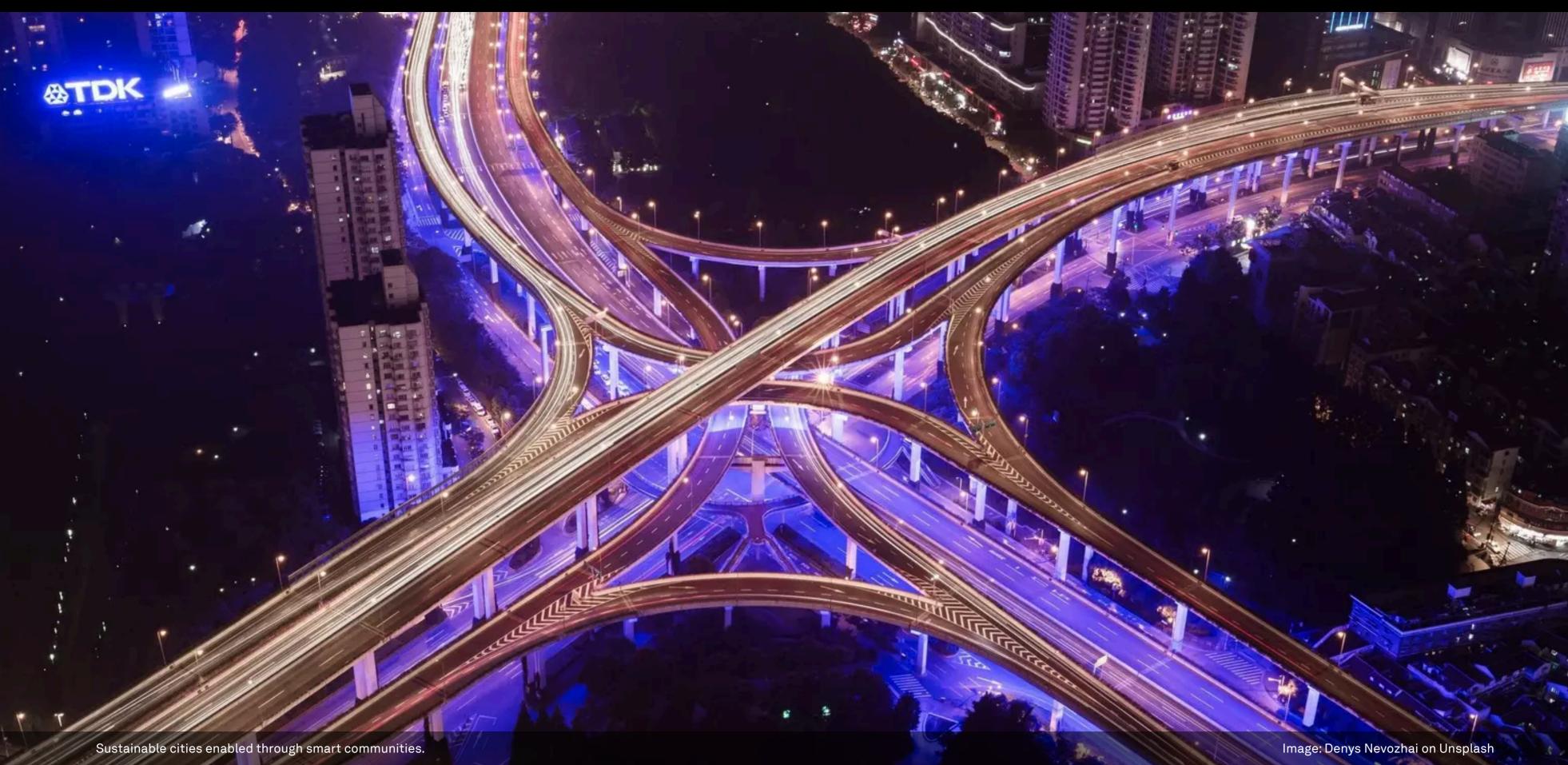
CLIMATE ACTION 'My Carbon': An approach for inclusive and sustainable cities

Sep 14, 2022



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This article is part of:

the share of individual emissions is significant. • Personal carbon allowance programs have had limited success due to a lack of awareness and fair mechanism for tracking emissions.

• While transport and buildings are the major drivers for emissions in cities,

7 min listen

- Yet there have been major developments in recent years that could help realise "My Carbon" initiatives.
- Cities across the world account for almost 75% of our total carbon emissions.
- As countries move towards implementing their pledges for a net zero future, urban areas will remain the action ground for decades to come. While transport and buildings are the major drivers for emissions in cities, the

Have you read? These innovations from China are improving resiliency and sustainability

failure in the journey towards sustainability. Community-led initiatives can

make a significant contribution towards sustainability, increase resilience

allowance programs in discussions for the last two decades, however they

and social cohesion. There have been numerous examples of personal carbon

• These are the world's most sustainable cities

share of individual emissions are significant at around 40%.

Inclusivity of citizens is becoming the most important element of success or

• 5 ways to speed up the creation of smart cities

had limited success due to a lack of social acceptance, political resistance, and a lack of awareness and fair mechanism for tracking "My Carbon"

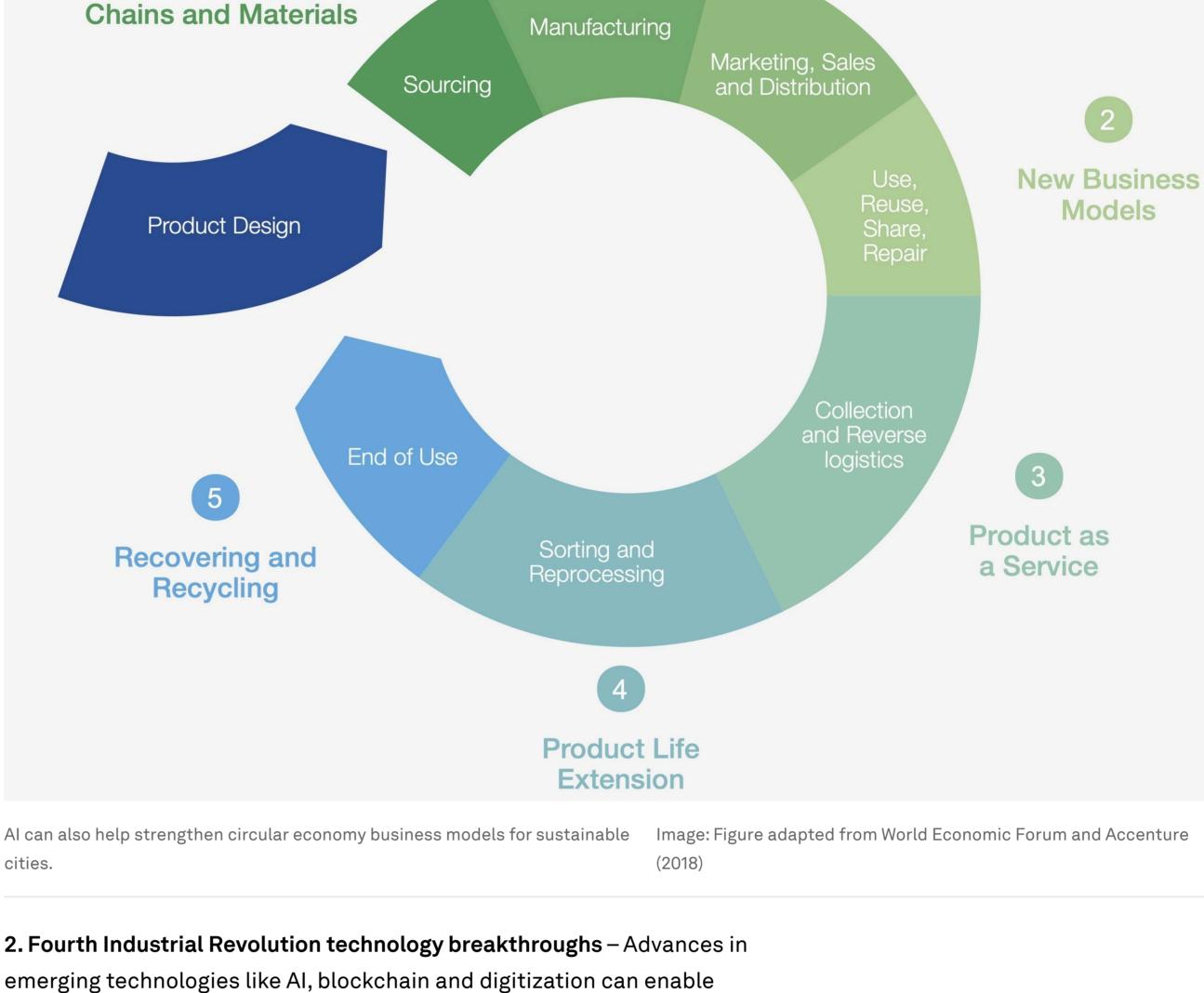
emissions. Our world is transforming – big community trends for sustainable cities There have been significant developments in last five to seven years on social, environment and technology fronts that could help realise "My Carbon" initiatives for shaping the future towards smart and sustainable cities.

1. COVID-19 was the test of social responsibility – A huge number of unimaginable restrictions for public health were adopted by billions of citizens across the world. There were numerous examples globally of

maintaining social distancing, wearing masks, mass vaccinations and

Specifically, to mention three developments in this context:

acceptance of contact-tracing applications for public health, which demonstrated the core of individual social responsibility. **Circular Supply**



There have been major advances in smart home technologies, transport choices with carbon implications, the roll-out of smart meters in providing individual choices to reduce their energy-related emissions, the development of new personalized apps to account for personal emissions, and better personal choices for food and consumption-related emissions. AI can also help strengthen circular economy business models like product as a service models, demand predictions, and smart asset management by combining real time and historical data from products and users.

There is a significant number of programs and applications enabling citizens

to contribute towards carbon emissions by providing them in-depth

awareness on the choices of personal carbon for food, transport, home

tracking personal carbon emissions, raise awareness and also provide

product and services. The World Economic Forum's Scale 360 initiative

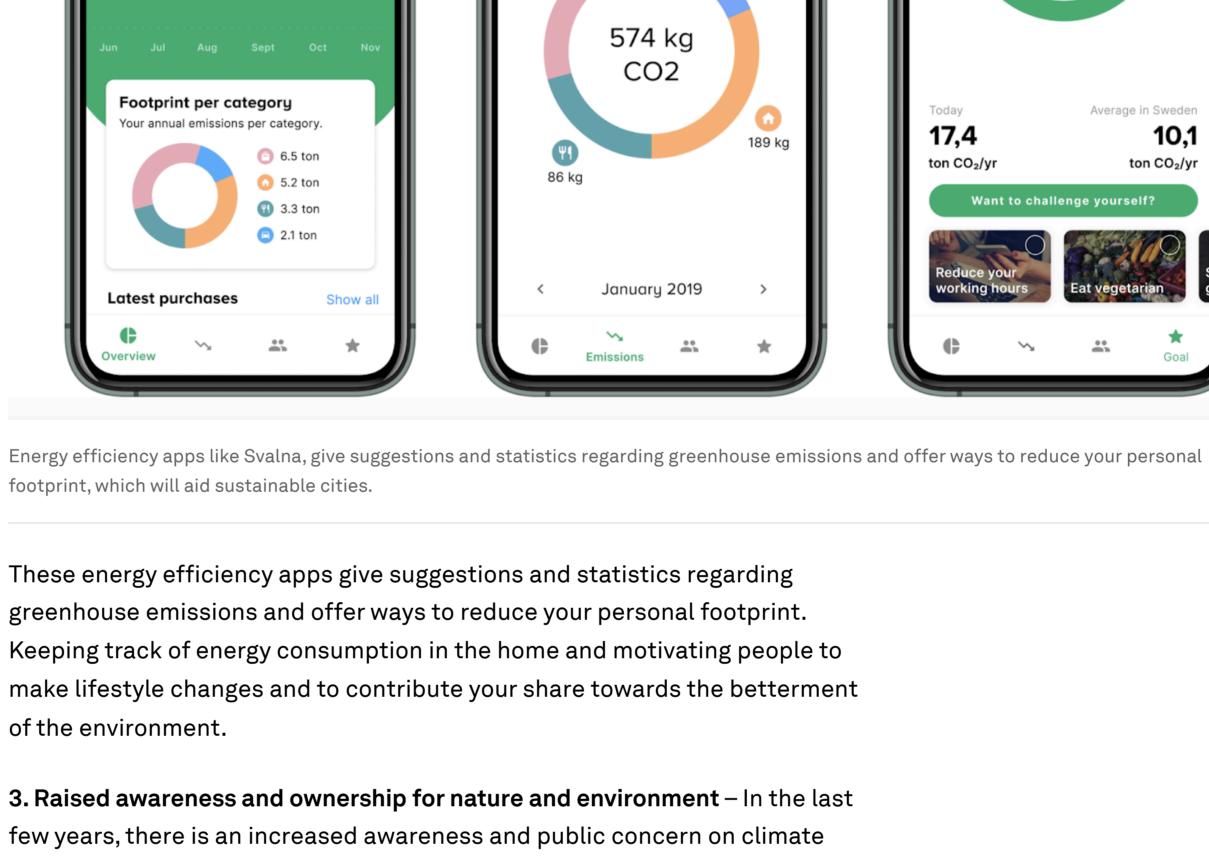
whole life cycle of products and services.

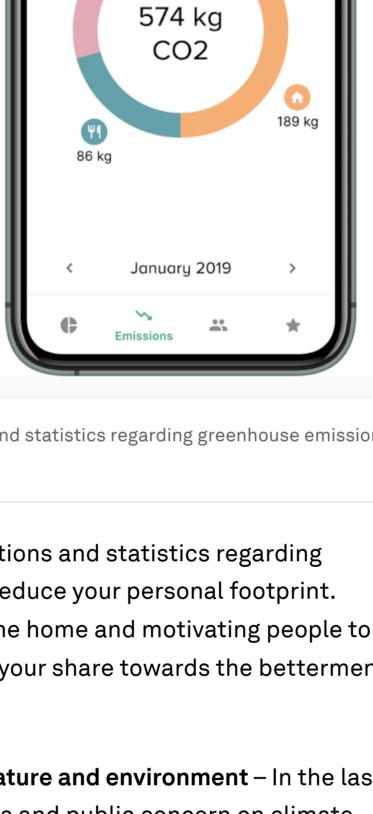
energy and lifestyle choices.

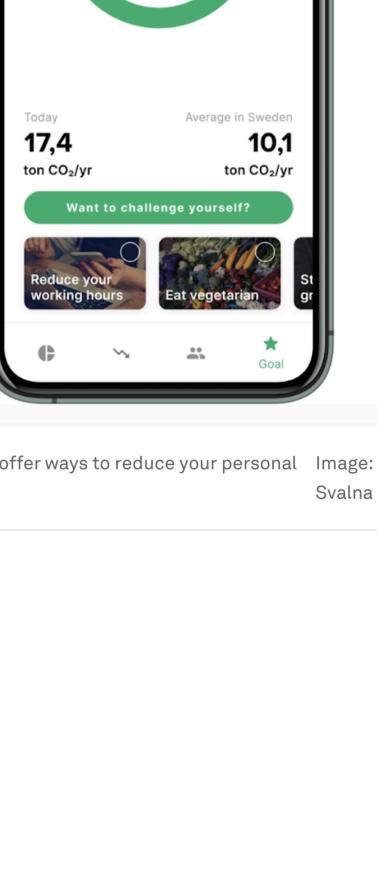
individual advisories on lower carbon and ethical choices for consumption of

demonstrates the use of fourth industrial revolution technologies across the

Emissions Month 6 months Year







Total emissions

17,4

ton CO₂/yr

reflects that over 64% of people believe climate change is a global emergency. A new Pew Research Center survey in 17 advanced economies found widespread concern about the personal impact of global climate change: 80% of citizens say they are willing to change how they live and work to combat the effects of climate change. Young adults, who have been at the

forefront of some of the most prominent climate change protests in recent

years, are more concerned than their older counterparts about the personal

impact of a warming planet in many public surveys.

change and specially among youth. The UNDP's "Peoples' Climate Vote"

What next? Sustainable cities enabled through smart communities The three trends provide strong evidence towards enabling a social movement for "My Carbon" initiatives by enabling public-private partnerships to help curate this program. It is suggested to drive a three-way approach to shape this movement.

Such economic action will need policy enablement from city leadership

through extensive discussion between stakeholders to arrive at a fair and

The levers of Cognitive Enablement and Social Norms will be much more

impactful through citizen engagement programs and learnings from the

above-mentioned trends need to be captured to design these programs.

What is the Forum doing to help cities to reach a net-

Innovative AI and machine-learning capabilities would help capture embedded emissions in goods and services, and could help in providing individuals with tailored and timely advice on how to reduce their lifestyle emissions.

The three trends provide strong evidence towards enabling a social movement for "My Carbon" initiatives for sustainable cities.

Finally, it is significant that all stakeholders across the value chain come together and contribute towards achieving a net-zero future by leaving no one behind.

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inclusive approach.

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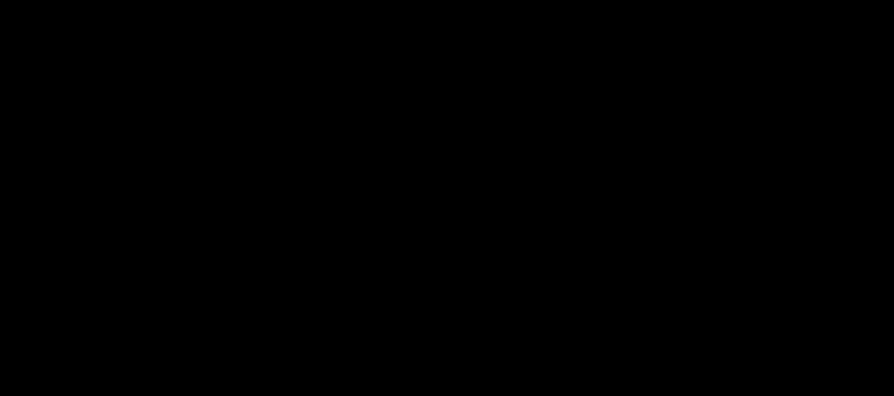
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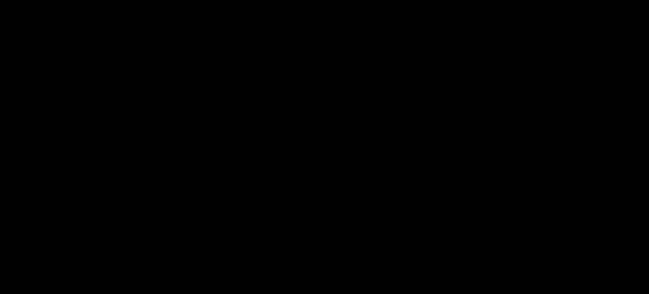
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