Manageable
7. Efficient and effective to Measure
8. Significant

Specify Independent Indicators

Ecological Human use capability spectrum mathematical model

$$\hat{y} = 39.356 + 0.4297x1 + 0.3035x2 - 0.0336x3 + 0.2412x4 - 0.00038x5 -$$

$$0.3471x6 - 0.1029x7 + 0.3824x8 - 0.03855x9 - 0.1443x10 - 0.2438x11$$

Ecological Human use capability spectrum mathematical model Hyrcanian Forests

mathematical model:

	Coefficients	Standard Error
Intercept	1.1823	22.80257624
x1	1.4894	0.513464012
x2	0.007	0.046389761
x3	0.5663	0.217654677
x4	0.1126	0.067354672
x5	0.0052	0.105770877
x6	-0.938	0.171855322
x7	-0.629	0.268170009

parameters	Coefficient
% Monocot	+
Aspect	E, N , S , w + to -
Silt %	_
Tree Cover %	30 – 75 +
% Slope	-
% Moss	-

Backward Elimination

Predictors: (Constant), X7, X1, X4, X3, X6

Further Determination , Modifying & Planning

- Determine the EHUCSC Classes of Ecosites
- Define Evaluative Standards
    - Habitat and Corridor Effectiveness of Umbrella Species
    - Specify LACs for local Ecosystems

- Specify ROS for each EHUCS classes and Develop Standards Factors Delineation for human use (ERCC)
- Develop Management Plan

www.photo-aks.com

Thank you for your patience