



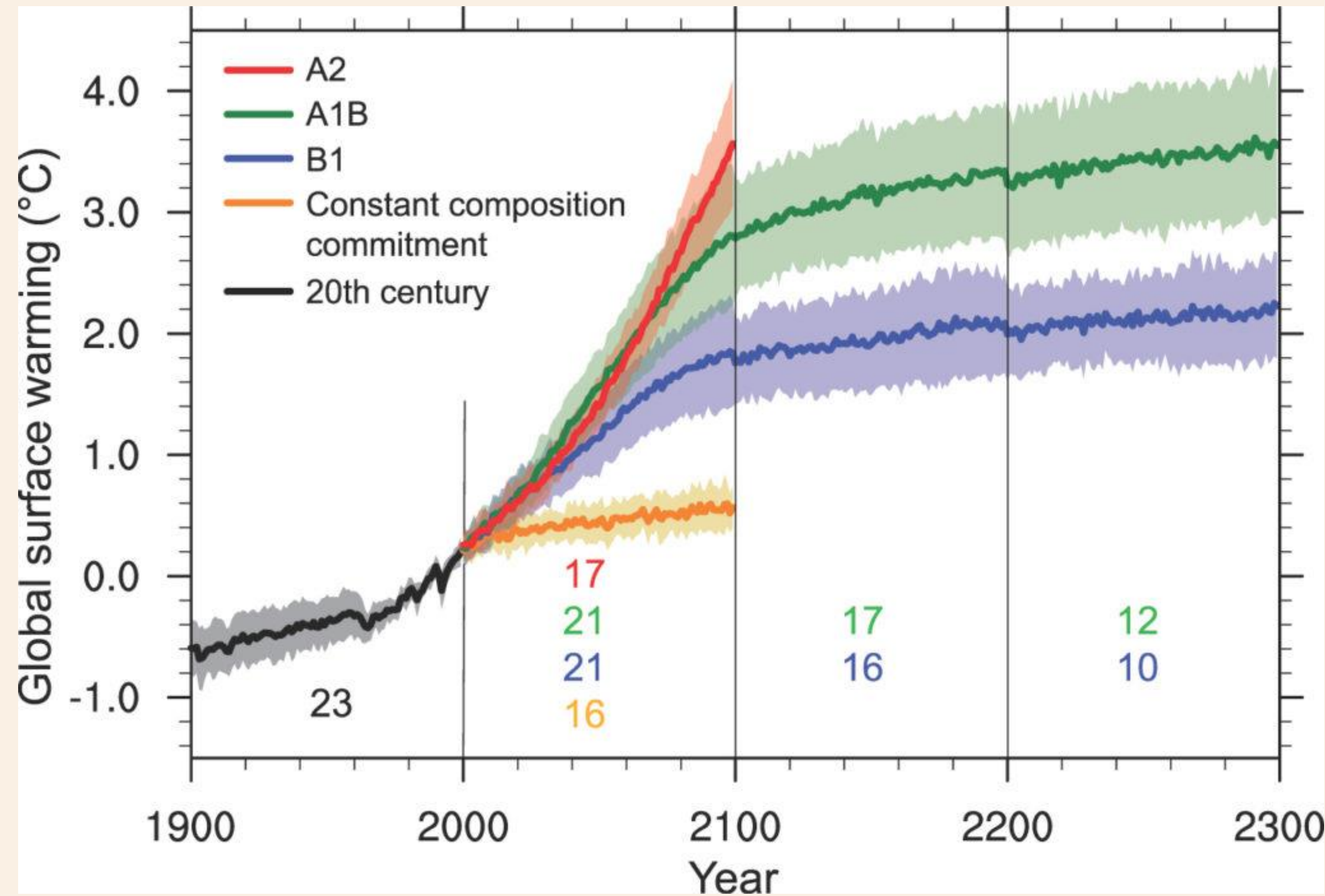
**Co-operative  
Climate Action**



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# Why consider Climate Action Bonds?

Whatever we do today to reduce emissions will have no impact for at least 10 years



IPCC projections

- Cutting emissions alone will not be enough to keep global temperatures from rising more than 1.5 or 2 degrees C.
- The Intergovernmental Panel on Climate Change and others have all stated that extracting CO<sub>2</sub> from the air will be needed if we are to bend the rising temperature curve before the end of this century.
- These must not be a distraction from the pressing business of limiting emissions – both are essential.
- Tree planting at <\$20/tonne Co<sub>2</sub> e is one of the most cost effective ways of extracting CO<sub>2</sub> from the air provided it is not competing for land with food production\*

\*US National Academies of Sciences, Engineering and Medicine study 2018

Emissions from wealthy countries, companies and individuals have caused the climate change that is already causing extreme hardship in some poorer countries like Malawi.

- Floods—lost crops and houses mean people go hungry
- Maize yield—higher temperatures reduce yield of this staple crop
- Lack of clean water as boreholes dry up in the dry season—worst cholera outbreak for 20 years in 2022 killed over 1000.
- Resulting price increases are causing hunger and malnutrition

## Average Co2 emissions per person in 2017

USA 18 tonnes

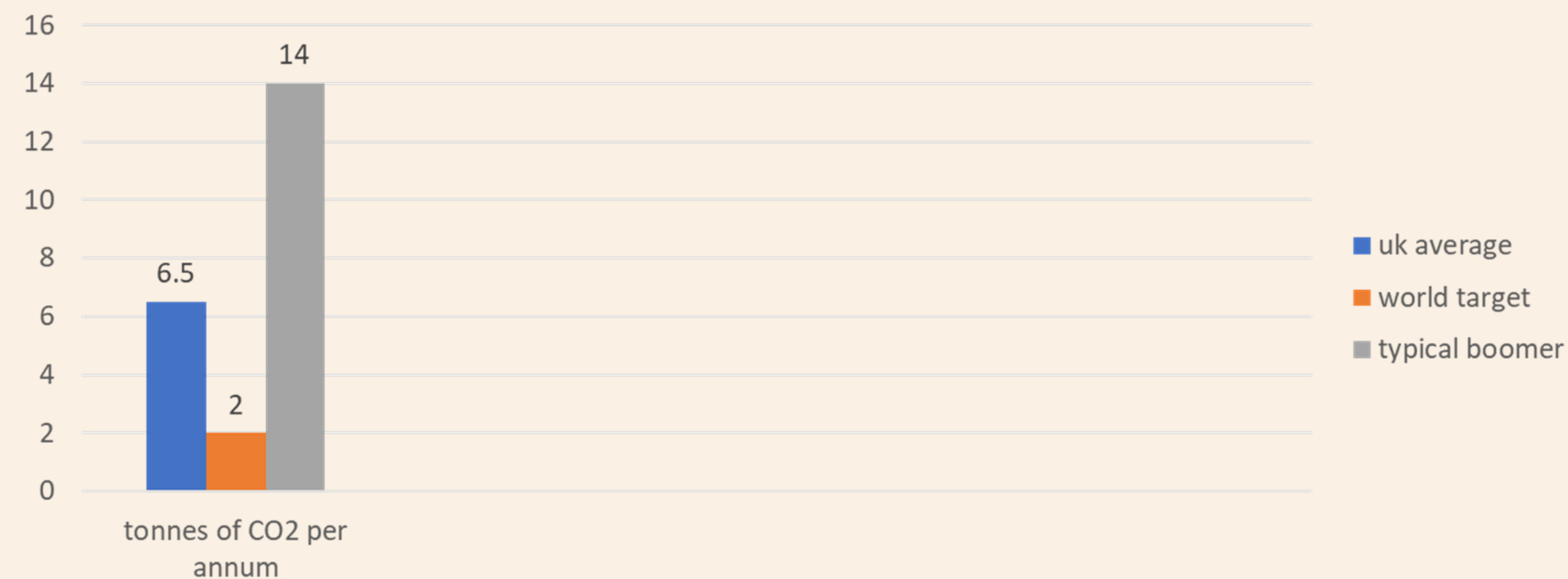
Europe 4.9 tonnes

Africa 1.3 tonnes

UK 8.1 tonnes

- At home 1.5
- Flights 0.5
- Other travel 1.5
- Food 2.6–vegans 1.0
- Government and services 1.0
- All the rest 2.0

A long way to go  
(baby boomer taking 3 flights/year, small  
car and 3 bed house)



We should all prioritize reducing this; but we cannot get to zero so that is not enough

So every year save what is practical and cost effective and buy some climate action bonds to help remove CO2 and support vulnerable communities



Those who can afford it can also help vulnerable communities in poor countries adapt:

- by helping with investment and low carbon technologies.
- Increasing resilience to the effects of higher temperatures
- It's never too late to start—think about your lifetime emissions and the legacy you are leaving children growing up today

Co-operative Climate Action offers a cost effective and sustainable way of doing this for individuals and businesses that can also reduce the growth in emissions from Africa, which is vital for controlling longer term global temperature increases.

- Run by volunteers—both in the UK and Malawi
- Co-operative structure—community driven, transparency for investors, rooted in co-operative values and principles
- Projects self funding in the long term
- Imaginative promotions to engage co-operative members



## Giant clumping bamboo planting at one of our pilot school projects

- Reduces felling of mature trees for firewood
- CO2 absorption 4X that of fastest growing trees
- Can also be used for goat fodder, nutritious food, water treatment, erosion control, construction, etc
- Community engagement includes education campaign on the need to preserve indigenous forests and support wildlife





- 30% of canes can be cut annually after 3 years
- Planting at schools, churches, and smallholdings rather than large monoculture plantations
- Fuel efficient stove design and materials provided to planters
- Co-operative provides support to establish spin off community businesses

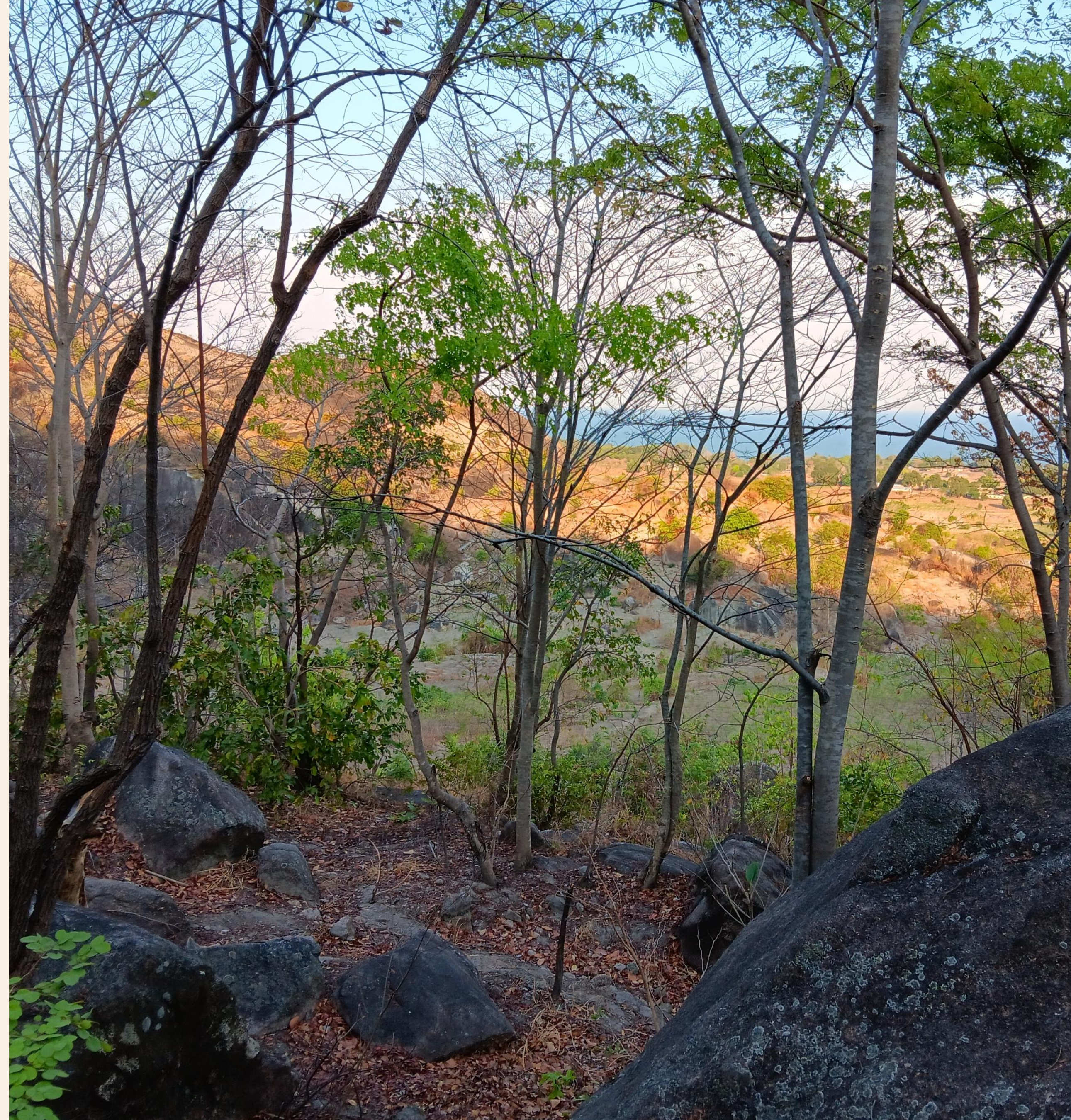


5 year old bamboo at the nursery near Lilongwe



## Tree planting Project

- 20,000 trees planted in 2025
- Indigenous trees in small lots supplemented by fruit trees
- Co-operatives being formed to market forest products starting with mangoes and honey.
- Communities setting up conservation areas as part of project



Sani Hill Conservation Project



## Resource Centre–on Lakeshore near Nkhotakota Central Malawi

To help community groups establish their own  
green businesses

- Internet access
- Solar panels
- Wind turbine
- Bore hole
- Workshop
- Accommodation





Let's help all young  
people adapt to a  
changing climate and  
build a future





# Thank you for your time.

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