



Healthy Cities 2.0: One Planet living in the Anthropocene

EAROPH

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• Welcome to the Anthropocene •

VIDEO

<https://www.youtube.com/watch?v=fvgG-pxlobk>





Key aspects of the Anthropocene

- **Climate change**
- **Ocean acidification**
- **Ozone layer depletion**
- **Resource depletion**
- **Pollution**
 - **Ecotoxicity**
- **Species extinctions**





It is the both the **scale** and
the **rapidity** of change
that matters





My life in the Anthropocene

I was born in 1948. From then to approx 2010/2012

Socio-economic trends

Population	2.73 x
Real GDP (2005 US\$)	11.1 x
Urban population	4.74 x
Primary energy use	5.14 x
Fertilizer consumption	14.4 x
Large dams	5.85 x
Water use	3.28 x
Paper production	5.38 x
Transportation (vehicle #s)	7.23
Telecommunications (billion landlines and subscriptions)	> 9,000 x
International tourism arrivals	37 x

Earth System trends

CO ₂	+ 26%
Methane	+59.5%
Global surface temperature anomaly (°C) v 1961-1990	+ 0.471 v - 0.036
Ozone loss (2012) • Peak loss (1994)	50.8% 66.9%
Ocean H ion	+18%
Marine fish capture	+ 4.6 x
Nitrogen flux to coast	4.26 x
Tropical forest loss (compared to 1% in 1700)	27.66% v 15.65%
Agricultural land % of total (0.08% in 1750)	0.38% v 0.31%
Terrestrial biosphere degradation (2.8% in 1700)	28.6% (20% in 1950) 14% (1900)





**In Canada and Australia we
act as if we had this . . .**





. . . when we actually
have this





**So we have to find a way
to live together within
the constraints of this
one small planet, which
means . . .**





**. . . an 80% reduction in
Canada's and
Australia's footprint**





**. . . while at the same
time meeting basic
needs and ensuring
high levels of human
and social development
and good health for all**





**We call this
One Planet Living –**





Achieving One Planet Living – A local example


Conversations for a One Planet Region, Victoria BC

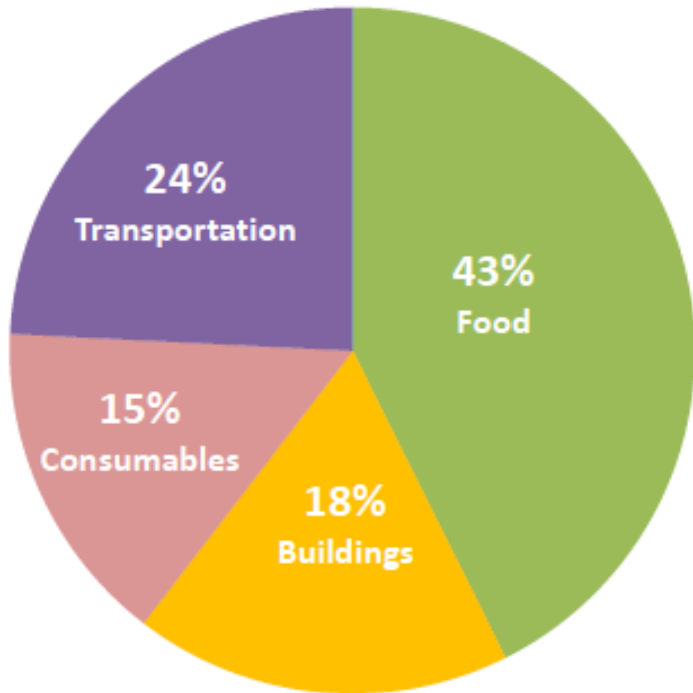
Learn - Discuss - Imagine - Design - Create




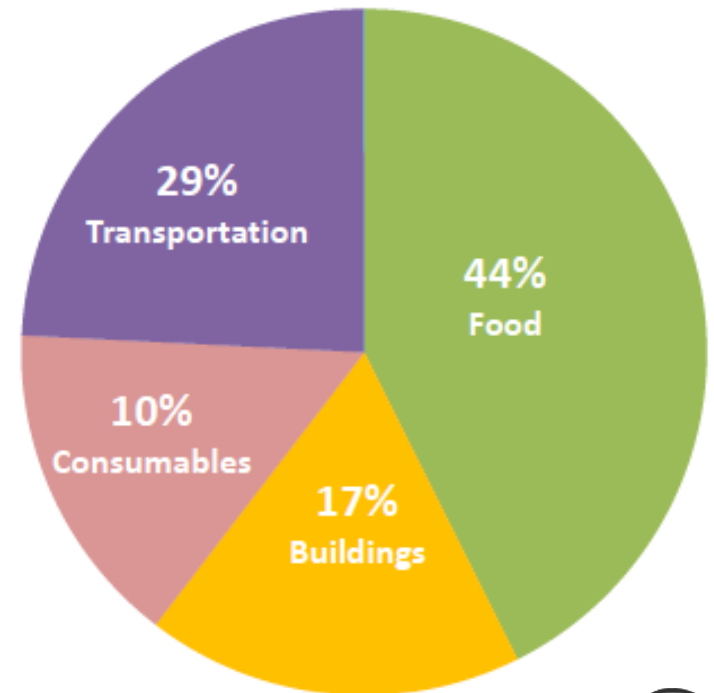


Local ecological footprint = 2 – 3 planets

Victoria Ecological Footprint 



Saanich Ecological Footprint 

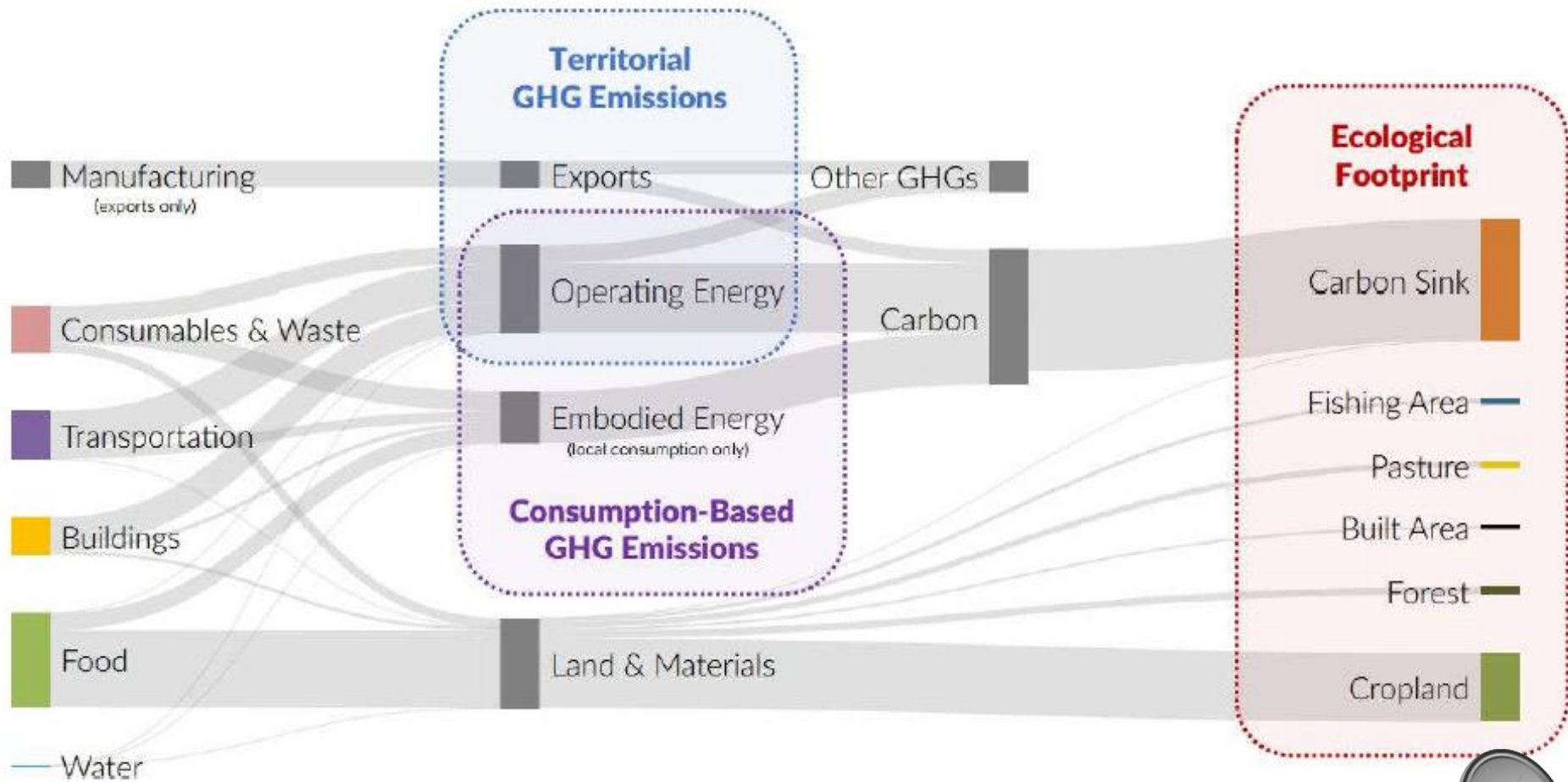


Source: Moore and Hallsworth, 2018



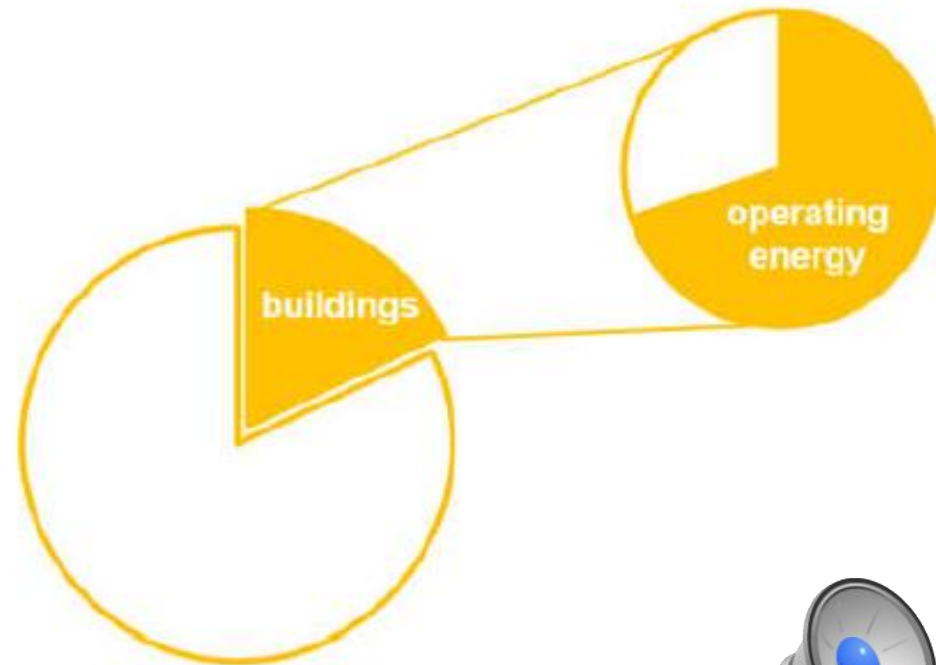
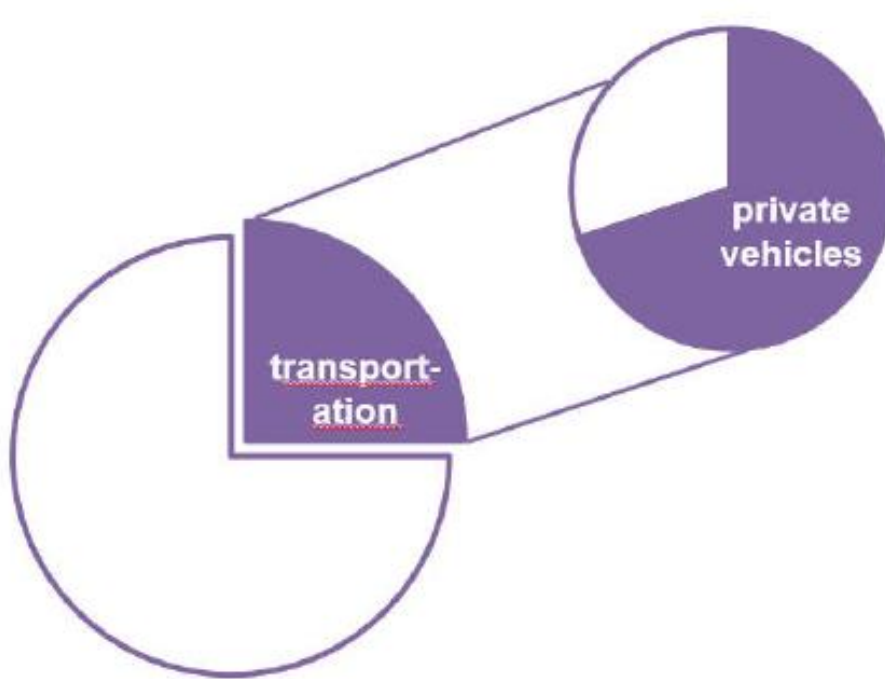
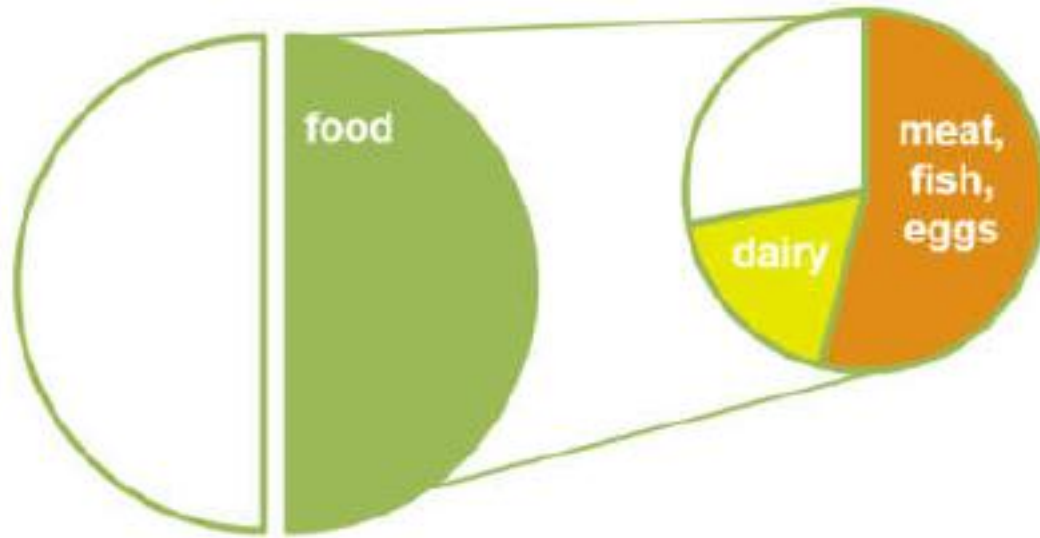


Main contributors: Carbon and cropland



Source: Moore and Hallsworth, 2018





Source: One Planet Saanich Team, 2018





Suggested key steps:

Target approx 1.5 gha/person

Suggested change	EF reduction, gha/person
Eliminate fossil fuel emissions in buildings	0.41
Convert half of gasoline private vehicles to electric	0.18
Reduce purchase of non-food consumables by 30%	0.15
Reduce meat and dairy by 25%	0.12
Purchase 25% less food	0.11
TOTAL	0.97

Source: Moore and Hallsworth, 2018





Conversations for a One Planet Region

Vision

- The Greater Victoria Region achieves social and ecological sustainability, with a high quality of life and a long life in good health for all its citizens, while reducing its ecological footprint to be equivalent to one planet's worth of bio-capacity.

Mission

- The Mission of *The Conversations* is to establish and maintain community-wide conversations on One Planet living and a One Planet Region.

<https://creativelyunited.org/one-planet-region/>

Learn - Discuss - Imagine - Design - Create





Getting to a One Planet Region

- **First we need to talk and learn about it**
- **Then we need to imagine it**
- **Then we need to design and build it**
 - **Physical, social, economic and cultural change**
- **And throughout, we need to measure how we are doing**

Learn - Discuss - Imagine - Design - Create





Participation for people and planet

- **Expand and deepen the Conversations**
 - **Webcast them for simultaneous conversations in other parts of our region**
- **Community charettes**
 - **Engage people in co-designing their neighbourhood as a One Planet community**
- **People for a One Planet region**
 - **Train people in each municipality to speak at Council to support plans and proposals that help us create a One Planet Region – and oppose those that do not**
- **Conference + trade show + Community showcase + Film Fest**





**Its not a science and
technology problem**





- **It's a social, economic, political, cultural, ideological, philosophical, ethical and spiritual problem.**
- **So we need philosophers, artists, writers, video and film-makers, faith communities**

