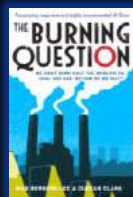
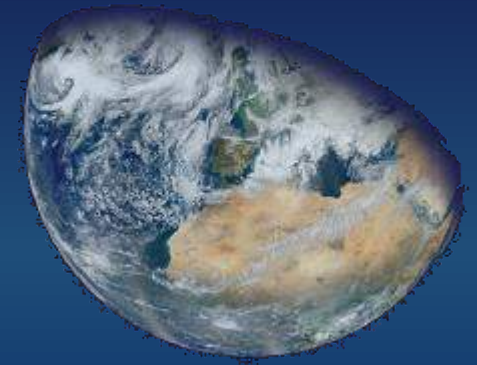


What will it really take to deal with the climate emergency?

Mike Berners-Lee

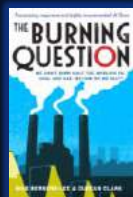




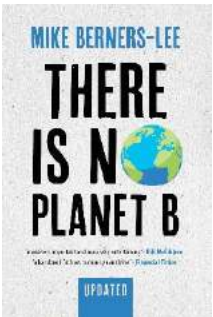
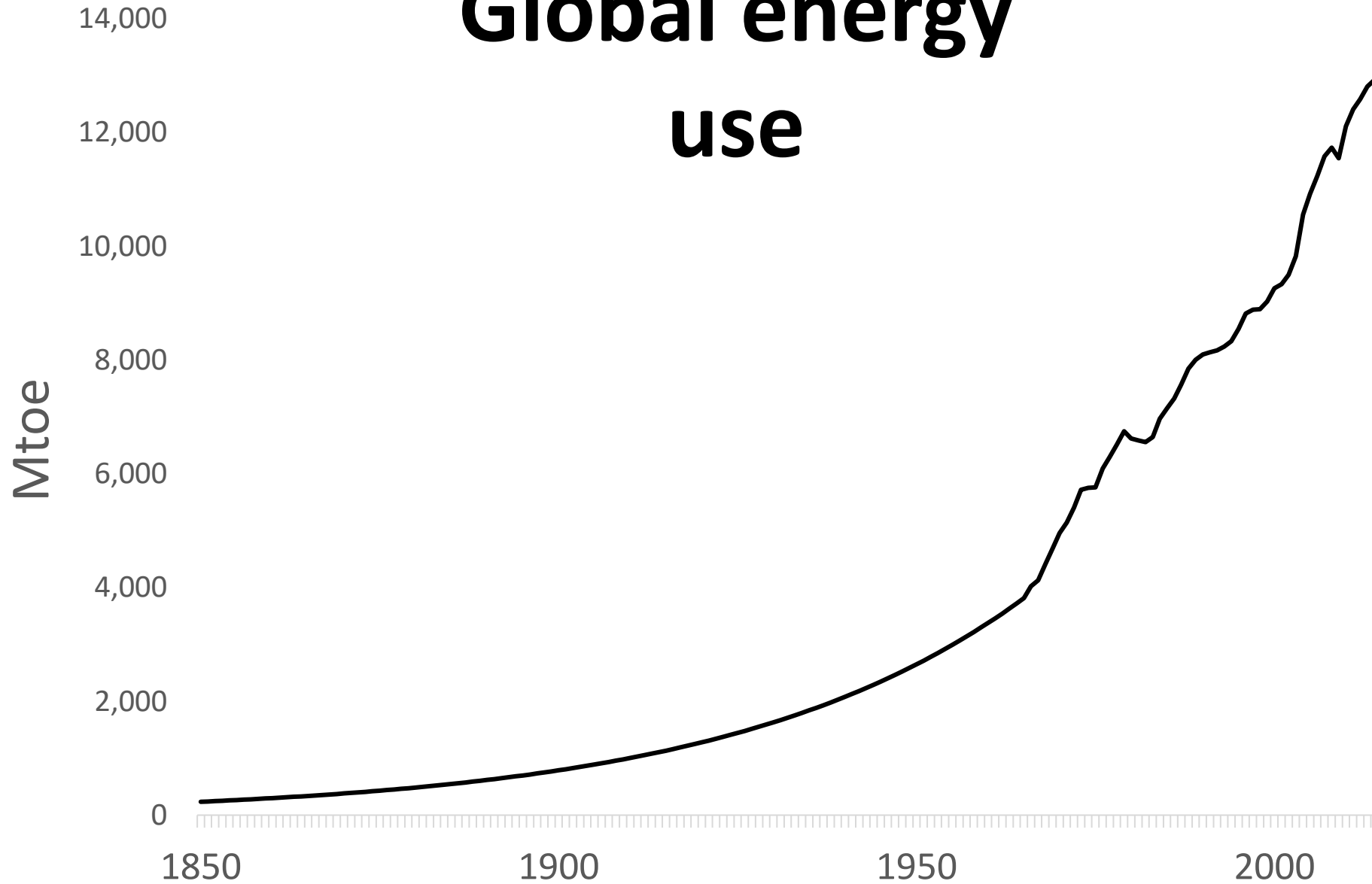
There is No Planet B

A Handbook for the Make or Break Years

Mike Berners-Lee

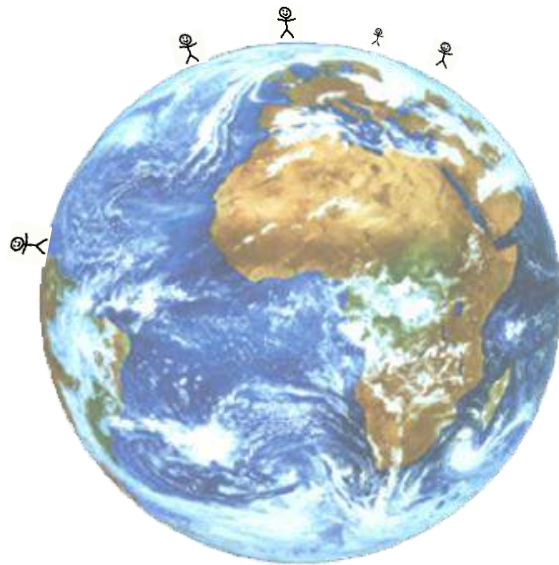


Global energy use



Here we are in the Anthropocene

*For better and worse
Like it or not
Ready or not*



MIKE BERNERS-LEE
**THERE
IS NO
PLANET B**

UPDATED



Is there *really* no Planet B?



Star Trek is
fiction

There Is No Planet B: A Handbook for the Make or Break Years

Climate

Biodiversity

Energy

Food

Transport

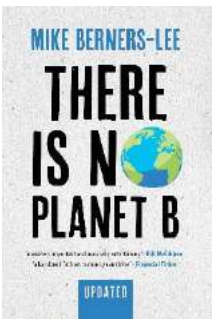
Plastics

Population

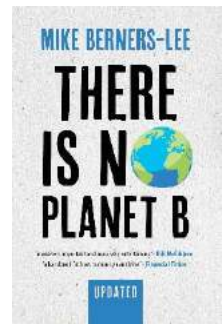
Ocean
Acidification

Other
Pollution

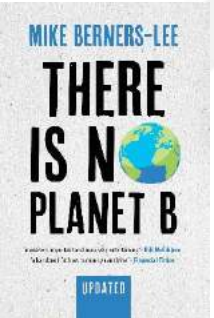
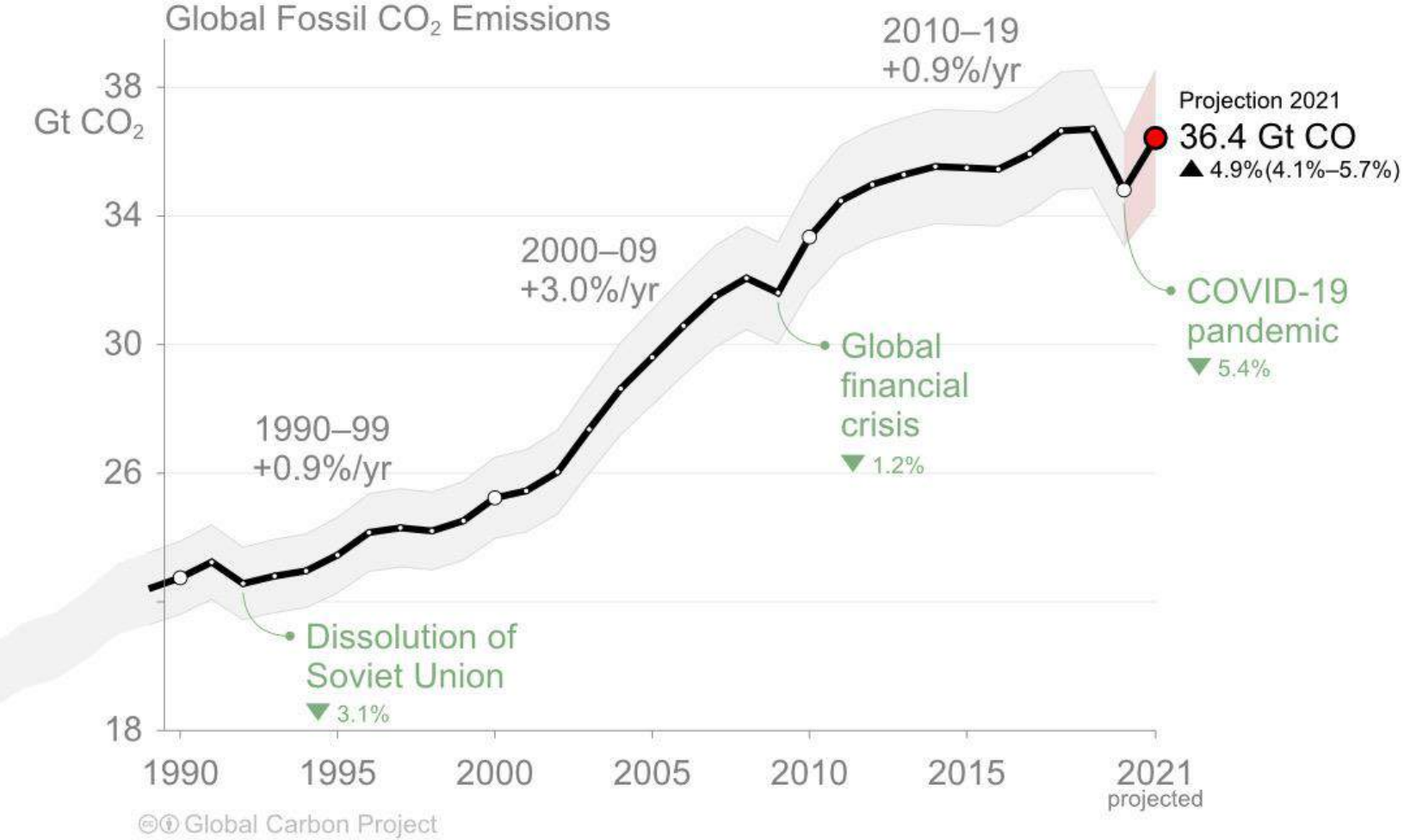
Disease
Threat



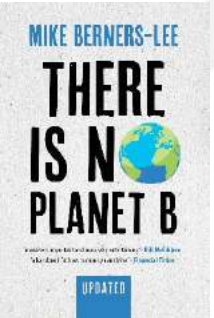
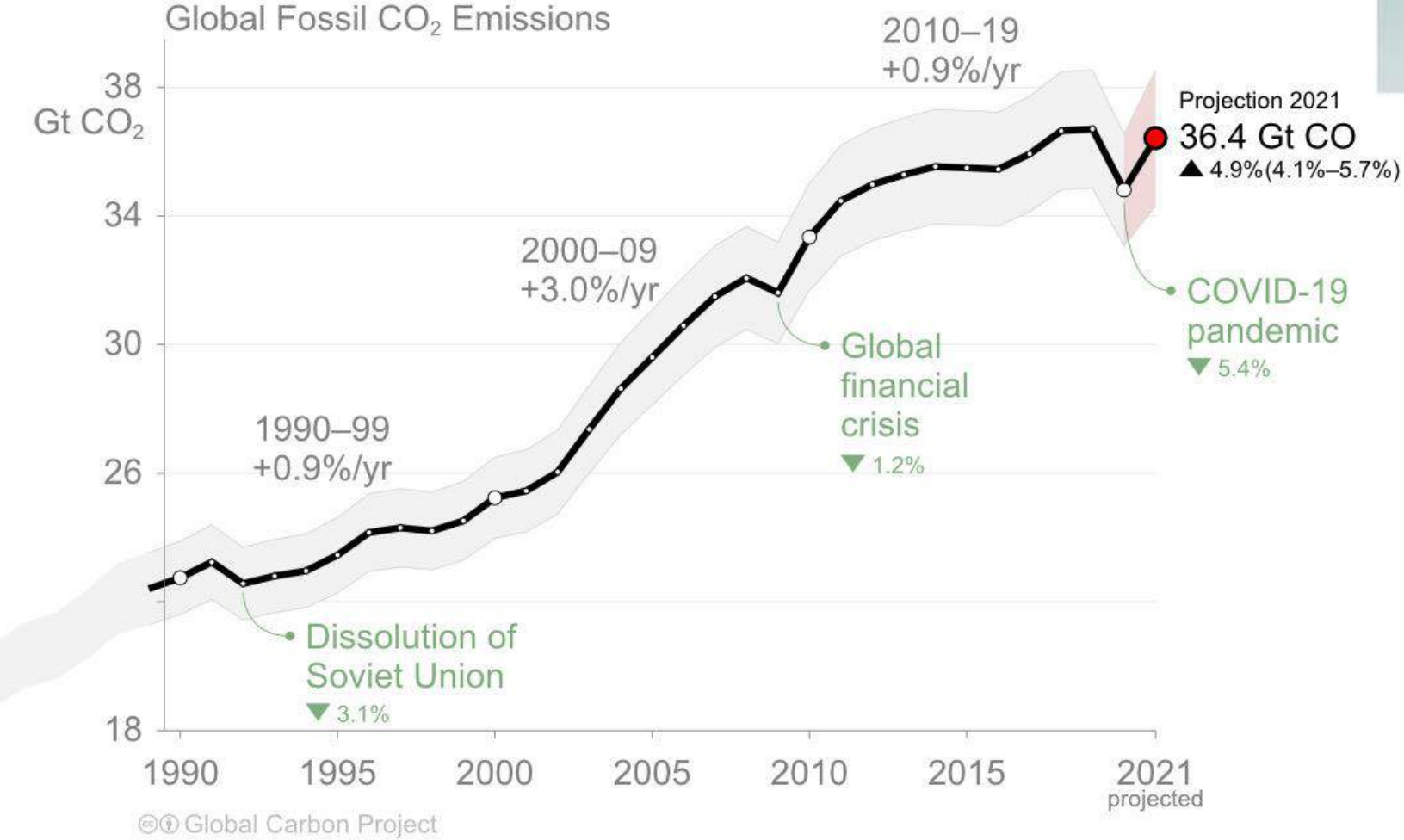
Energy and climate



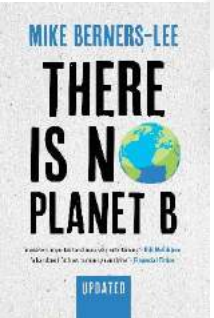
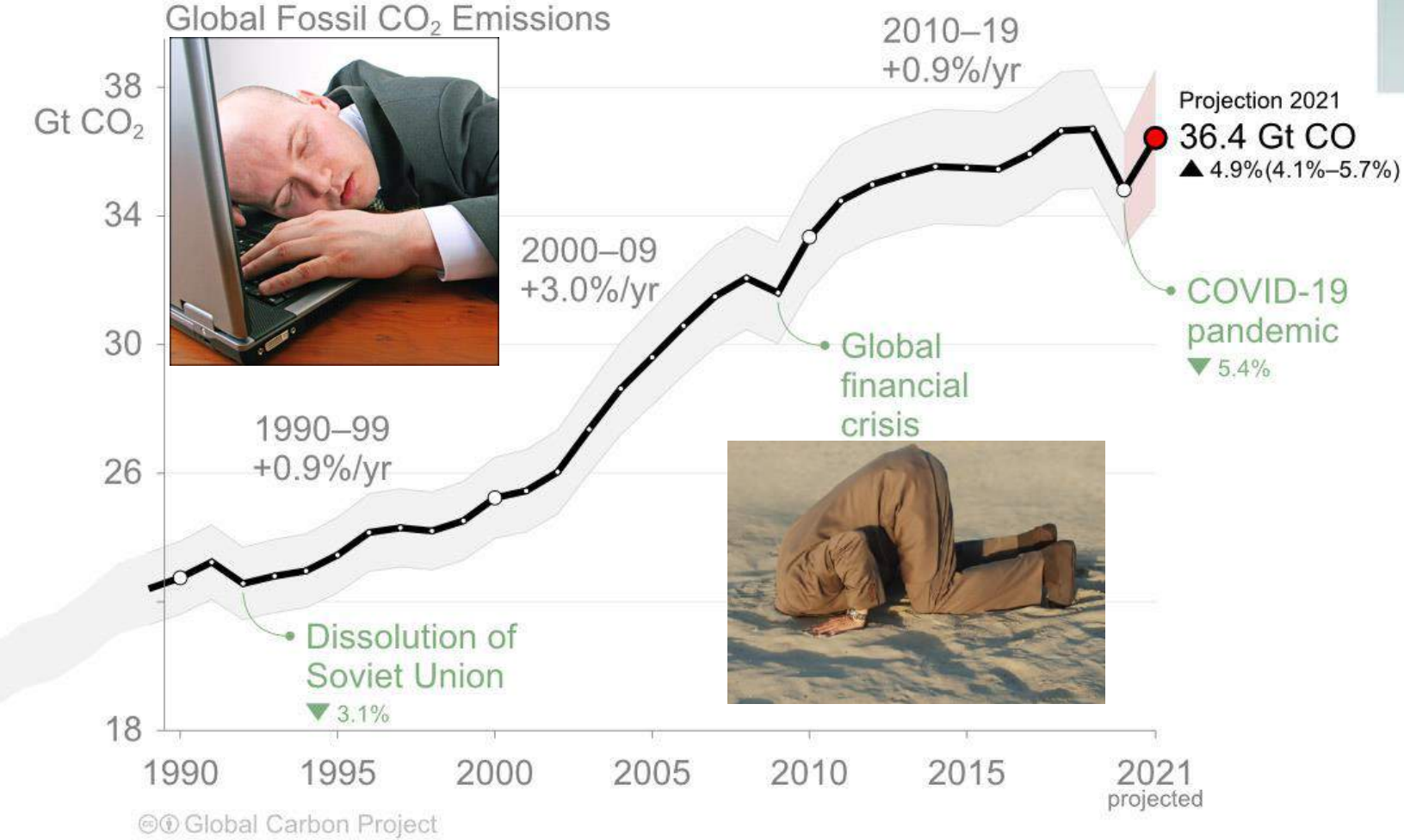
Climate emergency in one slide



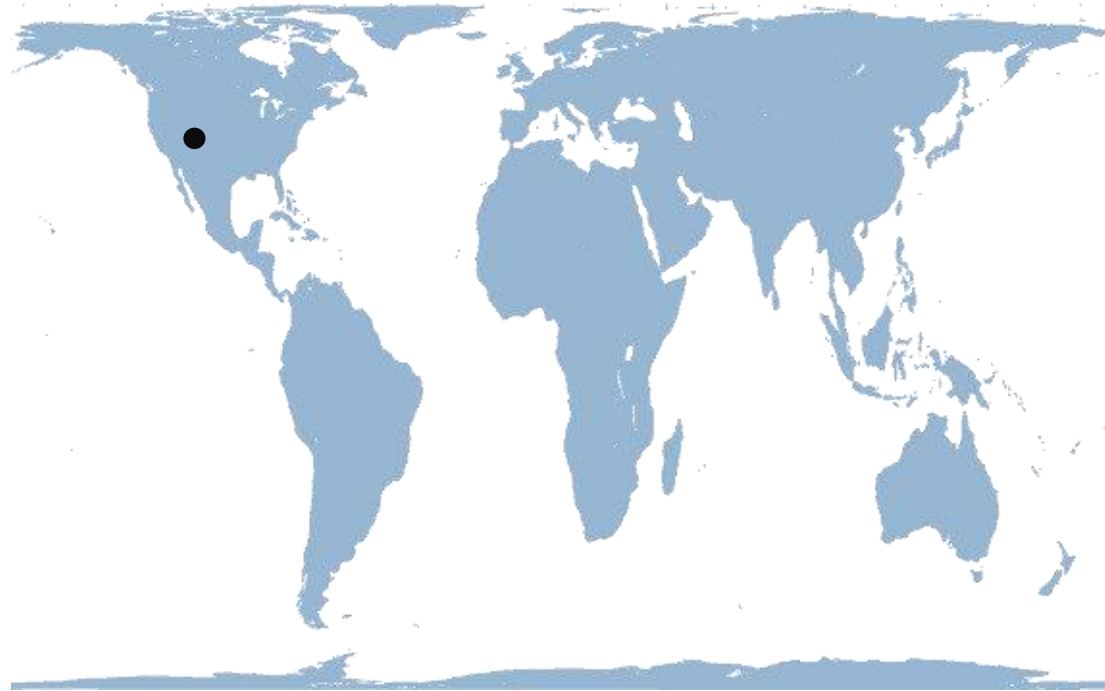
Climate emergency in one slide



Climate emergency in one slide



How much of the world's land area would need to be covered in solar panels to meet today's human energy needs?



2017

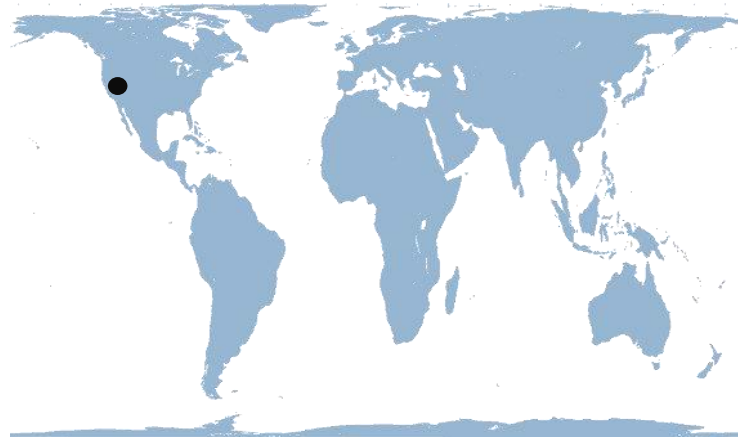
0.1% = 228 miles square

MIKE BERNERS-LEE
**THERE
IS NO
PLANET B**

Updated with the latest data on climate change and the impact of the Paris Agreement

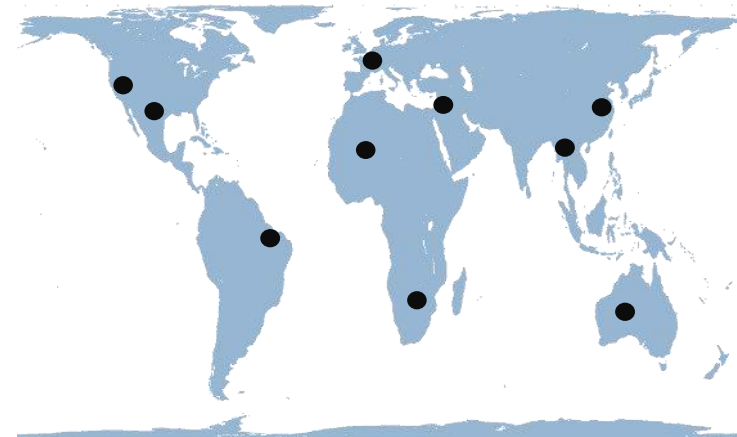
UPDATED

But if we keep growing our supply



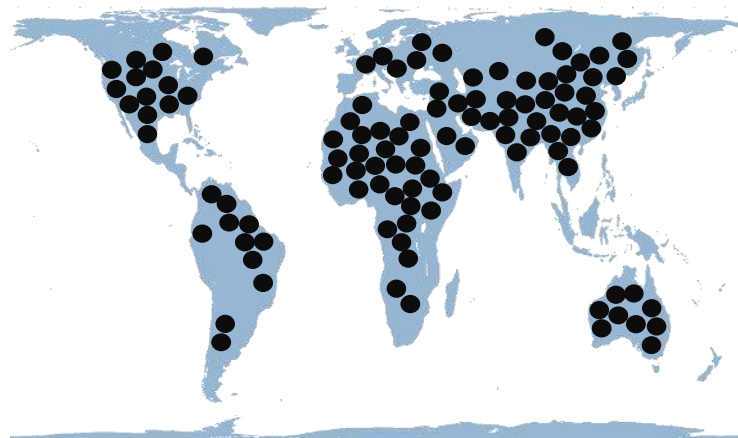
2017

0.1% = 228 miles square



2117

1.0% = 794 miles square



2217

10.4% = 2445 miles square



2317

111.8% = 8004 miles square

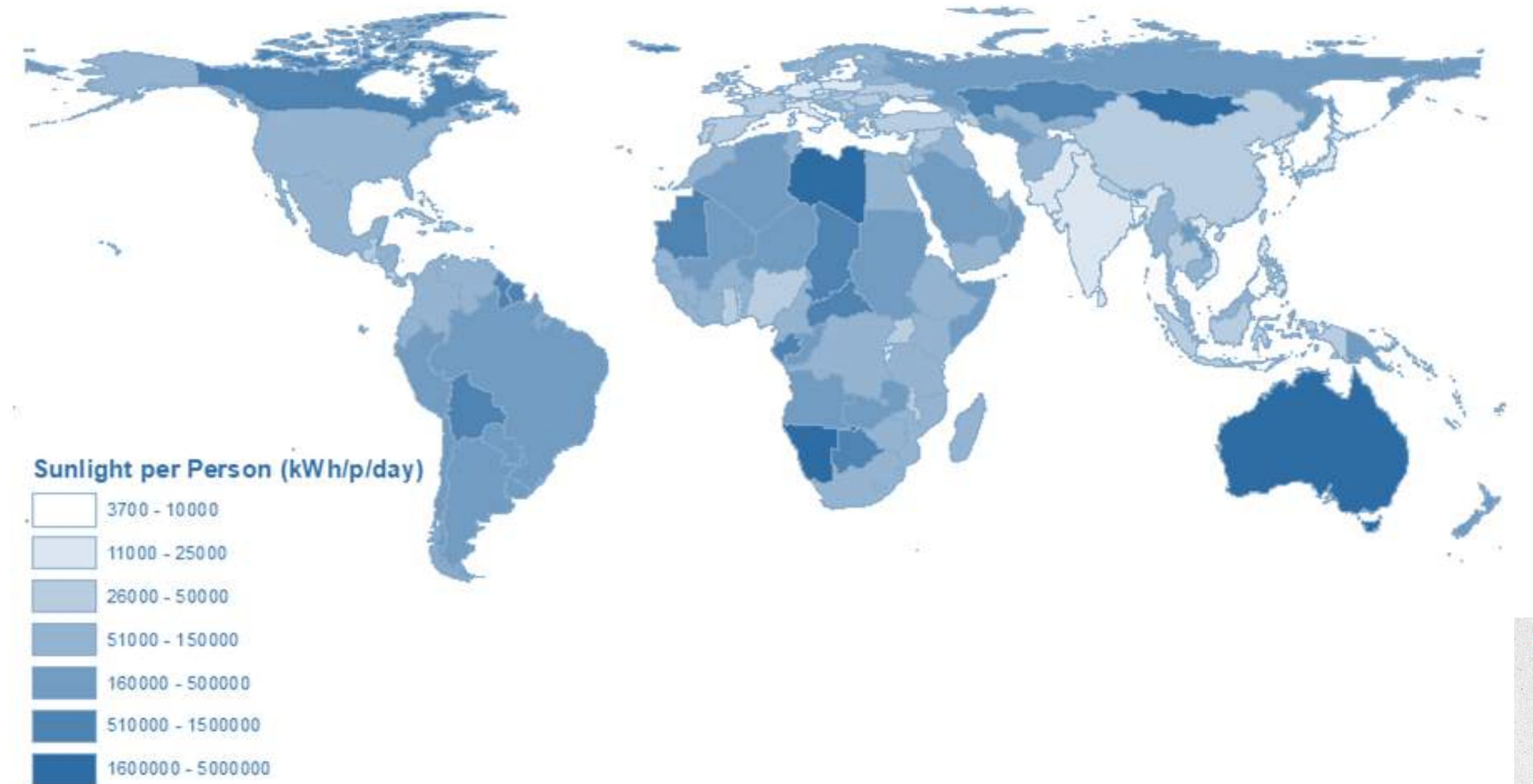
MIKE BERNERS-LEE

THERE IS NO PLANET B

Updated with the latest science and data

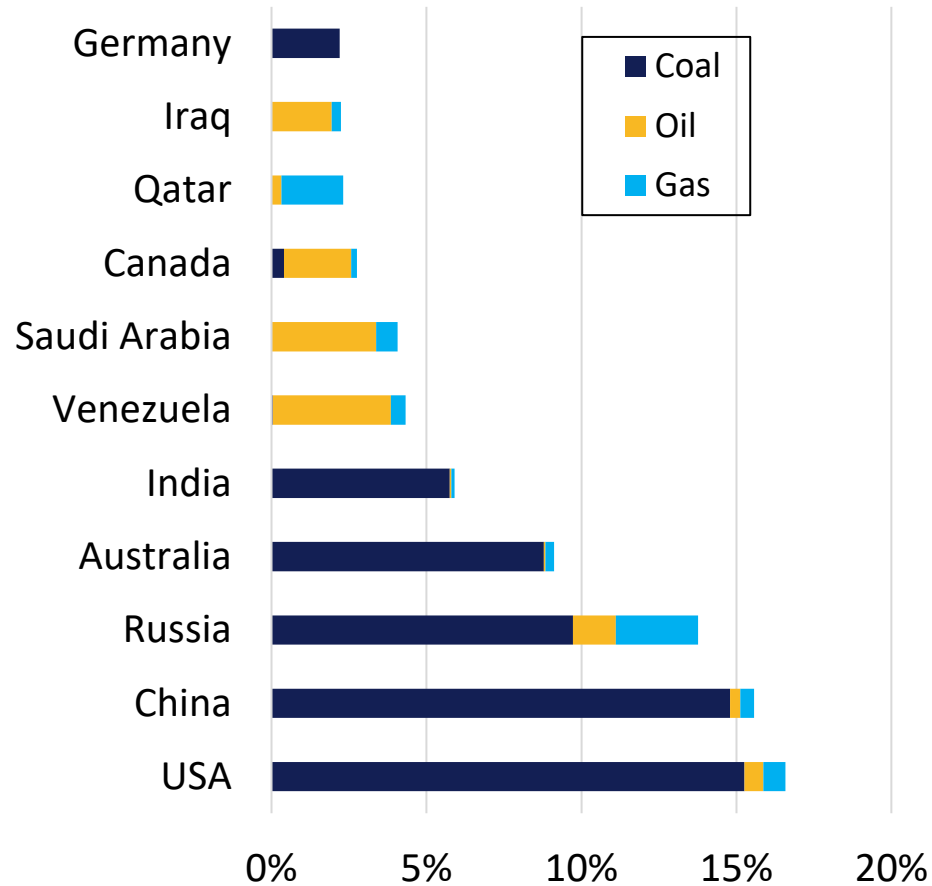
UPDATED

Who gets the sunlight?

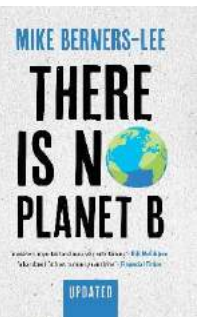
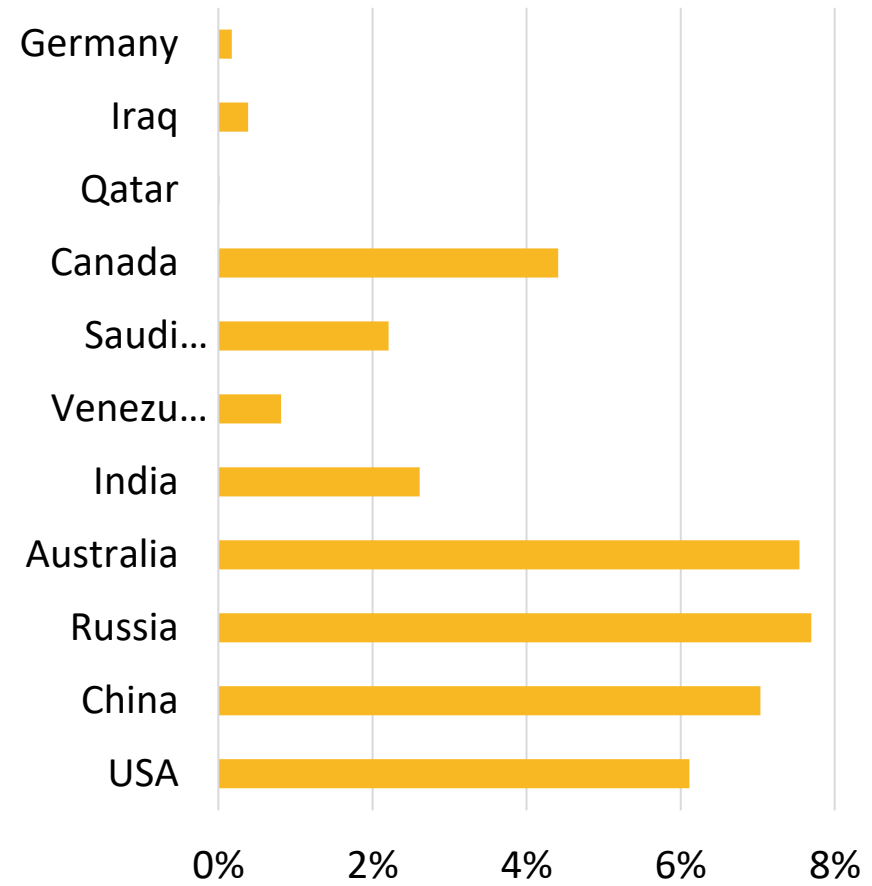


Those with fossil fuels usually also have sun

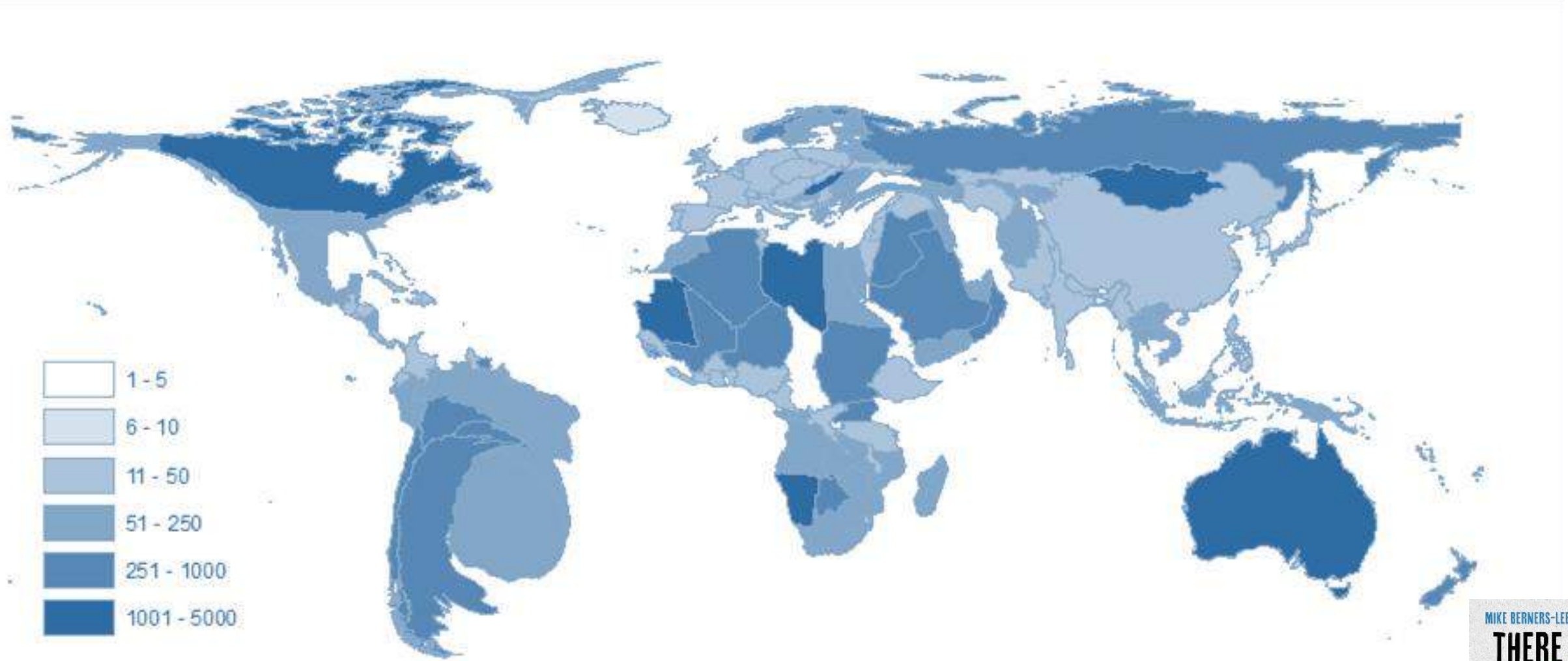
Proportion of all fossil fuel reserves



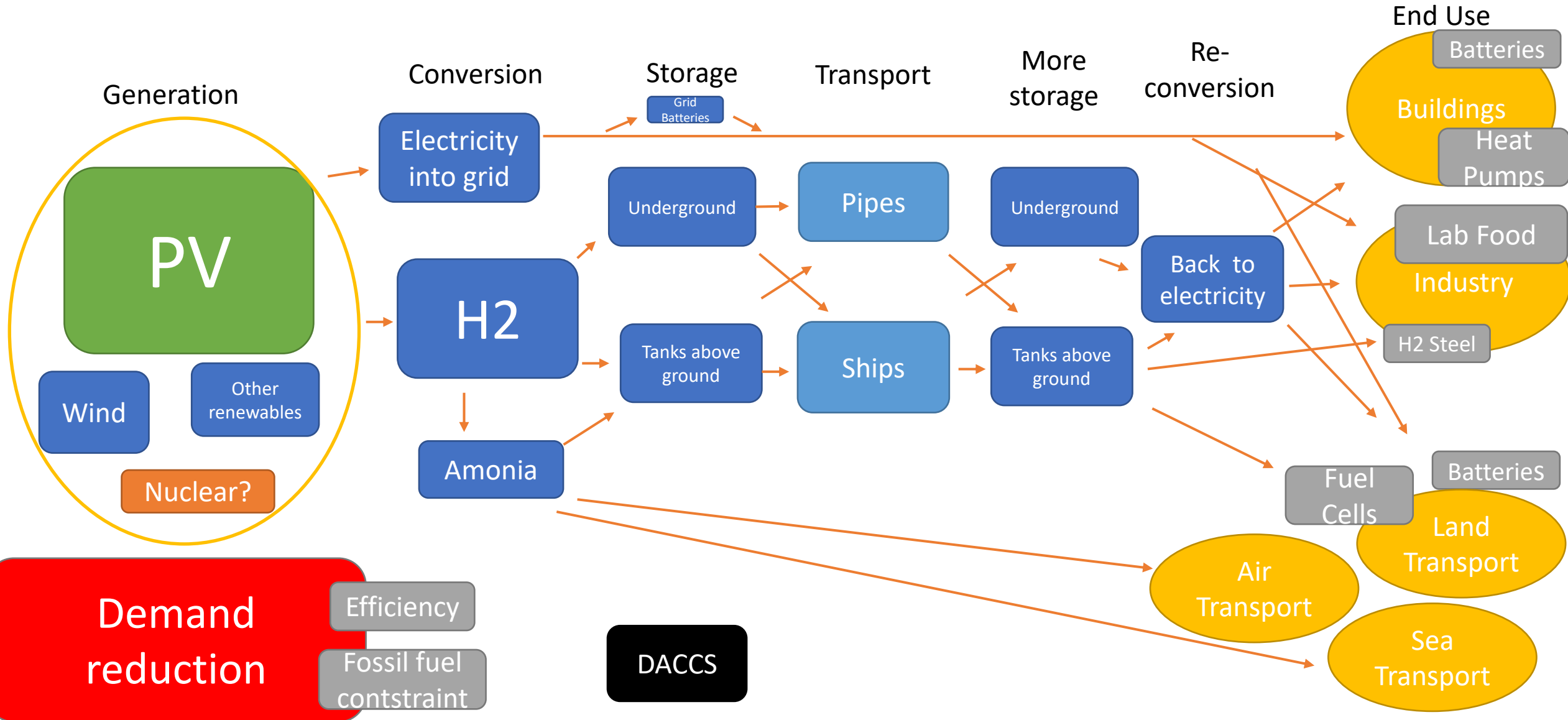
Proportion of all sunlight reaching land



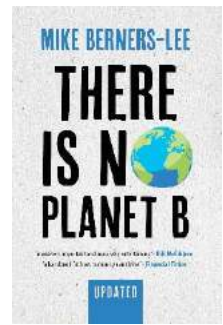
Who has the wind?



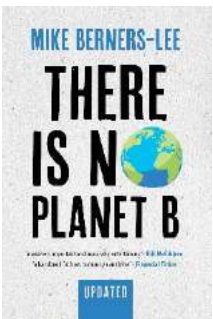
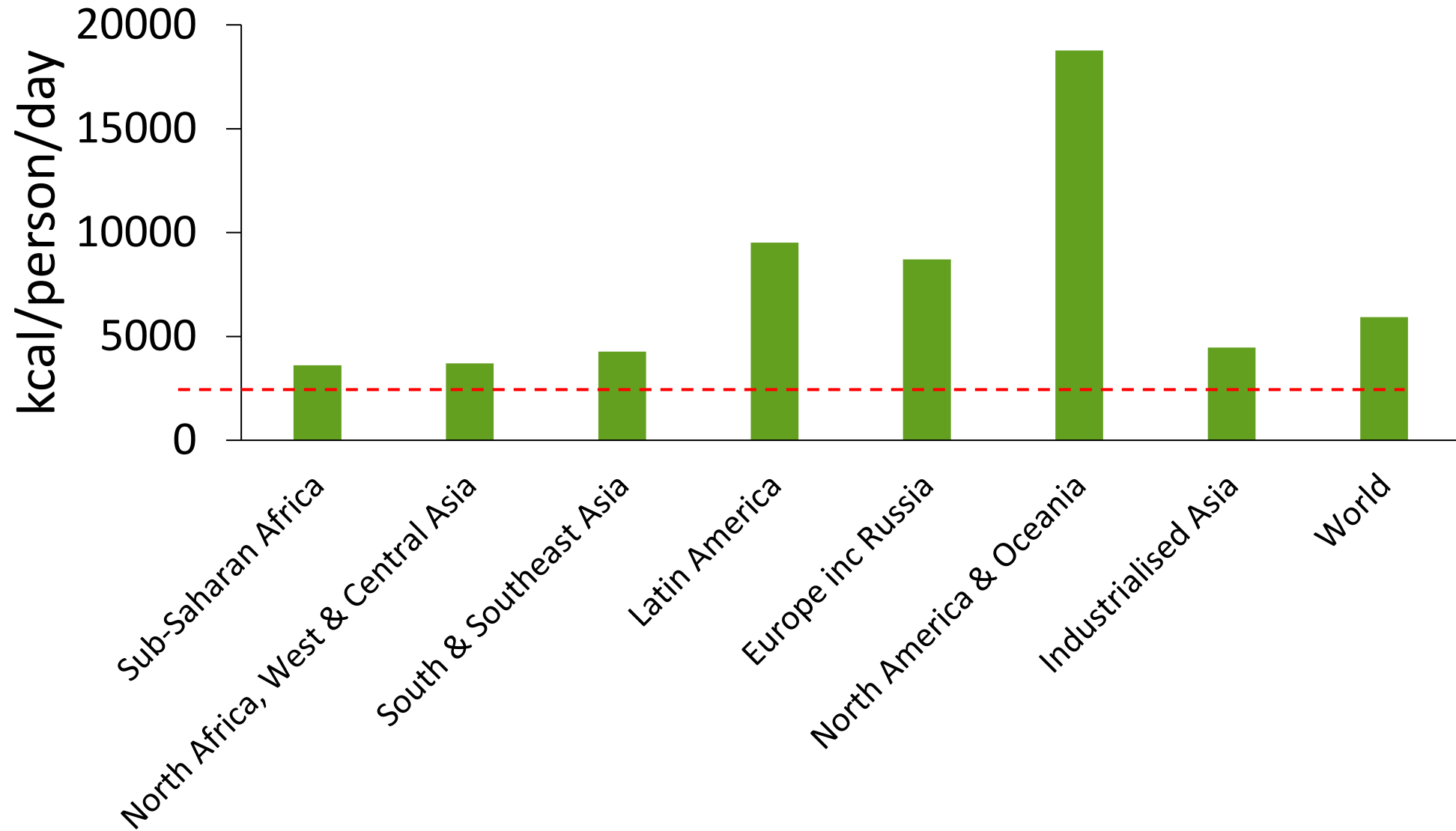
Technical Solution to Energy and Climate



Food, Land and Sea



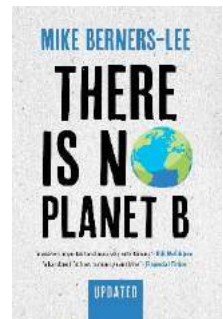
How much human-edible food do we grow?



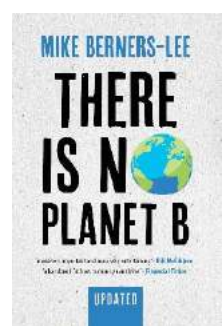
Where do the world's calories go?



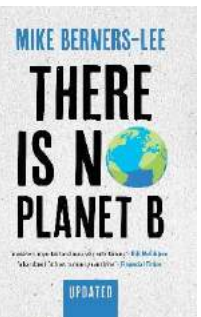
Grown



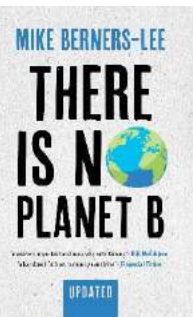
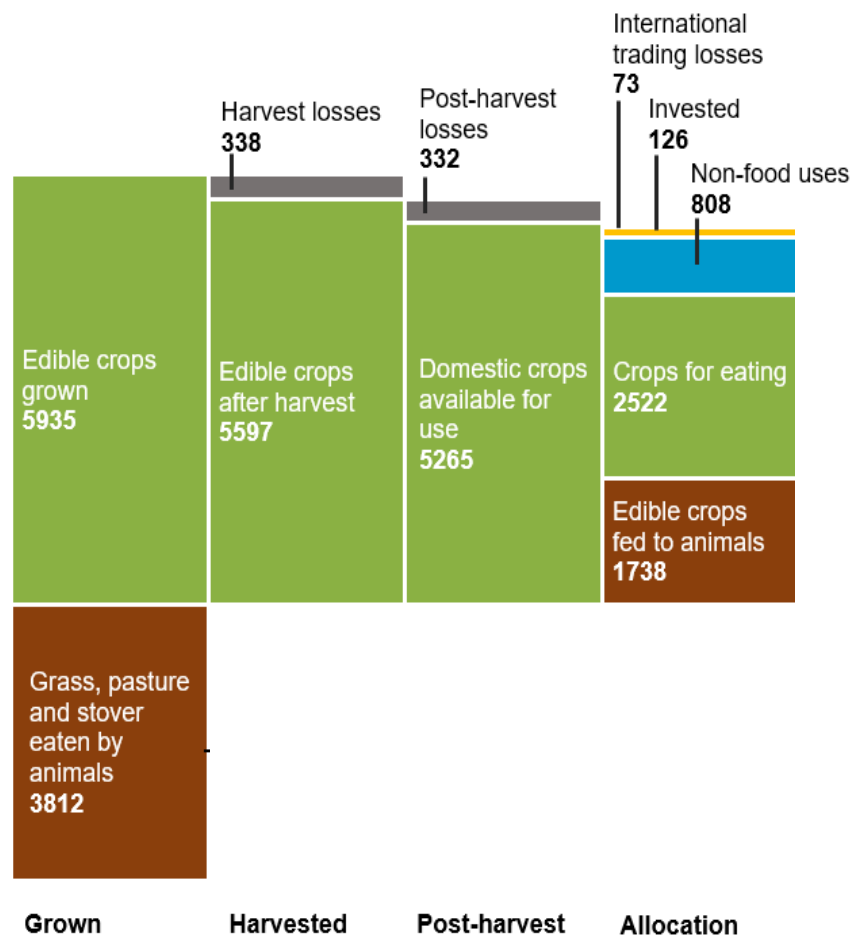
Where do the world's calories go?



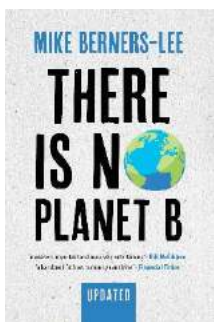
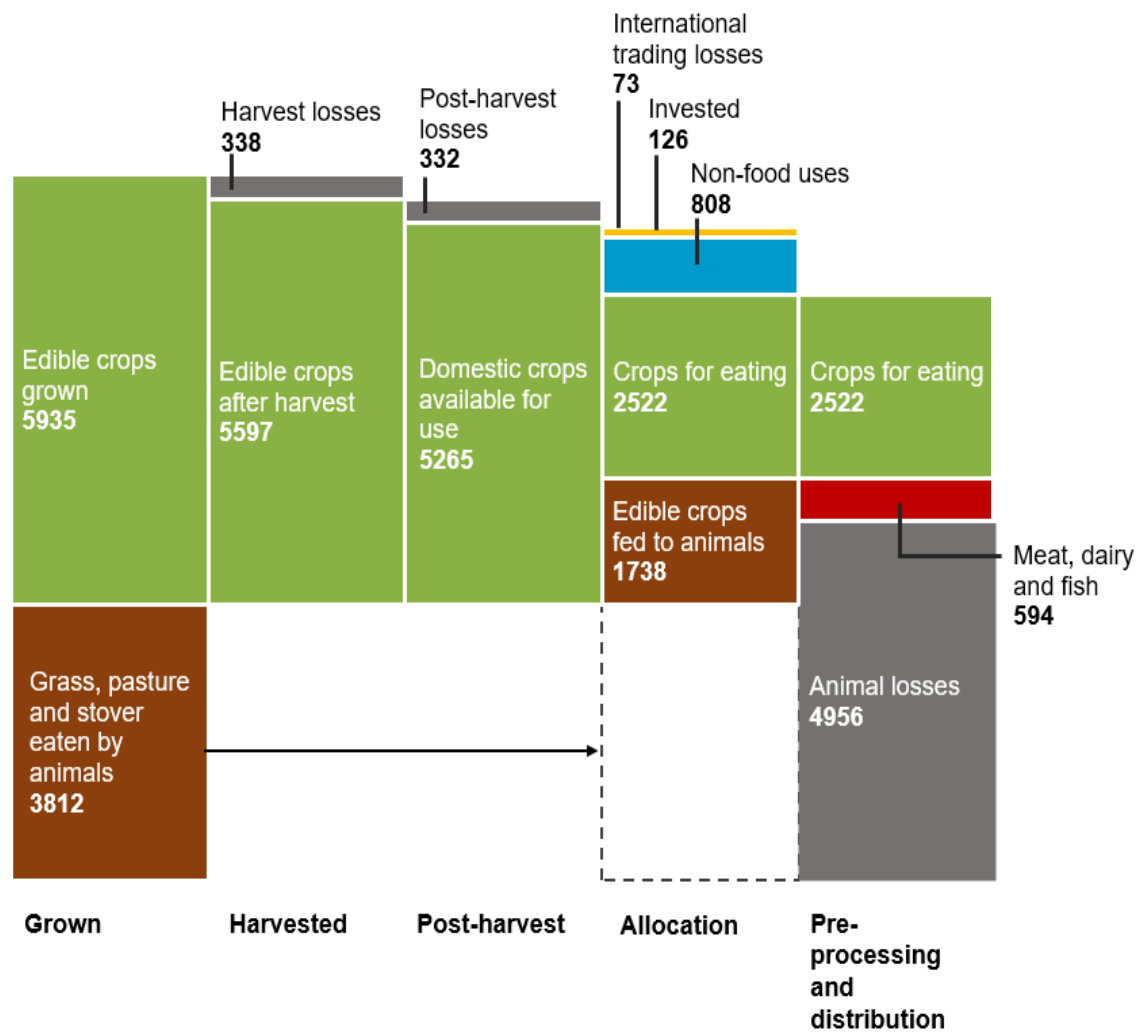
Where do the world's calories go?



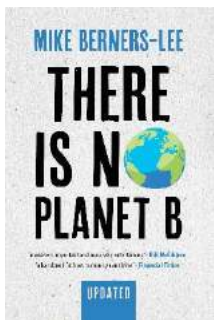
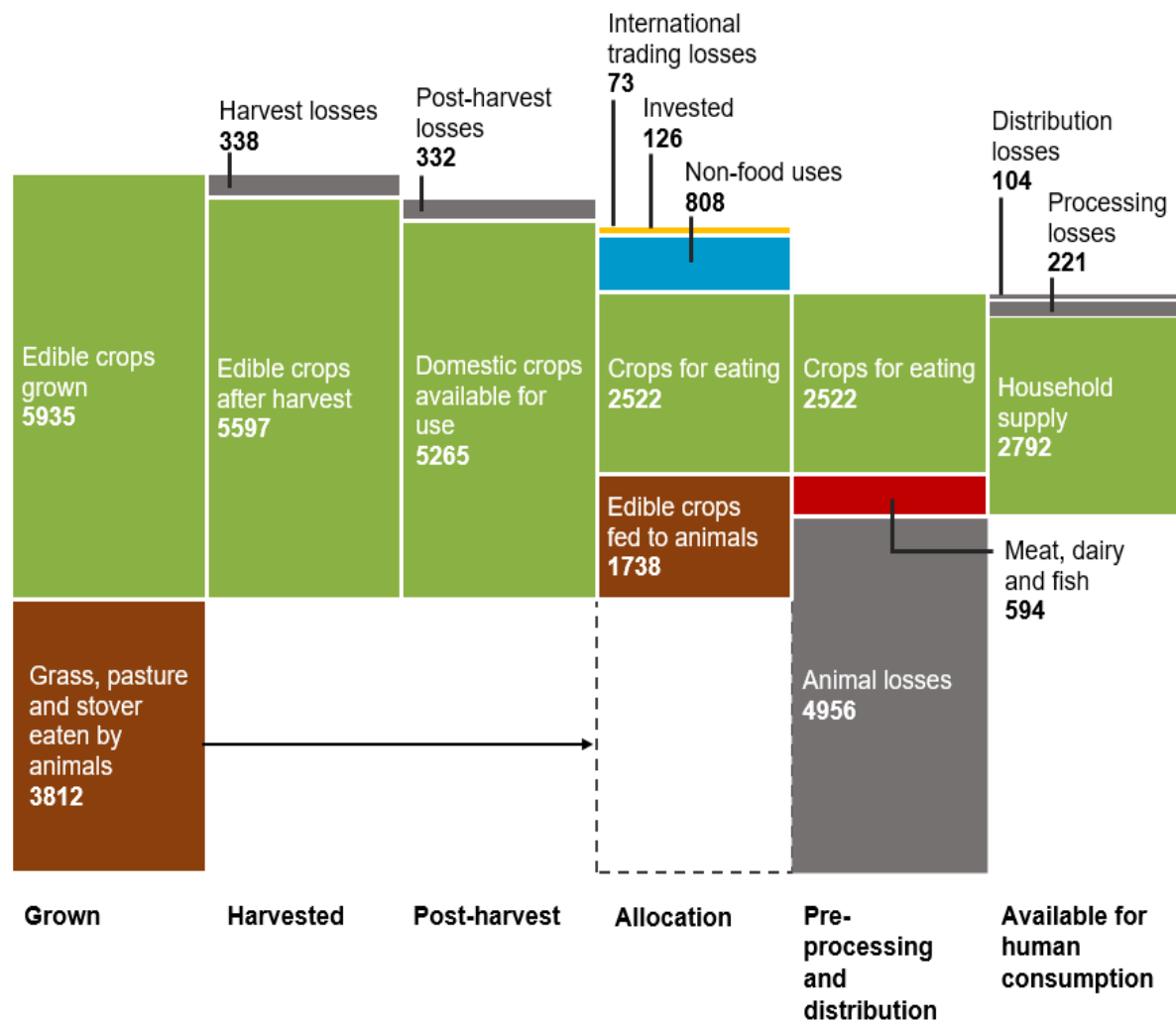
Where do the world's calories go?



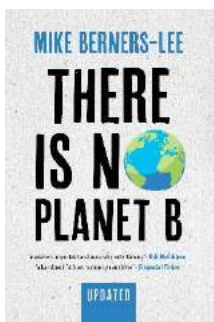
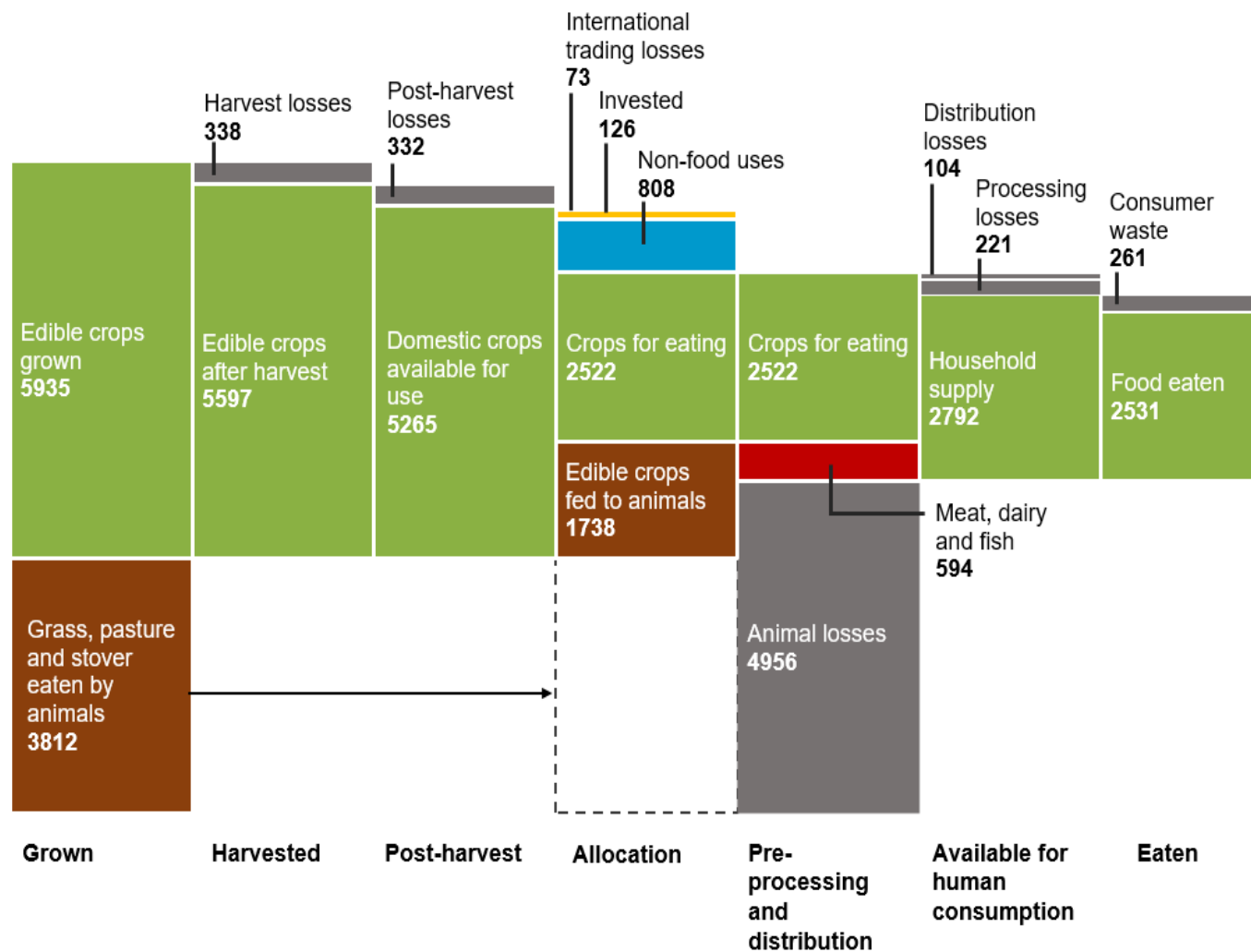
Where do the world's calories go?



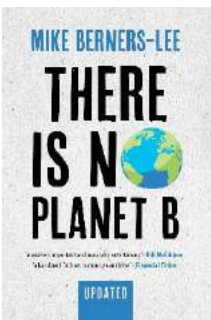
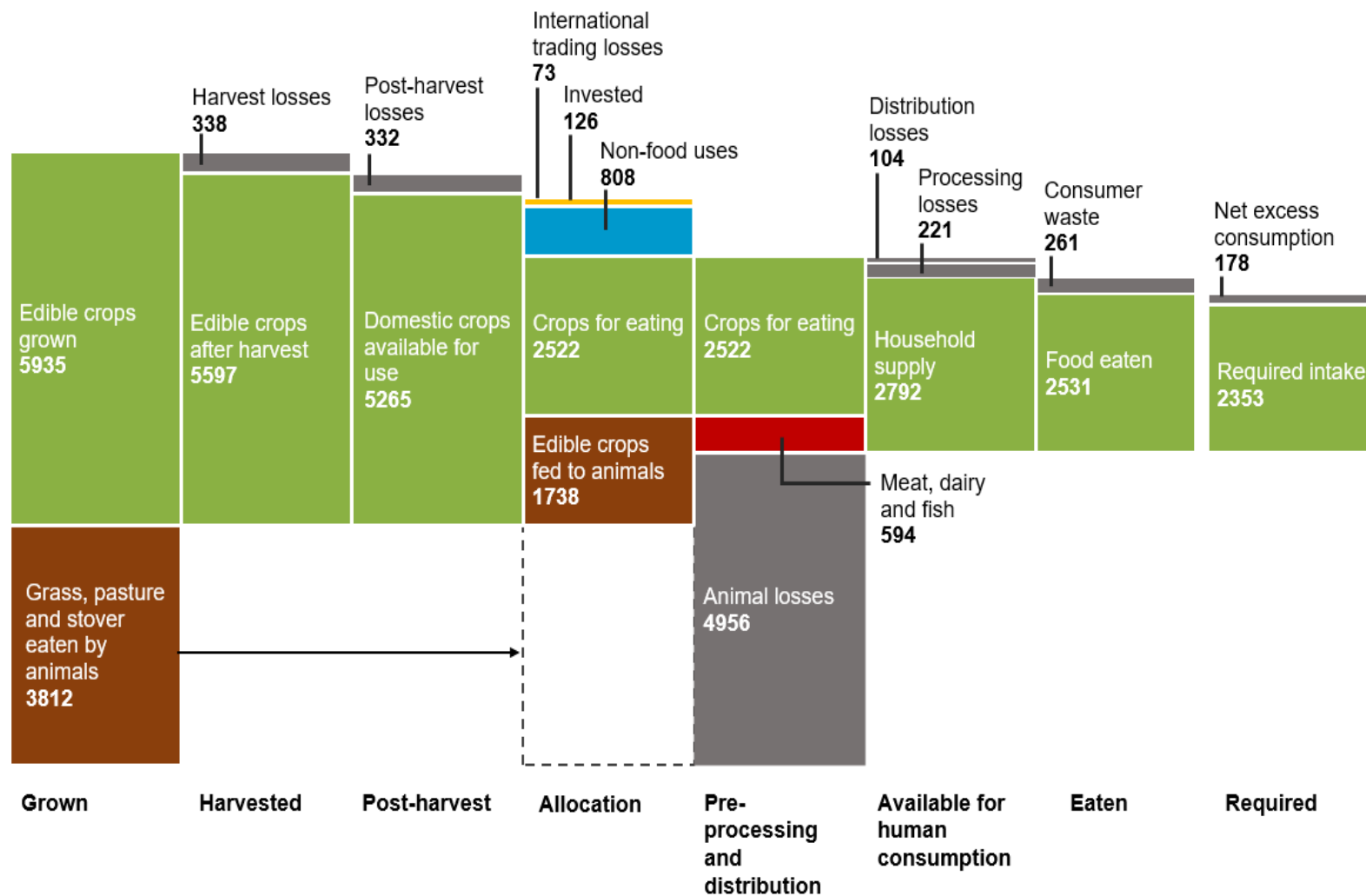
Where do the world's calories go?



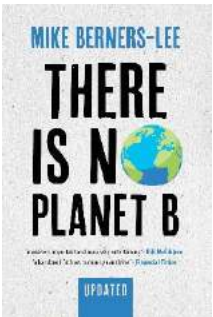
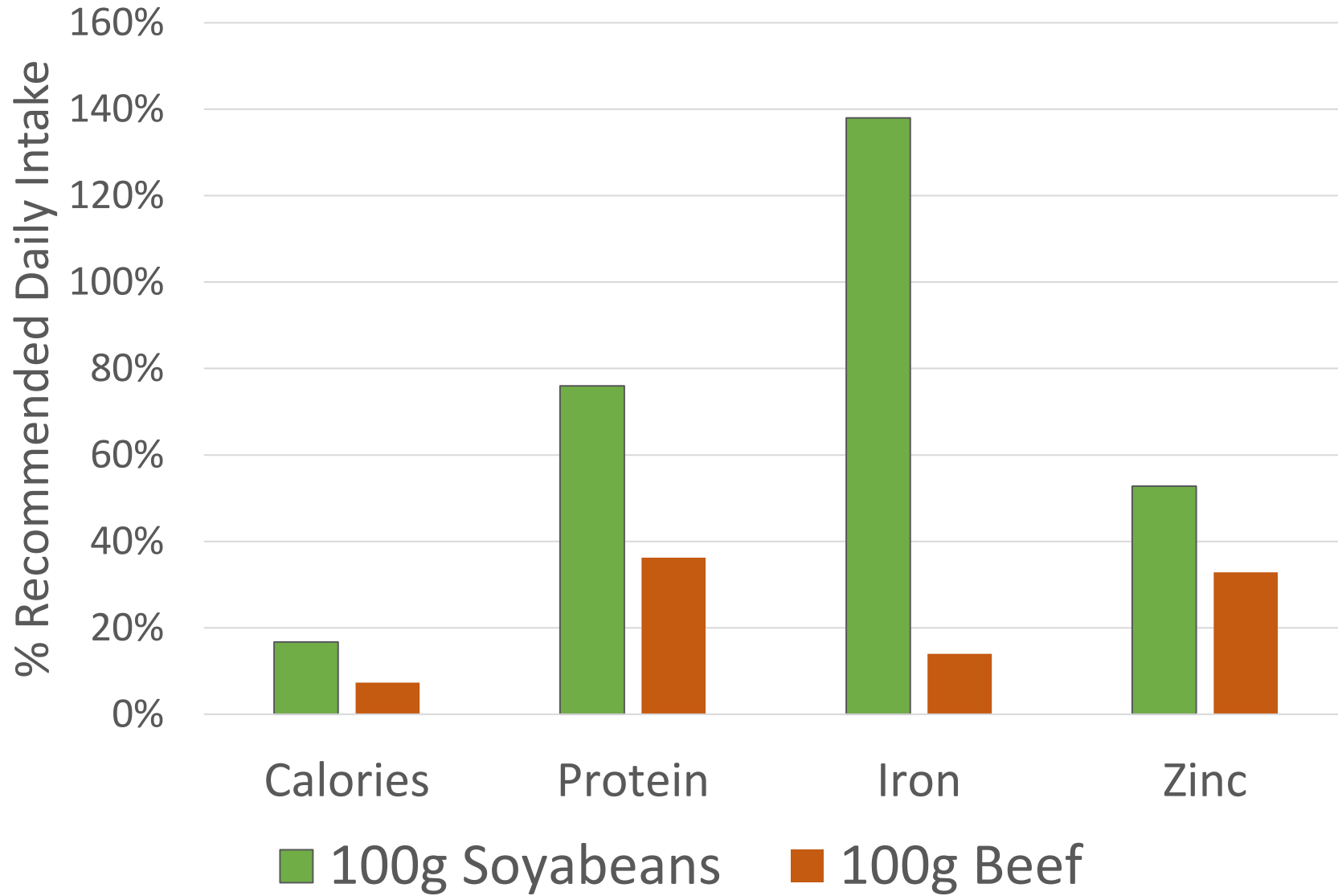
Where do the world's calories go?



Where do the world's calories go?



Soya vs Beef



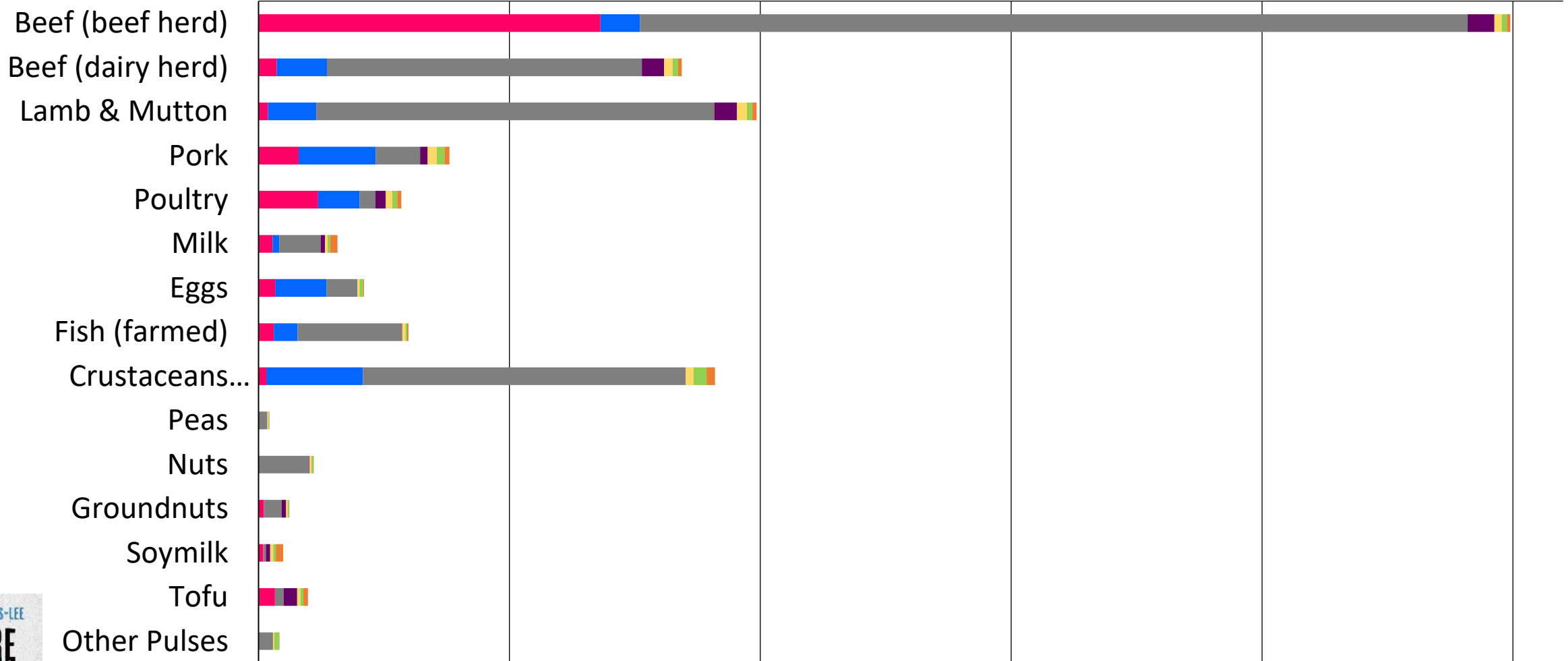
Two-thirds of the **world's antibiotics** go to animals



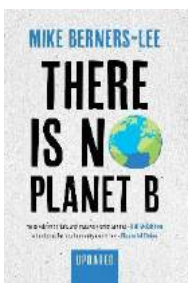
kgCO2e per 50 g protein

GHG emissions (kg CO2e)

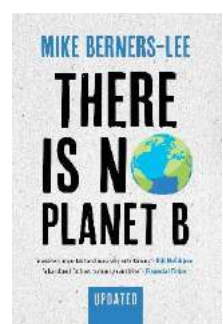
0 5 10 15 20 25



Deforestation Feed Farm Processing Transport Packaging Retail



When is a seabass not a seabass?



Technical solution to food and land

Ready to go
right now



Mainly R&D
so far

Towards
**Plant-Based
Diets**

Land restoration
for wildlife and carbon
storage

'Agroecology'
(low tillage, permanent
cover, low fertiliser and
pesticide, rotations,
mixed crops, robot
weeders...)

Perennial
cereal crops

**Beyond
Photosynthesis**
For protein, fat and
carbohydrate

Freezers and
cold stores

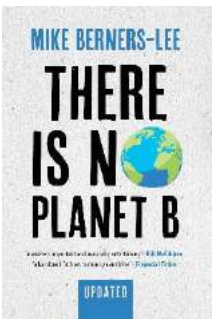
Boats for
transport

Waste
reduction

Limit population
education, poverty elimination and
women's rights

There Is No Planet B: A Handbook for the Make or Break Years

Climate
Biodiversity
Energy
Food
Politics
Economics
Transport
Inequality
Growth
Plastics
Business
Technology
Population
Media
How we think
Ocean
Acidification
Other
Pollution
Disease
Threat



Inequality

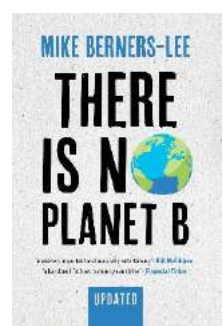
Business

Economics

Growth –of
what?

Jobs

Metrics

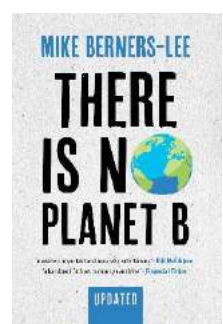


Two big questions for the Anthropocene:

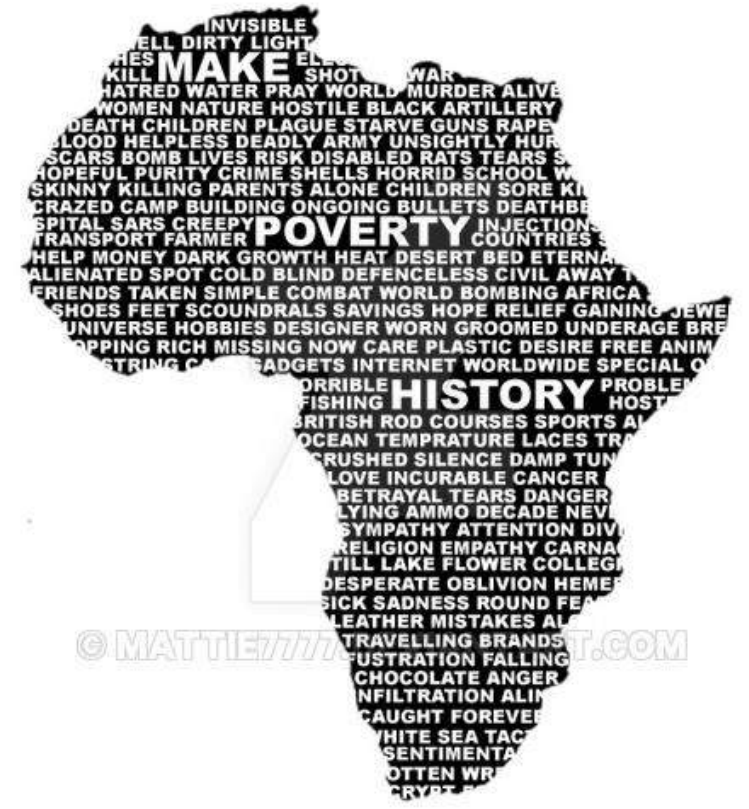
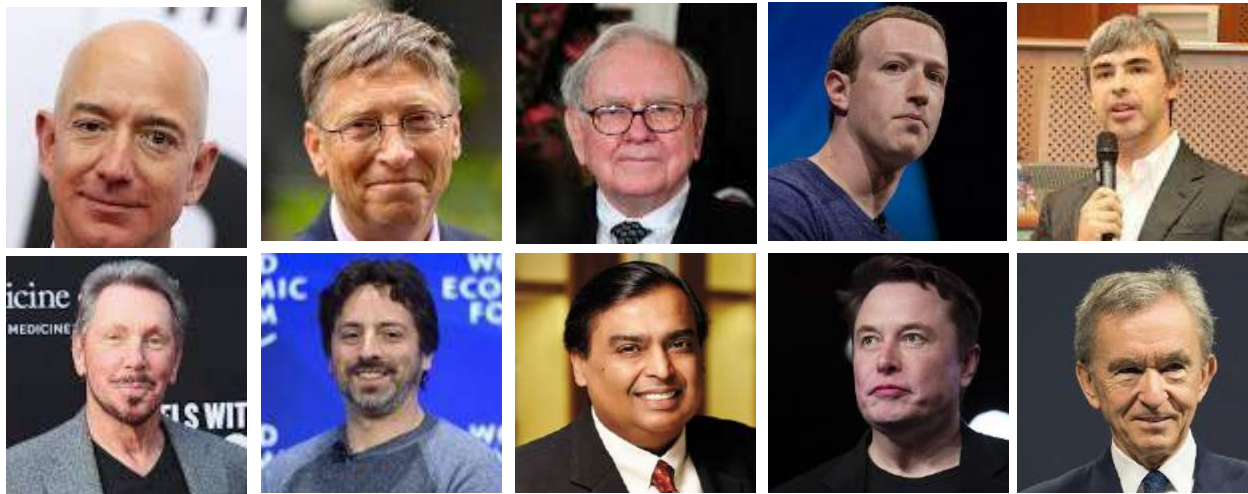
What should we grow?

And for everything else...

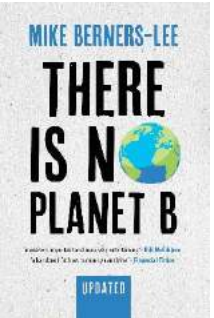
How can we stop wanting more?



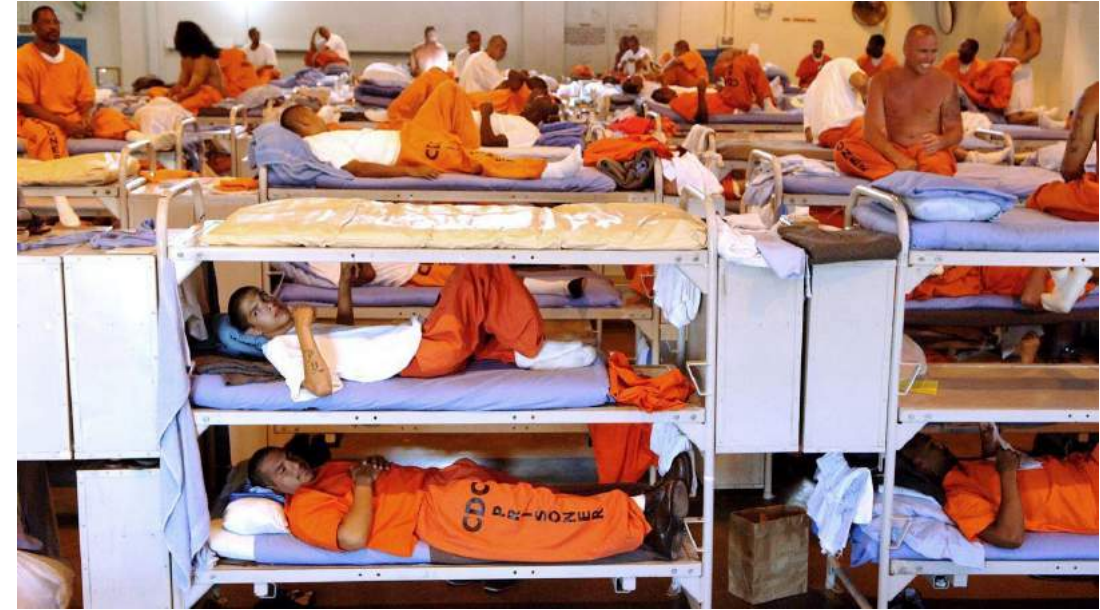
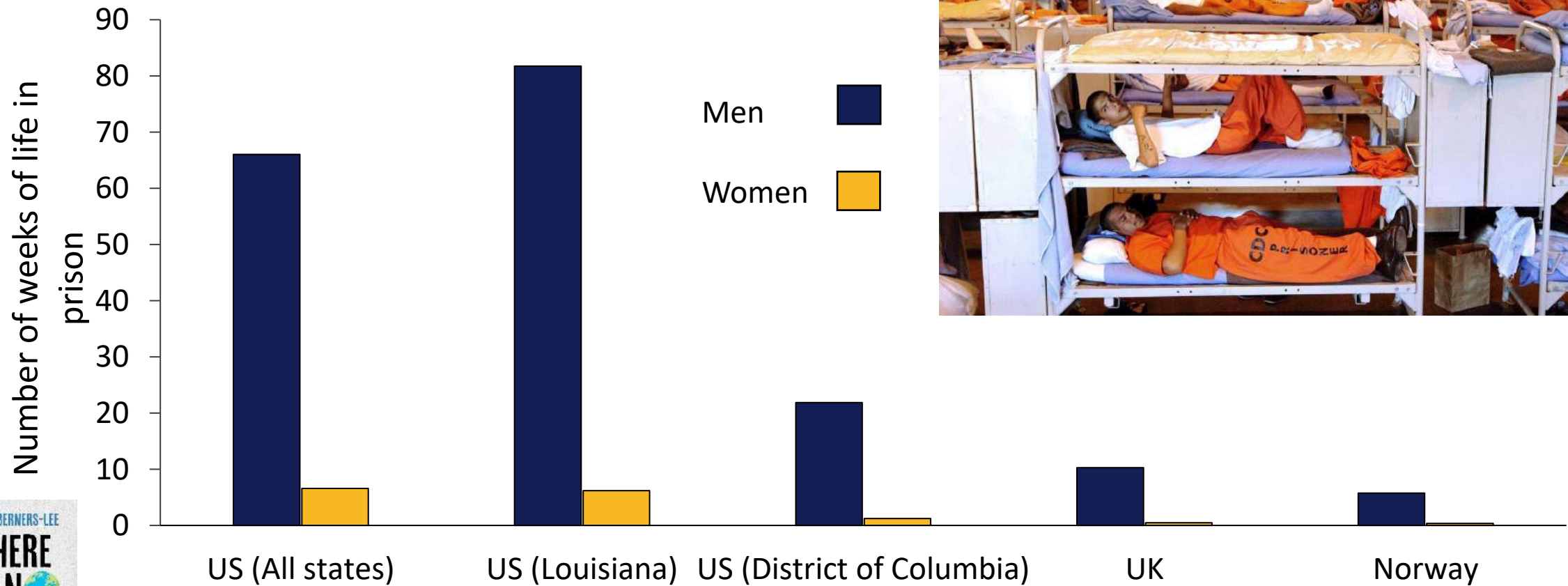
The ten wealthiest Americans could quadruple the wealth of the poorest half of Africa - and still be billionaires



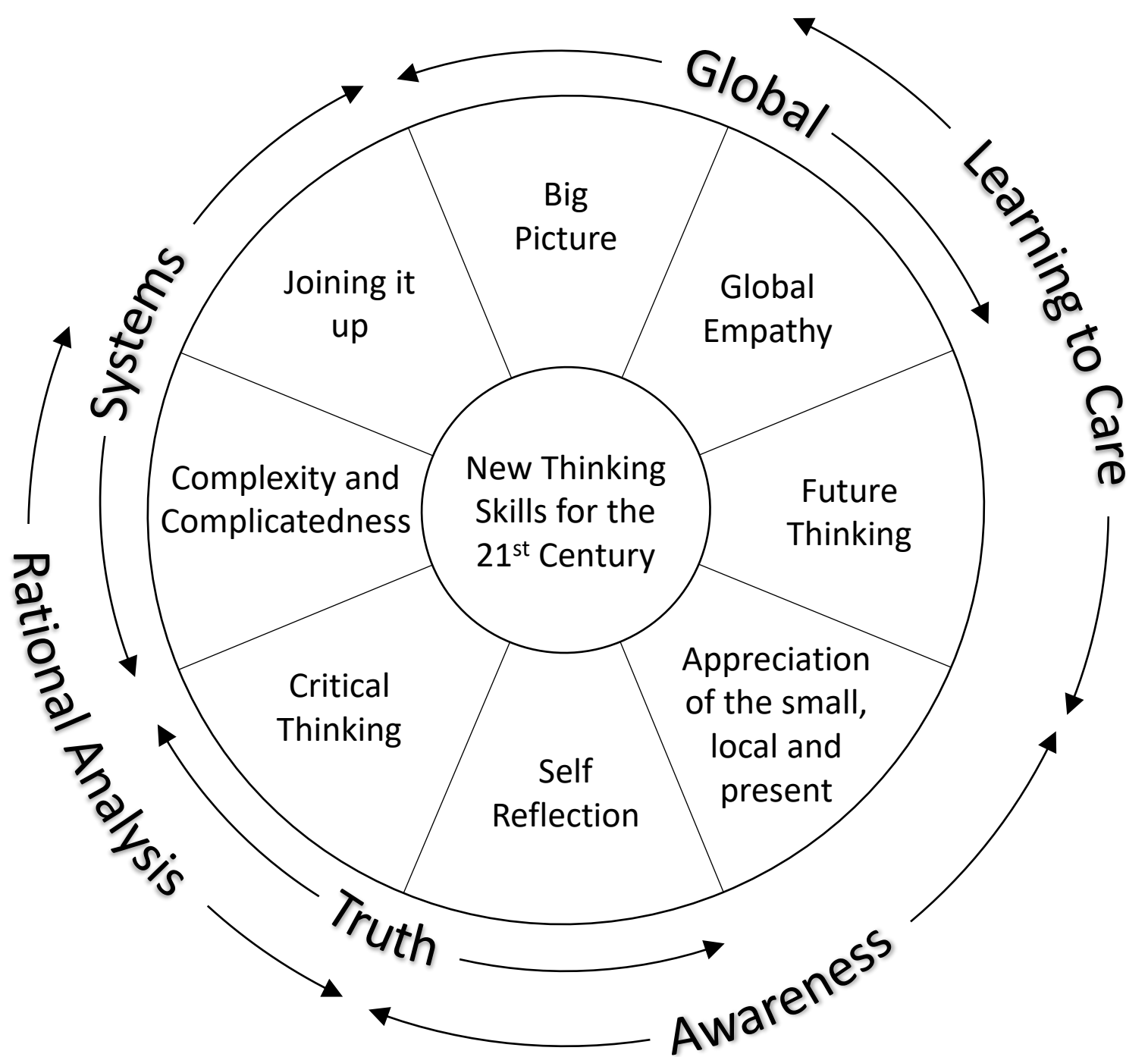
© MATTIE7777.COM



How many weeks can we expect to spend in prison during our lifetime?



Eight new thinking skills for the 21st Century

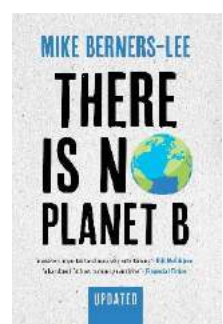


MIKE BERNERS-LEE
THERE IS NO PLANET B

UPDATED

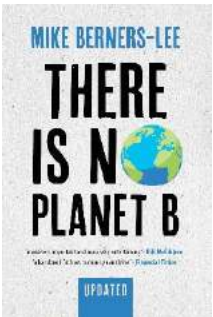
There Is No Planet B: A Handbook for the Make or Break Years

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Growth
Plastics
Business
Technology
Population
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How we think
Ocean
Acidification
Other
Pollution
Disease
Threat

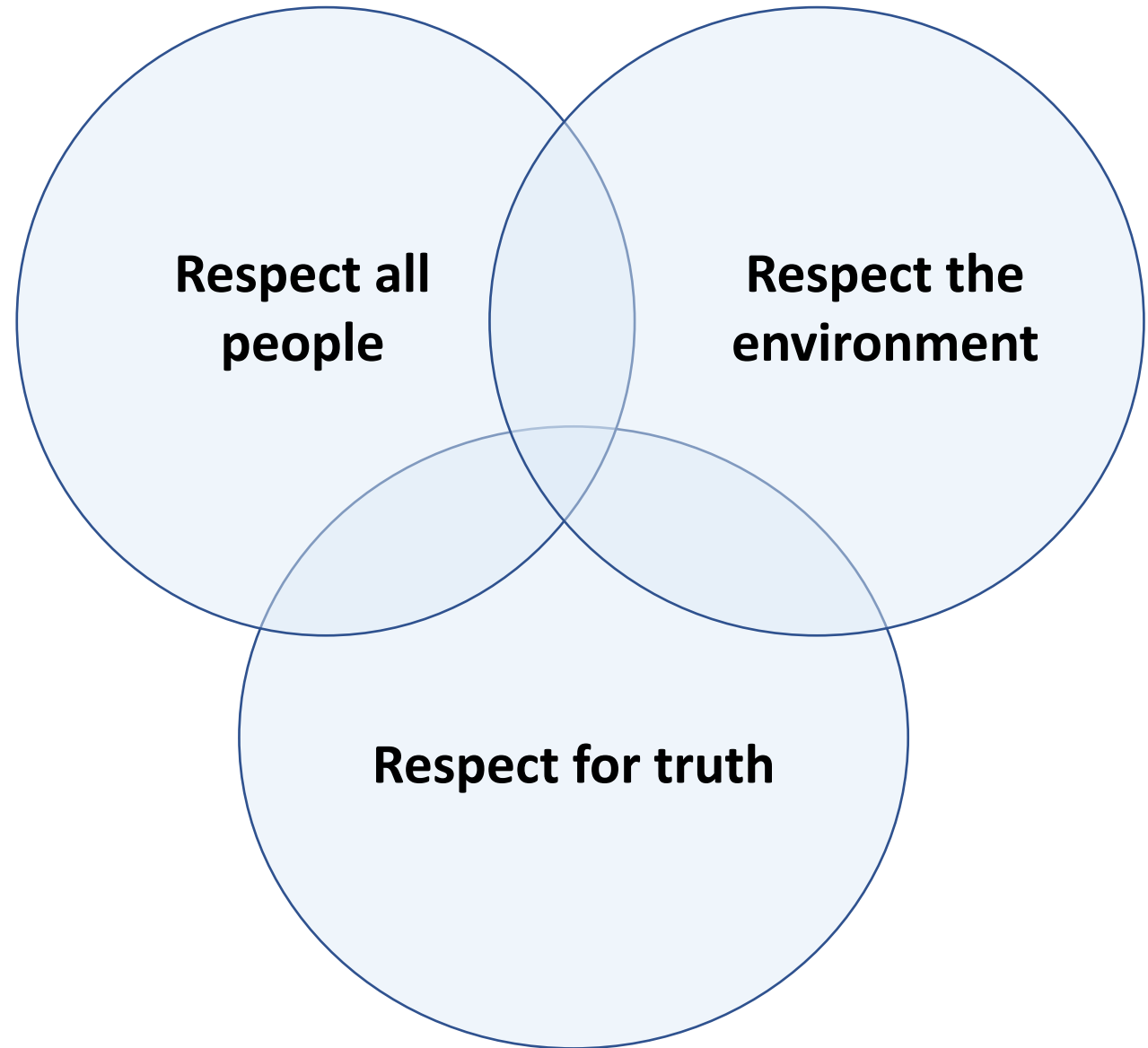


There Is No Planet B: A Handbook for the Make or Break Years

Climate
Biodiversity Energy
Food Politics Economics Transport
Inequality Honesty & Growth
Kindness Technology Population
Plastics Business
Media How we think
Ocean Disease
Acidification Other Threat
Pollution



**Three
values we
can no
longer live
without**



Truth and Trust



reast: a student special
• DIY pot noodles • £1 meals • 10-minute desserts

Feast
The Guardian
Saturday 10 October 2020

1
The essential daily briefing

BBC NEWS

itv NEWS at TEN

Saudi Arabia pays UK firms

Interview Actor Viola Davis
Look back at The Help as a missed opportunity

Everybody out!
Teachers plan strike action

THE TIMES
Wednesday September 30 2020 thetimes.co.uk 16p (357p)
Get your coat
Anna Murphy's autumn selection
Plus How the super-rich do schooling
Sozzled old cads are

THE Sun
WINE UPS
CANCER 9%

2FREE
LEGOLAND
TICKETS
WORTH UP TO £120

Daily Mail
FREE CERAMIC
POPPY BROO
Beautiful. Unique. And we are giving away thousands

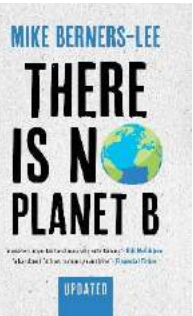
Record rate of infection puts Britain on alert
sky NEWS

LABOUR EXCLUSIVE
BLOOD ON THE WALL

News

When it's all so global, what can *we* do?

Imagine



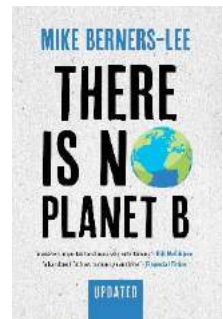
What might we aim for?



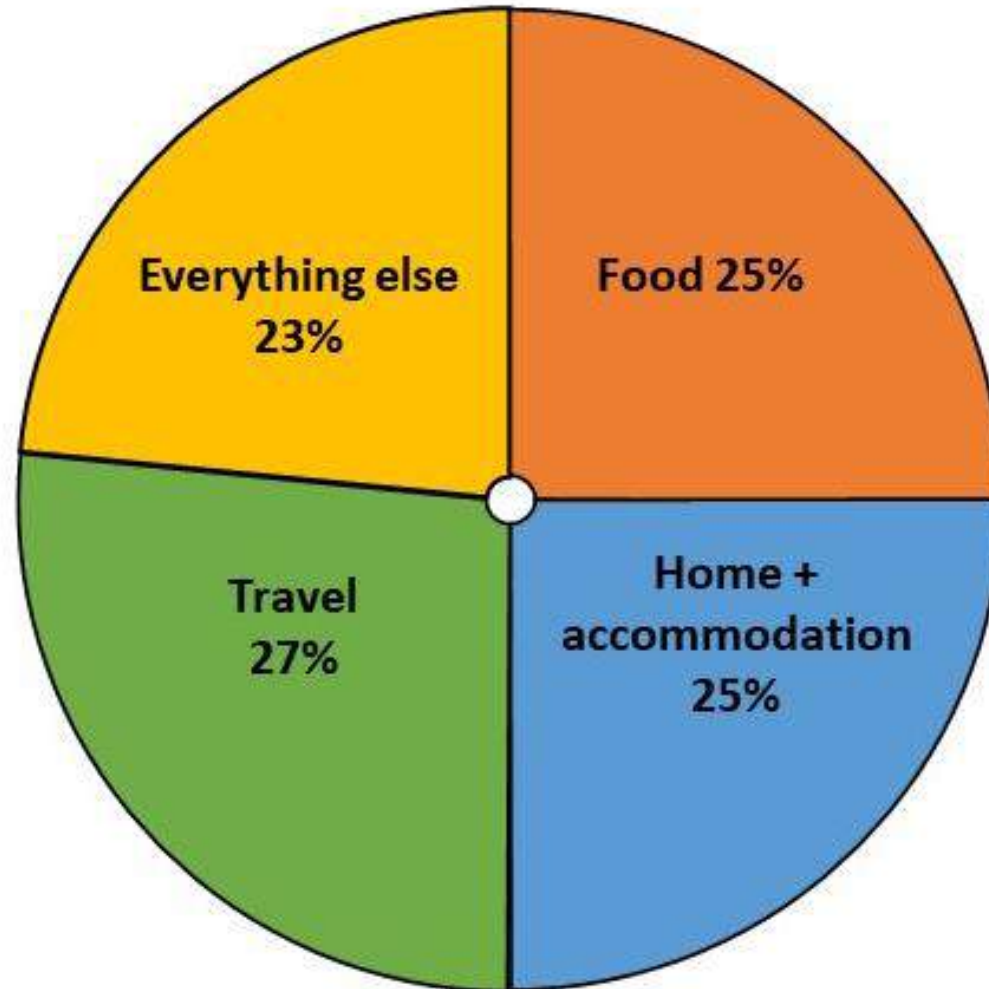
When it's all so global, what can *we* do?

Imagine

Role
model



Average UK person's Greenhouse Gas Footprint: 12.7 tonnes CO₂e per year



When it's all so global, what can *we* do?

Imagine

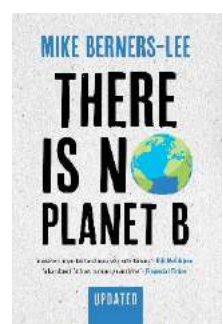
Influence

Insist

**Role
model**

**Develop
Skills and
values**

Protest?

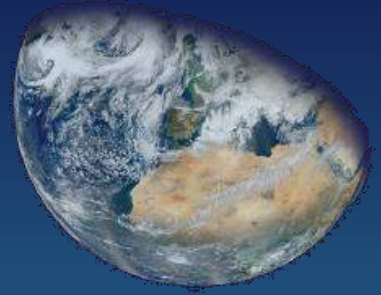




A race between tipping points



There is No Planet B



A Handbook for the Make or Break Years

Thank you for listening

Any questions?

What do *you* think?

Please send thoughts, improvements and
collaboration ideas to

Mike@TheresNoPlanetB.net

(But I'm afraid I'm not very good at replying)

Twitter: @MikeBernerslee

