

The Place of Value in a World of Change - Panel 2: From Urban BIO-NOOK to BIO-GIGAPOLIS

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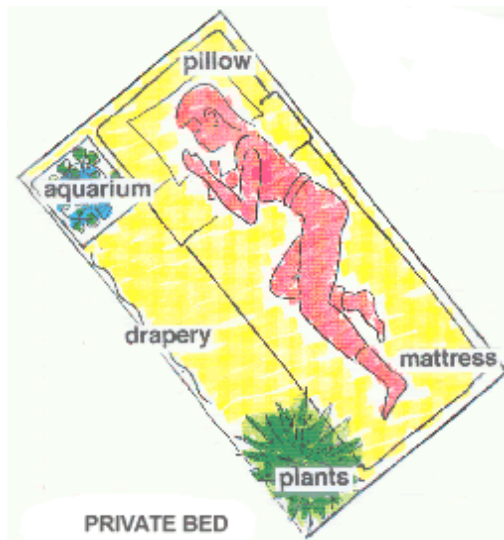
Bengt Warne

Conflicts can not be solved by force, when individuals and peoples have access to terrible technologies and overkill capacity, anywhere. Consensus between Man and Man is the only way to change hostile attitudes into partnership - also between Man and Nature.

There is an abundance of endless resources around us. If they are shared and used in a wise and creative way, there is space enough for 6-10 billion citizens to live in peace and harmony. But private and public human right must be developed, as well as duty, and new ideas about human ecology must be discussed. We have to take care of what we already have.

Most housing is good enough to be renovated. Models given below might inspire others to feel, think and plan systematically, sensitively and creatively on their own different dimensions.

1. ECO-NOOK on an individual dimension



Ecologized urban den for 1 citizen, resting on 1 m² Personal territory with individual belongings at hand. In order to rest and sleep well, we need space, security, silence, shades and mild fresh air at 18-27 C temperature and 45-70 % humidity.

The bed should be made by natural materials like wood, cotton, linen... The private corner must be personal, stimulating, inviting and

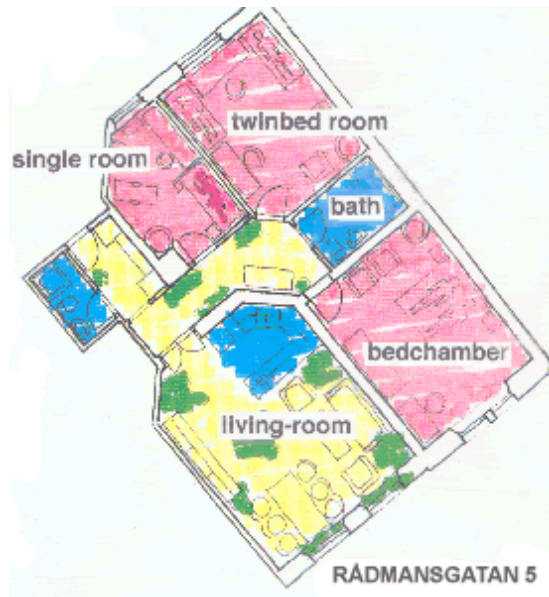
beautiful. Artefacts, light, green plants, aquarium can help. Ability to live in an inspiring, emerging harmony between Man and Nature comes from everyone's integrity, maturity, empathy and sensuality. A den should be ruled by its inhabitant and nobody else. This is an individual human right, also to choose or leave a household. But any right is connected to a duty to Society and Nature.

2. ECO-HOME on a family dimension

Ecologized urban flat for about 5 citizens per 100 m², accessible also by disabled.

About half the area for family green-rooms, kitchen and bath - half for private eco-rooms on about 10 m² per citizen.

A normal household functions well for 5 members. More than 12 can lead to rivalling groups and also despotism. Less than 3 can reduce the positive effects of sharing work and assets.



Bedrooms should be ruled over by their inhabitants, but common areas like entrance, living-room, kitchen and bathroom should be ruled over by the household in consensus. It is a family human right, also to choose or leave a condominium.

Solid waste should be recycled through a local composter and grey-water by in-door plants. Ceramic tiles can be ideal for kitchen and bath, as well as linoleum or wooden floors for other rooms. Chalk-white ceilings and walls reflect light and make plants and people happy.

3. ECO-BLOCK on a neighbourhood dimension



Ecologized urban condominium for about 125 citizens per 10,000 m², accessible by wheel-chair. Half the area is used for public purposes, ponds, lawns and trees - half for approximately 5 bio-plots for about 25 citizens per 1.000 m².

People who live in a neighbourhood know their environment better than any expert or politician from outside. Decisions should be made in the smallest possible dimension by

the citizens themselves, according to laws of subsidiarity. This is a neighbour's human right, also to choose or leave a municipium. All children should be able to enjoy the lively parts of the their yard and the elderly should be respected in the calmer parts. Walls should be greened up by climbers, the ground by aquaculture on hills, the roofs by solar winter gardens, fitted with solar cells for electricity and heating/cooling. The block should be made more independent by use of waste and sewage, recycled directly at its source.

4. ECO-VILLAGE on a municipal dimension

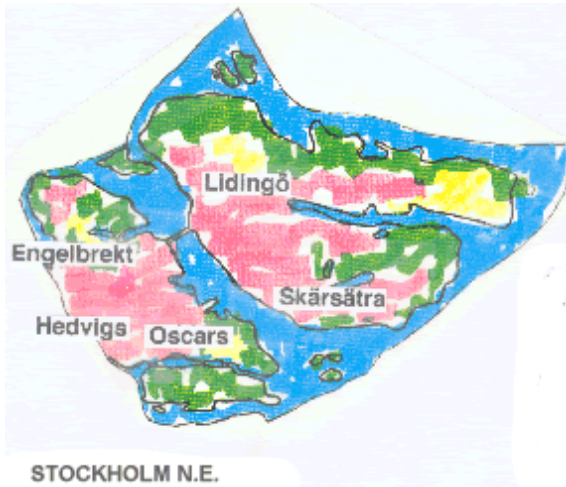
Ecologized urban borough for about 3,000 citizens per 1 km², all accessible in 20 minutes by pedestrians at 3 km/h. Half the area for ponds, groves and meads - half for eco-hamlets with 600 citizens per 100,000 m², accessible in 20 minutes even by a rollator at 1 km/h. The antique Greek municipal towns functioned very well as independent states. Some thousand citizens lived by horticulture and trade on a km². in a pólis. Their democracy and system was later destroyed by force, but the model should be used again for local administration and prosperity. This is a municipal human right, also to choose or leave a township.



Local services should be accessible within walking distance - school, arena, auditorium, bath, park, shops, IT-café, green-houses, allotment gardens, bus-stops...

Natural stripes for small animals, fish, birds and insects should have access, functioning as ecoducts into larger wildlife reserves and habitats. Local money and local taxing in consensus might work.

5. ECO-CITY on a local council dimension



Ecologized urban township for about 80,000 citizens per 100 km², accessible in 20 minutes by bus or tram at 30 km/h. Half the area for lakes, copses and farms - half for eco-towns with about 15,000 citizens per 10 km², accessible in 20 minutes by bicycle at 10 km/h.

Renaissance Florence functioned extremely well as a city state, until the growing traffic blocked it with single vehicles. That is why Leonardo da Vinci invented the omnibus, horse-driven at that time. About 80,000 citizens could live well again in their city state on 100 km² with agro-forestry, local industry and - above all - trade.

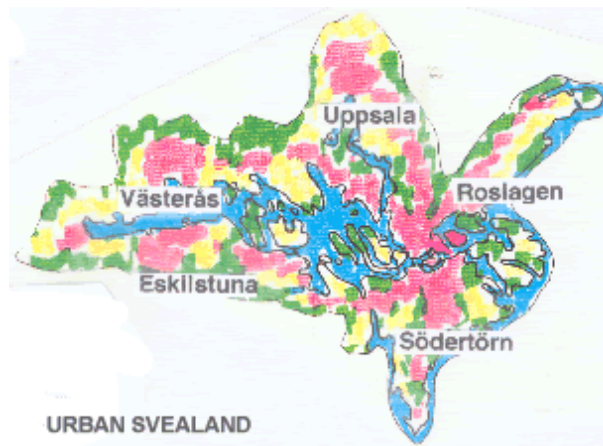
Modern suburbs and urban townships should also be administered in this way and dimension, but be ruled democratically in a municipal consensus. It is a human right at the local council level, also to choose or leave a state or province.

Metro stations and paths for bicycles should have the most comfortable connection to buses and trams. Full city service could thereby be close and satisfactory to all citizens, not using private cars.

Wildlife ecoducts should be restored for salmon, deer, partridge, etc.

6. ECO-REGIOPOL on a provincial dimension

Ecologized urban region for about 2 million citizens per 10,000 km², accessible in 20 minutes by train at 300 km/h. Half the area for waters, woods and fields - half for approximately 5 eco-metropolis for about 400,000 citizens on 1,000 km², accessible in 20 minutes by high-speed metro at 100 km/h.



Rome and other ancient metropolis with some million citizens could not function without supporting empires. Ecological violence and social injustice caused decline and fall. Modern metropolis go the

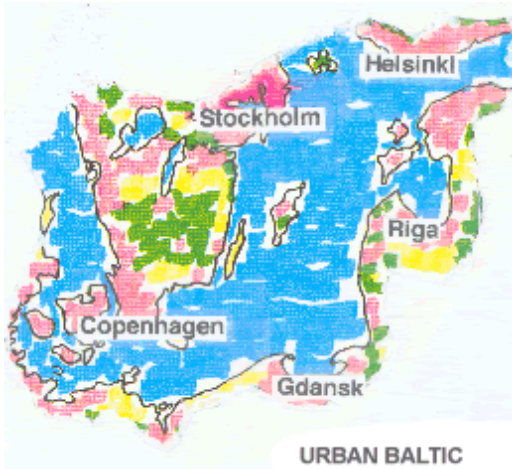
same way, even if modern technology and economy can maintain millions of people on a thousand times smaller territory.

It is important to be as self-supporting as possible and thereby be independent from severely polluting and land-consuming transports. This is a regional human right, also to choose or leave a federation. Consumption and production should be near one another, together with first class universities, hospitals, performances, etc.

Starfish planning should lead viaducts, aqueducts, silvaducts and agroducts between integrated settlements, water-sheds, wood-lands and fields.

Wildlife with moose, seal, eagle, etc. need ecoducts between their reserves for survival.

7. ECO-MEGAPOL on a conurbation dimension



Ecologized urban federation for about 50 million citizens per 1 million km², accessible by future supersonics at 3,000 km/h. Half the area for sea, forests and plains - half for approximately 5 eco-aeropols for about 10 million citizens per 100,000 km², accessible by airlines at 1,000 km/h.

The Hansa was a successful union of self-governing cities from medieval times into the renaissance. Most transports went by sailing vessels on the Baltic.

Environmentally friendly projects have started again, connecting high-speed ferries to railways and airports. Resource-saving aeroplanes and air-ships could be developed and propelled by solar and fuel cells.

The Baltic is a unique biotope, which has to be saved from polluted air and contaminating rivers. Within the European Union, it should have an administration of its own. This is a federal human right, also to choose or leave a continental organisation. Tokyo/Osaka, Washington/NY/Boston and London/Liverpool have dimensions like megalopolis.

8. ECO-COSMOPOL on a continental dimension

Ecologized urban realms for about 1.2 billion citizens per 100 million km², accessible by future space-ships. Half the area for ocean, taiga and grazing land - half for eco-geopols for about 250 million citizens per 10 million km², accessible by future space-ferries to satellites.



Eco-realms are surrounded by natural barriers, protecting and creating endogen races/species. Oceans, deserts, vast forests and mountain chains divided long ago even people into black, brown, red, yellow and white, because of prehistoric adaptiveness to climates. But skin colour lost its importance, when new technologies made it possible to live and travel everywhere, also in outer Space.

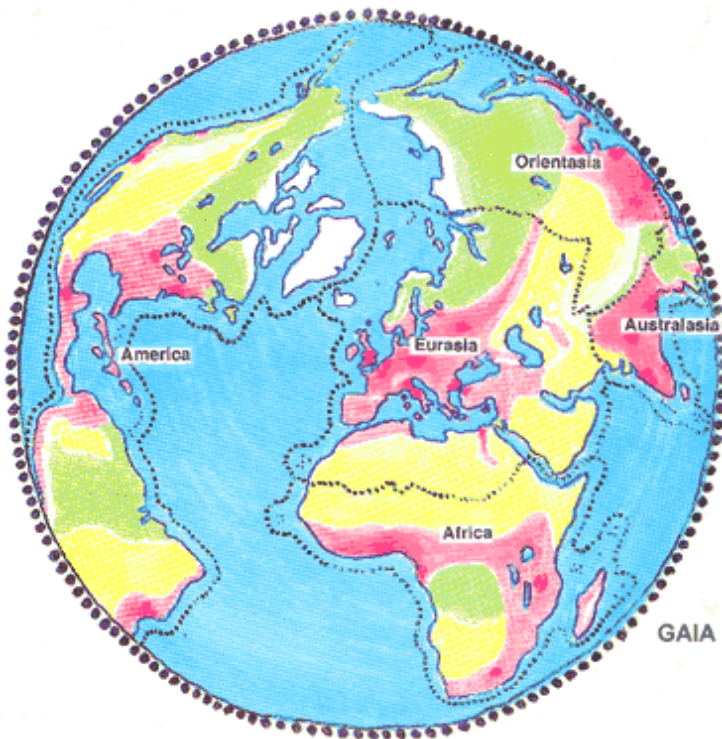
Individuals and peoples should be able to live in peace in their own way in any place, as long as they respect other individuals and

peoples.

This is a continental human right, also to choose or leave any global organisation.

9. ECO-GIGAPOL on a global dimension

Ecologized urban planet for 6 billion citizens on a 500 million km² dimension. 5 eco-cosmopolis with about 1,200 million citizens per 100 million km² should lead the UN Security Council in a more sharing, democratic way and administrate the unavoidable renovation of all our biosphere. Global taxation is fair and realistic, when it is based on rights agreed in consensus to use the ocean, sky or space around the continents.



Any utopia, based on static truths, will capsize - sooner or later. Ideas, religions, politics, economies and ecological philosophies have to be dynamic, like Life itself. Utopias should only be used for dynamic inspiration, never for stiff rules and formal attitudes.

Technical implementation should be inspired by biology, biological implementation by empathy, emphatic implementation by spirituality. We must free personal and social spirituality to construct new good instruments to both improve our Society and share with Nature. This is a global human right and duty - also to start, choose, affect and leave non-govern-mental organisations on any dimension.