

Dimensions of

Sustainable Development

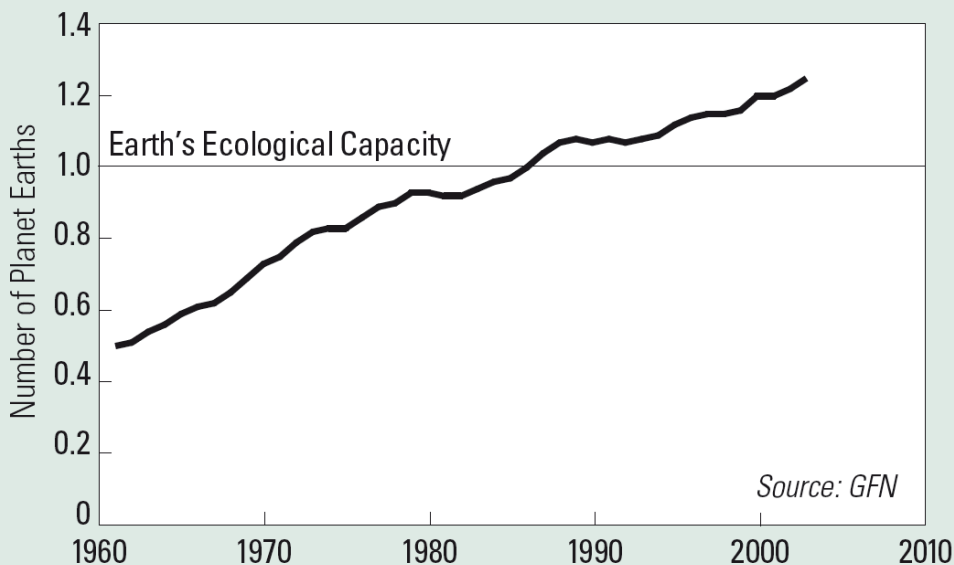
Sustainable Development – what is it about?

- natural ecosystems = sustainable system

SD – to live and thrive within the Earth's ecological capacity

*„SD is a complex **set of strategies** that makes possible to meet **people's social needs**, both material and spiritual, by using right **economic instruments**, while respecting **environmental limits**.“*

Figure 3. Humanity's Ecological Footprint, 1961–2003



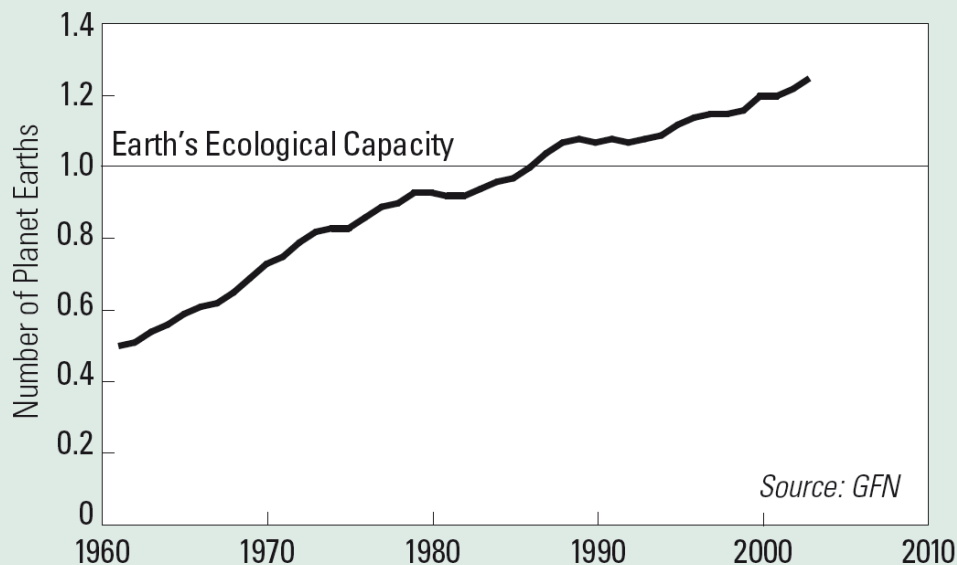
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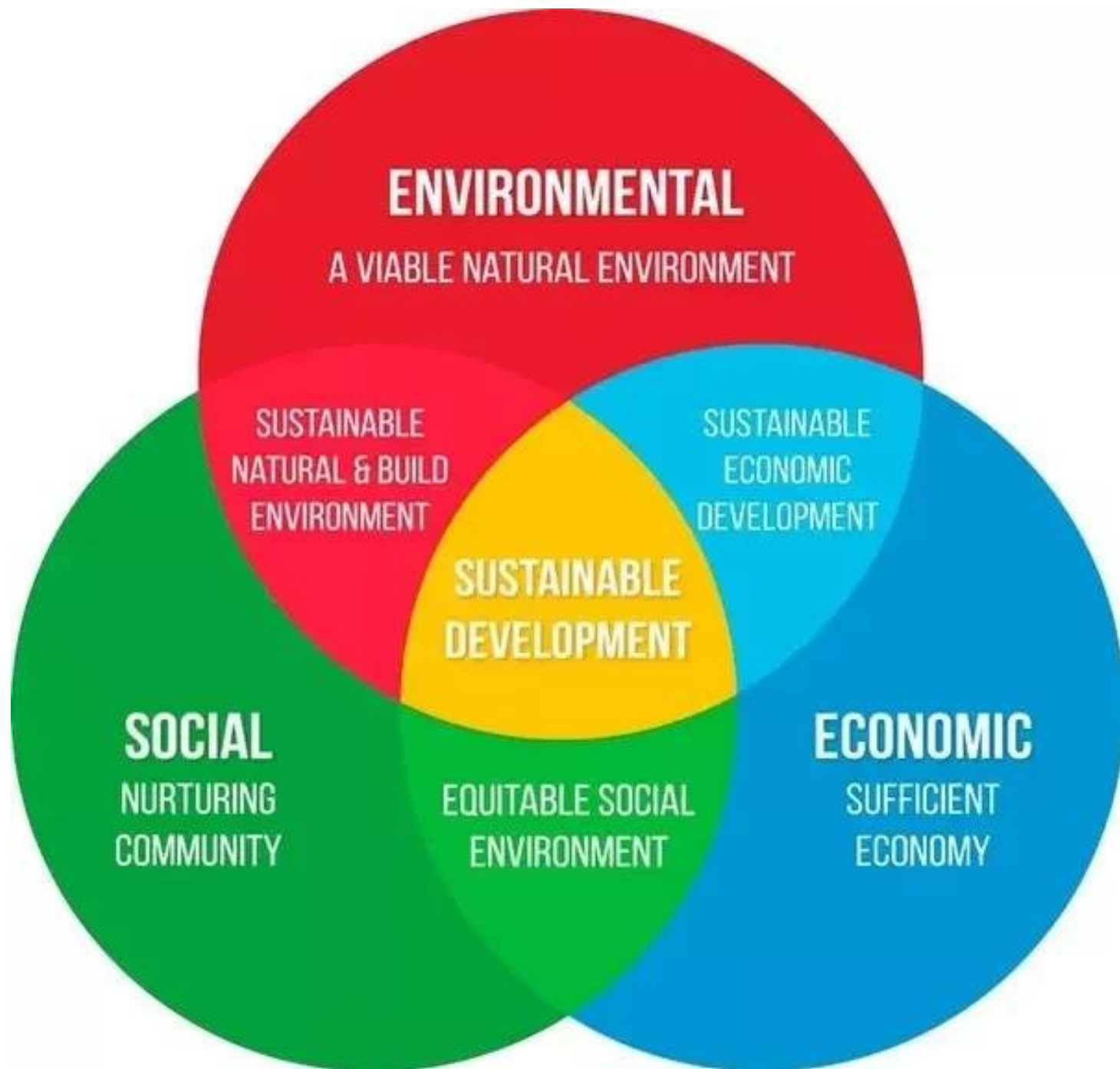
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Figure 3. Humanity's Ecological Footprint, 1961–2003





What are the three main pillars of sustainable development/sustainable society?

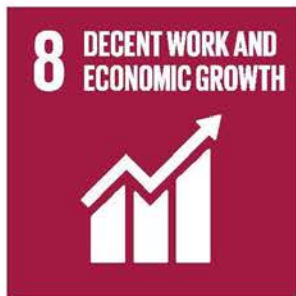




Scope of Sustainable Development as defined by the United Nations


Agriculture	Consumption & Production Patterns	Finance	Industry	Land Management	Sanitation	Trade and Environment
Atmosphere	Demographics	Forests	Information for Decision Making & Participation	Major Groups	Science	Transport
Biodiversity	Desertification and Drought	Fresh Water	Integrated Decision Making	Mountains	Small Islands	Waste (Hazardous)
Biotechnology	Disaster Reduction & Management	Health	International Law	National Sustainable Development Strategies	Sustainable Tourism	Waste (Radioactive)
Capacity-Building	Education and Awareness	Human Settlements	International Cooperation for Enabling Environment	Oceans and Seas	Technology	Waste (Solid)
Climate Change	Energy	Indicators	Institutional Arrangements	Poverty	Toxic Chemicals	Water

Sustainable Development Goals (2015 – 2030)





Goals, targets and indicators

Goal description	Target	Description	Indicator
<p>1</p>  <p>End poverty in all its forms everywhere.</p>	1.1	By 2030, eradicate extreme poverty for all people everywhere, currently measured as people living on less than \$1.25 a day.	1.1.1 Proportion of the population living below the international poverty line by sex, age, employment status and geographic location (urban/rural)
	1.2	By 2030, reduce at least by half the proportion of men, women and children of all ages living in poverty in all its dimensions according to national definitions.	1.2.1 Proportion of population living below the national poverty line, by sex and age
		By 2030, reduce at least by half the proportion of men, women and children of all ages living in poverty in all its dimensions according to national definitions.	1.2.2 Proportion of men, women and children of all ages living in poverty in all its dimensions according to national definitions
	1.3	Implement nationally appropriate social protection systems and measures for all, including floors, and by 2030 achieve substantial coverage of the poor and the vulnerable.	1.3.1 Proportion of population covered by social protection floors/systems, by sex, distinguishing children, unemployed persons, older persons, persons with disabilities, pregnant women, newborns, work injury victims, and the poor and the vulnerable
	1.4	By 2030, ensure that all men and women, in particular the poor and the vulnerable, have equal rights to economic resources, as well as access to basic services, ownership and control over land and other forms of property, inheritance, natural resources, appropriate new technology and financial services, including microfinance.	1.4.1 Proportion of population living in households with access to basic services
		By 2030, ensure that all men and women, in particular the poor and the vulnerable, have equal rights to economic resources, as well as access to basic services, ownership and control over land and other forms of property, inheritance, natural resources, appropriate new technology and financial services, including microfinance.	1.4.2 Proportion of total adult population with secure tenure rights to land, (a) with legally recognized documentation, and (b) who perceive their rights to land as secure, by sex and type of tenure

Sustainable Development Goals (2015 – 2030)





11



Make cities and human settlements inclusive, safe, resilient and sustainable.

11.1	By 2030, ensure access for all to adequate, safe and affordable housing and basic services and upgrade slums.	11.1.1 Proportion of urban population living in slums, informal settlements or inadequate housing
11.2	By 2030, provide access to safe, affordable, accessible and sustainable transport systems for all, improving road safety, notably by expanding public transport, with special attention to the needs of those in vulnerable situations, women, children, persons with disabilities and older persons.	11.2.1 Proportion of the population that has convenient access to public transport, by sex, age and persons with disabilities
11.3	By 2030, enhance inclusive and sustainable urbanization and capacity for participatory, integrated and sustainable human settlement planning and management in all countries.	11.3.1 Ratio of land consumption rate to population growth rate
	By 2030, enhance inclusive and sustainable urbanization and capacity for participatory, integrated and sustainable human settlement planning and management in all countries.	11.3.2 Proportion of cities with a direct participation structure of civil society in urban planning and management that operate regularly and democratically
11.4	Strengthen efforts to protect and safeguard the world's cultural and natural heritage.	11.4.1 Total per capita expenditure on the preservation, protection and conservation of all cultural and natural heritage, by source of funding (public, private), type of heritage (cultural, natural) and level of government (national, regional, and local/municipal)
11.5	By 2030, significantly reduce the number of deaths and the number of people affected and substantially decrease the economic losses relative to gross domestic product caused by disasters, including water-related disasters, with a focus on protecting the poor and people in vulnerable situations.	11.5.2 Direct economic loss in relation to global GDP, damage to critical infrastructure and number of disruptions to basic services, attributed to disasters
	By 2030, significantly reduce the number of deaths and the number of people affected and substantially decrease the economic losses relative to gross domestic product caused by disasters, including water-related disasters, with a focus on protecting the poor and people in vulnerable situations.	11.5.1 Number of deaths, missing persons and directly affected persons attributed to disasters per 100,000 population
11.6	By 2030, reduce the adverse per capita environmental impact of cities, including by	11.6.1 Proportion of municipal solid waste collected and managed



WELL CONNECTED

The transport facilities, including public transport, help people to travel within and between communities and reduce dependence on cars. There are facilities to encourage safe local walking and cycling.

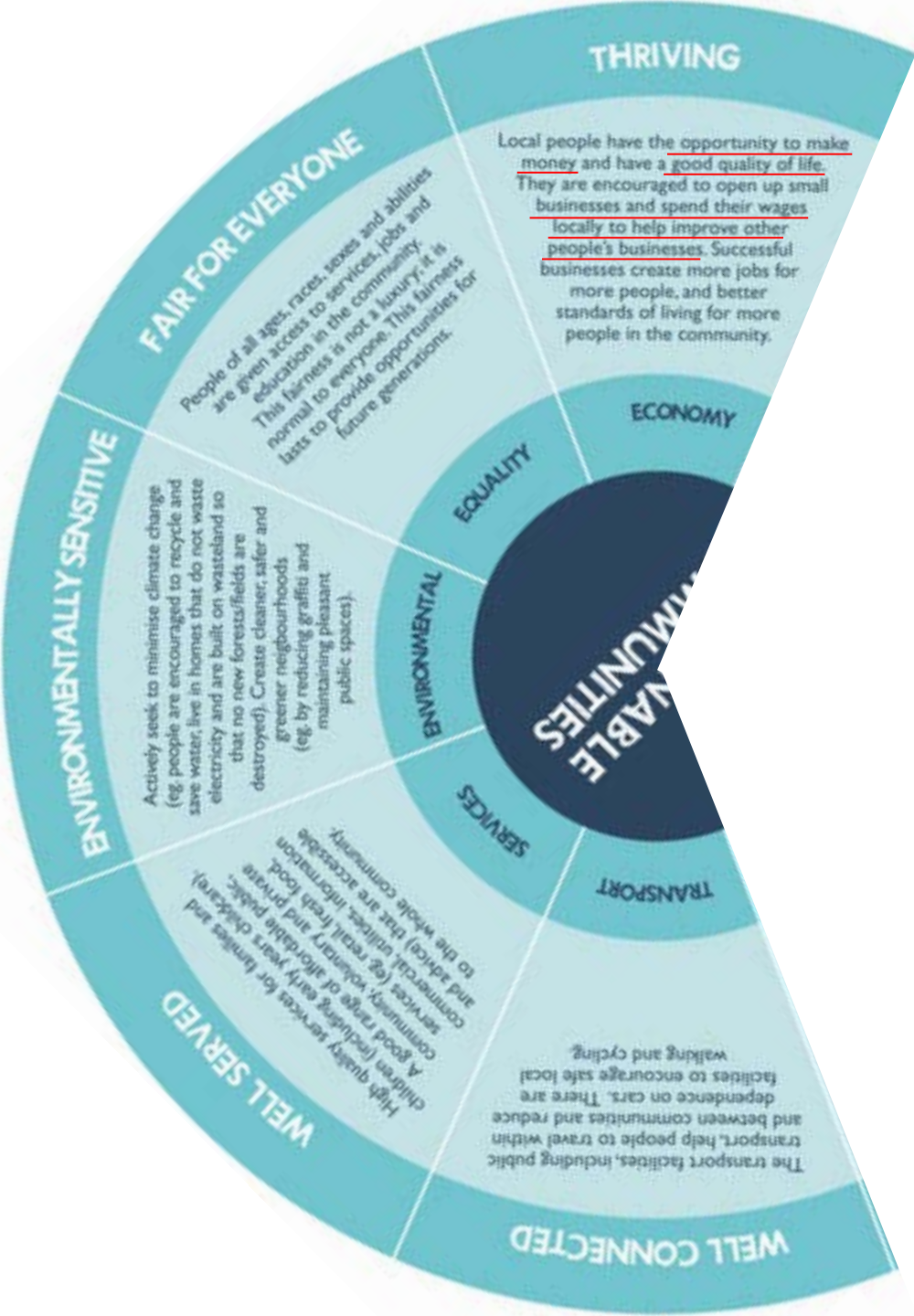
TRANSPORT

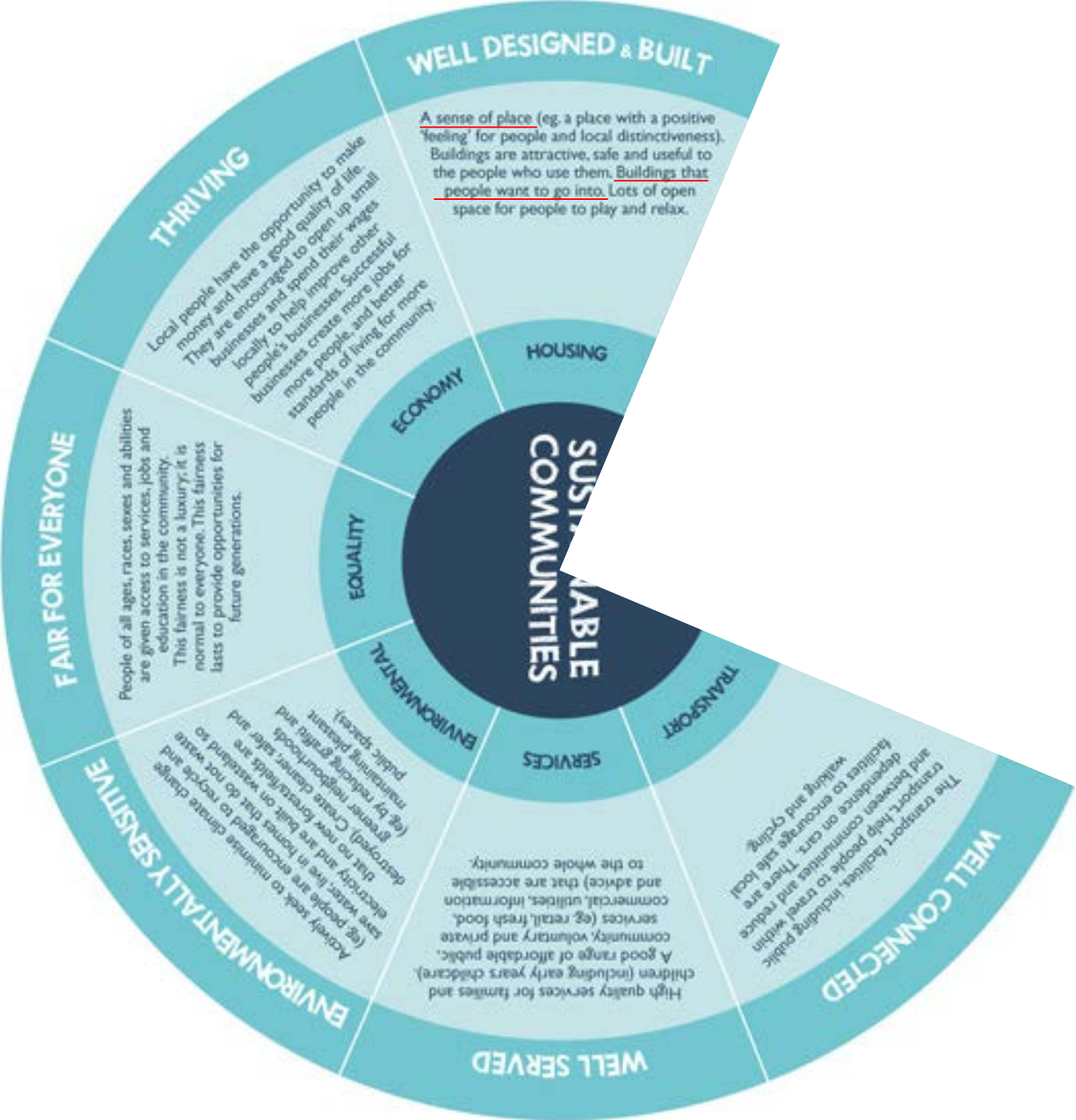
WAP

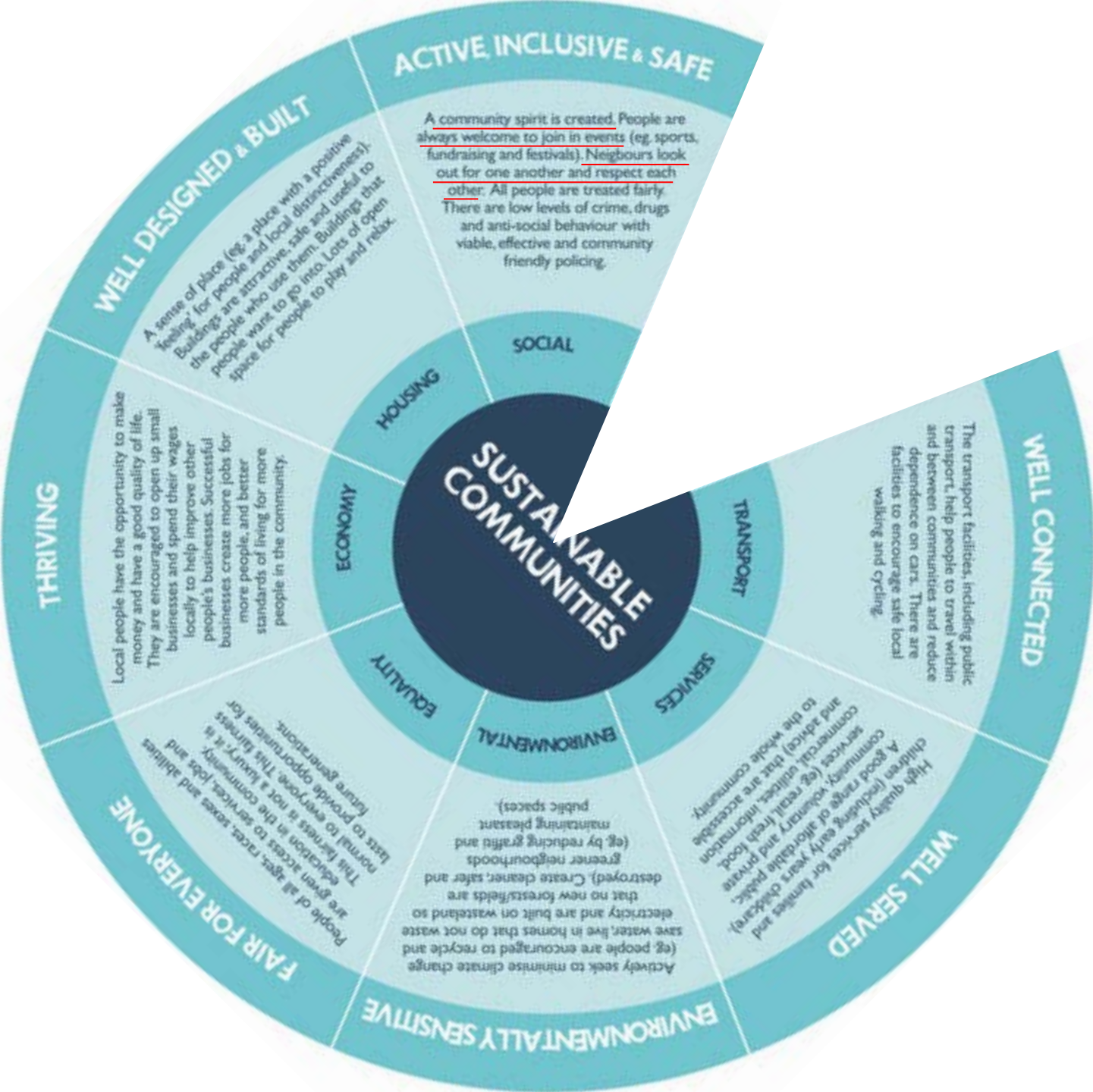
















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Sustainable Development Goals (2015 – 2030)



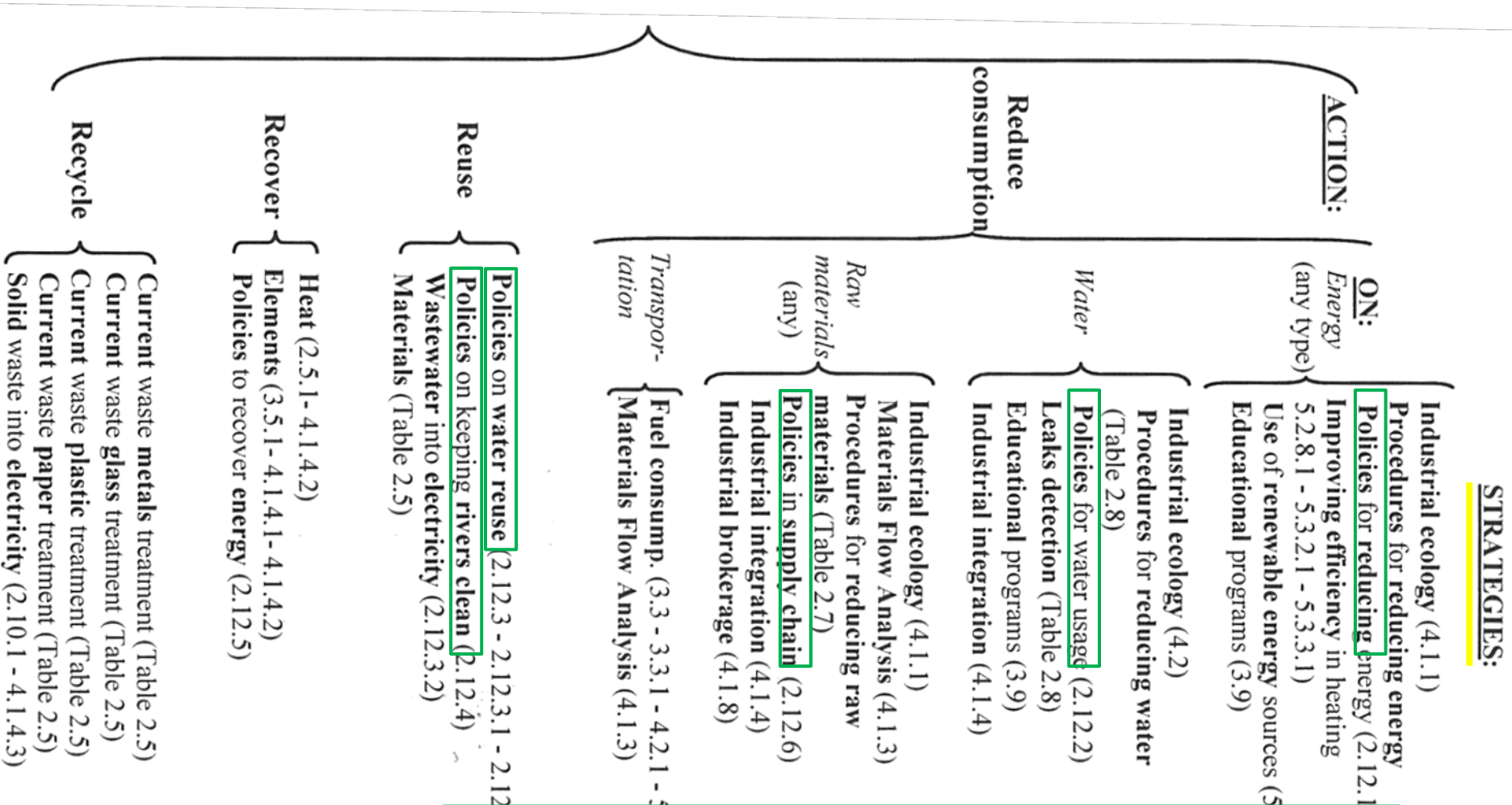


How to decrease the energetic or material consumption?

Decrease energetic/material consumption

How to reach?

- 4R rule: **Reduce – Reuse – Recover – Recycle**

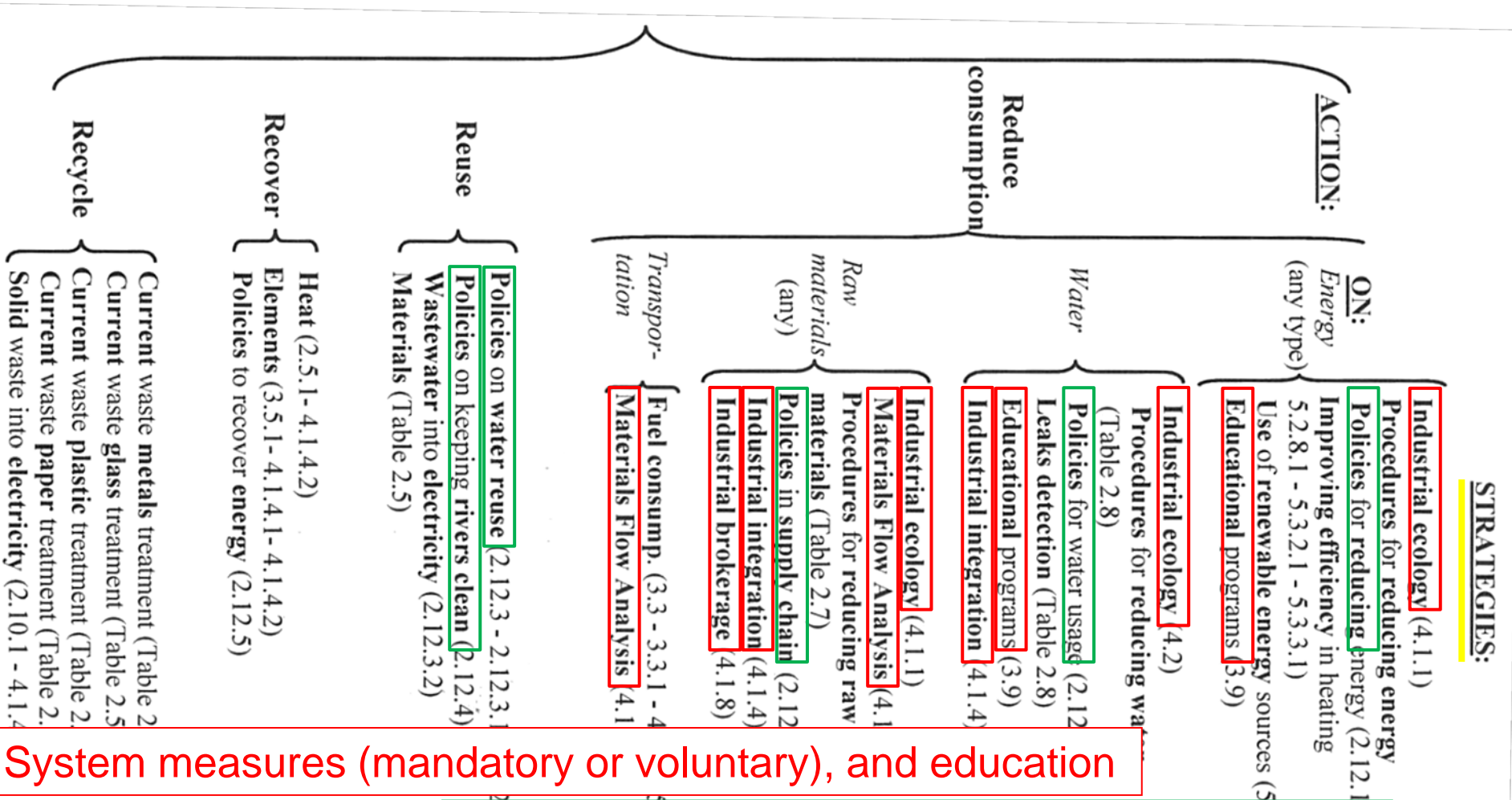


State policy (mandatory or voluntary measures)

Decrease energetic/material consumption

How to reach?

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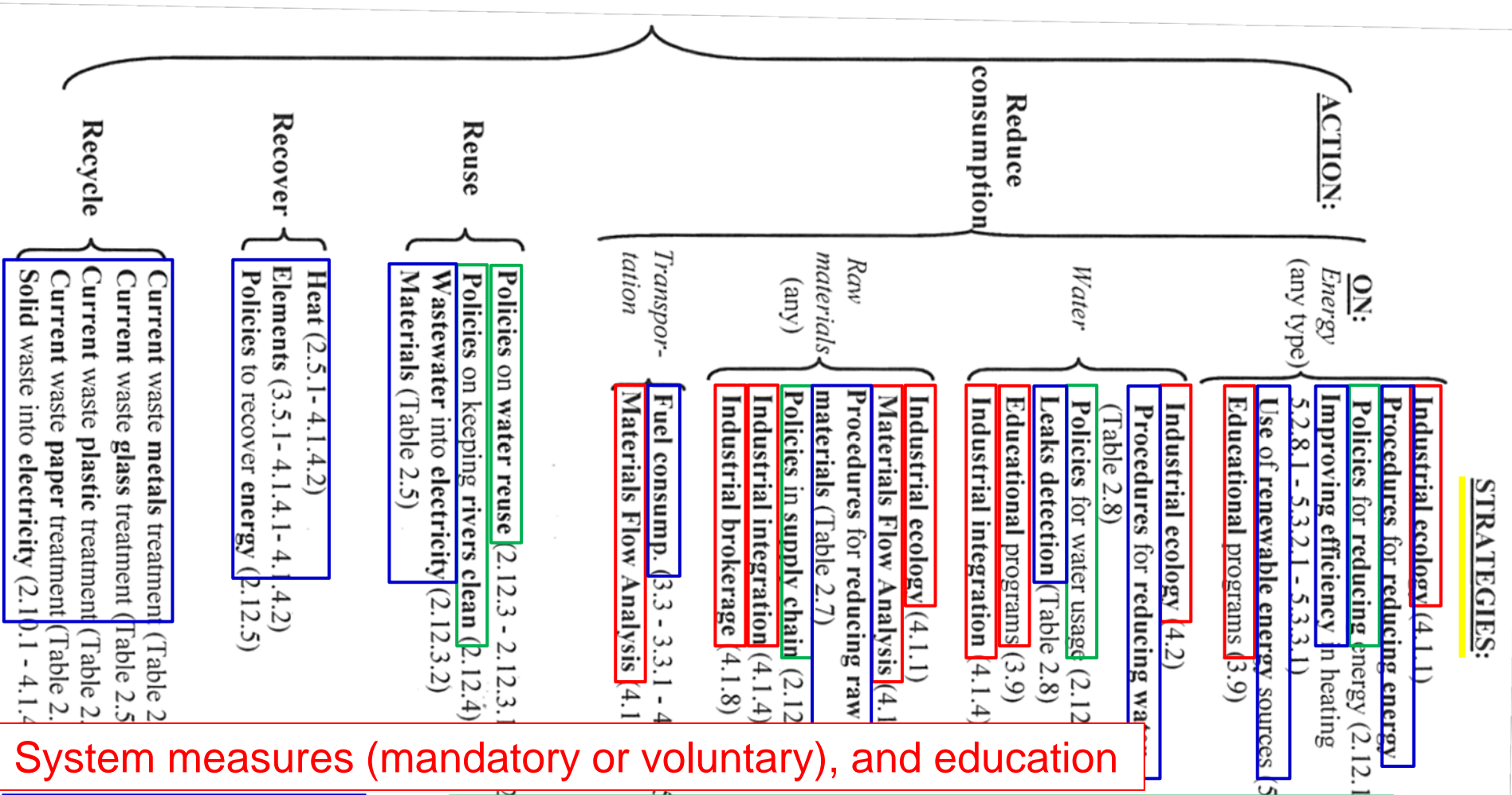
System measures (mandatory or voluntary), and education

State policy (mandatory or voluntary measures)

Decrease energetic/material consumption

How to reach?

- 4R rule: **Reduce – Reuse – Recover – Recycle**



STRATEGIES:

System measures (mandatory or voluntary), and education

Specific solutions

State policy (mandatory or voluntary measures)

Reduce

- Reduction of total material consumption while maintaining or increase the product quality.



How to reduce energy consumption?

Reduction of **E** consumption (legislation x money)

- 1) Support a research of renewables
- 2) Appropriate subsidy support for the use of renewable energy sources in suitable areas (biomass, solar, wind)
- 3) Support for the nuclear fusion research
- 4) Regulation of the E intensity of buildings
 - in the EU, about 40% of E is spent for heating of buildings!
- 5) Promote energy-saving lighting, and turning off
- 6) Install solar panels on public buildings and subsidize its support for private use
- 7) Sanction the lighting in public buildings overnight or on weekends

PRŮKAZ ENERGETICKE NÁROČNOSTI BUDOVY				
Typ budovy, místní označení Adresa budovy			Hodnocení budovy stávající doporučen	
VELMI ÚSPORNÁ				
0,30	A			
0,60	B			X,Y,Z
1,00	C		X,Y,Z	
1,50	D			
2,00	E			
3,00	F			
	G			
MIMORÁDNĚ NEHOSPODÁRNÁ				
Celková vypočtená roční dodaná energie v GJ			XY	XY
Měrná vypočtená roční spotřeba energie v kWh/m ²			XY	XY
Vytápění	Chlazení	Větrání	Teplá voda	Osvětlení
XY%	XY%	XY%	XY%	XY%
Platnost průkazu		DD.MM.RRRR		
Průkaz vypracoval		Jméno a příjmení Osvědčení: XY		



How to reduce water consumption?



Reduce **water** consumption (legislation x money)

- 1) Promote water saving measures
 - 2) Install water meters in households (not flat rate)
 - 3) Determine the limit for water losses in the distribution system
 - Brno 1989 - 25% of drinking water leaked into the ground, 16% now
 - 1) Mulch in parks = retaining moisture without sprinkling
 - 2) Legislative measures for water recycling in industry
 - 3) Recycle „grey water“ for flushing in hotels, offices, homes
 - 4) In the case of water transport from remote places, minimize losses by evaporation
 - 5) Use BAT in various productions
 - 6) Saving faucets and shower-heads
 - 7) Reward ideas of employees
- how to manage water efficiently

Water consumption in steelworks
China – 23-56 m³ /t of steel
USA – 6 m³ /t of steel

Water consumption in paper mills
1900 – 1t water / kg of paper
1990 – 64 kg / kg
1995 – 1.5 kg / kg
- re-use of „waste“ water



How to reduce raw materials consumption?

Reduce **raw materials** consumption

- 1) Biological waste composting
- 2) Eliminate the amount of packaging material
- 3) Replace disposable plastic bags with durable cloth ones
- 4) Donate usable unnecessary goods to charity (clothing, electronics, furniture, building materials, etc.)



The screenshot shows the website for 'ARMÁDA SPÁSY'. The top navigation bar includes links for 'Úvod', 'Co děláme', 'O nás', 'Pro média', 'Partneři', and a red button 'Jak podpořit Armádu spásy'. Below this is a list of branches: 'POBOČKY Brno Praha Ostrava Havlíkov Krnov Opava Karlovy Vary Šumperk Píerov Jirkov Národní ústředí'. The main content area features a photo of four children and the heading 'Materiální / věcné dary'. A red link 'Zpět na možnosti podpory' is visible. The text on the page reads: 'Máte doma obnošené staré věci nebo starý nábytek a nevíte co s tím? Jednou z přijemných možností je darovat tyto věci a pomoci tak druhým.' Below this is a paragraph: 'Naší jedinou podmínkou pro příjem oblečení je, aby bylo čisté a funkční. Dětské oblečení a hračky mohou pomoci a udělat radost například v azylových domech pro matky s dětmi nebo na komunitních centrech pro rodiny s dětmi, pánské a dámské využijeme zase v azylových domech pro muže a ženy. Mimo jiné přijímáme například peřiny, polštáře, povlečení, deky, nádobí, matrace, hygienické prostředky.' Another paragraph says: 'Chcete přispět i jiné věci, které nejsou v seznamu? Nevadí. Kontaktujte nás. V každém z azylových domů a komunitních center jsou jiné potřeby. Co je pro vás nepotřebné, může být pro jiné nezbytné.' At the bottom, it says 'Kontakty na jednotlivá střediska zde'. On the right side, there is a box for 'Číslo dárcovského účtu: ČSOB 475335613/0300' and a donation form with buttons for '100 Kč', '300 Kč', '500 Kč', '1000 Kč', and 'Darovat', along with a 'nebo' option. At the very bottom right is the logo and slogan 'Srdce Bohu, ruce lidem.'



How to reduce a traffic load in the cities?

Reduction of traffic load

- I) Increas the share of people in public transport
- PT must be attractive enough for people
 - clean, accurate, comfortable, financially interesting

Project CiViTas (Clty-VITAlity-Sustainability)

Aims of this EU projects:

- promote the introduction of clean and energy efficient PT
- promote the development of the industrial sector in the field of PT

Public transport in Curitiba (Brasil)

- *Bus rapid transit*
- improved bus transport combining bus flexibility and quality of trains/trams with priority in driving
- long buses have special lanes reserved
- frequent ride, uniform fares everywhere
- inspiration for many other South American cities



II) Taxi, rental shops, carsharing

- **basic idea** – cars are used on average 1 hour a day, 23 hours stand
- **taxi** - should be affordable, good quality with a good reputation
- **car rental** - suitable for occasional car rental according to our wishes
- **carsharing** - it is necessary to create a car association, which buys cars and then the cars of the association borrow cars for travel costs
- it is said to pay off for anyone who drives less than 10,000 km a year

autonapůl
první český carsharing

O celé sdružení se stará tříčlenné Prezídium, o jednotlivá auta jejich patroni – členové, kteří za symbolickou odměnu dohlížejí na to, aby vozy byly v pořádku, měly kompletní povinnou výbavu, správné pneumatiky v zimě i v létě...



III) Cycling, walking

- use of cycling is limited by the passability of cities, lanes for cyclists, parking



Reuse

- Use an item or material without changing its chemical composition for the purpose for which it was originally intended.

Reuse of raw materials / products

Water

- introduction of methods for drying sludge by compression between sieves (WWTP, slurry, industrial) or reverse osmosis

Resources

- reuse of lead and sulfuric acid from car-acumulators

Second-hands

- clothes
- toys
- ...



mimibazar.cz
ZA PÁR KAČEK SPOUSTA
OBLEČKŮ A HRAČEK

podívejte se na končící aukce co je nového v e-shopech často kladené

Recover

- Recover – obtaining material or energy from waste.

Recovery

Energy

- cogeneration production of heat and electricity
- incineration of suitable waste (tires) in modern power plants / heating plants or cement plants to obtain heat / electricity
- *eg. Göteborg - 60% energy supplied (electricity and heat) from unconventional sources heat: waste incinerator (largest in Europe) + Shell refinery + heat pumps from WWTP + testing of Volvo engines + from the Chalmers fluidized bed boiler research facility electricity: biofuels and wind farms*

Materials

- use of gypsum from SO_2 from the combustion of fossil fuels
- production of gypsum boards



Recycle

- Reuse of material for the same or a similar purpose, or for the manufacture of another product
- Generally, the smallest reduction in materials/E consumption, the recycling process is often expensive.

MÁ TO SMYSL, TŘÍDTE ODPAD!

DO PAPIRU PATŘÍ:

- noviny, časopisy
- kancelářský papír
- reklamní letáky
- knihy, sešity, krabice
- lepenka, kartón
- papírové obaly (např. sáčky)

DO SKLA PATŘÍ:

- láhve od nápojů
- skleněné nádoby
- skleněné střepy -
tabulové sklo

DO NÁPOJOVÝCH KARTONŮ PATŘÍ:

- nápojové „krabice“ od džusů,
mléka a mléčných výrobků,
vín, rajského protlaku,
hotových omáček apod.

DO PLASTŮ PATŘÍ:

- PET láhve od nápojů
(prosím, nezapomeňte
je sešlápnout!)
- kelímky, sáčky, fólie
- výrobky a obaly z plastů
- polystyrén

PAPÍR



SKLO



NÁPOJOVÉ
KARTONY



PLASTY



Prosím, nevhazujte:

- mokrý, mastný nebo jinak
znečištěný papír
- uhlový a voskovaný papír
- použité plenky
a hygienické potřeby

Prosím, nevhazujte:

- keramiku
- porcelán
- autosklo
- drátěné sklo
- zrcadla

Prosím, nevhazujte:

- nápojové kartony znečištěné
zbytky potravin (pokud je
vypláchnete vodou
a zmáčknete, pak je můžete
vhodit do kontejneru
na nápojové kartony)

Prosím, nevhazujte:

- novodurové trubky
- obaly od nebezpečných látek
(motorové oleje, chemikálie,
barvy apod.)

Limits of technological solutions

- The technological „solutions“ of environmental issues are popular because it does not require significant changes in people's lifestyles and is not contrary to the idea of economy growth
- **but it is not enough to achieve SD!**

Example - cars

- new cars emit significantly **fewer toxic substances** and CO₂
- according to LCA - much more environmentally friendly



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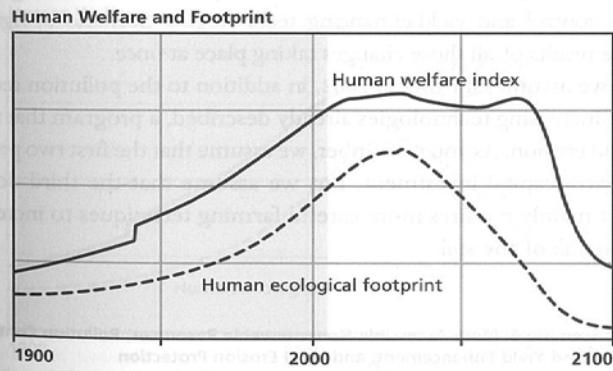
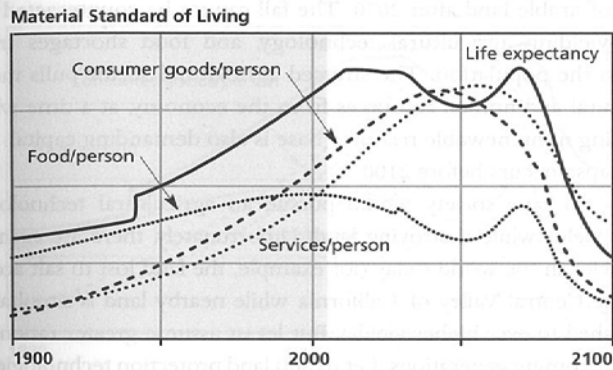
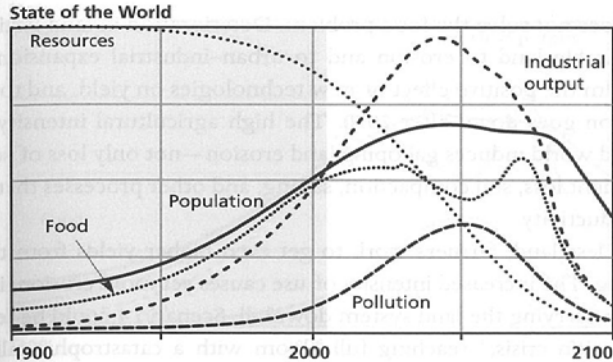
Other issues related to motoring persists!!!

- affecting the environment by **noise and vibration**
 - affecting the landscape and organisms by construction and presence of **transport infrastructure**
 - roads (motorways), divide the landscape and complicate/disable movement in the cultural landscape (migrating species, people)
 - risk of **accidents** (wildlife or other road users)
 - issues of motoring in cities
- traffic jams, parking spaces, pedestrian and cycling restrictions



We have to count all pros x cons

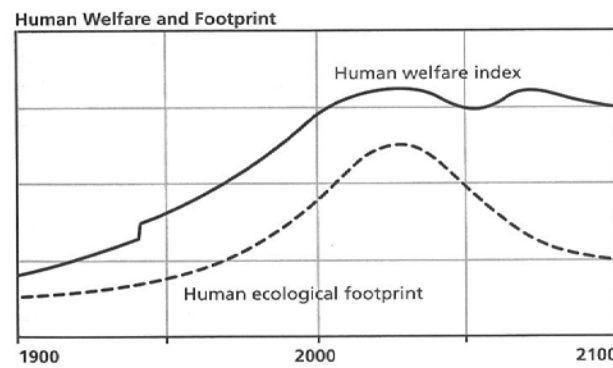
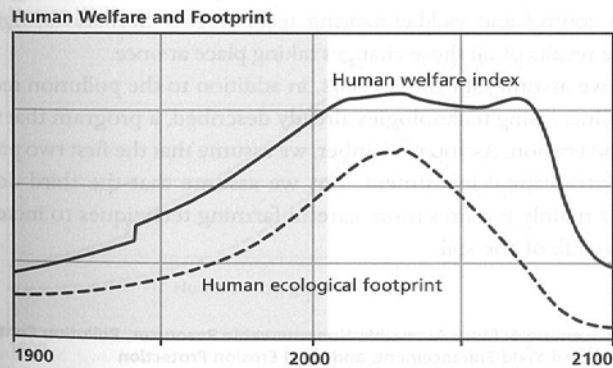
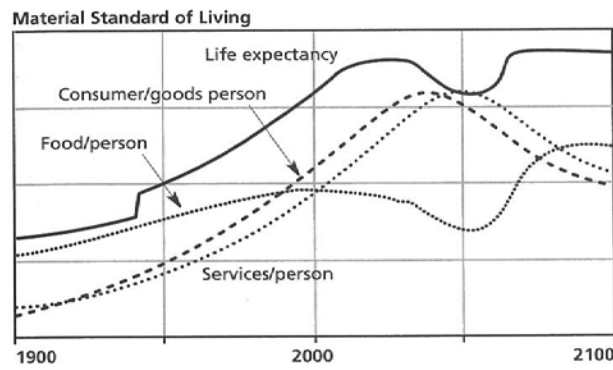
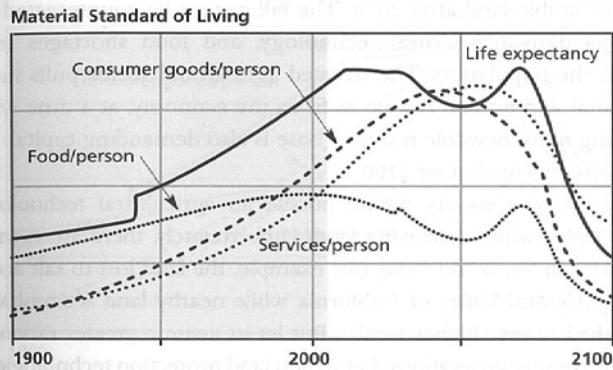
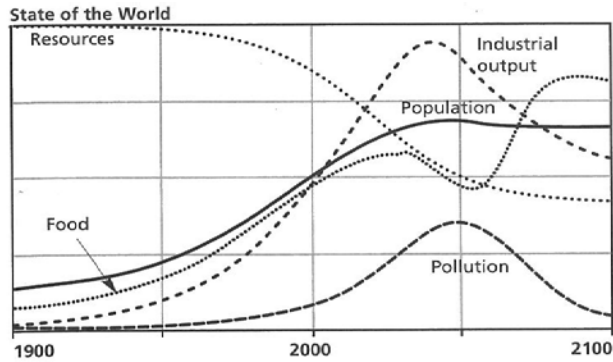
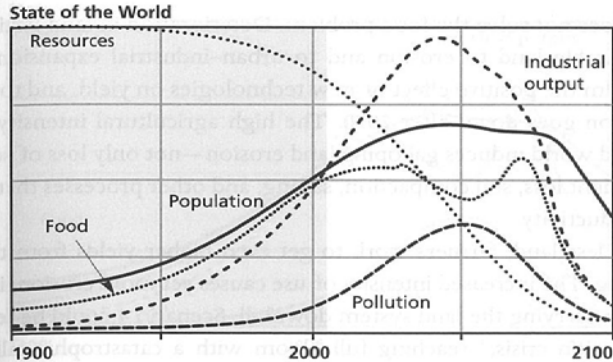
Limits of technological solutions



Scenario 4

Technologies eliminating pollution
Technologies increasing soil quality

Limits of technological solutions



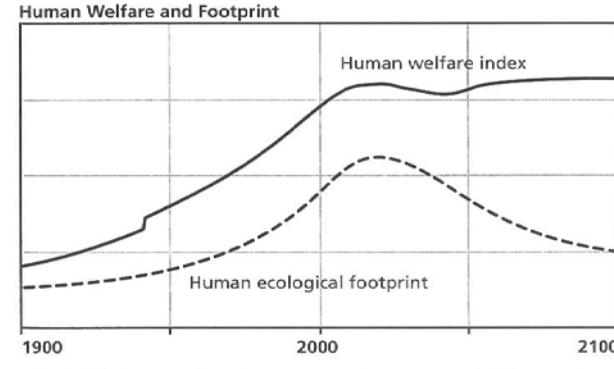
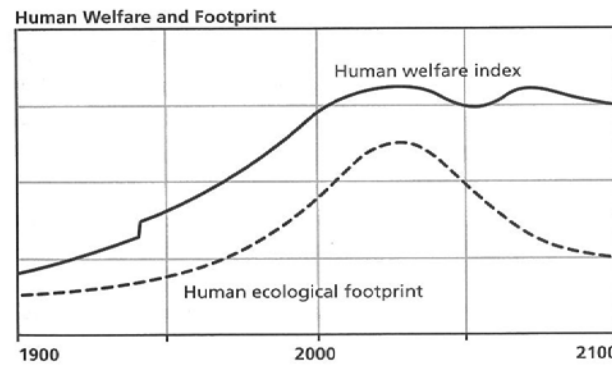
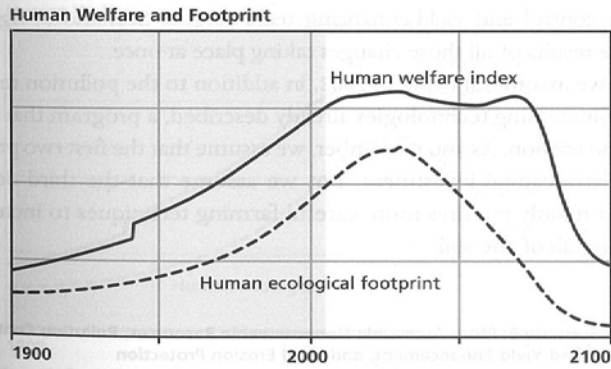
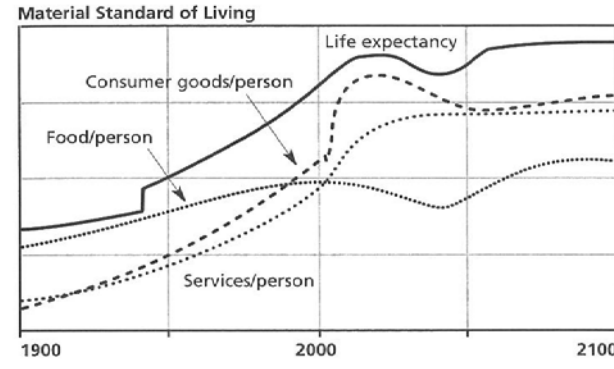
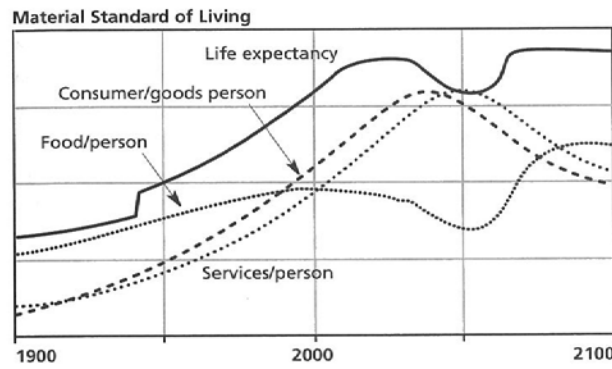
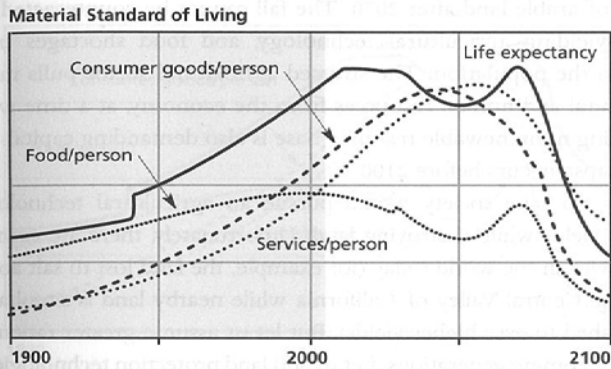
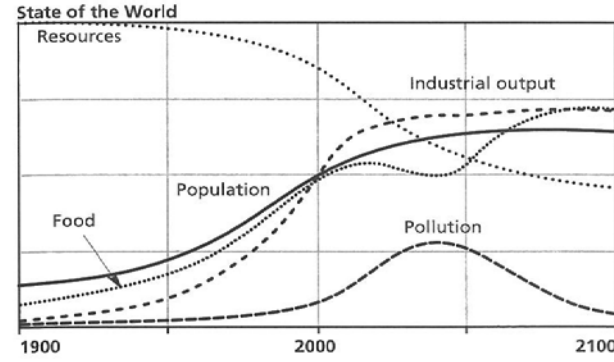
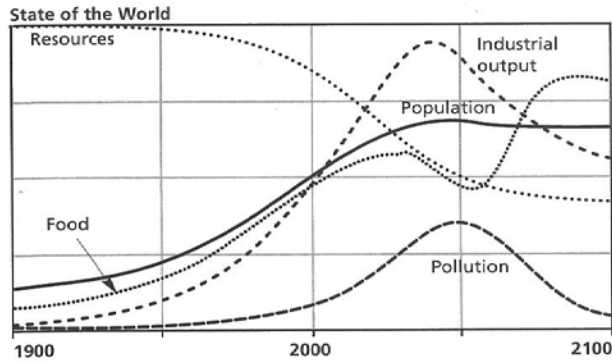
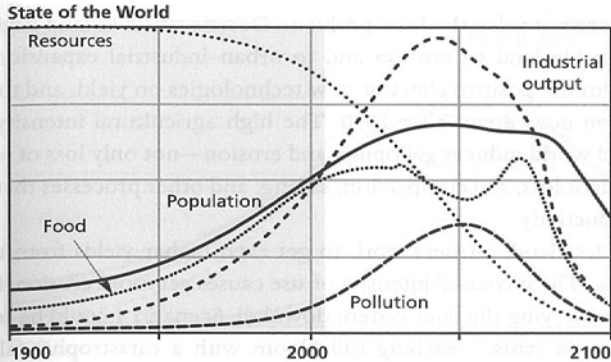
Scenario 4

Scenario 6

Technologies eliminating pollution
Technologies increasing soil quality

+
Technol. for resources extraction
Technol. protecting soil from erosion

Limits of technological solutions



Scenario 4

Scenario 6

Scenario 9

Technologies eliminating pollution
Technologies increasing soil quality

+ Technol. for resources extraction
Technol. protecting soil from erosion

+ Stable GDP/person
Stable population

Consuming → consumer society

- „A society in which people often buy new goods, especially goods that they do not need, and in which a **high value is placed on owning many things**“
- the need to acquire "**position goods**" (proof of social position - recognition)
- expresses the situation of social groups or the state (welfare state)
- excessive consumption - a hobby / necessity? ownership of tangible goods or services → typical dynamics of shopping and consumption (=waste)





Voluntary simplicity x poverty

- **poverty** - low income, low ownership and consumption, feeling deprived, social exclusion, low social status, minimal share of political power
- **voluntary simplicity** - voluntariness, self-sufficiency, diverse interpersonal relationships, active participation in public affairs (municipalities ...)



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- **the idea of simplicity/modesty** - common in ancient philosophy, Islam, Christianity, Judaism, Taoism, Confucianism, ancient mythology and natural nations

Voluntary Simplicity

By Duane Elgin and Arnold Mitchell

The Co-Evolution Quarterly, Summer 1977

I. Introduction

For the past several years the popular press has paid occasional attention to stories of people returning to the simple life—of people moving back to the country or making their own bread or building their own solar-heated home, and so on. Beneath this popular image of simple living we think there is a major social movement afoot which has the potential of touching the United States and other developed nations to their cores. This is



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- **the idea of simplicity/modesty** - common in ancient philosophy, Islam, Christianity, Judaism, Taoism, Confucianism, ancient mythology and natural nations

Modesty as a part of the social prestige/status

- eg. Dutch doctors - modesty and ecological luxury is a prestigious matter, **consumption is rejected as unethical, majority and vulgar**
- env. favorable behavior of the rich is a question of social prestige, but also of personal attitudes → **orientation outside material values**



Voluntary simplicity x poverty

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- society is no longer stratified into classes, but according to lifestyle
 - the poorer strives to imitate (looks up to) the richer people
 - imitation can be more effective than environmental upbringing
 - spreading under the influence of fashion is faster and more efficient
 - social elites → influence on legislation, politics and economy

Selective demand/consumption

- different perspective of voluntary simplicity
- a person is **demanding, but for certain things**
 - eg. on water quality, environment, public transport, joy of life
- it is **not about austerity, but about the joy of life** instead of joy of property



Fighting climate change is opportunity to improve public health



Switching to public transport could boost global health *(Image: Andrew T. B. Tan/Getty)*

Driving cars and eating too much red meat damage more than your carbon footprint. Curbing our carbon habit

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Postmaterialism

- **changes in values** in some rich western countries, the Netherlands, Germany, Denmark x the USA and Canada
- transition from **materialistic values**: material well-being and security, orientation towards economic prosperity, observance of social order, to **postmaterialist values**: free self-realization, participation in the administration of public affairs, creation of a more humane society, creation of the environment



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- the change in values is taking place especially in the younger generations, who grew up in a larger economic and societal security (not during the war)
 - **economic prosperity contributes to the spread of postmat. values** and vice versa (oil crisis in the 1970s - decline in postmaterialism)



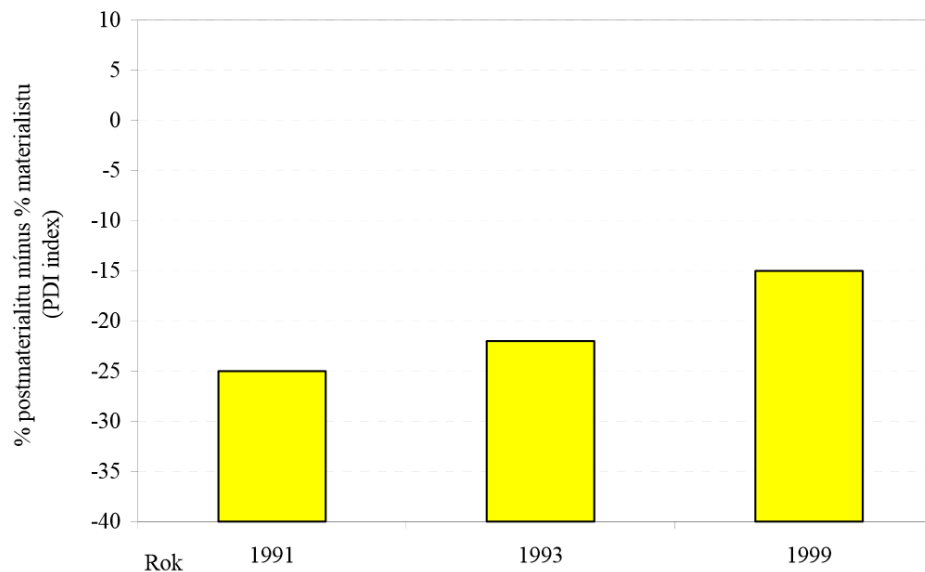
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Postmaterialism



Obrázek 2. Vývoj postmaterialismu v ČR 1991-1999
PDI index (podíl postmaterialistů mínus podíl materialistů)



Essentials to reach a SD

- To decide for it, and long lasting will
= necessary to re-evaluate our life-style
- **difficult, lengthy, but feasible**

Successes, once unthinkable

- abolition of slavery
- smoking restrictions
- recycling
- relations between France and Germany
- etc.



SINO-SINGAPORE TIANJIN ECO-CITY

A MODEL FOR SUSTAINABLE DEVELOPMENT

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The Sino-Singapore Tianjin Eco-city's vision is to be a thriving city which is socially harmonious, environmentally-friendly and resource-efficient.

It is a flagship cooperation project between the governments of Singapore and China.

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COLLABORATION IN THE ECO-CITY



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Ministry of National Development

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THE VENUS PROJECT

BEYOND POLITICS POVERTY AND WAR

The Venus Project proposes an alternative vision of what the future can be if we apply what we already know in order to achieve a sustainable new world civilization. It calls for a straightforward redesign of our culture in which the age-old inadequacies of war, poverty, hunger, debt and unnecessary human suffering are viewed not only as avoidable, but as totally unacceptable. Anything less will result in a continuation of the same catalog of problems inherent in today's world.

HIGHLIGHTS



The solutions certainly won't be one-size-fits-all. It's possible to have a sustainable London and a sustainable Amazonia, but they will function very differently. "A renewable world depends on what you have close to hand," says McKibben.

So living sustainably need not be a step backwards. Some things will change, though. Meat will become a luxury, as its cost is pushed up thanks to the huge amounts of energy and water needed to farm livestock. And while we'll still be able to take holidays, those weekend jaunts on budget airlines are likely to be a thing of the past because there is currently no tax on aircraft fuel.

Porritt believes that doing away with such counterproductive subsidies and tax havens is essential. A global carbon tax and a tax on financial transactions would help to fund ecosystem restoration, public health, education and other crucial steps towards sustainability. "Tax is such a powerful instrument to promote sustainability," he says. "It's absolutely fundamental to the transformation we're talking about."

Porritt and Sanderson are buoyant about the quality of life in a more equitable and sustainable world, without denying the difficulties ahead. "One of the reasons why I think we have failed is that we haven't given a sense of just how good a world it would be," admits Porritt.

All of which adds up to a vision of a sustainable world that is significantly different from the one that critics envisage. It might mean a leaner and slower way of life for some, but also a healthier, happier and more peaceful world for us and future generations to enjoy. We have the tools. What we do with them remains to be seen.