

Agenda 21 has the answers, as in paragraph 4.11 of Chapter 4, **Changing consumption patterns**, we find:

Consideration should also be given to the present concepts of economic growth and the need for new concepts of wealth and prosperity which allow higher standards of living through changed lifestyles and are less dependent on the Earth's finite resources and more in harmony with the Earth's carrying capacity. This should be reflected in the evolution of new systems of national accounts and other indicators of sustainable development.

In Chapter 5, **Demographic dynamics and sustainability**, paragraph 5.23 reads as follows: *An assessment should also be made of national population carrying capacity in the context of satisfaction of human needs and sustainable development, and special attention should be given to critical resources, such as water and land, and environmental factors, such as ecosystem health and biodiversity.*

When we skip to Chapter 17 of Agenda 21, **Protection of the oceans, all kinds of seas, including enclosed and semi-enclosed seas, and coastal areas and the protection, rational use and development of their living resources**, we find in section 17.128 b.: *Develop techniques for determining and monitoring the carrying capacity of small islands under different development assumptions and resource constraints.*

So now that we have the scope of the problem defined, how do we quantify it?

Again, Agenda 21 in Chapter 40, **Information for decision-making**, provides the answer.

In section 40.4 we find: *Commonly used indicators such as the gross national product (GNP) and measurements of individual resource or pollution flows do not provide adequate indications of sustainability. Methods for assessing interactions between different sectoral environmental, demographic, social and developmental parameters are not sufficiently developed or applied. Indicators of sustainable development need to be developed to provide solid bases for decision-making at all levels and to contribute to a self-regulating sustainability of integrated environment and development systems.*

Such indicators are needed to increase focus on sustainable development and to assist decision-makers at all levels to adopt sound national sustainable development policies.

Based on voluntary national testing and expert group consultations, a core set of 58 indicators and a total set of 134 indicators and methodology sheets are available for all countries to use.

In the Report of the Global Conference on the Sustainable

Development of Small Island Developing States, held in Bridgetown, Barbados, 25 April-6 May 1994, mention is made of a vulnerability index which uses a particular set of indicators in paragraph 113:

Small island developing States, in cooperation with national, regional and international organizations and research centers, should continue work on the development of vulnerability indices and other indicators that reflect the status of Small Island developing States and integrate ecological fragility and economic vulnerability.

Consideration should be given to how such an index, as well as relevant studies undertaken on small island developing States by other international institutions, might be used in addition to other statistical measures as quantitative indicators of fragility.

The Environmental Vulnerability Index (EVI) Project, developed by the South Pacific Applied Geoscience Commission (SOPAC), does just that.

Agenda 21 tin e contesta, ya cu den paragrafo 4.11 di Capitulo 4, **Cambio di patrono di consumo**, nos ta haña:

Consideracion tambe mester ser duna na conceptionan actual di desaroyo economico y e necesidad pa concepto nobo pa rikeza y prosperidad cual ta permiti standard mas halto di bida mediante estilo di bida cambia y cual ta menos dependiente di e recursonan finito di Tera y mas den harmonia cu e capacidad di carga di Tera. Esaki mester refleha den e evolucion di sistema nobo di cuenta nacional y otro indicador di desaroyo sostenibel.

Den Capitulo 5, **Dinamica demografico y sostenibilidad**, paragrafo 5.23 ta bisa lo siguiente:

Un asesoria mester ser haci tambe di e capacidad di carga pa e poblacion nacional den e contexto di satisfaccion di necesidad humano y desaroyo sostenibel, y atencion especial mester ser duna na recurso critico, manera awa dushi y tereno, y factornan ambiental, manera salud di ecosistema y biodiversidad.

Ora nos salta pa Capitulo 17 di Agenda 21, **Proteccion di oceano, tur tipo di laman, incluyendo esnan encera y semi-encera, y areanan costal y e proteccion, uso racional y desaroyo di nan recursonan natural viviente**, nos ta lesa den seccion 17.128 b.: *Desaroya tecnica pa determinacion y monitoreo di capacidad di carga di islanan chikito bao suposicion di diferente desaroyo y*

di Desaroyo Sostenibel di Estadonan Insular Chikito den Desaroyo teni na Bridgetown, Barbados, 25 april-6 mei 1994, mencion ta ser haci den paragrafo 113 di un index pa vulnerabilidad (vulnerability index) cual ta usa un coleccion especial di indicador:

Estadonan Insular Chikito den Desaroyo, den cooperacion cu organizacionan nacional, regional y internacional y centro di investigacion, lo mester continua traha riba e desaroyo di indexnan di vulnerabilidad y otro indicador cu ta refleha e status di Estadonan Insular Chikito den Desaroyo y cual ta integra fragilidad ecologico y vulnerabilidad economico. Consideracion mester ser duna na con un tal index, ademas di estudionan relevante haci pa otro institucion internacional tocante Estadonan Insular Chikito den Desaroyo, por ser usa hunto cu otro medidanan estadistico como indicador cuantitativo di fragilidad.

E proyecto Environmental Vulnerability Index (EVI), desaroya pa e South Pacific Applied Geoscience Commission (SOPAC), ta haci tal.

Y awor cu nos a defini e problema, defini e campo di investigacion y tin acceso na un coleccion disponibel di instrumento con nos ta haci pa cuminsa compila e cifranan?

E Oficina di Estadistica di Aruba ta parce di ta riba e bon caminda, ya cu nan lo bai haci un sondeo cu yama Community Needs Assessment (Sondeo di Necesidadnan Comunitario), cual te na un cierto nivel lo cumpli cu e requisitonan delinea den e paragrafo 5.23 di Agenda 21 menciona anteriormente. Pero e metodologia usa ta crudo y no ta refleha e metodologian facilmente accesibel di indicadornan di desaroyo sostenibel di un index di vulnerabilidad, cual ta disponibel na varios agencia di Naciones Uni manera e Comision pa Desaroyo Sostenibel di Naciones Uni (CSD), e Division di Estadistica di Naciones Uni y numeroso otro agencia regional y di Naciones Uni.

Nos mester utilisa metodologia acepta generalmente, pasobra e cifranan cu nos ta compila mester por ser usa den un forma comparativo den modelonan calibra pa midi diferencianan.

A bira ora pa cuminsa saca som y Rainbow Warriors International ta di opinion cu un serie di lectura, workshop y seminario introduciendo metodologia y instrumentonan desaroya pa agencianan di Naciones Uni na Aruba lo ta altamente aproppria y na ora awor, promer cu nos cuminsa prepara pa compila estadisticanan cu no ta util pa contribui na planificacion y tomo di decision cu un enfoque riba desaroyo sostenibel na Aruba.

PLAN D2

If you have built castles in the air,
your work need not be lost; that is
where they should be. Now put
the foundations under them.

Henri David Thoreau