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Article

Smart, Sustainable Living: The Importance of Environmental Intelligence

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Abstract: This article postulates that social, emotional and environmental intelligences are interconnected as well as inextricably linked to the principle of relationships. It defines these and goes deeper into explaining the elements of Environmental Intelligence providing real life examples as well as provocative questions. It offers practical and positive examples of how the climate change Titanic may be turned around. Education is seen as the core component of change.

Keywords: relationships; education; environmental intelligence; competencies; sustainability; climate change; resource depletion; pollution; rewilding; eco-anxiety; empowerment

1. Introduction

It is easy and right to feel upset, angry and guilty about the state of our relationship with our planet. The author of this piece is part of the generation that played a large part in creating the cumulative, catastrophic crisis in which we find ourselves. For our lifetimes, we have unknowingly and sometimes deliberately exploited the earth and its resources not giving much of a thought for tomorrow. Future forecasts on climate change, resource depletion and pollution are upsetting. They cause righteous anger from the young and the poor for what the affluent older, richer generations have done. This should and often does cause guilt in these culprits of chaos.

It needs to be recognised and "owned", and the damage needs to be urgently rectified as much as it can be. Younger and future generations who have inherited the mess and often have a passion for practical action to heal the world. There is potential to turn the juggernaut around (or at least off its current track) if we are smart and active enough to turn the wheel and put on the brakes.

Fundamentally, the solution lies in relationship – relationships with the natural world and also with others and with us. These 3 relationships – environment, others and self are intimately connected. We will not get it right with the natural world unless we get it right with our neighbours and those the furthest away geographically and with ourselves. Environmental change comes from and loops back to those other human relationships.

Our knowledge about relationships in terms of social and self-intelligence is well established and still developing. But we seem to have less to guide us in developing and using our intelligence in relation to our natural world. This article offers an attempt to rectify that.

2. Materials and Methods

This section seeks to briefly unpick what we know about relationships in terms of ourselves and with others and goes on to explore their connection with our relationship with our environments. Using real life examples, it develops a model of Environmental Intelligence and offers practical examples of how its competences are on display and may be developed.

2.1. Social and Emotional Intelligence

There is a general recognition that "the ability to express and manage emotions is essential, but so is the ability to understand, diagnose, and react to the emotions of others. Psychologists refer to

this knowledge as emotional intelligence, and some experts even suggest that it can be more significant than IQ in one's overall success throughout one's life." (Frothingham 2023). We know much about social and emotional intelligence, and it has had a significant, usually positive impact on human behaviour particularly in the world of work. As a result, it is a field that has been and is actively well-ploughed (Thorndike in the early C20, Doll 1935, Wechsler 1939, Gardner 1983, Goleman, Bar-On, Zirkel 2000).

An accepted approach to social and emotional intelligence is to see 2 axes:

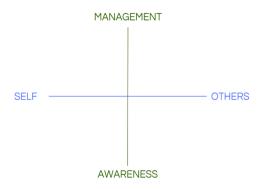


Figure 1. Model of Emotional and Social Intelligence.

Combined, these generate 4 areas of inter-related competences:

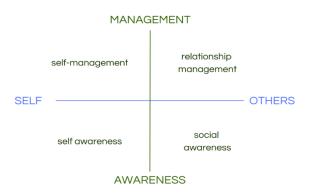


Figure 2. Emotional and Social Intelligence Competencies.

Within each of these four areas, are discernible, significant yet inter-related competencies. A *competency* is some characteristic of a person that is evidenced in patterns of behaviour that differentiate performance in a given job, role or culture Such behaviour may be learned (or perhaps may be partly genetic?). They often become habitual and are usually visible – if looked for. An example is empathy (often confused with sympathy). Empathy is non-possessive warmth – you want to understand and support another person but do not take over the ownership of the issue. Empathy can be displayed in many patterns of behaviour through speech and body language making it different from sympathy.

Emotional Competencies

From the work of Daniel Goleman and Reuban Bar On

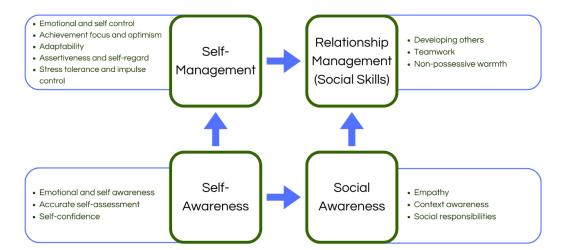


Figure 3. Emotional Competencies.

2.2. Environmental Intelligence

If this is an, albeit simplistic, explanation of social and emotional intelligence, what about our intelligence in relation to our natural world? This article takes the view that similar lenses can be used to both analyse and develop our own environmental intelligence.

Many articulate others, including David Attenborough, have made the case for our environment being at or near the top of the human agenda (Gilean 2009) Most of us want to make the right choices as consumers. But how can anyone individual's choices make a difference? And, more importantly, what are the right choices?

McCallum (2017) defines a new way of thinking about the unprecedented environmental pressures of our day using the concept of *Ecological Intelligence*. He offers a compelling argument: that we must think differently about ourselves and the earth if we are to take seriously the survival of wilderness areas, wild animals and the human race. He explores the relationship between humans and nature from both a biological and poetic perspective, articulating a wild and ethical imperative—an urgent reminder that we are inextricably linked to the land and that we must not be the creatures of our own undoing.

Some writers such as Goleman et al. (2012), referring to *Ecological Intelligence*, argue that our consumer thinking about issues such as the environment, health hazards or child labour has been one-dimensional, focusing on single problems in isolation from the rest. Our 'green' awareness is so superficial we often do more harm than good by ignoring the adverse impacts of the far vaster proportion of what we buy and do.

Such works as very important but this article's preferred term - *Environmental Intelligence*-recognises that the environmental is our **personal**, **social** and **ecological lives** are inextricably intertwined. As human beings we learn, store and use:

- Knowledge facts
- Skills the way we can perform tasks.
- Competencies those habitual, visible behaviours

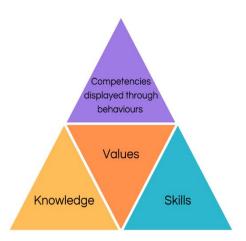


Figure 4. The components of human behaviour.

An important starting point is the concept of **integrity** meaning what we believe in and think, lines up with what we say and what we do. This is very difficult, but it is central to of our view on environmental intelligence. These are underpinned by our values (what we believe in) and ideally should be watermarked by the tough stuff of integrity.

This attempt to link social and emotional intelligence to environmental intelligence is shown below:

Environmental Relationship Intelligence

others ecology

Figure 5. Our 3 related Intelligences.

Using the 4 well -researched separate yet intrinsically linked dimensions we can see **Environmental Intelligence** in the same way. It is most important to remember that there is great overlap between these and in doing one act we use many dimensions. For example, keeping an **Eco-Diary** means improving our self-awareness and as we do this we think and start to self-manage and this in time makes us aware of the behaviour of others and a desire to share this in some way.

The Dimensions of Environmental Intelligence

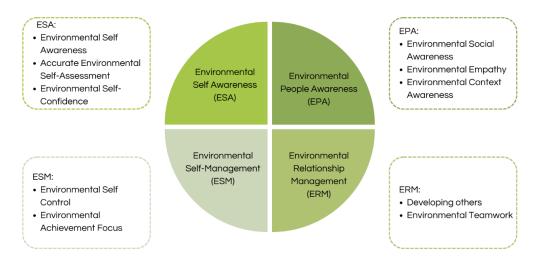


Figure 6. The Environmental Intelligence Framework.

2.3. Environmental Intelligence in Practice

Every day that we each tread on this earth, we leave our footprints. We can choose to tread lightly or with heavier pressure. There are at least 4 areas of our lives where we tread:

- where we live,
- how we travel,
- how we work and
- what we buy.



Figure 7. Our impact on our planet.

This model (**Figure 6**) is not all-inclusive nor complete and that new competencies are emerging in relation to environmental intelligence. We may well be in a position such that others control these areas of our lives and change is difficult.

But what can we do in practice using our **Environment Intelligence Framework?** Here are some examples:

2.3.1. Environmental Self- Awareness (ESA)

Looking at the competencies in turn gives us some insights in how they work in practice.

A: Environmental Self Awareness

This entails using and developing our curiosity, criticality and research skills.

In order to be self-aware about what is happening on our precious planet we need accurate, up-to date information. Goleman et al. (2012) calls this *radical transparency* - the availability of complete information about all aspects of a product's history. This is improving with labelling and use of social media about individual's experiences and QR codes and some feel it is about to transform the power of consumers and the fate of business. Companies will no longer be able to control their own reputations. For the first time what they say will matter far less than what they actually do. They will be genuinely accountable.

Arslanalp (2023) et al. in "Data for Greener World" make the important point that designing effective policies in relation to carbon emissions requires accurate and reliable data. They examine offer practical approaches and highlight the value of the IMF Climate Dashboard Indicators and the need for its extension to all countries.

Have you met the Stupendous Swift?

The swift is a tiny bird that stays in the UK for only a few months. It sleeps, feeds and mates on the wing and bathes by sailing through the rain. When its chicks are fledged, its meandering begins again through the Mediterranean onto Africa. Swifts breeding in Beijing have a round trip of 26,000 km - over half the circumference of the world. The white throated needletail swift has a top speed of 170km per hour – the fastest bird in level flight (India Bourke New Statesman 231-27 July 2023)

What do you think?

<u>Ultra – Processed Foods</u>

"Strange as it may seem, food has replaced tobacco as the leading cause of early death globally" (Guardian 13/5/2023)

Did you know that,much of the food we eat (such as cakes, biscuits and burgers) is UPF (ultra-processed food), engineered so that a balance of sugar, salt and fat is designed to be irresistible (often the ratio of carbs to fats is the same as breast milk). This is called hyper-palatability. It is designed to override our appetites, so we eat so fast we do not notice we are full. UK dentists report more overbites in children because convenience food require so little chewing. It is hoodwinking our senses when we register a big hit of cheese and onion expecting something rich and satisfying but instead get a sad mouthful of starch. Ice cream is too cold to smell so some manufacturers caramel-scent wrappers to prime consumers.

Even food that pretends to be healthy may well be UPFs. — nut milks, protein bars, vegan and low sugar-chocolates for example. UPF foods are foods that have undergone complex, industrial processes and are preserved, bulked out or rendered palatable by artificial additives, claims Chris van Tulleken. Some studies link UPF with increased rates of cancer, obesity, depression, dementia, diabetes and inflammatory bowel diseases. Food has replaced tobacco as the leading cause of early death globally. In the USA more people die from illnesses caused by poor diet than were killed fighting in every war in US history combined. In the UK it is equally dire. The average Brit consumes 57% of their calories in the form of UPF and about 8kg of food additive. UK children are not just getting fatter bit also shorter.

It is hard to give these addictive foods up. They are convenient and alternatives often take time to prepare and cook and are costly.... did you know that?

So, if you are confident that this is true (and how would you know that?) what would you do?

B: Accurate Environmental Self-Assessment

This involves **record keeping**, **reflection** and **honesty**. If we are willing and committed, on a day-to-day basis, we can use a range of techniques to assess how we are doing. Examples are the **Eco Diary Tool** (See Appendix A).

C: Environmental Self-Confidence

This means that we develop our self-regard, based on $\bf A$ and $\bf B$ and have a confidence in seeing ways forward in our lives.

2.3.2. Environmental Self-Management (ESM)

Again, using the *Environment Intelligence Framework*, we can explore in more detail our understanding of what we can do ourselves.

A: Environmental Self Control – meaning to pause-think-act.

Although we all want to help the environment, our knowledge of what are 'green' choices is often so limited that we can do more harm than good. But now more availability of information about all aspects of a product's history, has the potential transform the power of consumers and the fate of business. Why does one UK supermarket fly Kent apples to South Africa to be washed and sprayed with wax and the flown back to the UK for sale in their stores?

Knowledge is power. By discovering how to tune your environmental intelligence, we can make better decisions, and a better world (see **Appendix B: Environmental intelligence in Russia**)

B: Environmental Achievement Focus – this is very much about record keeping and personal goal setting, and rewards, problem-solving, and motivation.

Clothes rail

In some countries people are fortunate to have a winter and a summer wardrobe. When the clothes are changed for the season, one idea is to have all the coat hangers facing in one direction. As an item is use, turn the coat hanger round the face the other way and keep it facing that way when putting the item of clothing back in the wardrobe. At the end of the season, when the clothes are being changed, consider giving away those items that have not been used where the coat hangers facing in the original direction.

It is now possible to do digital tracking of your clothes as well e.g., "Wearing" "Slowette.com" to prevent overbuying as a part of the Fast Fashion endemic for some in richer nations.

Other ideas are buying from Charity shops or "Vinted" "no buy January", "30 wears" (wearing a piece of clothing at least 30 times to justify its environmental impact

C: Environmental adaptability

Climate has always been changing. 2024 may have been hottest year on record. How will we adapt to the catastrophe we are in already?

A World Built on Trash

4 trillion plastic cigarette filters are flicked on the ground annually.
20,000 plastic bottles are sold every second.
2kg of waste is produced every day by the average American.

Humans produce waste on a scale never seen before in our history.

Much of this waste is shipped at enormous cost from the rich nations to the poor. Those on the margins of society are left to deal with mountains of trash we add every day. Ghazipur landfill in India is a 65-metre-high hill.

In the novel "The Years" by Arnie Ernaux (2008) charts the changes in society in the last 60 years or so. The narrator describes the frugal period after the Second World War (from 1945) where "Nothing is thrown away. The contents of the night buckets were used for garden fertiliser; the dung from passing hoses collected for pot plants. Newspaper was used for drying the inside of wet shoes, wrapping vegetables and wiping bottoms". Then came supermarkets, plastic, and the throwaway society. "People do not question the objects usefulness; they just want to possess them". Are we coming back full circle? Is a sharing economy growing where we do not need personal ownership?

D: Environmental assertiveness

Being assertive about our environment links closely with other competencies such as **self-confidence**. It requires consciously building the skills to articulate and lead by example. We need to act with integrity matching what we do with want we think and believe, with what we say, and what we do. "See It, Say It, Sort It". It means building bridges with others and is very different from aggression which often alienates others.

Changing Regulations for the Worse

Since the United Kingdom left the European Union, a large number of the EU regulations to do with environmental standards have changed leaving the UK "facing death by a thousand cuts"*

Here are a few:

Issue	EU position	Current UK position			
Chemical	The chemical regulation body (EU	Dangerous toxins proscribed by			
regulations	REACH) bans substances toxic to	the EU continue to be used in the			
	human health UK				
Pesticides	36 pesticides banned including	Farmers in UK can use products			
	thiamethpoxam which is highly	that have been shown to harm			
	toxic for bees	invertebrate and insect			
		populations			
High-carbon	The EU has implemented a high	Not in law in UK and any changes			
goods	tariff on carbon products e.g.,	would not happen until 2027			
	cement, iron and steel electricity.				
	Aluminium, fertilisers. Changes				
	begin in 2006				
Deforestation	EU has legislated to remove all	Britain's scheme applies only to			
	deforestation from its supply	illegal deforestation			
	chains for producers including				
	wood, palm oil and soy, cocoa,				
	beef, leather and rubber				

Battery recycling	Tighter regulations in EU since UK	No such recycling policy in place		
	left (digital passport, waste	in the UK		
	collection targets)			
	Tight restrictions on GM	Restrictions loosened in the UK		
Genetic		for plants and animals		
modification				
Social climate	This fund protects the most	No such support in the UK		
fund	vulnerable from the costs of green			
	transition in the EU			
Air pollution	There is an emissions ceiling	Loosening of regulations meaning		
	directive in the EU	air in the UK will be allowed to be		
		dirtier than in the EU		
Water quality	Water framework directive has	Our rivers and seas will be		
	legally binding targets with more	allowed to be more polluted than		
	regulation planned e.g., for	in the EU		
	wastewater and PFAS "forever			
	chemicals", pesticides and			
	pharmaceuticals.			

What is your view on this information?

How does using our Environmental Intelligence relate to these UK decisions?

*The Guardian (20/1/2024)

E: Environmental Stress Tolerance

The current environmental catastrophe through which we are living, places great pressure on us. This can cause stress or what has become known as "Eco anxiety". Eco-anxiety is the distress caused by climate change where people are becoming anxious about their future (Coffey et al., 2021). The term 'eco-anxiety' is still a poorly understood concept, with many viable definitions; a chronic fear of environmental doom... mental stress of anxiety associated with worsening environmental conditions... anxiety experienced in response to the ecological crisis (Coffey et al., 2021). Watching our natural world change, sometimes combined with feeling personal guilt or witnessing climate indifference from elected powers failing to act with the pace required, can evoke a variety of emotions, from anger and frustration to dread, powerlessness and hopelessness. As the generation that is going to have to deal with the damage and have the most to lose, young people's anxiety (33.1% of the world are under the age of 20) (Ang, 2021) of the topic of environmental doom is skyrocketing. Even though, eco-anxiety is actively mentioned in the media, there is still a strong lack of research about the various forms of anxieties and about their relation to other psychological impacts of the ecological crisis (Panu, 2020, pg. 1). It is a common assumption that the younger generations are more greatly concerned with global challenges. If this assumption is true, the question of how aware the young people are must be considered, for them to lead the more health-conscious, socially aware and environmentally responsible lifestyle they wish for. This competency of environmental stress tolerance can be developed through many of the other competencies e.g., environmental achievement focus, adaptability and optimism (B, C G)

F: Environmental Impulse Control

It is easy when confronted with large environmental challenges to react on impulse with anger (as mentioned in the Introduction to this article) or wanting quick action and results. It is important

that we recognise these impulses but also think about our response and actions carefully whilst recognising the urgency of the need for change.

G: Environmental Optimism

Despite the doom and gloom there is hope. Cop23 led to some albeit fragile agreement among some countries to reduce their carbon emissions. (Natural England carried out "The Children's People and Nature Survey," in which ran August 2021, collecting responses from 2,048 children and young people aged 8- to 15-years-old. The main findings included that more than eight in 10 children and young people (85%) agreed that being in nature made them very happy, and 78% of children and young people agreeing that looking after the environment was important to them.

It is possible for each of us to take actions quite quickly that combined can make a big difference. Using our spending power as consumers and voting power as members of an electorate, means we can make suppliers change tack quickly and governments also (although perhaps a bit slower) - witness the rapid demise of diesel cars and increase in electric ones.

H: Environmental Self-Regards

It is important to note where we are in human history. Up until the Industrial Revolution in the UK and elsewhere, humans were in daily touch with nature. They understood it and generally recognised the need to live in harmony with their environment in sustainable ways. Since we moved en masse to develop places we call towns and cities and worked in factories, this has changed and today many people in the world have become de-sensitised to nature – we fear it, or do not understand it, or seek to control it or create artificial re-creational experiences such a parks, wild swimming. We cannot turn the clock back, but we need to recognise that we each have an instinctual passion for life. Wilson called this *biophilia* (E.O Wilson 1984). When we do stop and observe it appeals to something intrinsic to human desire... an insatiable, limitless and rational and emotional desire for the world and its goodness. It is a curiosity that goes beyond any self-interest. (Bourke 2023)

Rewilding

Some of the work on **rewilding** in cities lifts the heart. Our modern-day cities might seem to represent our separation from the natural world. In fact, as Ben Wilson (2023) reveals in his re-examination of urban landscapes around the world, nature has always been at the heart of the city.

He explores the wild side of cities past, present and future: the middens, abandoned sites and strips of land alongside railway lines. For much of history, wild patches in cities provided essential food, fuel, medicine and places of recreation and escape for city-dwellers, and the dividing line between city and countryside was blurred. Even our post-industrial cities are much wilder places that we imagine, with booming animal and plant populations - if we know where to look. He argues that on today's urbanised planet, natural forces - be they floods, storms, droughts or pandemics - look set to determine the future of our cities. In a time of climate crisis, cities that once built walls and towers to defend against attack now have to become greener to protect themselves from external threats.

J: Environmental Self-Actualisation

It could be argued that raising our own levels of environmental intelligence leads us closer to self-actualisation (Maslow) – to become the best people we are designed to be. Such yearning can be radicalising. It is a passion that resists fatalism and defies the odds (Seymour R (New Statesman 21-27July 2023). Awe and wonder in response to the environment are part of this and a great example of this is the concept or *overview* in relation to astronauts.

Overview

English astronomer Fred Hoyle wrote in 1948 that, "once a photograph of the Earth, taken from the outside, is available, a new idea as powerful as any in history will be let loose". Author Frank White, who in the 1980s coined the term **overview effect** after interviewing many astronauts, said that the overview effect is "beyond words", requiring experience to understand. He said that astronauts' very first views of the planet were generally very significant, adding that some experience the effect "in a moment" while in others it grows over time; and generally, that the effect "does accumulate".

The overview effect is a cognitive shift reported by some astronauts while viewing the Earth from space. Researchers have characterized the effect as "a state of awe with self-transcendent qualities, precipitated by a particularly striking visual stimulus". (Yaden et al. (2016)) The most prominent common aspects of personally experiencing the Earth from space are appreciation and perception of beauty, unexpected and even overwhelming emotion, and an increased sense of connection to other people and the Earth as a whole. The effect can cause changes in the observer's self-concept and value system, and can be transformative. Yaden posited that the overview effect triggers awe through both perceptual vastness (like seeing the Grand Canyon) and conceptual vastness (like contemplating big ideas like infinity).

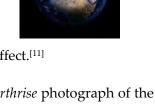


Yaden et al. (2016) write that some astronauts viewing Earth from space "report overwhelming emotion and feelings of identification with humankind and the planet as a whole". Voski (2020) demonstrated a marked influence on astronauts' environmental attitudes and behaviours, and a new level of environmental awareness and consciousness.

Not all astronauts experience the overview effect. Further, While distinguished experiences in low Earth orbit where the planet takes up most of an astronaut's view, from experiences on the Moon in which one sees the

whole Earth "against a backdrop of the entire cosmos".

He described a "big difference" between professional astronauts, who are focused on their missions—versus people who have recently been going into space "with an intention to have an experience" and who may already be aware of the overview effect.^[11]



After Apollo 8 astronaut William Anders' December 1968 *Earthrise* photograph of the Earth from lunar orbit, the Apollo missions were credited with inspiring the environmental movement, the first Earth Day being held in April 1970. Hoyle said that people suddenly seemed to care about protecting Earth's natural environment (although others attribute that awareness to Rachel Carson's 1962 book *Silent Spring* and reactions to several environmental disasters in the 1960s.^{[1])}

William Shatner (Blue Origin NS-18, 2021) said immediately after landing that "everybody in the world needs to do this. ... The covering of blue was... the sheet, this blanket, this comforter of blue

that we have around us... And then suddenly you shoot through it... as though you whip off a sheet off you when you're asleep, and you're looking into blackness, into black ugliness, and you look down, there's the blue down there, and the black up there and it's... Mother Earth and comfort, and there is—is there death? I don't know".

2.3.3. Environmental People -Awareness (Epa)

Environmental Social Awareness – this involves listening, articulating and engaging in dialogue (Foucault called this "*reciprocal elucidation*" and being prepared to change your mind instead of looking to justify your own pre-held views), allowing people to reflect on their own learning in the light of divergent perspectives and developing questions especially open ones.

- A. **Environmental Empathy** empathy means not taking ownership of others' environmental responsibilities but rather empowering people to make the decisions to change their own lives in relation to the natural world. It is sometimes called *non-possessive warmth*.
- B. **Environmental Context Awareness** it is important to see if others are able to locate environmental issues in the context of economic impact and cultural awareness. If we were to stop sending our trash to Kenya or buying cheap fast fashion goods from China, would we help create other jobs for those whose livelihood depends on processing our rubbish?
- C. **Environmental Social Responsibility.** The big issue of **social justice underpins** all of these environmental issues. The rich minority create the environmental problems that impact most on the poor majority.

2.4.4. Environmental Relationship Management (Erm)

A. **Environmental Development of others** – Developing others in terms of the environment means influencing others in ways that do not alienate but rather empower. It involves effective, knowledgeable, persuasive communication. In short, it is education.

Learning from Sustainable Menus

A Michelin Green star and sustainable restaurant in London, stocks an apple and hibiscus gin on their menu and, to reduce wastage, they contacted the supplier to ask for the apples used in the distilling process to be sent along with the gin. The restaurant then uses the old apples to make an apple sauce to serve with the venison.

Another also has a sustainable menu. The first course is bread and butter, and the last course is an ice cream and biscuit made from the unused buttermilk from churning the butter, and leftover wheat flour from making the bread - a full circle menu again not wasting any ingredients.

This seems to be a growing trend in some areas.

B. **Environmental Working with others (teamwork)** – Effective teamwork is much more powerful than individuals seeking to change others. Campaigns, and lobbying are best done through teamwork as evidenced by Human Scale Education (humanscaleeducation.com).

Shared aims	Maximise use of resources	Shared decision- making	Improved communication
Clear roles	Motivating and encouraging	Increased participation	Increased knowledge and understanding

Sharing skills	Improved	realise individual	Reduce stress and
and expertise	relationships	potential	anxiety

Figure 8. Potential Benefits of Teamwork in Environmental relationship management to make a difference.

As humans, Earth is the only home we have. Yet we do not seem to care and continue to exploit it. All the environmental issues we hear on the news may seem like they are just environmental issues, but they are hundreds of years' worth of human actions and influence. Activists have continuously tried to vocalise the issues of sustainability for many years, such as David Attenborough and Greta Thunberg. These two, and many others, are only a few of the many activists who have worked tirelessly on campaigns to promote sustainability. They have inspired countless others to join their cause and fight for a better future for the planet. Their efforts have helped to raise awareness about the importance of sustainability, and the urgent need for action to protect the environment. This is perhaps, in turn, leading to a shift in public opinion, with more and more people now recognising the need to reduce their consumption and live more sustainability.

An example of a campaign that continues to need support is healthy eating. To be impactful this may need pressure from campaigners for:

- legislation to limit marketing of unhealthy food especially to children,
- agreement and checking that the food served in institutions such as hospitals, prisons and schools must be healthy.
- warnings about ultra processed food in nutrition guidance (the NHS Eatwell Guide),
- the use of technology to tell us what actually is in what we are eating and from where it has come

OR Codes and Product Tracing

Different studies have been made to assess the effectiveness of QR codes as a means of conveying labelling information and their use as part of a food traceability system. In a field experiment, it was found that when provided free access to a smartphone with QR code scanning app, 52.6% of participants would use it to access labelling information. A study made in South Korea showed that consumers appreciate QR code used in food traceability system, as they provide detailed information about food, as well as information that helps them in their purchasing decision. If QR codes are serialised, consumers can access a web page showing the supply chain for each ingredient, as well as information specific to each related batch, including meat processors and manufacturers, which helps address the concerns they have about the origin of their food.

3. Discussion: What Should Be Our Priorities?

This *Framework for Environmental Intelligence* that has been explained and explored, suggests a number of priorities that are urgent, bearing in mind the state of our planet. We focus on 4 main areas that seem to emerge from a rich soup of ideas:

Bottom Up and Top-Down

There are many complex issues that intertwine and there is a danger of losing a focus on what to change, in what order and how to improve what we do. Underpinning all of this are large moral issues for our world of equity and social justice. Certainly, there is a desperate need for a consensus and, where necessary, legislation at the highest level- nationally and globally.

Just as, perhaps even more important, are **grassroots movements**. We should not underestimate the power we have as individuals but even more so in like-minded groups, hence the need to understand and grow our own environmental intelligence. Satish Kumar offers a useful image of the mighty river Thames that starts as a few trickles of rain hitting the ground at Thames Head in

Gloucestershire and becomes tiny streams, then joins other small rivers, all the time joining more tributaries, inexorably moving downwards through the force of gravity until it becomes a mighty powerful river in London and beyond and joining the North Sea which connects with the seas and oceans of the world. We can be that river for change.

Accurate information

Knowing the facts is essential to making informed decisions that help our planet. Labelling and making good use of technology are vital either through legislation or, even better, by suppliers doing this themselves. Consumer pressure – **US** - can make this happen. There are some signs that this is happening. But it is not easy to know what the best environmental decision is to make. For example, look at our understanding the complexity public toilets. Which is better in drying our hands after washing them - paper towels, cloth roller towels, air driers?

Affordable alternatives

It is important that, as the purchasers we know where more ethical goods and services can be found from (local) producers in restaurants and shops. Technology that is trustworthy again can help but we need to use our environmental intelligence and be inquisitive. This takes time and energy and may not be the cheapest option. We need to be alert to *woke washing* (practices in business that provide the appearance of social consciousness without any of the substance).

Education

It is clear that the efforts of many activists are having an impact and have helped to drive change on a global scale. However, the change must include start young people in order to be sustainable. However, nearly 47% of national curriculum frameworks of 100 countries reviewed had no reference to climate change and about 40% of teachers are confident in teaching the cognitive dimensions of climate change but only one in five can explain well how to take action (UNESCO, 2021, pg. 2). Therefore, it is essential to invest in the education system, ensuring that the environmental curriculum is prominent for all and that teachers are confident and equipped with the correct information to teach young people the importance of sustainability and what to do. This can help to empower them to become the agents of change and create a more sustainable future.

The compulsory school curriculum in England (**The National Curriculum**) does not do justice to raising the environmental intelligence of young people. It appears usually in separately taught and learned subjects such as Biology and Geography but, in reality, our understanding needs to be across almost all disciplines involving for example politics, economics, sociology health, psychology, history, geography, and biology. Moreover, sustainability is an area to be taught through actions, not just words.

When looking at education for sustainability, it is important also to consider organisations **outside of schools** that provide opportunities for students to join the fight against climate change and sustainability. There are organisations and programmes in which young people can take part. There are many examples in the UK:

The **Duke of Edinburgh's Award**, also known as DofE, is a non-competitive, personal challenge open to all young people aged 14-24. This scheme runs in schools, colleges, youth and sports clubs, prisons and young offender institutions, hospitals, and many more across the UK (**The Duke of Edinburgh's Award, no date**). The programme helps young people to build life-long belief in themselves, by supporting them to take on their own challenges, follow their passions and discover talents they never knew they had The Duke of Edinburgh is unique to each participant and their passion. Many participants have used their Volunteering section to focus on the environment and climate change, but the theme of climate change can be used for the Skills, Expedition and Gold Residential too. Within the Volunteering section, participants can take part in the Royal Society for the Protection of Birds, also known as RSPB's Wild Challenge, to take part in practical activities, or become an Energy

Envoy with the National Energy Foundation in order to help others in the community to use energy more wisely or raise awareness about the impact of climate change or the impact of plastic waste in their school or organisation Within the Skills section, the DofE provides a 13-week template on researching environmental issues that participants can follow, or they can investigate the environmental impact of the food industry and try making a range of tasty vegan meals or tell others about the importance of environmental sustainability through a range of media such as radio broadcasts, blogs, films or writing articles. Within the Expedition section, participants can consider how to conduct their expedition in a sustainable way to promote the fight against climate change but choosing locations close to home to reduce travel and emission or plan a plastic free expedition.

SOS International (Students Organising for Sustainability International), is an organisation that supports student and youth groups globally to lead on sustainability and social justice. They do this by:

- running multiple sustainability programmes, projects and campaigns
- doing research on students and sustainability that can leverage action to transform education and direct society to a more sustainable and fairer future.
- strengthening collaboration and capacity among members, and mobilising funding together
- and offering workshops, event facilitation and consultancy to all organisations interested in sustainability and/or working with students and youth.

The SOS International is also a formal educational partner of the *United Nations Environment Programme*

Forest Schools (as, for example, in Norway, Estonia, Sweden and increasingly in Egland), can provide a child-centred inspirational learning process, that offers opportunities for a holistic growth though regular session. They take place in a woodland or natural environment to support the development of a lifelong relations between the learner and the natural world. There are also ideas in place to protect forests and woodlands. **Beach schools** can also play an important part.

The Danish school putting sustainability on the syllabus

A dozen children are sitting in a circle when the bell rings. Instead of rushing to their next class, the children close their eyes. "Raise your hand when you can no longer hear a sound," says their teacher, holding a pair of bronze cymbals — the kind you might find in a Buddhist temple. One by one, their hands go up. At the Green Free School (Den Gronne Friskole), in Copenhagen, educating children for a world affected by climate change begins with putting them in the right frame of mind — literally. Classes here include urban farming and often start with mindfulness training. "We thought about what kids need to learn to take part in the green transition we're going to go through," says Phie Ambo, a Danish filmmaker who founded the school in 2014 with American translator Karen MacLean. "They need to learn to be courageous and take risks. And they need to learn some basic things about the planet and how we as human beings exist together. I couldn't really see that happening in the Danish school system."

Unlike the country's regular state-funded schools, the **Green Free School** — which has 200 pupils aged six to 15 — puts sustainable living at the heart of its syllabus. At first glance, there's nothing unusual about the Green Free School. It occupies four inconspicuous buildings in a post-industrial neighbourhood southeast of Copenhagen's centre. Only a woodshed flanking a paint-daubed playground hints at a different kind of institution. Its main building — made entirely of sustainable materials — houses a workshop where pupils learn to sew and use materials such as wood, clay, wax, felt, metal, and plastic. They also learn to compost, repair bicycles, and collect rainwater. In shaping the syllabus, founder Ambo drew inspiration from "systems thinking" — a way of looking at the world in terms of its underlying patterns and interrelated systems. Pupils are encouraged to think about these systems through time spent outdoors exploring the world and gaining hands-on experience growing vegetables, while learning about edible plants and climatic conditions.

One 12-year-old pupil said she was "a little nervous about the future" because of the climate crisis, but felt she learned a lot at the school. According to deputy principal Suzanne Crawfurd, the school's teaching method combines "project-based learning and design thinking." In other words, you won't see teachers at blackboards or children in front of screens. Instead, they do hands-on projects that are supervised by several teachers and span different subjects. For example, the children might learn how to forage edible mushrooms, then practice drawing them, before heading into the kitchen to make mushroom soup. Children at the school take part in hands-on projects that span different subjects. Despite its alternative approach, setting up the school was easy, Ambo says. While most schools in Denmark are publicly run, anyone can set up a private "free school," with the state covering about three-quarters of its costs and the rest being made up by fees.

Eco-friendly lessons

Tuition at the Green Free School costs 2,600 DKK a month (about €350, \$380) — and it sets aside at least 5% of its budget to provide bursaries to children whose parents can't afford the fees. That means its pupils come from "a wide range of socioeconomic backgrounds" in Copenhagen, says Ambo. By law, a "free school" must follow the national curriculum. In addition to learning to read and write, they study history, maths, and science. But otherwise, it's permitted to devise its own syllabus, allowing the Green Free School to teach subjects like urban farming and greenwashing. "They [the pupils] need to learn to grow their own food and they need to be able to see through companies that claim they are sustainable — because we don't have time for that," Ambo says. The Danish Green Free School isn't the only educational institution in Europe with an "eco-friendly syllabus." Berlin's Hagenbeck high school, for instance, teaches students about the importance of species and ecosystems, successfully incorporating biodiversity throughout its hands-on curriculum.

Ambo says she hopes the Danish school will inspire young teachers to apply its approach in other schools in a country where climate change is becoming a growing political focus. Last December, the Danish parliament passed a climate law committing the country to reduce carbon emissions to 70% below 1990 levels by 2030.

Green transition and its challenges Still, the school's founders have faced hurdles. The site that Ambo and MacLean chose for it was polluted with chemicals used to clean ships — a drawback they turned to their advantage. "It used to be one of the most toxic places in Copenhagen, but we decided to make it part of the curriculum," says Ambo. The school's inaugural intake of 43 pupils duly learned "what kind of trees and plants can remove chemicals from the earth and how to live in and transform places that are tainted by the old industrial way of thinking."

While the school provides more structure in its teaching today, Ambo admits it isn't ideal for children with severe learning difficulties. Moreover, its students don't sit exams. "It's definitely not for everyone," Ambo concedes. "Some parents think it sounds good and then they realize there won't be any tests or exams and withdraw their kids." At 15 pupils move on to further education at other schools, where they usually gain formal qualifications.

Freed from learning geared toward telling examiners what they want to hear, the school aims to equip students to draw their conclusions about the world. But it does have a clear aim of where those conclusions should lead. "We're saying to the students, 'Be critical, think for yourself, and do what you want — but we want you to make the green transition,'" says Dorthe Junge, principal of the Green Free School. "That's a challenge."

Wales showing the way

The National Curriculum was first introduced in 1988 before on-line shopping, Google and the Cloud. Now, asserts the Welsh government, the world of work is different, technology is different, society is constantly changing. A new curriculum that was rolled out in 2022 that aims to prepare young people to develop higher standards of literacy and numeracy, to become more digitally and bilingually competent, and to be confident, capable and compassionate citizens – citizens of Wales and citizens of the world. With its integrated progressive approach, the curriculum areas bring together familiar disciplines and encourage strong and meaningful links across them. Included in this is responsibility to the environment

4. Conclusions: So, What?

It is vital that people, especially children, are positive about their future. We need to be agents of change and not victims of change. Eco-anxiety is a real problem, and it is important that we all have hope and are empowered. This involves each of us understanding and consciously developing and improving the elements and the whole of our Environmental Intelligence and its 4 inter-related domains and competencies within us. That is our individual responsibility as well as our social responsibility. And this is more urgent than it has ever been.



Figure 9. Astronaut Tracy Caldwell Dyson "Earth gazing" in the Cupola module of the International Space Station.

In the important book "Small is Beautiful: A Study of Economics as if People Matter" published in 1973, E F Schumacher concludes:

"Everywhere people ask, "What can I actually **do**?" The answer is as simple as it is disconcerting; we can, each of us, work to put our own inner house in order. The guidance we need for this work cannot be found in science or technology. The value of which depends on the ends they serve; but it can still be found in the traditional wisdom of mankind".

Appendix A

Table A1. A Case Story: Anna's Life In London – Eco Diary Tool.

Area	Subject	Dilemma	Action	Justification	Benefit to me	Cost to me
Travel	Flying	Go away or not	Combine trips to	Using less CO2 and	Train, you see more of a country	Less trip flexibility more work to
			fly less, off-set	airmiles, offsetting	than plane,	arrange combination.
			CO2 emissions	when I do	fewer flights cost less	trips,
			with donation to			trains can be more expensive and
			Tree Sisters, take			take much longer so I
			other forms of			need to get a flight instead
			transport where			
			possible			
	Getting	TFL/cab/walk	Walk where	Using less resources	Better for my health to walk.	Sometimes for time consuming, not
	around		possible, then	and contributing to	(more D3, exercise, fresh air and	always possible
	London		TFL, the cab if I	less congestion by	trees),	with heavy bags. Tfl can be
			must	walking. If further	cheaper, sometimes quicker and	unpleasant on hot sticky days
				away than TFL and its	more reliable.	or aa rush hour or not running so
				cheaper and more eco	TFL (Transport for London) saves	sometimes resort
				than cab. Cab if TFL is	money as opposed to cab	to a cab
				cancelled or much		
				longer		
	Travel	Train/car	Train sometimes,	Car sharing is more	Electric car is cheaper per trip than	Not enough chargers wastes my
	outside of		or car share	eco than private car	train	time, trains are very
	London		electric car. I	ownership. It's good	and convenient as long as there are	expensive
			share a car and	in rail strikes. Good in	chargers.	
			we lease as a	petrol crisis	EV is cheaper per trip than a train	
			friendship group			

Health	Period	One use or reuseable			The moon cup is cheaper for me in	•
	products		moon cup that is	use items which go to	the long run.	out inconvenient.
			usable	landfill which don't	and it never runs out, holds more	If I come
			indefinitely, and	biodegrade and have	liquid.	on unexpectedly I need to resort to
			period proof	a CO2 and water use	My health has improved since I	buying more
			pants and	footprint to produce	stopped.	traditional products, the more
			reuseable pads		using products containing bleach	organic and natural
			which last a year		and chemical	versions
			or two. Or		scents.	of which cost more than ones
			organic non-			containing bleach and
			bleached			chemical scents
			products if I do			
			use traditional			
	Hot yoga	Hot yoga or regular yoga	Even though it	The classes are	Hot yoga is a great workout and	I feel bad about the environmental
		or other exercise	uses heaters to	usually full,	stimulates my metabolism.	impact of
			generate heat all	traditional gyms will	I walk there and back so I get more	hot yoga!
			day I choose to	use AC, I run cold,	energy.	
			have a hot yoga	and doctors have	There is a social aspect to going	
			membership and	prescribed sauna	there	
			go 2-3 times per	sessions to me, so I		
			week	decided to do two in		
				one		
Shopping	Where to	Online/in shop	In person where	Cuts down on	I don't need to spend time and	Can't always find items I like or
	buy		possible but	packaging and CO2	money on	what are as eco as I
			online if I can't	for delivery	sending back	like in person so sometimes revert
			get it in person			to new items
	Condition	New/reused	Used where	Not supporting	I get something with history that	Can't always find items I like or
			possible,	production of new	was made to last	that fit me or the
				items which have a		space
·					· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·

		especially with	high CO2/pollution		so sometimes revert to new items
		furniture	cost during		
			production,		
			packaging and		
			transportation and		
			making use of		
			beautiful old items		
	What are Synthetic/recycled/natural	Natural or		I get something that lasts and can	Items tend to be much more
	the	recycled where	production of	be recycled	expensive and there
	materials	possible	•	when finished, and is usually	is much
	used in	possible	pollute the ecosystem	·	less choice. Need to be willing to
	the		•	have in the house e.g., eco paint, or	make those
	products I		workers. Eco	VivoBarefoot	sacrifices.
	•			shoes which they will repair to	Some items e.g., make up doesn't
	buy		•	extend the life	work when it's
			,		
			mission statement	of the shoes	totally
			that isn't just profit,		natural, gym wear needs to be
			even when ordering		stretchy so must be
			something more		synthetic
			synthetic		
Food	Takeaway Get or don't	Taking my own	Ž	I eat without waste when I	
	food	container and	are single use and take		can be awkward
		cutlery, mug etc	•	my own items with me, rather than	•
			produce, even if	throwing	my items, if I forgot
			biodegradable. Saving	away a single use cutlery and food	then I sometimes just don't get food
			trees used for paper	box and bag.	as I feel to
			food boxes and straws	My items are more solid and	guilty about
			and CO2 used to	pleasant to eat with.	
			create and transport	I'm more likely to cook for	the waste if I do

		them. Saving on the	myself which feels a more natural	
		process of creating	and	
		plastic like Vegeware,	connected process than eating food	
		which still take 50+	someone	
		years to decompose	else has prepared.	
Where to Supermarket, organic	Planet organic	Planet Organic is	I eat more healthily, and have more	It is much more expensive to shop
food shop shop, market	and fruit market	more mindful of food	choice than	this way, and
	when I'm in the	intolerances, zero	a regular supermarket	not always
	area	sugar products, fair		available everywhere so I
		trade, organic, less		sometimes need to go
		packaging, refillable		to a regular supermarket
		items. Pesticides		
		cause pollution in		
		rivers and damage		
		human gut health		
How to More or less packing	Choosing	Most packaging ends	I have less packaging to dispose of,	Not as available in all stores so less
avoid	less/zero	up in landfill and	and benefit	convenient, more
excessive	packaging where	doesn't biodegrade.	from my food not being stored in	preplanning required to soak dried
packaging	possible i.e., with	Even recyclable	plastic. I'm	beans etc
	fresh fruits and	packaging that I	more likely to buy loose raw	
	vegetables,	recycle, only 10% of	ingredients and	
	buying dry beans	that will actually be	cook from scratch rather than buy a	
	in bulk not	recycled, the rest will	jar or sauce	
	canned	be shipped to Asia	or prepared food	
		where it may be		
		dumped end up in the		
		ocean		

What to Meat, fish, dairy, veg	Mostly plant	Large scale animal	I eat a greater variety of fruit, veg,	Not always easy to find healthy
eat to be	based but with	rearing is detrimental	pulses and	meals out as most
more	some sustainably	to ecosystems with	spices to create variety in my food	plant based meals still focus
conscious	sourced fish,	farm run off polluting	which has	heavily on carbs i.e.,
	chicken or goat	waterways, net	benefitted my gut bacteria and	potatoes,
	yogurt	fishing or dredging	overall health.	chips, pasta. More prep time in the
		results in bi-catch and	I have less inflammation and better	kitchen so less
		destruction of ocean	cardiovascular health since cutting	convenience.
		floor habitats, dairy is	out	
		traumatic for animals	cow dairy.	
		and bad for most		
		people's health, with		
		links to tooth decay		
		and osteoporosis		

Appendix B. Environmental Intelligence and Russia: The Experiences of Elena - A Single Woman in Her 30s Living in Moscow.

Appendix B.1. Traditions and experiences in the USSR

The lifestyle of an individual person is always based on the traditions of the country in which they were born. For very long time, Russia was country that tried to be self-sufficient and provide for itself. It is a huge territory almost twice the size of Canada or China. It is full of wood, farmland, minerals and water, allowing the production of almost everything needed within one country. The USSR was an amazing example of an individual person and the whole country's environmental intelligence, even if it was not an ideal. There were no factories which produced only one element or item, it was full cycle-production. For example, the production of cotton textiles was based on one factory where you had cotton fields, yarn production, weaving and coloring. The Ivanovo textile company Ivanovo Textile-Haberdashery Factory (itgf.net) started in the 18 century and still works.

Because of very low choice of clothes at shops during USSR times, many women learned how to cut and sew clothes. I remember my mom making beautiful dresses for me when I was little girl. Sometimes she used her own old clothes to alter into new models. Of cause poverty played a big part in many people's lives but there were always ways to adapt and people were more careful with the things they used. We didn't throw away old clothes. If they were broken, we repaired them. If it was too small, we gave it to some other member of family (there was even concept of "for growth" e.g., when you bought a child bit longer trousers, tuck them in, so you can use it as well when you grow a bit). If the item became very bad it was going to dacha, because who cares what you are wearing when working in the dirt on the land.

The dacha is also a phenomenon known and experienced to, I think, every single person over 30 years old. Basically, a dacha is 600sq.m plot of land where families spent their summers growing local vegetables (potato, carrot, beetroot, cucumbers, tomatoes etc.) and berries (strawberries, raspberries, currant). Autumn was the period of harvest and preparations for winter. Roots were stored in the basement or garages, vegetables turned into pickles and berries and fruits into jams and compotes. This way families could eat food which was grown by themselves all year long. The dacha was a great place for up-cycling. Old furniture was stored there, and after was used as fuel for fire. Plastic bottles were re-used for seeding, tires as fences for flowers, old tights for storage of onion.

Another idea I remember being a child is recycling glass and paper. You could bring glass bottles to special points and get some money for each bottle, a different amount depending on the colour. After the bottles were washed and used again with a new label. Re-cycling paper was obligatory at school. During the year we collected old magazines and used sheets of paper at home, and twice a year brought this pack to school. They were measured by weight, collected all together and sent to a factory which produces cardboard. The money collected was used for our school needs.

Appendix B.2. Moscow 2023 trends and projects

The sanctions against Russia have played a big part in a trend of returning to self-production.

You can find now local wine and cheese everywhere. And they are quite good. Farming is growing, it's now common for high-end restaurants to have their own farms or support local farmers. Cuisine has become more seasonal and fresher. At some supermarkets they put a QR-code on labels which allows you to trace where food is coming from. When I was traveling around Moscow, I saw a lot of fields full of cereal crops. I was talking to a tractor driver, and he said that last year all of the fields around him were bought and now there is some kind of agro-culture investment. As we know, a country which can't feed itself can't be strong.

When big international brands left, it was also an opportunity for small fashion designers to develop themselves, and some, who had production in Korea before, now started to reinvigorate the

Russian clothing industry. There are also now young people returning to second-hand shops and swap markets. We resell stuff online or bring it to charity. It's not an index of poverty but of conscious consumption. For example, www.vtoroe.ru - is a foundation which collects old clothes. There are several containers around the city where you can bring your clothes and after it will go in 3 different ways: recycle, charity or second-hand shop. Right now, I'm sitting at my co-working space, writing this article and waiting for a fashion show where 11 designers visited second-hand shop and produced new collections from used clothes.

Scooters in Moscow are already very common. Most people hate them, but just because of crazy drivers. But as a concept of ecological transport, it works very well, and a lot of people use it.

Other things we use a lot now are car-sharing systems. So, you don't need your own car, you don't have to pay for parking (in Moscow it's around £3-£5 per hour). You just download an app, find the nearest car, use it and leave where it's comfortable for you.

www.nemuseymusora.ru is a project involving garbage working in several big cities. Its mission is the creation of an infrastructure of educational, technical and cultural opportunities for the realisation of human needs to live consciously and environmentally. They have their own museum, recycling point and guides about sorting. They help businesses to become more ecological and organise lectures at schools.

For garbage we of course have separate containers but, from what I see, when trucks come, they put all together into one truck, so I don't really believe it works the way it should.

Appendix B.3. My own experience

Food. When I was living with family, boyfriend or friends I usually cooked all the food by myself. But now I live alone and most of the time I get daily made food from the supermarket. It produces quite a lot of plastic garbage but saves me time instead of cooking and money instead of going to restaurants.

Clothes. I rarely buy new stuff. I can wear one jacket for 10 years and if I need something, I buy second-hand clothes at shops or online. I don't wear synthetic clothes, so I don't produce micro plastic during laundry.

Water. I try to save water. I wash dishes by myself, not using the washing machine. I bought a special shower head at www.dushalexeeva.com. This is a Russian invention. Many showers use huge amounts of water but this one increases the speed of water, so I need less water and can clean myself without shampoos and shower gels.

Electricity and heating. I don't use it a lot. I wake up with the sun and go to bed when it's dark. The only thing that is always switched on is my fridge. I am ok with the low temperature at my flat as well.

Garbage. I produce a lot of daily garbage. I use paper towels, plastic containers for food, different cotton things for women hygiene, so I throw away about one bag of garbage every 2 days.

Travel. I like walking in Moscow as it saves money and time in traffic in a car and it is quite ecological as well.

I think I could live more ecologically if it saves money/time or is healthy but not just to save nature. I could live an eco-friendlier life if I could find other reasons for my actions. I think not many people are ready to do something just for nature but with the right information showing other benefits they could change.

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